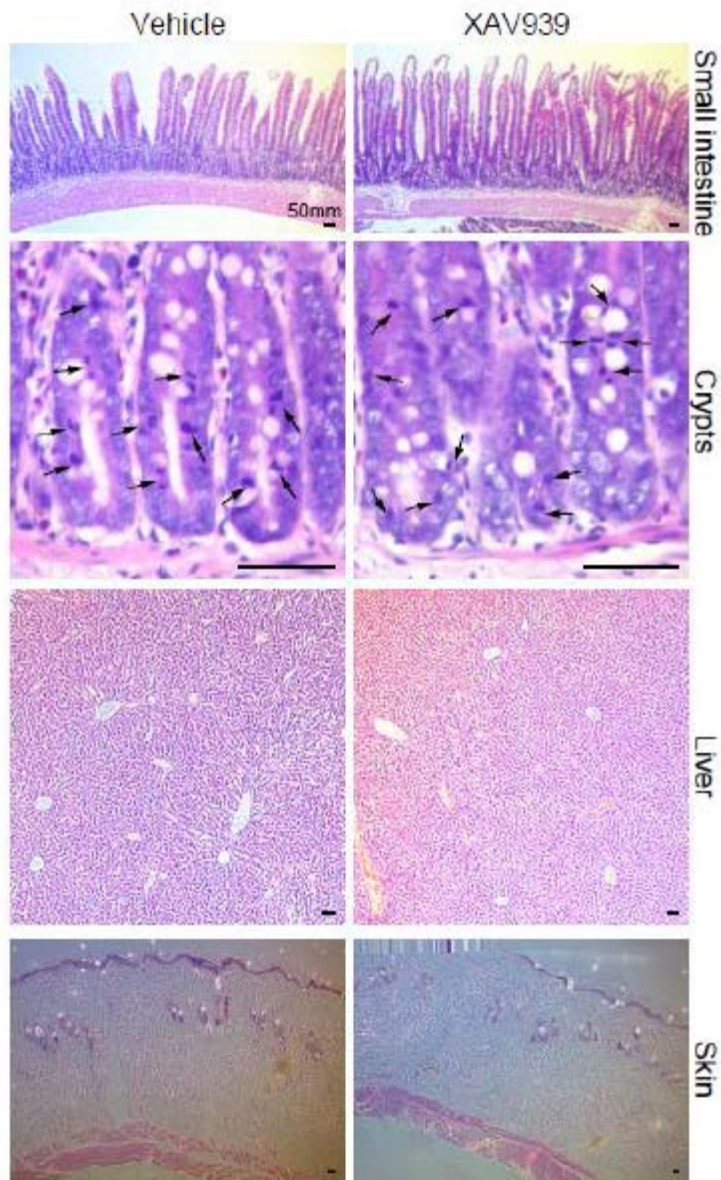


## SUPPLEMENTARY INFORMATION



**Supplemental Figure S1. XAV-939 had no effect on tissue homeostasis in PAC-injected rats. XAV-939 (3 mg/kg), given on day 16 after the first PAC injection, was intraperitoneally injected into Sprague-Dawley rats.**

One day after treatment, the tissue was resected and processed for hematoxylin-and-eosin staining. Of note, XAV-939 does not affect the overall tissue integrity of small intestinal

crypts, the liver, or the skin. Arrows indicate the mitotic cells in the intestinal crypts. Representative images are presented. Scale bars, 50  $\mu\text{m}$ .

**Supplemental Table S1. Phosphorylation (STY) sites of dorsal root ganglia.**

Gene	Localization prob	PEP	Score	Phospho (STY) Probabilities	Charge	Mass error [ppm]	Control #1	Control #2
Ttn	0.979406	8.83E-05	83.438	YS(0.021)S(0.979)PPAHVK	3	0.33163	21684.1	112762.8
Mybpc2	0.578932	1.56E-60	99.536	QTPPAEPPKEAPPEDQS(0.421)PT(C	4	1.0689	29057.2	154401.7
Mybpc2	0.86165	1.52E-48	86.552	EAPPEDQS(0.862)PT(0.081)VEEPT	4	-0.36527	27242.0	135041.2
Ttn	0.992483	0.0033151	52.247	S(0.008)VKS(0.992)PLLIR	3	0.26859	1947.4	10759.6
Ttn	0.927786	7.27E-05	55.437	VKS(0.928)PET(0.902)VKS(0.17)PK	4	-0.43475	65824.0	255910.2
Ttn	0.902113	0.00185225	49.265	VKS(0.928)PET(0.902)VKS(0.17)PK	4	-0.43475	65824.0	255910.2
Ttn	0.961368	3.29E-14	124.47	IELS(0.039)PS(0.961)MEAPK	2	0.23697	58473.5	202040.7
Ttn	0.78008	7.27E-05	55.437	VKS(0.693)PET(0.527)VKS(0.78)PK	3	0.13395	60480.8	221807.1
Ttn	0.921677	2.87E-10	91.518	T(0.301)RPRS(0.71)PS(0.922)PVS(I	4	0.10168	6888.6	21428.2
Ttn	0.794174	2.87E-10	91.518	T(0.794)RPRS(0.276)PS(0.898)PVS	3	0.050545	10651.3	34245.7
Ttn	0.986055	0.00533896	84.568	AVT(0.014)S(0.986)PPR	2	-0.5927	11973.3	38178.1
Ttn	0.934976	2.18E-10	86.367	RVKS(0.935)PELVAS(0.065)HPK	4	0.56335	16169.2	53473.5
Ttn	0.943528	6.58E-11	90.707	S(0.056)PELVAS(0.944)HPK	3	0.30565	31180.2	94129.6
Ttn	1	0.0294376	52.49	VKS(1)PEPR	2	-0.7102	14146.4	55596.0
Ttn	0.839622	4.28E-07	80.507	S(0.84)RS(0.142)PT(0.018)PPSIAAI	3	0.19744	23684.2	72816.5
Srl	0.80803	5.60E-12	123.28	SEDTQS(0.808)S(0.192)EVR	2	-0.54768	6458.1	18842.8
Srl	0.999958	1.02E-11	64.705	TQDTEAEAS(1)EERQQGR	3	-0.24362	3362.4	9903.6
LOC10090	0.99997	5.82E-05	89.46	T(1)PDHEIQGSK	2	1.5429	34872.8	84713.6
Ttn	0.994853	1.41E-15	63.701	LRPGS(0.995)GGEKPPDEAPFT(0.0(	4	-0.54043	4892.3	9336.5
Potef	0.834605	0.000217579	56.404	EIT(0.003)ALAPS(0.835)T(0.163)M	3	-0.66154	1742.4	5353.4
Hrc	0.999944	7.05E-25	99.569	KGKDEDES(1)DEDDHVTR	4	0.022708	24910.3	64844.1
Ttn	0.999431	0.00173128	85.154	QQS(0.999)PS(0.001)PIR	2	-0.29672	14164.3	36031.5
Ttn	0.888702	2.39E-08	91.812	AVS(0.889)PT(0.108)ET(0.003)KPT	3	-1.5582	17101.8	54759.1
Ryr1	0.627152	1.16E-06	81.904	KIS(0.013)QT(0.627)AQT(0.242)Y(I	3	-0.2974	7244.3	21417.3
Hrc	0.699829	2.33E-06	53.981	DGDEDIS(0.7)T(0.3)EFGHK	3	-0.18381	15662.3	34346.6
Synpo2l	1	0.00574066	83.869	AES(1)LQEK	2	-0.73024	13761.1	33121.3
Mylpf	0.877139	9.75E-107	169.41	AAAEGS(0.123)S(0.877)NVFSMFD	3	-0.4182	113125.6	270312.7
Hrc	1	1.53E-26	78.674	QQSHNREEEDGVVS(1)GEDHR	4	-0.90201	7584.0	19110.5
Mypn	0.993044	2.86E-36	104.18	T(0.007)PVDES(0.993)DDEIQHDEII	3	-0.58164	19741.2	32928.3
Ttn	0.944719	0.0078683	80.165	S(0.055)VS(0.945)PAGR	2	0.10843	23588.8	57725.1
Trpc6	0.999876	5.73E-06	65.043	FGILGS(1)HEDLSK	3	-0.59784	21049.6	13387.8
Arhgef19	0.890448	0.00146056	76.471	ANLS(0.89)PS(0.036)S(0.073)S(0.0	2	0.31763	36473.3	67044.5

Control #3	Pain #1	Pain #2	Pain #3	Log2(Pain/Control)	P-value	Positions in proteins
86961.0	31970.3	12929.5	10699.0	-2.0	0.1	32921
37295.5	29728.6	14487.6	14683.0	-1.9	0.3	44
33603.3	25626.9	14060.1	14135.0	-1.9	0.2	42
6400.6	3037.8	2058.3	1427.5	-1.6	0.2	322
193722.3	87871.4	53336.0	49144.0	-1.4	0.1	33452
193722.3	87871.4	53336.0	49144.0	-1.4	0.1	33455
175261.4	78584.4	44575.3	40940.0	-1.4	0.1	1992
168266.7	77920.0	49610.7	47282.0	-1.4	0.1	33458
15904.7	7400.1	5256.2	4918.0	-1.3	0.1	33097
23693.6	11392.3	8700.3	8744.1	-1.3	0.1	33091
29485.3	14275.3	10497.3	8764.9	-1.2	0.1	33439
33901.4	19383.5	14724.8	12741.0	-1.1	0.2	33464
73665.8	36943.2	28134.2	26202.0	-1.1	0.1	33470
40601.2	29593.3	11993.4	10139.0	-1.1	0.2	33445
50327.8	27810.3	21444.5	20428.0	-1.1	0.1	262
16053.7	7583.8	6359.9	6118.5	-1.0	0.1	318
6650.4	4029.3	3004.7	3150.7	-1.0	0.2	423
113469.5	57329.9	33865.3	28154.0	-1.0	0.2	144
21831.5	8932.6	4658.8	4878.4	-1.0	0.3	12037
3391.4	2021.8	1937.3	1527.9	-0.9	0.2	323;325
52751.9	30509.6	25347.2	20343.0	-0.9	0.1	343
27922.4	16620.4	13104.8	12519.0	-0.9	0.1	281
41477.4	21892.5	22999.4	16593.0	-0.9	0.2	33476
15061.5	10050.9	7474.0	6569.2	-0.9	0.2	2850
32818.7	17093.4	15048.6	13821.0	-0.8	0.1	496
35050.1	21489.9	13855.0	13108.0	-0.8	0.2	35;1106
210692.6	144556.7	117764.6	97488.0	-0.7	0.2	16
15538.4	9936.5	8802.0	7103.6	-0.7	0.2	152
30675.5	19176.7	16878.2	15916.0	-0.7	0.1	906
40133.8	30430.4	23339.2	22543.0	-0.7	0.2	307
12959.9	14257.7	4531.9	11257.0	-0.7	0.2	814
70314.3	41593.9	30593.1	38162.0	-0.7	0.1	340

Tpm1	0.5	1.88E-21	86.944	AISEELDHALNDMT(0.5)S(0.5)I	3	-0.003898	22359.2	42915.7
Tpm1	0.5	1.88E-21	86.944	AISEELDHALNDMT(0.5)S(0.5)I	3	-0.003898	22359.2	42915.7
Slc15a4	0.999946	0.00275577	59.908	HSLFDS(1)CK	3	1.1145	6093.2	4940.8
Myh4	0.571844	0.0533573	47.732	VGNEY(0.428)VT(0.572)K	2	-0.03707	52047.3	99319.1
Obscn	0.989864	5.57E-20	68.192	LQVPGGDS(0.99)DEES(0.008)KT(0	4	0.46766	40090.7	66663.9
Myh4	0.997787	0.0433825	58.955	QRS(0.998)DLS(0.002)R	2	-0.15229	3126.4	6774.0
Ttn	0.71033	0.000702732	40.759	T(0.301)RPRS(0.71)PS(0.922)PVS(I	4	0.10168	4168.4	6225.2
Chrna3	0.619643	1.49E-78	147	S(0.167)S(0.167)S(0.62)S(0.046)ES	3	1.3701	32908.4	50204.7
Ttn	0.583345	0.00509101	42.242	S(0.239)RS(0.583)PT(0.174)PPS(0.	2	0.47628	7814.4	16552.4
Ttn	0.836346	3.50E-06	62.861	S(0.163)PIRIS(0.836)PAMS(0.001)	3	0.74729	3076.0	7014.9
Jph1	0.999382	0.010848	42.843	RGS(0.999)LLGS(0.001)MK	3	-0.13592	4556.3	7135.0
Lamb1	0.998465	0.000234204	63.091	ET(0.002)VDS(0.998)VEKK	3	0.65506	64829.3	59530.7
Nup133	0.522592	2.89E-07	56.29	GLSLGS(0.003)AVS(0.237)S(0.237)	3	0.14099	682.7	304.3
Ttn	0.702156	0.0336431	42.718	VT(0.002)VET(0.296)HT(0.702)K	3	0.80416	6672.9	13885.8
Nefl	1	7.31E-82	174.82	DEPPS(1)EGEAEKEEKEEKEEKEEKEE	4	0.98491	931780.8	800078.7
Potef	1	5.24E-14	119.77	DSYVGDEAQS(1)KR	2	1.266	32308.5	55815.4
Adnp	0.764875	1.02E-08	73.252	DGAS(0.765)PS(0.02)ES(0.174)GPI	2	0.13424	10282.6	10828.6
Chd4	0.978444	0.000631925	50.158	QVNY(0.022)NDGS(0.978)QEDR	2	-1.0506	2690.3	3857.3
LOC10036	0.999762	1.46E-05	62.055	RKEEDS(1)EEETER	3	0.40903	4866.0	4380.4
Map1b	1	1.44E-107	176.7	GEAEQS(1)EEEEEEEEEDKAEDAR	4	0.28977	39505.1	36488.9
Clip2	0.717831	1.58E-11	67.227	T(0.011)GNES(0.718)GS(0.248)NL	2	0.22586	9190.2	11251.1
Mylpf	0.547124	7.43E-22	71.06	RAAAEGS(0.547)S(0.416)NVFS(0.0	3	1.3981	10763.2	21101.4
Tuba1b	0.993468	0.00885332	72.607	LS(0.993)VDY(0.007)GK	2	0.37713	93421.4	89886.7
Nefm	0.986766	7.51E-15	119.4	GSPSTVS(0.001)S(0.012)S(0.987)Y	2	0.26841	108155.8	116832.4
Nexn	0.867218	2.40E-06	71.221	AVS(0.022)QES(0.111)LT(0.867)PC	3	-0.25121	14268.0	44120.1
Mycbp2	0.796579	0.00722946	58.596	S(0.797)S(0.14)S(0.063)PQDK	3	0.8385	13637.1	7258.0
Sqstm1	0.629693	1.15E-07	54.103	LT(0.027)PT(0.125)S(0.63)AES(0.0	3	1.8364	12740.2	11321.3
Tnni1	0.972324	2.16E-07	72.891	GLS(0.972)LS(0.028)ALQDLCR	3	0.25977	5646.1	7231.2
Ldb3	0.999929	9.46E-10	64.454	VVANS(1)PANADYQER	2	-0.54996	23702.1	33885.9
Bzw1	0.924849	1.11E-06	56.339	NAEEES(0.925)ES(0.075)EAEEGD	2	0.18771	1113.5	1429.7
Serpinb1a	0.99824	0.00757501	69.825	GAS(0.002)HT(0.998)LK	3	0.32864	34602.0	63186.7
Ccny	0.762025	5.49E-07	45.992	YS(0.762)S(0.226)CS(0.008)T(0.00	5	1.2655	2037.1	3076.4
Gon4l	0.934835	2.10E-53	125.39	EET(0.002)QAAKS(0.935)PT(0.063	3	0.29343	18157.4	17758.0
Matr3	0.999458	2.67E-05	49.188	EQEEKS(0.999)GEDGEKDT(0.001)K	4	0.27081	25984.9	28290.5

35259.9	23775.6	21551.3	20613.0	-0.6	0.1	247
35259.9	23775.6	21551.3	20613.0	-0.6	0.1	246
6733.4	3996.3	4816.1	3075.9	-0.6	0.1	297
78246.9	54765.9	49030.5	49924.0	-0.6	0.1	415;412;415
72218.9	45942.0	38427.4	36546.0	-0.6	0.1	6695
4782.2	3421.8	2878.8	3749.2	-0.5	0.2	1141;1144
5488.1	3604.2	3580.0	3706.4	-0.5	0.1	33095
32032.9	16431.2	31690.6	31070.0	-0.5	0.2	418
11616.3	8873.5	8160.8	7810.8	-0.5	0.2	264
5295.0	4074.5	3375.7	3439.3	-0.5	0.3	1332
5287.7	4076.9	4043.9	3946.1	-0.5	0.1	216
22935.6	20750.7	20437.8	65198.0	-0.5	0.5	1222
545.1	506.8	334.0	276.9	-0.5	0.3	49
11070.1	7944.5	8379.0	6815.1	-0.5	0.3	30568
1138847.5	644422.4	682062.0	782590.0	-0.4	0.1	473
43974.0	34425.4	32788.1	30744.0	-0.4	0.2	60;62
8874.3	6732.5	6897.2	8745.0	-0.4	0.0	971
3433.6	2443.8	2192.8	2835.7	-0.4	0.1	1336
4995.8	3513.1	2917.4	4237.2	-0.4	0.0	110
76636.1	37000.4	29037.2	48322.0	-0.4	0.4	1009;883
9904.9	6190.7	7771.7	8988.6	-0.4	0.1	203
14872.0	12466.9	12829.1	10149.0	-0.4	0.3	15
85142.6	63559.0	67383.3	74072.0	-0.4	0.0	158;158;158;143
94704.2	77861.7	79416.3	87687.0	-0.4	0.0	51
45410.2	43141.5	18376.4	18073.0	-0.4	0.6	286
13566.7	6939.2	13562.2	5941.0	-0.4	0.4	2917
10124.9	9372.4	7966.6	8892.4	-0.4	0.0	242
13663.6	7376.2	6724.3	6295.0	-0.4	0.5	42
32454.5	24070.4	23294.3	21891.0	-0.4	0.1	112
1233.6	815.0	974.9	1115.5	-0.4	0.1	411
32442.8	33617.0	33476.3	33179.0	-0.4	0.4	85
1815.4	1969.0	1796.5	1580.5	-0.4	0.3	99
17863.6	11715.7	11482.6	18616.0	-0.4	0.2	1411
28424.9	20271.2	19118.0	24916.0	-0.4	0.0	631



Clasp2	0.997985	3.73E-60	114.9	YES(0.002)YGMHS(0.998)DDDANS	3	0.68733	3544.9	3192.7
Spire2	0.759795	2.86E-05	50.874	DRS(0.76)FS(0.24)EHDLAQLR	4	1.3666	870.2	968.5
Brsk2	0.837273	0.0201391	44.863	GS(0.163)PLPT(0.837)PK	3	-0.59438	8385.3	8153.4
Capg	0.999998	8.79E-94	170.59	YSPNTQVEILPQGRES(1)PIFK	3	-1.7162	229984.4	225317.3
Htt	0.638909	2.86E-08	57.173	AALPS(0.001)LT(0.034)NPSP(0.63)	4	-0.58942	667.0	781.7
Speg	0.765553	4.20E-06	66.215	S(0.101)S(0.124)S(0.766)FS(0.009)	3	-0.19358	8962.7	5364.0
Ncor2	0.816751	3.30E-19	75.773	T(0.008)DDT(0.175)S(0.817)GEDN	3	0.3773	17642.1	17967.5
Med24	0.809303	4.57E-54	130.73	LLSSNEDDAS(0.002)ILS(0.063)S(0.)	3	0.23013	6130.3	6479.0
Scarf2	0.999948	0.0121299	45.28	S(1)REAAAGEPSR	2	0.51594	1450.1	1609.9
LOC10369	1	2.20E-151	200.98	ESDDKPEIEDVGS(1)DEEEEEKK	3	0.22385	1044334.0	1047806.0
Man1c1	0.653866	2.19E-14	120.13	T(0.045)DES(0.283)QES(0.654)QS(	2	-1.2302	10581.8	9021.7
Cnksr3	0.766886	2.05E-06	53.647	GS(0.039)ES(0.767)PNS(0.194)FLD	3	-0.10691	12561.3	20698.8
Srrm3	0.662805	9.77E-07	55.724	ARPAS(0.663)T(0.663)S(0.662)PS(i	3	-0.095114	1631.3	1617.5
Srrm3	0.661983	9.77E-07	55.724	ARPAS(0.663)T(0.663)S(0.662)PS(i	3	-0.095114	1631.3	1617.5
Srrm3	0.663322	9.77E-07	55.724	ARPAS(0.663)T(0.663)S(0.662)PS(i	3	-0.095114	1631.3	1617.5
Slamf9	0.867951	0.00221787	96.604	T(0.129)S(0.868)QLLIT(0.003)K	2	-1.3882	16450.6	14729.4
Ahnak	0.881185	1.61E-06	73.881	IS(0.881)MPDVS(0.119)LNLK	3	-0.46585	4155.7	3488.8
Rpl24	0.945352	5.20E-10	86.214	AIT(0.945)GAS(0.055)LADIMAK	3	0.57574	5725.2	9147.8
Fam91a1	0.824114	1.43E-05	94.538	KLS(0.176)DAS(0.824)DER	3	-0.32381	88533.8	81870.4
Myh4	0.986232	0.000359774	47.815	DAMVS(0.014)QLS(0.986)R	2	-0.065206	23306.1	42415.5
Eprs	0.550013	1.43E-18	71.601	S(0.126)LT(0.03)GIEY(0.264)KPVS(	3	1.1564	20962.5	17083.4
Ctdp1	0.576627	4.12E-12	62.739	S(0.002)AAS(0.105)PS(0.577)GES(i	3	-2.4507	8938.5	8888.0
Anp32b	1	5.23E-13	107.17	KRET(1)DDEGEDD	3	-1.3699	163492.5	122295.0
Slc45a4	0.869862	1.85E-13	107.17	S(0.87)MS(0.13)DLYDLQQR	3	-0.93098	2331.8	3101.3
Usp10	0.943482	0.00120049	68.657	LLS(0.943)PT(0.057)HEK	3	0.59152	3797.4	2917.4
Nefh	0.99844	3.82E-31	91.767	S(0.998)PAEVKS(0.857)PAT(0.146)	5	0.34252	364125.0	311293.5
Ttbk1	0.777441	0.0114419	55.064	RES(0.223)DPT(0.777)GPQR	2	0.71056	1084.0	1311.9
LOC100911	0.781124	3.96E-12	45.61	DEVVS(0.781)PLPS(0.122)ALQGS(0	5	-0.30552	2378.9	2167.1
Nefm	1	2.42E-09	99.796	SDQAEEGGS(1)EK	3	0.38641	48080.5	42016.2
Pcnx13	0.681817	1.10E-45	101.58	RNS(0.682)T(0.318)MGEQEEEEAAC	3	0.84045	3677.0	3502.8
Scn7a	0.594545	9.77E-06	40.086	S(0.595)PT(0.178)S(0.195)INT(0.0	3	-1.5966	1511.2	1596.7
Jph1	0.955473	0.000255428	58.824	QS(0.01)HS(0.955)PQPS(0.127)S(C	3	-0.64337	29254.0	39102.8
Jph1	0.907257	0.000255428	58.824	QS(0.01)HS(0.955)PQPS(0.127)S(C	3	-0.64337	29254.0	39102.8
Map7d2	0.556867	3.20E-11	78.441	KS(0.42)S(0.557)ENLS(0.023)LDDC	2	-0.99819	40716.9	27567.7

2965.7	2513.6	2509.4	2531.7	-0.4	0.0	638;840
799.3	784.0	622.2	649.9	-0.4	0.1	444
7080.6	5700.0	5555.9	7164.6	-0.4	0.1	603
167670.5	158647.2	171496.0	155890.0	-0.4	0.1	338
748.5	740.7	658.3	319.8	-0.4	0.3	1021;1142
4929.6	5205.1	5250.0	4671.9	-0.3	0.3	2052
16164.5	12320.6	13473.5	14958.0	-0.3	0.0	550
5227.4	4522.6	4938.5	4589.3	-0.3	0.0	871
1556.7	1119.0	1213.9	1305.1	-0.3	0.0	816
1052760.6	781719.4	702740.2	994480.0	-0.3	0.1	263
9460.4	7112.4	7733.5	8095.1	-0.3	0.0	162
16646.7	14919.9	12907.1	11642.0	-0.3	0.2	303
1766.9	1260.2	1428.7	1278.5	-0.3	0.0	464
1766.9	1260.2	1428.7	1278.5	-0.3	0.0	466
1766.9	1260.2	1428.7	1278.5	-0.3	0.0	465
17478.2	13742.9	11720.9	13047.0	-0.3	0.0	115
4217.6	3036.8	2862.3	3504.7	-0.3	0.1	1568
6019.8	4673.4	5994.8	5897.0	-0.3	0.3	83
85663.2	65657.7	63418.7	74179.0	-0.3	0.0	674
25008.4	23710.7	25260.6	23246.0	-0.3	0.4	1306
20716.9	15533.6	13549.3	17779.0	-0.3	0.1	954
8709.9	6585.7	7589.0	6988.7	-0.3	0.0	514
158269.7	107528.8	151063.5	96382.0	-0.3	0.2	265;427
2447.4	2100.0	2116.0	2106.5	-0.3	0.1	472
3093.6	2890.4	2532.9	2448.7	-0.3	0.1	543
507451.0	299585.0	281908.3	368050.0	-0.3	0.3	634;604
918.0	962.6	709.2	988.8	-0.3	0.2	658
1931.8	1701.1	1685.5	1816.7	-0.3	0.0	303
55769.1	35605.7	36730.4	44904.0	-0.3	0.1	544
3736.1	2618.6	2973.9	3189.0	-0.3	0.0	96
1718.2	1082.9	1457.5	1345.1	-0.3	0.1	442
33478.7	27148.1	27871.3	27069.0	-0.3	0.1	475
33478.7	27148.1	27871.3	27069.0	-0.3	0.1	480
49867.8	26944.6	36691.9	31625.0	-0.3	0.3	734



Prob1	0.596929	6.13E-07	98.167	T(0.597)GS(0.39)LDES(0.013)LS(0.	2	-1.3887	19712.6	24895.6
Ttn	0.805364	5.39E-12	92.773	RT(0.192)PS(0.805)PDY(0.002)DLY	3	-0.48249	7898.8	13852.9
Stk3	0.550484	6.68E-05	46.494	LADFGVAGQLT(0.45)DT(0.55)MAK	3	-0.25893	1904.6	1820.2
Inf2	0.878627	3.20E-117	129.21	GQGTHLPRPGEDEDEEDT(0.002)AI	4	-0.33262	47481.8	49658.4
Potef	0.624615	0.0014946	50.108	EITALAPS(0.375)T(0.625)MK	3	-0.23877	4938.9	7224.1
Akap13	1	1.31E-10	64.298	DEDEGIPS(1)ENEEKR	3	0.8625	23659.2	21858.2
Ssrp1	0.959569	0.0139274	46.335	KKS(0.96)S(0.04)EGK	2	1.7532	44335.5	37277.6
Emg1	1	3.43E-17	98.062	RFS(1)VQEQDWDPPAPK	3	-0.61015	13032.4	16166.3
Ap3d1	0.646087	4.11E-08	41.174	GEDLDFWLS(0.003)T(0.006)T(0.00	6	-1.3058	29992.3	28267.5
Naca	0.938863	1.20E-07	74.987	DAFTTLAES(0.939)PPS(0.061)PK	3	0.29062	4806.5	7546.3
Cdc42bpb	0.882995	4.85E-10	81.656	T(0.001)S(0.001)S(0.02)AS(0.883)I	2	-0.63467	7061.4	5425.0
Nefh	0.998203	1.71E-27	103.04	IGFGPS(0.001)PFS(0.998)LT(0.001	3	0.74149	59865.4	74954.4
Ank2	0.896033	0.0264376	47.082	EES(0.104)S(0.896)PRK	3	1.2964	9908.4	7876.8
Cdh15	0.989361	3.08E-09	73.138	S(0.011)KS(0.989)LLHGLQEDLR	3	0.88034	8049.8	8696.2
Nexn	0.802641	4.09E-11	94.717	AVS(0.015)QES(0.803)LT(0.182)PC	2	-0.50999	30601.8	58487.5
Cic	0.499918	0.000164079	59.198	AASEDMT(0.5)S(0.5)DEER	2	-0.64817	9696.2	8668.0
Cic	0.499918	0.000164079	59.198	AASEDMT(0.5)S(0.5)DEER	2	-0.64817	9696.2	8668.0
Mical3	1	0.0604335	55.908	RAS(1)PIVR	2	-3.1533	13445.1	13225.5
Osbp	0.994119	1.10E-05	100.88	S(0.006)LS(0.994)ELESK	3	-0.48719	4428.7	4254.6
Dtx3l	0.53136	7.27E-18	73.928	T(0.443)PS(0.531)LT(0.026)ESLDE,	2	0.68166	9695.9	9192.4
Rpp30	0.993119	1.69E-09	84.753	S(0.003)S(0.004)EAEDS(0.993)LP	2	-0.20401	6616.5	7108.4
Rbl2	0.592739	3.27E-06	61.962	S(0.001)HQNS(0.405)PT(0.593)ELI	2	-0.017144	2436.8	2297.8
Wnk2	0.70796	1.05E-22	66.075	GRPAAPAPAAPAAPPGS(0.708)PS(i	3	0.30673	4981.8	4711.7
LOC68372	0.62088	0.00368952	54.09	T(0.621)S(0.122)VNS(0.191)T(0.04	3	-0.39924	19373.9	24721.2
Nefm	1	4.01E-55	134.66	S(1)PVKS(1)PEAK	3	0.35518	448948.4	376000.5
Tra2b	0.961949	0.0185031	41.339	S(0.962)RS(0.084)KEDS(0.954)R	3	-0.19427	15460.7	14999.2
Foxs1	0.739199	3.75E-12	69.612	AT(0.261)S(0.739)PDQGAPNTTTG	2	-0.53905	3916.6	3824.8
Gprasp1	0.580278	2.47E-05	57.973	VES(0.021)T(0.08)S(0.317)GS(0.58	3	-2.7301	10543.6	8890.2
Hp1bp3	0.99931	4.80E-13	64.069	EAEQPKGEPES(0.999)GEKEES(0.00	4	0.68411	15382.0	13236.5
Psma3	0.999972	9.85E-11	67.646	ESLKEEDS(1)DDDNM	3	0.39055	147331.7	96038.2
Ahctf1	0.919925	1.79E-05	49.655	VAPENQLT(0.044)APS(0.92)PS(0.0	3	0.23765	6020.6	4689.0
Clint1	0.694992	4.47E-44	89.557	AS(0.181)PDQNAS(0.695)T(0.039)	3	0.2758	5204.5	6379.7
Pml	0.883383	1.30E-42	112.53	AIS(0.883)PPHPDGT(0.116)SSTEST	4	0.46358	21735.4	17615.4
Lmna	1	0.0033151	52.247	LQLELS(1)KVR	3	-0.24034	2498.8	2526.9

24233.4	18962.2	17892.3	18676.0	-0.3	0.1	232
10944.5	8254.4	9532.2	8621.7	-0.3	0.3	32849
1699.3	1198.0	1639.2	1554.0	-0.3	0.1	101;177
45375.0	37308.4	38081.1	40108.0	-0.3	0.0	1274
6833.3	5094.2	5513.5	4799.7	-0.3	0.2	324;326
22290.4	17347.5	16848.2	20805.0	-0.3	0.0	2292;963
32121.3	31556.7	28406.7	32412.0	-0.3	0.1	535
16985.3	13507.5	16137.6	7883.9	-0.3	0.3	16
26356.3	23641.4	20771.2	24398.0	-0.3	0.0	889
7475.0	5639.4	5944.7	4544.6	-0.3	0.3	1122
6936.9	4720.9	5605.6	5473.3	-0.3	0.1	972
53485.5	46952.9	48634.0	57637.0	-0.3	0.2	421;421
10149.6	6343.1	8315.1	8085.4	-0.3	0.1	3813
7928.5	6390.7	6758.4	6942.3	-0.3	0.0	637
57290.5	57263.9	32780.7	29287.0	-0.3	0.5	284
8394.6	7141.5	6851.1	7856.3	-0.3	0.0	1342
8394.6	7141.5	6851.1	7856.3	-0.3	0.0	1341
11029.7	9743.3	9621.5	11420.0	-0.3	0.1	1773
4843.4	3601.7	3523.9	3933.0	-0.3	0.0	115
10660.3	7864.7	7614.1	8679.0	-0.3	0.0	115
7190.5	6129.7	5784.4	5197.0	-0.3	0.0	257
2157.1	1859.5	1613.2	2169.9	-0.3	0.1	948
5220.6	3843.6	4226.1	4141.5	-0.3	0.0	107
17787.0	17003.2	17346.2	16338.0	-0.3	0.2	165
579516.6	363833.7	362035.2	426430.0	-0.3	0.3	502
18240.5	12902.5	11352.2	15705.0	-0.3	0.1	37
5397.4	3512.8	3456.0	3818.4	-0.3	0.2	138
8641.9	7372.6	8452.3	7239.0	-0.3	0.1	297
14646.3	10367.1	13897.7	11298.0	-0.3	0.1	102
139947.2	89008.7	135952.9	90234.0	-0.3	0.4	250
6773.9	4569.7	4034.5	5774.2	-0.3	0.3	1792
6801.4	6187.3	3957.0	4981.0	-0.3	0.2	320
21653.8	17723.7	15015.5	17461.0	-0.3	0.1	604
3118.3	1933.0	2434.8	2334.4	-0.3	0.1	107

Rapgef5	1	0.00108254	57.785	ALFHQFS(1)LK	3	-0.15374	2992.4	2775.7
Hnrnpul2	0.997464	2.47E-36	140.89	S(0.997)GDET(0.002)PGSEAPGDK	2	0.0030953	72524.5	67134.5
Mdn1	1	3.55E-71	105.05	DLQPQKEEEEEGEKS(1)DAEEQVPEA'	4	-0.45546	13793.3	13427.3
Ivns1abp	0.812067	4.65E-14	115.66	NS(0.996)PQS(0.812)S(0.13)PT(0.(	2	0.54498	37965.4	37131.7
Plekhg5	0.882265	2.62E-15	65.801	SEASLLQLLS(0.002)GT(0.002)T(0.0	3	1.7689	1675.7	1402.4
Pcdhac2	0.999414	5.22E-05	48.899	FIIPGS(0.999)PAIIS(0.001)IR	3	0.062191	902.0	782.2
Npm1	1	0.00672987	57.174	GQES(1)FKK	2	1.4179	84677.9	96392.5
Cgn	0.996463	0.00517258	85.764	S(0.002)QS(0.996)LDS(0.001)R	2	-1.1567	8289.7	11941.0
Tra2b	0.957003	0.0185031	49.715	S(0.043)KEDS(0.957)RR	2	-0.32774	19958.3	19213.6
Ppp4r2	0.645971	1.35E-53	130.01	GHS DSSASDS(0.004)EVS(0.646)S(C	3	0.32748	6377.9	5331.9
Ric8a	0.99904	3.34E-78	123.35	GLMAGGRPEGQYS(0.999)EDED(T(C	3	0.44675	17117.3	16143.3
Sgip1	0.759781	6.18E-09	50.752	YNS(0.004)PELDEEGY(0.195)S(0.7	3	0.32134	8987.4	8415.6
Hspa4	0.9795	1.26E-09	52.72	MQVDQEEPHT(0.98)EEQQPQT(0.(	3	-1.0241	5995.7	4983.4
Bsdc1	0.980487	3.66E-11	43.562	LLEAS(0.98)LEEQS(0.01)LAEDAGE'	5	0.73583	1443.6	1723.6
Plip	0.803818	2.96E-05	52.731	GVGS(0.001)NAAT(0.192)S(0.804)	2	2.4411	11820.0	15169.2
Brsk2	0.998761	0.00295838	99.973	GS(0.999)PLPT(0.001)PK	2	0.066514	28732.8	30256.2
Sugp2	0.994347	3.73E-58	105.52	AAPS(0.994)PDVT(0.005)VGASPV	4	0.64344	37361.9	43028.7
LOC10369	0.653842	3.53E-29	116.04	VPDRDSPS(0.01)HS(0.335)S(0.654	3	1.2012	15455.9	15428.1
Syt11	0.564295	0.000153223	47.621	GIS(0.001)IY(0.061)PET(0.373)LS(C	3	1.5203	2134.7	2158.0
Safb2	0.995328	0.0100313	48.981	S(0.002)S(0.002)KS(0.995)QDRK	3	0.72829	20285.1	19447.2
Srrm1	0.814158	2.58E-14	125.84	S(0.814)VS(0.19)GS(0.983)PEPT(0.	2	0.90099	44535.8	40660.4
LOC10369	1	3.42E-37	139.11	ERDKSVS(1)DDEAEEK	3	0.08499	230366.0	226918.8
Tenc1	0.999048	0.000953302	58.116	S(0.999)PVPT(0.001)TLPGLR	2	-0.69566	4792.4	4209.8
Nefm	0.855563	3.29E-235	222.71	EGS(0.144)S(0.856)EKDEGEQEEEG	4	-0.33512	219512.7	209269.4
Ank2	1	0.0456388	41.427	PQT(1)APEK	3	-0.2981	12438.5	10996.6
Serpinh1	0.801738	0.00360482	78.136	AT(0.023)T(0.175)AS(0.802)QAK	2	0.73428	26649.2	30959.3
R3hdm1	0.945704	1.01E-10	90.931	DNS(0.054)S(0.946)FDKDDSQMR	2	-0.42418	58458.0	57559.5
Dync1h1	0.976269	0.0290366	64.191	S(0.976)FDS(0.024)EFK	2	0.23134	15477.4	22333.2
Rtp4	0.751933	0.000338438	52.891	S(0.042)PS(0.121)PS(0.752)PS(0.0	3	-0.33352	35846.0	23884.2
Akap12	0.815281	0.00296251	76.847	LS(0.185)ADY(0.815)EK	2	-0.98276	22108.7	19758.7
Utrn	1	0.0010746	76.326	WS(1)ALVAEVK	2	-2.4057	14373.0	13974.7
Atp2b4	1	6.88E-05	63.091	VFHS(1)FRDVIHK	4	0.25375	4781.1	4582.5
Katnb1	0.982404	1.93E-09	94.007	RS(0.982)PS(0.012)S(0.006)EDDKI	3	-0.16791	28124.6	24770.5
Tra2b	0.967116	0.0144226	51.445	S(0.033)ARHT(0.967)PAR	3	0.418	1678.6	1888.4

2490.4	2147.8	2382.2	2273.3	-0.3	0.0	224
71048.9	55352.2	55664.6	62625.0	-0.3	0.0	159
13897.8	10127.3	11018.8	12765.0	-0.3	0.0	4809
37807.6	30198.3	29128.0	33882.0	-0.3	0.0	325
1341.6	1344.8	1120.7	1183.8	-0.3	0.1	921
515.3	540.9	661.4	616.4	-0.3	0.3	949
100381.9	68357.0	82582.7	82031.0	-0.3	0.1	225
9038.5	8517.5	8001.2	7752.3	-0.3	0.2	210
21978.5	16709.5	14783.6	19258.0	-0.3	0.1	43
7256.7	4709.3	6048.6	4984.5	-0.3	0.2	185
15401.1	12432.8	12814.1	15148.0	-0.3	0.0	435
8936.7	7570.5	7266.0	7058.7	-0.3	0.0	115
5988.4	4215.7	4899.2	4996.6	-0.3	0.1	531
1352.4	1347.2	1055.8	1356.5	-0.3	0.2	310
11223.5	9896.6	9810.7	12094.0	-0.3	0.2	175
28396.1	23201.4	22948.1	26619.0	-0.3	0.0	599
30757.5	29514.1	31154.2	31932.0	-0.3	0.2	187
14585.6	11737.7	13775.9	12425.0	-0.3	0.0	326
1895.0	2016.2	1462.5	1684.6	-0.3	0.1	70
17805.1	15029.8	16517.0	16482.0	-0.3	0.0	641
40989.8	33634.6	36086.0	35620.0	-0.3	0.0	686
236169.5	184881.2	181359.6	213340.0	-0.3	0.0	231
4502.3	3642.2	3574.6	4075.3	-0.3	0.0	980
256663.9	189721.0	163673.5	219760.0	-0.3	0.2	550
12086.9	9741.0	9227.8	10735.0	-0.3	0.0	1649
25722.8	20068.8	21881.6	27735.0	-0.3	0.2	90
54478.8	45555.9	49592.6	47430.0	-0.3	0.0	218
19928.0	14049.8	16540.5	17711.0	-0.3	0.2	4275
27560.4	23440.1	25763.9	23821.0	-0.3	0.3	183
30838.4	19031.5	17258.6	24535.0	-0.3	0.4	353
14907.1	11657.4	12118.4	12435.0	-0.3	0.0	2056
5465.8	4044.1	4171.6	4199.3	-0.3	0.0	1100
27235.7	19818.0	20741.3	26622.0	-0.3	0.1	360
1687.2	1311.9	1646.7	1447.6	-0.3	0.1	33

LOC68779	0.747353	9.12E-22	84.375	GALDS(0.181)S(0.747)S(0.067)PEV	2	2.0895	6602.6	5958.3
Add3	0.876359	2.42E-07	49.152	S(0.876)FT(0.105)S(0.019)VDVPVI	4	0.11547	5700.4	5961.4
LOC67908	0.998737	0.000175899	62.338	S(0.999)PLGFY(0.001)VHLR	3	-0.56595	1735.8	2018.8
Chd1	0.999299	3.87E-10	86.497	AASS(0.001)GPRS(0.999)PLDQR	2	0.033642	45171.5	39385.8
Prpf4b	1	0.000732416	87.258	DAS(1)PINR	2	0.033668	33938.9	35078.2
Rhoc	0.907126	1.54E-05	60.55	IS(0.907)AFGY(0.087)LECS(0.006)	3	0.28065	4840.5	5114.1
Snapc4	1	0.0125894	59.35	S(1)AEEIRK	3	0.79901	7287.9	6250.7
Syap1	1	0.0070357	70.816	T(1)PPVVIK	3	-1.7859	21434.8	17796.3
Myo18a	0.907394	5.55E-05	97.163	APS(0.093)DDGS(0.907)LK	2	0.13426	82551.3	71328.0
Pwp1	0.649646	9.53E-35	83.602	EKLQEEGGS(0.011)EEEEVGS(0.34)	3	1.4495	32644.8	39630.4
Ldb3	0.996312	0.00196985	57.175	FET(0.004)ERNS(0.996)PR	3	1.2487	5822.3	9711.1
LOC68779	0.804171	5.17E-42	110.36	S(0.16)DS(0.804)KGALDS(0.02)S(0	3	-1.1846	15240.1	14336.7
Szt2	0.686138	2.36E-06	49.662	AST(0.001)FPS(0.003)T(0.02)PVS(	4	0.079687	13697.9	17772.2
Ahnak	0.722839	1.07E-13	66.536	T(0.006)PS(0.006)FS(0.138)VS(0.7	4	-0.2213	3444.9	2835.4
Fndc3a	0.615701	0.000212969	43.164	IQALNS(0.003)LGAGPFS(0.382)HT	3	3.3032	1899.8	1595.0
Fam91a1	0.991144	5.13E-05	92.295	KLS(0.991)DAS(0.009)DER	2	-0.7537	30234.4	30346.1
Tmod3	0.999458	0.0176926	71.451	LLS(0.999)Y(0.001)LEK	2	-0.54961	9075.8	8577.0
Hnrnpul2	0.961844	6.68E-06	66.387	S(0.038)KS(0.962)PPPPEEEAK	3	0.5155	22250.6	20635.2
Ank3	1	3.34E-05	45.614	VALLLLDQGAS(1)PHAAAK	3	0.44165	1264.7	1189.6
Senp3	1	0.0276143	53.211	AGQHS(1)PLR	2	0.25615	13057.5	13448.2
Stat5b	1	0.00351817	47.894	AADGY(1)VKPQIK	3	0.45367	19752.0	21147.4
Prrc2a	0.985901	1.10E-82	166.93	S(0.986)EGS(0.014)EYEEIPKR	3	0.64391	177685.4	220216.6
Nfib	0.893571	4.71E-08	40.456	T(0.894)PPPPS(0.099)PLPFPT(0.00	5	-0.6228	655.6	298.3
Fry	0.980436	1.21E-15	64.845	ITNFEASLPDINNLIQIS(0.98)EGS(0.0	3	1.1431	2379.3	2100.7
Acin1	0.944026	0.0300452	52.193	IS(0.944)EDET(0.056)ER	2	-0.92939	19198.6	16770.7
LOC69008	0.751159	6.26E-20	65.197	QENS(0.002)S(0.008)NS(0.236)S(0	3	0.49122	4708.1	4588.9
Prpf40b	1	8.15E-13	72.932	QAELPNRS(1)PGFGIK	4	-0.35806	33447.5	33912.2
Ap3b1	0.999993	1.50E-73	145.2	NFYDS(1)DDEEKK	3	-0.57766	474495.6	447541.3
Srrm1	0.99996	0.00044136	89.047	S(1)PSHTRPR	3	-0.12657	5535.5	5033.4
Scrib	1	8.93E-75	96.055	LS(1)PDFVEELR	2	0.39903	25938.4	22836.7
Pgrmc2	0.635334	2.80E-30	91.317	LLKPGEEPS(0.003)EY(0.635)T(0.36	3	-0.67276	37177.0	38332.8
Ddx5	0.957855	0.0119361	43.958	T(0.042)GPLS(0.958)GKK	3	0.86514	18985.1	25790.7
Lum	0.562269	0.00634023	42.336	ILGPLS(0.562)Y(0.07)S(0.368)K	3	1.5761	651.8	873.2
Hint3	0.826891	6.51E-10	49.076	AGPEVSS(0.002)PGT(0.094)S(0.82	2	-1.5522	5385.1	4513.5

5642.4	5051.7	5044.1	5185.9	-0.3	0.0	42
5741.4	4341.7	5422.5	4854.9	-0.3	0.0	586
1655.0	1628.2	1576.1	1343.7	-0.3	0.1	279
44134.7	32154.0	39380.6	36667.0	-0.3	0.1	1678
33134.9	27684.9	28067.9	30189.0	-0.2	0.0	431
4668.2	4157.8	3664.1	4481.5	-0.2	0.0	152
9135.4	6177.4	5985.3	6915.1	-0.2	0.2	276
24086.5	16310.2	15627.8	21348.0	-0.2	0.3	257
65934.3	59051.3	62511.4	63450.0	-0.2	0.1	2002
29133.9	28749.6	27146.8	29463.0	-0.2	0.2	58
9049.9	7158.8	7488.7	6050.5	-0.2	0.4	261;353
11138.3	10330.4	11870.5	12087.0	-0.2	0.2	35
15998.4	13199.5	12693.4	14105.0	-0.2	0.1	2433
2657.7	2506.6	2493.6	2531.8	-0.2	0.1	4885
1158.0	1243.7	1405.1	1273.9	-0.2	0.3	886
30013.3	25800.7	24162.0	26463.0	-0.2	0.0	671
8281.3	6678.4	7131.1	8070.9	-0.2	0.0	71
23096.3	17733.6	18474.7	19492.0	-0.2	0.0	226
953.9	894.0	932.3	1052.1	-0.2	0.2	606;631
13238.8	10689.4	10552.1	12326.0	-0.2	0.0	301
22771.6	24983.4	14014.2	14807.0	-0.2	0.4	699
181766.3	153884.4	159623.3	176340.0	-0.2	0.1	1092
711.1	380.2	588.8	438.4	-0.2	0.6	359
2234.9	1831.0	1595.0	2250.9	-0.2	0.2	2587
18822.9	14763.7	14998.4	16563.0	-0.2	0.0	887;886
4218.4	3907.8	3427.2	4093.1	-0.2	0.0	114
32429.0	21207.2	30910.5	32275.0	-0.2	0.2	827
502415.2	383500.9	359320.8	462060.0	-0.2	0.1	276
6227.9	4134.2	4777.9	5299.5	-0.2	0.1	207
27628.5	19947.8	22117.7	22586.0	-0.2	0.1	1574;1546
41662.6	32709.5	30175.3	36330.0	-0.2	0.1	204
24841.3	17105.5	21258.5	20592.0	-0.2	0.2	30
848.2	633.8	771.8	604.4	-0.2	0.2	302
5490.7	4325.9	4339.4	4369.3	-0.2	0.1	32



Myo1c	0.968242	2.24E-22	90.385	DGIIDFT(0.005)S(0.027)GS(0.968)I	3	-0.12921	22567.9	28541.7
Map1b	0.999079	1.13E-12	60.419	AET(0.999)EEAEEPEEDGEDNVS(0.1	3	-1.5343	3857.2	3336.0
Nefl	0.991522	0.00686297	81.915	S(0.992)GYS(0.007)T(0.001)AR	2	-0.2767	15962.8	14246.7
Map3k4	0.999966	2.77E-52	125.23	ELESGTEES(1)DEERSPNPR	3	-0.18788	7530.0	7454.5
Bclaf1	0.876296	0.020609	72.275	KS(0.001)GS(0.123)S(0.876)PK	2	1.118	58453.2	54076.8
Bptf	1	0.0520473	54.539	S(1)PILEEK	2	0.62213	9881.0	9083.9
Lmo7	0.71971	1.21E-21	83.229	S(0.72)WAS(0.267)PVY(0.01)T(0.0	3	0.41637	3803.2	3204.3
Eef1d	0.998815	9.33E-12	62.231	VMLPNS(0.999)PET(0.001)LGQATI	3	-0.21693	9061.5	9784.8
Phf2	0.753128	4.15E-11	61.276	CKES(0.067)AS(0.18)PT(0.753)IPN	5	-0.68266	3049.9	2427.6
Pnn	1	2.06E-88	141.38	EAGVVHS(1)DAEKDQEEEEQKQETE	5	-0.8642	52159.5	51958.7
Ranbp2	0.600934	1.19E-42	85.004	EDALDDS(0.005)VS(0.089)S(0.104	4	0.51727	8889.6	9742.0
Bcl6	0.999733	0.0439346	57.59	SLAGS(1)PR	2	0.31978	1956.1	2123.6
Apoa4	0.642525	5.31E-27	82.885	QQLGS(0.017)DS(0.339)GDVES(0.1	3	3.2221	34080.8	26570.6
Prpf38a	1	0.00500894	57.225	S(1)KS(1)PGHHR	3	0.5392	27382.7	26729.6
Prpf38a	1	0.00500894	57.225	S(1)KS(1)PGHHR	3	0.5392	27382.7	26729.6
Rbm15b	0.623189	4.81E-08	54.225	ESGS(0.001)NS(0.021)LS(0.097)NS	4	0.59572	1923.3	2082.3
Phactr2	0.757875	6.03E-08	59.252	AS(0.01)S(0.169)S(0.758)PS(0.056	3	1.2723	3362.5	3116.9
Tra2b	0.994354	0.000692075	81.525	S(0.125)GS(0.881)AHGS(0.994)GK	3	1.0088	52344.3	47579.8
Nefm	1	0.00571184	71.176	GS(1)GQEEEEK	2	-0.49798	16098.8	14879.6
Hexim2	0.99747	1.92E-38	88.75	EIQS(0.997)EDEGT(0.003)APAGDC	3	-0.081616	4450.5	4412.8
Dennd5b	0.917923	0.000422629	64.615	RLS(0.918)IT(0.081)S(0.001)LTGK	3	-0.36176	11328.9	10465.8
LOC100361	0.854486	1.43E-07	61.015	S(0.854)RDS(0.146)GDENEPIQER	2	-0.27338	7223.9	7510.4
Nup160	0.92852	1.74E-30	70.264	LIRPEYAWIVQPAS(0.009)GAVS(0.0	6	-0.80009	3039.8	2736.1
Plk4	0.693373	0.0695737	42.336	PGT(0.079)T(0.079)S(0.149)S(0.69	2	-0.87381	19274.9	20525.5
Dpy19l1	0.602644	1.91E-33	135.15	S(0.397)S(0.603)PPPLNGASEVAAR	3	0.41445	10930.5	12749.4
H3f3c	0.896816	0.0160296	72.607	S(0.897)T(0.103)ELLIR	2	0.5953	7162.3	7143.2
Tbc1d17	0.643134	0.00104049	73.499	RGAEPS(0.643)S(0.357)PR	2	0.31634	1446.5	1289.5
Pml	0.888457	2.27E-53	126.26	AIS(0.072)PPHPDGT(0.888)S(0.03	3	0.72884	23556.6	22434.1
Stat5a	1	8.04E-06	72.2	AVDGY(1)VKPQIK	3	-0.43175	40095.5	43234.9
Nefl	1	8.23E-53	125.11	KEES(1)AGEEQAAKK	4	-0.4587	296667.1	268458.9
Wnk2	0.585513	8.74E-23	63.701	GRPAAPAPAAPAAPP GS(0.352)PS(i	5	0.56372	4761.3	5291.2
Ahctf1	0.615245	5.61E-13	139.32	S(0.361)AS(0.615)VEDT(0.024)QK	2	0.87925	21384.7	18846.1
Gtf2e2	1	0.00402415	66.568	KKPAS(1)QK	4	0.45319	38135.9	44320.8
Cdkn1b	0.681664	6.28E-24	57.834	QAVPS(0.011)JGS(0.252)QANS(0.€	4	0.024137	7529.4	8386.5

26868.4	20958.6	21782.2	23337.0	-0.2	0.1	1022
3840.8	2717.3	3204.5	3429.5	-0.2	0.1	941;815
14128.9	11020.5	13456.4	13101.0	-0.2	0.1	31
6776.6	6379.8	5849.6	6214.7	-0.2	0.0	345
46856.0	47160.8	46596.1	41358.0	-0.2	0.1	834
10010.3	7846.6	8153.0	8570.6	-0.2	0.0	224
4031.7	3397.7	2911.9	3052.4	-0.2	0.1	290;290
8549.2	7888.0	7599.2	7809.0	-0.2	0.0	422
2795.4	2542.4	2268.2	2226.4	-0.2	0.1	421
54513.9	41805.1	41726.3	51420.0	-0.2	0.1	346
9161.6	7711.6	7136.9	8804.7	-0.2	0.1	2125
1811.8	1869.6	1442.2	1703.3	-0.2	0.1	458
35304.6	28546.2	28107.5	25032.0	-0.2	0.2	338
27269.7	23979.1	20088.4	25218.0	-0.2	0.1	279
27269.7	23979.1	20088.4	25218.0	-0.2	0.1	281
2068.5	1827.6	1800.6	1544.5	-0.2	0.0	656
3228.7	2636.4	2551.9	3079.2	-0.2	0.1	172
50061.6	41139.6	42864.4	43735.0	-0.2	0.0	26
20540.1	12903.6	13032.1	17953.0	-0.2	0.3	750
4949.4	3385.8	4405.9	3976.5	-0.2	0.1	52
10785.9	8572.9	9176.1	10012.0	-0.2	0.0	1076
7536.7	6137.0	5714.5	7128.9	-0.2	0.1	415
2688.2	2217.1	2560.6	2436.2	-0.2	0.0	1100
16950.2	16793.1	15499.6	16081.0	-0.2	0.1	717
10599.8	9009.5	9346.3	10867.0	-0.2	0.1	23
7501.4	5836.9	5498.2	7258.3	-0.2	0.1	58;58
1273.4	1168.2	1172.2	1079.1	-0.2	0.0	111
26615.0	20366.9	19245.2	22316.0	-0.2	0.1	611
42483.5	50486.0	29016.9	27882.0	-0.2	0.5	694
327835.2	261064.4	229074.5	272110.0	-0.2	0.1	531
5393.3	4325.2	4615.2	4247.9	-0.2	0.0	109
20185.6	17563.1	16616.3	17414.0	-0.2	0.0	1894
39215.0	31113.5	34671.1	38175.0	-0.2	0.1	264
8146.1	6014.7	7450.6	7097.2	-0.2	0.1	125

Scn7a	0.582588	9.27E-48	140.28	EKT(0.002)VS(0.056)T(0.358)EAT(I	3	-0.24612	27722.6	31064.6
Sfpq	1	0.00664946	82.287	ANLS(1)LLR	2	0.43392	3506.8	4702.4
Arhgef10	0.672019	0.000288516	63.16	S(0.672)S(0.164)S(0.164)ELQDEDF	2	0.37055	14134.4	12203.2
Zbtb22	0.974823	2.21E-19	66.828	RESSAVGGGS(0.975)GDEANS(0.02	3	-0.17178	1106.7	1004.7
Ranbp2	0.96652	0.00660117	48.998	HS(0.002)T(0.02)PS(0.967)PT(0.01	3	0.86674	14829.8	14590.1
Rabl6	0.864203	0.000279149	47.57	ES(0.067)S(0.864)EEDKDS(0.069)K	3	-0.24491	45919.4	53352.8
Trip12	0.979973	0.00147157	55.66	AAS(0.98)KDT(0.018)IS(0.002)NNF	2	0.80816	15645.6	14641.6
Nefh	0.986964	2.77E-49	122.79	S(1)PAEVKS(0.941)PVT(0.987)VKS	4	-1.4053	549944.5	491176.5
Nipbl	0.999998	1.07E-117	155.55	NNPAADTEDEES(1)DGEDRGGGTS(	3	-0.35587	5059.6	6398.6
Mtdh	0.895586	2.91E-13	66.152	SQEPIS(0.104)NDQKDS(0.896)DDI	4	0.17353	19153.2	17971.9
Gtf3c4	0.5	6.29E-18	74.776	ADEPS(0.5)S(0.5)PAEEKDEGGGK	3	0.77474	13247.1	14561.5
Raly	0.991444	4.36E-17	145.31	STAIS(0.001)T(0.008)GS(0.991)AK	2	0.17664	44378.4	47483.2
Frmd8	0.958896	2.40E-07	113.99	S(0.959)S(0.028)VS(0.012)S(0.002	2	-2.1182	9716.9	6569.6
Larp1	0.984325	1.25E-32	111.09	S(0.016)DES(0.984)GEEKNGDEDC(	3	-0.87438	9655.6	9384.1
Wdfy3	0.95928	4.53E-07	54.281	DT(0.04)PS(0.959)QPSSTSHRPR	3	0.73173	4958.8	5303.4
Wasf2	0.843427	6.10E-22	72.935	T(0.002)S(0.002)MVS(0.15)PS(0.8	3	0.94475	8491.9	8074.8
Wbscr27	1	0.0135226	50.222	GRLS(1)IQPLIDH	3	-1.5001	1473.2	1547.7
Ninl	0.994644	1.58E-06	59.673	S(0.003)RQS(0.995)PS(0.001)GTP(	3	-1.5561	1482.6	1832.3
Cdk11b	1	0.000760153	75.652	HRS(1)HS(1)AEGGK	3	0.14224	114578.3	109369.0
Cdc42bpa	0.828479	5.28E-05	102.46	S(0.007)LS(0.116)LES(0.828)T(0.0	2	0.82774	16844.2	14235.8
Ccny	0.827497	2.83E-58	118.36	YS(0.169)S(0.827)CS(0.003)TIFLDC	4	0.82146	142978.4	144902.4
LOC10255	0.947188	2.62E-26	113.28	RNS(0.947)S(0.039)S(0.011)S(0.00	3	-0.5059	2331.6	1946.0
Capg	0.993439	1.09E-05	80.318	TTS(0.006)T(0.993)PAAIR	2	-0.20282	33917.4	31476.0
Hsp90ab1	1	5.29E-16	122.97	EREKEIS(1)DDEAEEEEK	3	-0.58581	79048.4	73939.7
Nhs1	0.999666	0.000302789	78.964	KDS(1)EDDTHR	3	-0.59616	18014.2	16582.1
H2afv	1	0.058599	53.756	AGKDS(1)GK	2	0.94699	6940.9	6027.2
Efnb1	0.965928	3.85E-10	81.904	AAALS(0.966)LS(0.033)T(0.001)LA	3	-0.067779	3572.2	3070.4
Trmt10a	0.999398	2.57E-22	62.213	DDPGS(0.999)PHKEQQGQSSSVS.	4	1.5973	8811.5	8329.3
Akap12	0.703054	1.34E-29	145.02	RPS(0.297)ES(0.703)DKEEELEK	4	-0.23309	140378.4	108819.4
Rpl8	1	0.0593264	52.591	GAGS(1)VFR	2	-0.26234	8708.8	9205.2
Pkp4	0.842914	8.84E-06	122.7	S(0.13)PS(0.843)IDS(0.027)IQK	3	-0.22002	29152.7	29860.2
Kif1b	1	1.41E-12	70.784	GDS(1)LILEHQWELEK	3	1.3912	14139.2	13567.7
Wac	0.711862	3.26E-07	42.669	S(0.712)PS(0.24)PGPNHT(0.042)C	4	0.74902	10032.3	7852.8
Pnir	0.842441	0.0190586	43.083	S(0.145)GS(0.842)IS(0.012)VK	3	-0.12684	2107.7	2974.8

32032.9	27098.6	25938.1	24624.0	-0.2	0.0	776
5018.4	2744.7	4139.5	4429.6	-0.2	0.4	275
14422.7	10416.8	11420.6	13033.0	-0.2	0.1	1212
1013.2	1044.1	723.8	906.5	-0.2	0.2	600
13470.9	12280.0	11477.2	12958.0	-0.2	0.0	781
37445.6	37207.2	33480.6	46370.0	-0.2	0.3	518
13672.1	12121.6	13206.3	12318.0	-0.2	0.0	1111
677878.8	479560.4	446212.3	546550.0	-0.2	0.3	661;631
5228.6	4119.1	4948.9	5225.6	-0.2	0.2	2446
21440.8	15155.2	16338.5	18674.0	-0.2	0.1	425
13174.9	11468.2	10698.2	12948.0	-0.2	0.1	18
46275.7	37284.2	40400.1	40677.0	-0.2	0.0	161
10722.0	6320.5	9130.1	7692.7	-0.2	0.4	20
9189.2	8051.8	7690.4	8448.2	-0.2	0.0	93
5385.3	3891.9	4829.9	4687.3	-0.2	0.1	3285
8170.8	6610.2	7180.3	7419.6	-0.2	0.0	298
1897.0	1137.1	1994.6	1085.6	-0.2	0.5	246
1581.6	1477.9	1403.3	1318.4	-0.2	0.1	312
107496.9	91920.3	91123.3	101250.0	-0.2	0.0	81
17483.6	12967.4	13638.0	15066.0	-0.2	0.1	1724
122550.9	112690.9	125864.9	113690.0	-0.2	0.1	100
2519.7	2024.3	1890.0	1919.8	-0.2	0.1	157
29549.1	26707.0	28419.5	26368.0	-0.2	0.0	133
81931.7	65672.0	62698.4	73297.0	-0.2	0.0	226
15181.8	13529.5	14186.2	15022.0	-0.2	0.1	1349
6179.9	5354.6	5290.0	5806.9	-0.2	0.1	10
3431.6	2766.1	2984.7	2907.2	-0.2	0.0	280
8531.6	7267.3	7337.8	7471.2	-0.2	0.0	314
161602.0	103170.7	135087.3	115090.0	-0.2	0.3	616
7337.3	7334.4	6343.3	8048.3	-0.2	0.2	14
31781.7	24914.1	24494.4	28735.0	-0.2	0.1	511;517
14141.6	11667.3	11125.7	13228.0	-0.2	0.0	1429
6834.6	6106.1	7418.2	7756.5	-0.2	0.3	523
2254.7	2203.2	1955.8	2158.6	-0.2	0.3	726

Snx2	0.992853	7.03E-08	59.728	AVNT(0.007)QALS(0.993)GAGILR	3	-0.76891	1306.2	1451.8
Zbtb20	0.764635	4.74E-42	93.21	NES(0.224)EECT(0.765)EDT(0.011)	3	-0.28502	4897.7	4303.6
Kdm2b	1	0.000672524	60.255	RKS(1)DDVHLR	4	0.32255	7477.0	7878.8
RGD13071	0.605021	0.000430275	46.121	VVFENEQDS(0.605)NS(0.354)LT(0	2	-0.56377	15958.1	16392.3
Tp53bp1	0.63505	7.14E-05	50.957	DAAAS(0.001)EDS(0.635)AS(0.175	2	0.65146	2714.1	2455.7
Rab6a	1	0.00057457	47.712	LVFLGEQS(1)VGK	3	2.0387	2504.0	2794.6
Srsf9	0.985557	0.000253435	47.774	GS(0.986)PHY(0.122)FS(0.892)PFR	3	1.1305	31648.9	25453.9
Mesdc2	1	0.0707547	51.064	AS(1)KEDNR	2	-0.15042	9070.7	7945.0
Arhgap31	0.991438	5.40E-08	59.502	SVFTS(0.002)S(0.006)LFQMEPS(0.	3	0.20814	3350.0	3587.4
Sgsm1	0.778872	5.67E-22	91.378	RHS(0.779)S(0.111)GS(0.111)MDC	3	0.30676	12384.8	11309.2
Brsk2	0.538112	2.02E-14	69.133	SISGASS(0.001)GLS(0.014)T(0.013	3	-0.62164	4949.0	5014.8
Kif21b	0.604001	2.90E-07	57.973	LWNY(0.396)VPGLT(0.604)PCLPR	3	0.16039	2308.3	2644.6
Sipa1	0.987099	1.34E-07	56.424	AHS(0.987)HEDT(0.01)S(0.003)RP,	4	-0.82644	2908.9	3193.7
Dopey2	0.577407	1.65E-26	108.71	S(0.577)S(0.121)ES(0.301)LS(0.01	4	-0.0044499	8849.3	10438.0
Ddx5	1	2.68E-13	103.79	LLQLVEDRGS(1)GR	3	0.93657	10507.4	13250.7
Trhr	0.880326	0.00582219	60.102	NDS(0.12)T(0.88)HQNK	3	-0.5292	12390.7	8387.8
Snd1	1	3.89E-14	75.018	ANNPEQNRLS(1)ECEEQAK	3	0.30701	9937.8	7778.0
Srsf9	0.992282	0.000947533	43.37	GS(0.916)PHY(0.076)FS(0.992)PFR	2	1.5967	29645.2	23455.3
Osbp	0.897332	2.93E-05	110.39	S(0.001)LS(0.102)ELES(0.897)LK	2	-0.28827	25430.3	24521.5
RGD13051	0.922524	4.52E-05	51.876	RADS(0.923)ES(0.077)EEDEQESEE'	3	0.35065	1856.0	1897.1
Kank1	0.642624	0.00293442	99.864	AQS(0.275)PS(0.643)T(0.083)PR	2	0.38149	6944.6	8060.1
RGD15611	0.995124	0.0365554	49.466	S(0.995)PQS(0.004)PAS(0.001)K	2	-1.4102	5543.3	4823.2
Bod11	0.561711	3.05E-19	64.015	KDS(0.186)T(0.186)EALS(0.066)GC	3	0.59226	9197.5	7747.0
Lrch1	0.832506	2.68E-21	73.831	EDS(0.003)PS(0.01)GS(0.155)PT(0	3	0.80184	6582.8	5746.1
Ap3d1	0.641532	8.40E-20	57.347	GEDLDFWLS(0.207)T(0.642)T(0.07	5	-1.474	20967.3	22431.9
Ncor2	0.753792	5.26E-05	73.632	GS(0.754)PHS(0.246)EGGKR	3	0.43169	11711.3	9571.9
Rb1cc1	0.912616	0.00135815	43.696	VSTSQAS(0.004)PQS(0.082)AAS(0.	2	-0.60931	1778.9	1296.3
Phax	0.999966	1.01E-13	67.11	CHS(1)PPPKPEPFPGQSGQK	4	0.1982	19849.8	11516.5
Ccdc30	1	0.0610992	40.352	DCPRRS(1)R	2	-0.88279	4390.6	5377.3
Ank2	0.775553	3.34E-59	121.94	LSWGTENLDNVALS(0.034)S(0.188	3	0.65164	5963.0	6316.3
Utp15	0.959545	2.52E-10	64.454	T(0.036)ES(0.96)PRQPS(0.003)DT(	3	-1.4789	9949.3	7241.0
Brsk2	1	0.00456914	62.463	GT(1)PVHT(1)PK	3	0.26673	57285.6	52152.8
Map1b	0.872343	9.21E-07	42.185	S(0.005)LMS(0.03)S(0.093)PEDLT(	4	-0.48668	13170.8	13123.5
Rapgef2	0.760366	0.000165084	45.347	ILDFS(0.047)T(0.193)T(0.76)PDLPI	3	0.77558	2475.6	3865.4

1238.3	1281.2	1077.7	1082.0	-0.2	0.1	277
5578.4	3908.8	4132.1	4688.4	-0.2	0.2	284
6698.1	6872.4	6436.2	5688.0	-0.2	0.1	764
15898.3	13705.5	13212.7	14649.0	-0.2	0.0	2753
2080.3	2009.8	2263.5	1972.8	-0.2	0.2	1063
2573.5	1915.7	2555.1	2313.3	-0.2	0.2	23;23
27651.9	26345.1	21227.5	25489.0	-0.2	0.2	211
8287.5	6723.6	8057.7	7033.2	-0.2	0.1	211
3467.5	2870.6	3170.3	2932.4	-0.2	0.0	467
11777.1	9133.6	10957.9	10524.0	-0.2	0.1	229
3679.2	3804.0	3956.2	4017.6	-0.2	0.2	464
2147.2	1816.9	2218.6	2096.7	-0.2	0.2	1603
3048.2	2450.2	2859.7	2595.5	-0.2	0.0	72
8954.6	8009.4	8054.7	8341.6	-0.2	0.1	708
13210.1	8580.3	12240.2	11126.0	-0.2	0.3	480
10526.2	8800.3	10392.6	7863.1	-0.2	0.4	239
8707.5	6769.5	9004.2	7070.2	-0.2	0.3	149
25484.3	25091.2	19219.6	23638.0	-0.2	0.2	216
25632.3	19847.7	21736.2	23773.0	-0.2	0.0	119
1745.9	1533.7	1429.6	1792.4	-0.2	0.1	15
7678.7	6134.8	6493.4	6991.9	-0.2	0.1	1286
5690.5	4458.4	4587.5	4843.4	-0.2	0.1	900
9253.7	7500.2	6682.9	8479.1	-0.2	0.2	2696
5930.6	4750.0	5130.2	5916.3	-0.2	0.1	519
21829.4	17982.1	18906.4	19547.0	-0.2	0.0	869
13124.9	9978.1	8852.8	10943.0	-0.2	0.3	2153
1619.2	1237.8	1397.7	1426.7	-0.2	0.2	652
11320.3	14952.9	11230.4	10757.0	-0.2	0.6	79
4188.2	3956.8	4006.9	4113.9	-0.2	0.2	16
6070.9	5595.6	5310.5	4977.4	-0.2	0.0	935
10661.3	7257.5	9049.7	7802.4	-0.2	0.3	517
48120.8	42371.5	45217.5	48824.0	-0.2	0.1	611
10559.8	9950.9	10506.6	11451.0	-0.2	0.2	830;704
3255.0	2590.8	2812.8	2905.1	-0.2	0.4	408;757



Bcas3	0.999245	2.46E-06	48.832	SVT(0.001)LLEVCGS(0.999)WPEGF	3	-0.59133	3703.3	3912.7
Ttbk2	1	0.000725014	40.187	LPGS(1)LGHPRPQEK	4	2.4247	1059.5	1295.3
Wdr13	0.858642	2.25E-08	97.276	YGPLS(0.859)EPGS(0.141)AR	2	-0.80789	11093.2	10492.1
Snx1	0.991943	0.000652109	52.5	RFS(0.992)DFLGLY(0.008)EK	3	-1.1181	7297.4	6356.7
Map1a	0.99991	0.00287983	72.325	HS(1)PGVSK	3	0.3314	27617.7	27277.0
Dctn2	0.993734	2.46E-05	50.831	WS(0.994)PVAS(0.003)T(0.003)LP	3	-0.44392	3501.5	3057.4
LOC10255	0.999662	7.05E-12	103.13	FEPES(1)PGFESR	2	0.57352	17669.5	18802.2
Eif2b2	0.5	0.0032367	64.82	RS(0.5)S(0.5)EDMAR	3	0.049959	4261.8	6888.2
Adra2a	0.761128	7.86E-53	128.09	RGPGAAGPGAS(0.761)GS(0.239)G	3	-0.87053	15272.3	14278.5
Hic1	0.998267	5.25E-05	57.788	RCS(0.998)PLCGLDLS(0.002)K	3	-0.28515	9523.8	9330.2
Zc3hc1	0.783837	5.15E-25	71.67	SQDAAVS(0.008)PS(0.026)S(0.021	3	-0.16079	22614.4	21223.1
Nefm	1	3.50E-16	110.04	S(1)PVEEVKPKPEAK	3	-0.17384	1512198.3	1284487.3
Sec16a	0.998074	9.66E-05	82.954	SIHS(0.002)EHS(0.998)AR	3	0.88356	2215.0	3196.2
Zfp800	0.508414	0.00433541	47.606	ANAT(0.154)T(0.508)S(0.337)PEGI	2	1.0378	4627.7	3746.6
Arhgap23	0.820083	2.04E-18	60.649	HVPASAVVS(0.001)S(0.001)AMNS	4	1.0016	7829.9	9215.9
Prkaca	0.597884	8.58E-83	134.87	GPGDTSNFDDY(0.598)EEEEIRVS(0	4	0.48357	13051.5	11806.1
Bod111	0.875628	2.78E-12	59.975	GSDDVLLS(0.876)GAVPEYEVGHM!	4	-0.30397	2182.7	2310.7
Prkdc	0.999666	2.38E-08	57.985	EGS(1)EPKEDAHHILQSCR	4	-0.41923	12388.4	12252.5
Chchd2	0.965381	0.00159712	55.467	T(0.017)S(0.017)RVT(0.965)PPASF	3	-0.16681	6250.4	6443.6
Tubb3	0.964133	7.11E-05	52.527	IMNT(0.032)FS(0.964)VVPS(0.004	3	-0.85873	4488.1	5402.3
Phrf1	0.999298	3.43E-13	102.65	GRDGS(0.999)PHS(0.001)SLER	3	-1.0584	3053.9	3119.3
Pag1	0.941176	0.000153108	42.639	QHS(0.048)GDHES(0.941)LMNVPS	4	0.79963	10558.0	10252.6
Drp2	0.999473	2.82E-24	80.786	DFGPGS(0.999)QHFLSTSVQVPWEI	3	2.2376	3892.1	4321.0
Mtmr2	0.747377	4.03E-21	102.3	S(0.103)S(0.15)S(0.747)CESLGAQL	3	0.76728	57583.8	63576.1
Sgk1	0.964585	1.13E-05	61.409	S(0.965)PDS(0.035)JLVTVASVK	3	-0.34646	2439.4	2516.1
Cic	0.785347	5.42E-70	117.08	LNPGPSS(0.002)HAGS(0.785)PGT(	4	-0.42002	32434.9	28962.9
Ccdc91	0.982738	0.00145632	44.391	LS(0.017)PAS(0.983)PELILDHDR	2	0.36482	5224.3	6124.6
Tcea3	0.949802	0.00159993	61.344	T(0.95)RRDS(0.05)VDSR	3	-0.12414	2043.4	1951.6
Herc1	0.990341	0.00265247	53.237	LVHAS(0.99)PS(0.01)YR	3	-0.76283	1509.1	1936.6
Lmna	0.977272	3.63E-14	82.482	S(0.977)GAQAS(0.002)S(0.003)T(C	2	0.75113	20152.7	20925.8
Clmn	0.999929	0.00175148	84.817	GPSPPS(1)PR	2	-1.1277	51640.6	42974.9
Add2	0.99847	3.51E-14	110.8	VTMILQS(0.998)PS(0.002)FR	2	-1.4581	11789.0	11303.7
C2cd5	0.992879	0.000249603	73.219	TGMGS(0.007)GS(0.993)AGK	2	0.7258	16272.9	15006.9
Ncbp3	0.999937	0.00441888	74.173	RPYS(1)PEK	3	0.13311	72746.3	78168.3

3348.7	2887.5	3466.3	3140.4	-0.2	0.1	838
1182.6	950.6	1195.7	916.9	-0.2	0.2	302
10672.0	9023.5	9474.2	9436.5	-0.2	0.0	70
6261.6	5761.1	5621.7	5867.9	-0.2	0.1	140
34665.8	24322.3	22052.5	31221.0	-0.2	0.3	1267
3110.0	2797.0	2673.3	2909.8	-0.2	0.1	321
18837.8	17579.6	15811.7	14569.0	-0.2	0.1	82
5491.6	5719.7	4263.5	4457.4	-0.2	0.5	30
15012.5	12793.6	12709.4	13168.0	-0.2	0.0	360
9335.3	7794.3	7759.0	8915.6	-0.2	0.0	190
22271.2	20546.1	20531.9	16309.0	-0.2	0.1	340
1690757.9	1235364.7	1163860.1	1496800.0	-0.2	0.3	608
2065.4	1933.2	2083.2	2475.0	-0.2	0.4	1356
3639.8	3308.6	3235.9	3886.6	-0.2	0.2	646
9285.5	7470.8	6874.3	8517.3	-0.2	0.2	378
12879.0	10993.8	10619.2	11171.0	-0.2	0.0	323
1957.7	1942.7	1694.2	1968.0	-0.2	0.1	1996
10228.8	9771.7	10633.9	9894.0	-0.2	0.1	3219
6220.3	5416.9	5719.9	5300.6	-0.2	0.0	13
4777.7	3773.9	4246.3	4728.5	-0.2	0.2	168;168;168;168
2582.9	2479.3	2418.2	2713.4	-0.2	0.1	923
9968.0	9029.8	8446.0	9284.9	-0.2	0.0	57
4141.9	3770.2	3636.6	3335.3	-0.2	0.0	268
57441.7	50822.5	51105.8	53388.0	-0.2	0.0	6
2791.3	2030.7	2133.3	2573.5	-0.2	0.2	387
35637.8	25831.5	28929.3	29636.0	-0.2	0.1	307
6052.6	4677.4	5859.7	4598.3	-0.2	0.2	16
1926.0	1667.5	1768.8	1714.1	-0.2	0.0	126
1443.7	1225.0	1538.7	1489.8	-0.2	0.3	1502
18276.7	17257.3	17707.4	16694.0	-0.2	0.0	12
57483.2	37516.3	51506.5	43369.0	-0.2	0.3	591
11530.1	9498.3	9844.5	10795.0	-0.2	0.0	60
15369.2	12077.6	13243.7	15287.0	-0.2	0.1	323
67593.1	62734.0	63600.3	63890.0	-0.2	0.0	495

Zc3hc1	0.60009	3.91E-10	48.255	S(0.001)QDAAVS(0.115)PS(0.6)S(C	3	0.33825	9899.6	10199.3
Dbn1	0.5	0.0140147	40.724	LS(0.5)S(0.5)PVLHR	3	-0.27011	329.3	459.1
Rell2	0.502081	7.23E-39	83.585	T(0.249)S(0.249)RGS(0.502)EPDD/	3	-1.7531	7167.0	8186.9
Gmpr2	0.830433	0.000220421	72.497	S(0.83)RS(0.169)EVDLTR	3	0.12789	38219.4	28455.1
Kmt2a	0.739863	6.98E-07	42.057	ES(0.026)GPGS(0.74)PAHMES(0.2:	3	0.2457	2244.3	2039.3
Kif26b	0.980465	2.23E-05	51.135	LIPALS(0.98)LDT(0.019)PSPVR	3	0.005829	1705.5	2271.7
LOC100911	0.991291	0.00202237	83.775	SNVVS(0.991)PT(0.009)R	2	0.6448	9259.5	7628.6
Srsf9	0.999996	1.59E-05	102.28	GRDS(1)PYQSR	3	0.79563	7966.1	8583.9
Srrm2	0.563646	4.62E-05	40.533	DGS(0.038)GT(0.39)PS(0.564)RHS	3	0.6389	10539.1	9635.3
Srrm2	0.583686	4.62E-05	40.533	DGS(0.038)GT(0.39)PS(0.564)RHS	3	0.6389	10539.1	9635.3
Psip1	0.999007	9.58E-18	74.029	EDTDQEEKAS(0.999)NEDVT(0.001	4	-0.14516	16850.2	17900.6
Snph	1	1.21E-128	203.53	EEGTGESAGGS(1)PAR	2	-0.26654	33564.4	34671.3
Map1b	0.59319	1.07E-76	111.3	TLEVVS(0.001)PS(0.009)QS(0.079)	3	0.41536	20927.9	22596.4
Map1b	0.58931	1.07E-76	111.3	TLEVVS(0.001)PS(0.009)QS(0.079)	3	0.41536	20927.9	22596.4
Map1b	0.604533	4.82E-48	86.946	TLEVVS(0.001)PS(0.009)QS(0.079)	3	0.41536	20927.9	22596.4
Cep170	0.588554	4.20E-08	58.885	HDDGT(0.004)QS(0.407)DS(0.589)	3	0.03456	2565.1	2590.7
Rere	1	0.00108954	49.298	KKQPAS(1)PDGR	4	0.57146	6178.4	6824.0
Matr3	0.850636	1.60E-10	64.454	S(0.851)Y(0.003)S(0.147)PDGKESF	5	-1.2904	9375.9	8263.6
Serbp1	0.622975	1.85E-18	69.98	S(0.623)KS(0.153)EEAHAEDS(0.22	5	-1.0495	19124.6	15793.4
Ccar1	0.536984	0.000930863	58.172	EIAT(0.427)PT(0.537)HWS(0.036)†	3	-0.40096	7667.1	7905.7
Ehbp1	0.964134	5.62E-36	103.58	DLS(0.004)T(0.032)S(0.964)PK	2	0.74185	42695.5	46020.0
Xrcc5	0.765473	1.10E-19	64.589	NGEPGET(0.001)EDHDS(0.229)S(0	5	0.27183	8399.6	14064.6
Ndufb10	0.778366	5.81E-09	53.998	T(0.199)PAPS(0.778)PQT(0.017)S(	3	1.0813	3872.5	3593.8
Gys1	0.983721	1.54E-37	145.91	HS(0.016)S(0.984)PHQS(1)EDEEEP	2	0.28005	67423.4	71907.2
Cnpy4	0.999999	1.32E-11	62.739	S(1)REVLELGQVLDTGKR	3	1.9585	6590.7	5838.1
Nefm	0.806149	0.0403084	47.894	VT(0.194)S(0.806)HAIVK	2	-1.3256	13311.5	14015.3
Gpatch8	0.964787	5.65E-24	99.407	QEPGGSHAS(0.965)ET(0.035)EDT(C	2	0.13859	16828.7	16935.3
Ccdc50	0.915951	0.0133504	40.377	S(0.916)KEGDET(0.084)QR	3	-0.48628	8923.3	7055.5
Nop56	0.999988	3.00E-42	108.37	EELAS(1)DLEEMATSSISVPK	3	0.35541	60288.8	60691.2
Cntrl	0.772092	4.97E-06	91.313	IHS(0.772)PS(0.228)DVLGK	3	-0.51679	3793.2	4008.6
Hddc2	0.877401	2.45E-06	62.088	NASMAT(0.014)T(0.082)PS(0.877)	2	-1.2043	8724.8	8922.7
Rpl23a	0.637244	0.00749437	68.525	IRT(0.266)S(0.637)PT(0.097)FR	2	-0.6348	14986.0	16222.3
LOC68482	0.656107	0.000544428	59.227	KAS(0.344)S(0.656)GEAKPK	4	0.34379	92241.8	77220.6
Kcnh7	0.999405	4.01E-17	94.845	RLS(0.999)FES(0.001)EGDKDFSK	4	-1.6349	26383.3	26379.7

10195.4	8800.3	9687.7	7886.5	-0.2	0.1	336
364.1	229.2	389.4	384.9	-0.2	0.5	141;141;137
7994.8	6639.5	7020.8	6677.7	-0.2	0.0	52
24470.8	25674.2	28719.8	25014.0	-0.2	0.4	26
1879.6	1600.0	1581.6	2189.1	-0.2	0.3	2503
1761.2	1659.0	1617.5	1724.5	-0.2	0.2	1963
8882.8	7524.3	6899.2	8043.6	-0.2	0.1	644
8647.3	6998.6	6925.7	8044.5	-0.2	0.1	204
9935.7	8827.7	8962.9	8464.5	-0.2	0.0	1414
9935.7	8827.7	8962.9	8464.5	-0.2	0.0	1419
18039.3	14006.9	14387.2	17645.0	-0.2	0.1	129
32768.6	27468.2	28655.7	31964.0	-0.2	0.0	204
22310.6	17912.8	19029.3	20482.0	-0.2	0.0	1323;1197
22310.6	17912.8	19029.3	20482.0	-0.2	0.0	1321;1195
22310.6	17912.8	19029.3	20482.0	-0.2	0.0	1327;1201
2528.8	2396.8	1775.1	2531.3	-0.2	0.2	380
6923.9	5853.7	5663.3	5867.5	-0.2	0.0	326
7719.5	7484.0	7703.9	6937.0	-0.2	0.1	596
18307.6	14638.3	16340.6	15464.0	-0.2	0.1	327
7538.1	6359.2	6355.2	7452.4	-0.2	0.1	434
43790.9	35711.3	38955.3	41009.0	-0.2	0.0	408;408
10350.8	11699.2	8470.8	8483.0	-0.2	0.5	184
3707.3	2885.6	3415.1	3458.0	-0.2	0.1	21
70622.0	59270.2	57215.2	66949.0	-0.2	0.1	653
6077.9	5649.7	5577.3	4945.2	-0.2	0.1	64
14417.4	11611.2	12196.4	12674.0	-0.2	0.0	834
17419.7	15247.6	13288.6	16196.0	-0.2	0.1	434
9915.1	6773.2	8572.6	7285.1	-0.2	0.3	248
64422.6	52270.1	56259.8	53521.0	-0.2	0.0	517
4030.3	2972.1	3594.3	3775.9	-0.2	0.1	279
8967.9	6979.1	8503.3	7788.1	-0.2	0.1	195
14102.2	13430.5	13478.8	12708.0	-0.2	0.0	43
74297.1	73417.9	65148.8	74570.0	-0.2	0.2	114
27124.9	21612.0	21466.9	26775.0	-0.2	0.1	891

Ivns1abp	0.99559	4.65E-14	115.66	NS(0.996)PQS(0.812)S(0.13)PT(0.0	2	0.54498	97409.7	96882.8
Rbm12	0.999866	1.61E-07	70.889	S(1)PHEAGFCVYLK	3	0.59162	9432.4	8298.8
Aldoc	0.999971	1.25E-30	126.4	RLS(1)QIGVENTEENRR	3	1.0666	22566.7	20970.8
Srsf2	0.99988	0.000225777	67.997	S(1)RS(0.999)PPPVS(0.001)K	3	-0.69101	69214.8	65648.2
L1cam	0.99991	2.66E-20	153.54	SLES(1)DNEEK	2	-2.9397	89523.7	72476.5
Rfc1	0.536575	2.86E-12	96.208	KDSEEGES(0.537)FS(0.463)PAK	3	-2.4292	124718.5	111534.3
Foxk1	0.998569	1.01E-13	71.651	EEAPAS(0.999)PLRPLY(0.001)PQIS	4	-0.67148	15048.0	14695.4
Dst	0.677702	3.10E-10	91.076	T(0.002)S(0.002)S(0.095)S(0.678)S	2	0.080692	13358.0	15108.9
Tbc1d23	0.9474	8.22E-71	166.21	GS(0.024)IS(0.947)S(0.029)VDGES	3	1.0065	5393.1	4725.8
Vps54	0.544954	2.52E-23	68.353	NT(0.545)S(0.416)PHS(0.037)EPCS	4	-0.20527	3528.4	3441.6
Nicn1	0.895611	0.0342019	50.452	S(0.896)PS(0.104)LAFPK	2	1.2212	7168.4	7287.0
Frmd4b	0.521123	4.59E-58	100.66	S(0.521)GS(0.471)LES(0.005)QS(0.	5	-0.40878	2991.6	2946.1
Map1b	0.524658	1.01E-25	70.57	S(0.463)S(0.525)HLPT(0.01)EVT(0.	4	1.9083	14767.8	13135.6
Cd2ap	0.655303	3.49E-05	111.86	TSS(0.292)S(0.655)ET(0.052)EEK	2	-0.096771	3987.0	2954.0
Nefm	0.892367	6.06E-05	98.407	QPSVT(0.001)IS(0.107)S(0.892)K	2	0.76786	31796.8	30268.3
LOC50006	0.976984	7.26E-16	63.488	AAS(0.001)PPS(0.001)Y(0.001)T(0.	3	-0.73434	3922.4	3988.3
Ubqln1	0.777906	8.41E-13	41.889	MY(0.001)T(0.001)DIQEPMLNAAC	4	0.58854	6256.4	6444.0
Map2	0.991699	8.59E-38	86.08	DGS(0.995)PDAPAT(0.992)PEKEEV	4	0.38405	69478.3	64178.3
Camk2d	0.5	0.0201391	44.863	ANVVT(0.5)S(0.5)PK	3	-0.20244	6170.9	5392.8
Ppapdc2	1	4.62E-36	76.086	RGS(1)FPLAAACPAQVAPAPPEDA	4	-1.761	25288.4	28123.8
Slc25a5	0.997752	0.000297945	48.527	Y(0.002)FPT(0.998)QALNFAFK	3	0.34483	1877.5	1790.8
Pacs1	0.703631	1.23E-45	71.661	VGLVEDSPSTAGDGDDS(0.003)PVV	4	2.4086	6097.7	7257.1
Abhd12	0.96836	1.05E-10	46.065	CAASGSSS(0.001)S(0.003)GS(0.02	3	3.08	8346.0	8865.3
Dact3	0.999991	0.000301998	74.392	AFSFPVS(1)PER	2	0.41352	9745.4	10478.7
Srsf2	0.999965	0.000121976	84.352	S(1)PPPVSK	2	0.073066	196124.2	182757.0
Tsc2	0.999524	2.37E-06	82.515	TDIGRLS(1)PEAK	3	0.18301	29929.1	28864.2
Map1b	0.914978	2.03E-19	65.118	AETEEAEEPEEDGEDNVS(0.915)GS	3	1.7553	5331.6	5282.6
Phf20l1	1	8.98E-07	70.089	S(1)PLAPELIQAK	3	0.7418	4197.0	4134.6
Fkbp15	0.858927	7.88E-21	106.35	SSSVS(0.001)EPLT(0.859)S(0.138)F	2	-0.6887	28471.6	27275.9
Prkd2	0.503941	0.00157356	41.239	LGS(0.222)S(0.26)ES(0.504)LPCT(C	2	0.99726	9223.5	8757.4
Gys1	0.999987	1.54E-37	145.91	HS(0.113)S(0.888)PHQS(1)EDEEEP	3	0.01941	64744.6	70063.2
Pnn	0.964982	6.37E-47	139.11	S(0.001)LS(0.965)PGKENINS(0.034	3	-0.013731	52860.7	49634.3
Usp47	0.802163	9.93E-16	54.505	ELEQHIQT(0.012)S(0.022)DPENFQ	4	-0.58998	8464.0	10421.6
Plekho2	0.998921	9.96E-08	55.097	VS(0.001)WENPS(0.999)PEEPSVSE	3	-1.1091	18307.6	15311.8

97419.0	82378.2	83970.8	88747.0	-0.2	0.0	322
9621.6	8313.2	6969.4	8638.4	-0.2	0.2	424
23429.6	18709.2	19188.6	20670.0	-0.2	0.0	45
84944.6	60646.3	59507.4	72095.0	-0.2	0.3	189
91154.6	66205.5	84376.9	70845.0	-0.2	0.3	1178
120336.5	107540.9	103727.9	100660.0	-0.2	0.0	250
15528.9	13343.6	12371.7	13889.0	-0.2	0.0	199
14826.2	12475.7	13047.1	12358.0	-0.2	0.0	181
5856.6	4570.9	4729.1	4679.7	-0.2	0.1	468
3785.4	2613.3	3235.9	3563.3	-0.2	0.2	528
7852.5	7033.6	5958.8	6530.5	-0.2	0.1	142
2755.3	2756.9	2324.7	2526.4	-0.2	0.1	527
21680.4	13580.1	13563.2	16255.0	-0.2	0.5	1213
3520.3	2704.1	3655.8	2798.7	-0.2	0.4	234
29330.9	25118.7	28502.9	26399.0	-0.2	0.0	433
4112.4	3406.0	3443.9	3677.6	-0.2	0.0	339
6211.9	4715.7	5745.5	6099.5	-0.2	0.1	289
62717.0	56543.4	58027.4	57408.0	-0.2	0.0	1441;1355
7087.6	5521.1	5002.6	5810.7	-0.2	0.2	337;337
26719.3	22637.2	23383.0	24161.0	-0.2	0.0	68
1649.2	1499.1	1724.0	1436.8	-0.2	0.1	84;84
6575.0	5622.0	5728.0	6117.2	-0.2	0.1	779
10679.4	7992.5	7925.2	8530.2	-0.2	0.2	35
9218.1	8002.4	8655.1	9156.4	-0.2	0.1	10
220263.8	163861.0	169690.0	191760.0	-0.2	0.2	191
30222.0	24156.2	26213.8	27686.0	-0.2	0.0	1354
6332.4	4567.5	4606.0	5686.9	-0.2	0.2	956;830
4573.6	4193.5	3519.7	3603.9	-0.2	0.1	243
28127.8	23887.8	23930.1	25745.0	-0.2	0.0	352
8684.3	7442.3	8230.5	7715.0	-0.2	0.0	214
68593.8	58082.3	55082.2	65240.0	-0.2	0.1	657
58668.2	44685.9	43592.1	53113.0	-0.2	0.2	442
10471.2	8151.3	8612.9	8991.0	-0.2	0.2	924
12216.8	12058.9	14383.9	13771.0	-0.2	0.4	278



Vcl	0.8165	3.32E-06	44.304	VAMANIQQMLVAGAT(0.183)S(0	3	-1.6307	5735.5	5210.7
Pdlim4	1	0.00191694	48.467	EPAEPAAS(1)EPK	2	0.34843	63051.0	53620.5
Rffl	0.925697	5.22E-19	69.704	RAS(0.926)LS(0.068)DLT(0.006)HL	4	-0.17705	2692.6	3186.6
Prx	1	1.00E-05	80.96	VEVAGAES(1)KPK	2	-0.056368	3879.0	3713.3
LOC30676	0.755473	2.53E-51	110.03	HPAS(0.001)AQS(0.068)S(0.239)P'	3	-0.089233	3745.4	3796.1
Cpne6	0.838043	0.00217903	61.815	S(0.017)CS(0.838)S(0.145)PVFSR	3	0.093873	4339.9	4204.3
Syt1	0.733525	1.32E-06	40.668	DQDDDAET(0.266)GLT(0.734)DGE	4	-0.48551	10213.6	10613.9
Tgoln2	0.837774	1.11E-20	101.05	S(0.838)S(0.16)EPT(0.002)EDVETK	3	0.77843	52085.5	50307.8
Bclaf1	0.966816	2.02E-49	122.65	SATSGDIWPGLS(0.031)AY(0.001)C	3	0.43712	18802.6	19890.4
Slc4a7	1	0.000845516	59.418	GS(1)LLQIPVK	3	-0.13522	15644.4	13915.5
Srgap1	0.70306	5.03E-05	47.537	ADS(0.016)EAS(0.703)S(0.281)GPV	3	0.32222	10785.4	11976.1
Kif13b	0.608489	1.36E-25	69.439	YDFWDQQEPVT(0.032)VAPEVDT((	3	0.97162	10365.5	10552.1
Tgoln2	0.761482	8.51E-15	85.087	GDKS(0.189)S(0.761)EPT(0.049)EL	3	0.062317	25696.3	24483.1
Atf7	0.955768	2.61E-71	103.18	ESS(0.001)EPT(0.043)GS(0.956)PA	3	1.168	3674.5	3893.4
Sel1l	0.810061	8.14E-06	52.814	GALPT(0.189)DGS(0.81)VKDHT(0.(	3	0.63048	8806.7	8904.6
Acin1	0.944026	3.87E-107	126.14	IS(0.944)EDET(0.056)ER	2	-0.92939	74829.9	73397.9
Cfap36	0.742412	1.54E-05	43.768	EIGINEDQFQEACT(0.258)S(0.742)I	3	0.37667	4504.9	4508.9
LOC50103	0.999752	5.58E-48	88.814	AKHES(1)LDDLQASTYFGPTPVMGT	4	0.16333	3721.6	4432.1
Birc6	0.749761	4.66E-09	96.756	S(0.104)DS(0.75)VT(0.146)GHTSQ	3	0.29051	14338.4	14358.6
Srrm2	0.970897	0.00108206	73.233	S(0.971)T(0.028)T(0.001)PAPK	2	0.21948	32403.9	32864.7
Phlda3	0.782875	0.0321595	54.65	AVECVES(0.217)T(0.783)GR	2	-0.035838	6262.4	6446.6
Ubr4	0.642377	9.15E-79	140.41	T(0.112)GS(0.642)T(0.112)S(0.112	4	1.1596	12600.7	13177.2
Prr5	0.568768	1.69E-71	104.13	S(0.569)KS(0.418)YNT(0.013)PLLN	5	-0.06307	8904.8	9420.2
Prkcb	0.998676	0.000176359	86.944	QPVELT(0.999)PT(0.001)DK	3	0.08381	124098.3	122218.3
Pdzd2	0.784986	5.93E-11	65.175	MS(0.001)HAS(0.201)S(0.785)PS(C	3	0.085649	3746.3	3908.5
Vim	0.531281	2.83E-11	50.505	QVQSLTCEVDALKGT(0.531)NES(0.	4	0.41646	5416.9	4790.4
Top2b	0.989174	5.05E-83	117.21	SEDDS(0.008)AKFDS(0.989)NEEDT	4	-0.98812	28236.7	29410.5
Smurf1	0.761518	1.36E-11	53.679	EPSQPLQLPS(0.238)EGS(0.762)VE	3	0.45049	5430.2	5238.9
Arhgef26	0.897076	0.000133722	50.188	S(0.897)PLVS(0.101)Y(0.002)AASC	3	1.6907	1337.5	1728.2
Cdc26	0.499938	2.03E-19	73.361	QKEDVEGVGT(0.5)S(0.5)DGEGAAC	3	0.80107	13156.4	12269.0
Gfap	1	0.00281987	99.343	GTNES(1)LER	2	-0.074651	15129.1	14887.3
Bod11	0.881821	2.24E-07	56.347	STSNDNEEKT(0.118)GS(0.882)VF	3	-0.43195	8603.9	9224.4
Pgrmc2	0.999978	2.37E-86	154.77	LLKPGEEPSEYT(1)DEEDTKDHSK	4	-0.22467	309905.8	327034.2
Slc4a4	0.674968	1.15E-183	188.49	ISENYS(0.325)DKS(0.675)DVENAD	4	-0.5063	64070.7	59054.6

4994.3	4471.1	4843.6	4670.6	-0.2	0.1	755
66231.4	54265.4	52023.7	54181.0	-0.2	0.1	144;203
2353.0	2117.5	2243.1	2862.6	-0.2	0.4	211
4172.3	2950.6	3629.8	3742.4	-0.2	0.2	952;952
4059.9	3474.8	3300.5	3404.9	-0.2	0.0	183
4714.0	3730.3	3968.2	3935.6	-0.2	0.0	67
10292.6	9217.7	8168.1	9923.0	-0.2	0.1	152
48875.6	42829.1	41028.4	48889.0	-0.2	0.1	234
20380.4	17398.1	15559.5	18890.0	-0.2	0.1	219
16991.7	13013.6	13461.7	14382.0	-0.2	0.1	1057
10925.4	10033.3	9620.5	9914.7	-0.2	0.0	756
11120.2	9307.3	9301.7	9514.5	-0.2	0.0	985
25325.7	21371.1	21158.1	23793.0	-0.2	0.0	235
3591.7	3226.4	3267.1	3309.4	-0.2	0.0	423
9433.6	7067.9	8856.1	7921.5	-0.2	0.1	44
76558.4	60810.2	62791.4	73863.0	-0.2	0.1	793
4743.9	3693.1	3742.2	4650.9	-0.2	0.2	85
4127.4	3261.2	4004.8	3523.7	-0.2	0.2	330
14230.0	12011.6	12131.2	13581.0	-0.2	0.0	493
31774.2	28364.7	27762.3	29157.0	-0.2	0.0	250
6821.3	5856.1	5882.0	5427.2	-0.2	0.0	65
12479.7	11018.3	10442.8	12168.0	-0.2	0.0	362
9857.2	7749.7	8927.2	8096.9	-0.2	0.1	253
122721.3	107036.0	104518.7	112920.0	-0.2	0.0	642
3528.4	2967.9	3642.6	3222.7	-0.2	0.1	1327
5329.0	4545.3	5071.4	4046.9	-0.2	0.2	336
26366.9	25746.8	24685.7	23460.0	-0.2	0.0	1453
5972.9	4958.0	4727.1	4954.7	-0.2	0.0	337
1423.6	1324.0	1197.3	1428.4	-0.2	0.3	112
13265.4	11057.9	11279.5	11715.0	-0.2	0.0	41
17183.3	13514.1	12910.3	15120.0	-0.2	0.1	303
8971.8	7422.3	7507.4	8661.9	-0.2	0.1	2884
325109.7	283272.6	252606.0	311540.0	-0.2	0.1	205
46235.3	52311.9	45066.9	51806.0	-0.2	0.3	68;68

Aff4	0.741767	0.00509256	52.255	S(0.131)S(0.128)PRPT(0.742)AEK	3	-0.6261	19827.1	18719.9
Tra2b	0.991104	2.14E-06	76.728	HS(0.001)HS(0.007)HS(0.991)PMS	3	-1.4247	2097.1	1665.0
Plp1	1	4.42E-05	73.273	GQHQAHS(1)LER	3	0.49756	4818.4	4779.4
Tjp2	0.979317	0.00525472	93.098	S(0.979)FS(0.021)PEER	2	-0.11638	12091.4	11769.9
Zfp777	0.999858	0.0179612	58.592	SGYAS(1)PER	2	0.093646	7175.2	6131.2
Spp1	1	1.50E-12	106.14	MKS(1)QES(1)DEAIK	3	0.68623	285014.6	310229.5
Ahnak2	0.999936	3.04E-120	183.15	THLPTPECGS(1)QGSISLEVPGVR	3	-0.17318	17277.2	17066.9
Rbmxrtl	0.499997	0.0196978	70.056	DDGYS(0.5)T(0.5)K	2	0.15666	12303.7	12078.1
Hnrnpdl	0.662056	7.88E-08	59.248	VFVGGLS(0.167)PDT(0.662)S(0.17	3	0.47471	7584.0	7830.0
Ctdspl2	0.512179	2.49E-10	88.951	KAS(0.476)QQS(0.512)S(0.011)PIC	3	0.46393	12140.3	8735.4
Dennd4c	0.556395	7.11E-39	110.33	RS(0.556)S(0.433)LPS(0.01)AQDST	3	-1.6669	9671.1	7984.0
Pdia6	0.592726	0.00114376	76.85	S(0.065)GGY(0.001)S(0.342)S(0.59	2	-0.33976	13149.3	14598.8
Map1a	0.772953	0.0209056	50.025	AES(0.227)FY(0.773)QK	2	-0.43675	55948.6	62303.7
Fam172a	0.708966	4.57E-10	73.279	QS(0.034)S(0.709)S(0.175)DGT(0.1	2	0.90341	13418.8	14319.1
Ank2	0.954377	0.0269669	65.474	Y(0.046)S(0.954)LEGGR	2	0.20972	17439.4	17652.7
Ppp1r9a	0.97786	0.000456038	84.999	RPS(0.978)PGEVS(0.022)K	2	0.10632	44714.7	47647.8
Anp32b	1	0.0117903	59.067	GKLS(1)LER	3	-0.037828	12553.0	9814.4
Elac2	1	0.0016676	58.116	RS(1)PNRLS(1)PK	4	-0.21908	16662.9	15298.7
Unc13a	0.985111	5.28E-05	102.46	ALS(0.985)PT(0.014)GS(0.001)SR	2	0.1819	9476.9	11279.6
Mcc	0.918853	5.93E-13	70.334	S(0.01)ELS(0.919)QS(0.072)QQEVI	3	-0.18817	6684.6	6834.4
Jph2	0.99993	4.31E-08	53.453	ETPQPEGPPS(1)PAGT(1)PPQPK	3	0.11843	23671.1	29130.8
Thrap3	0.994245	0.012729	64.776	S(0.005)T(0.001)EKT(0.994)EK	3	-0.13427	73299.7	71562.7
LOC10255	0.999962	1.28E-06	51.31	DGS(1)DPEACPVHEAGSNAR	3	0.97216	4994.6	3873.5
Nefm	1	7.62E-28	102.45	S(1)PVKS(1)PEAK	3	0.35518	817271.7	793606.9
Epb41b	0.947262	0.00152539	44.734	DDVDAT(0.053)ES(0.947)APADR	2	-3.5123	3052.4	2519.7
Rnf19a	0.999784	0.000127821	84.507	RIS(1)IGSLFR	3	0.20237	4151.1	4463.9
Zfp36l1	0.992429	0.0239845	55.046	S(0.008)FS(0.992)EGGER	2	0.52264	25763.1	20011.0
Sipa1	0.961927	2.25E-21	84.581	S(0.038)GS(0.962)DAGEVRPPTPAS	2	0.36449	5383.5	6767.2
Camsap1	0.684301	9.63E-08	59.372	QQPLES(0.079)PAHQKS(0.684)PS(	3	-0.39887	11580.6	11356.4
LOC10036	1	0.0137411	76.1	RVS(1)AVPR	2	-0.19782	8971.9	9850.5
Srsf9	0.880806	0.0398811	48.073	GT(0.007)S(0.881)Y(0.026)GCS(0.0	2	0.45872	5779.8	4754.8
Srrm2	0.820126	2.42E-07	73.834	AQSGT(0.004)DS(0.175)S(0.82)PEI	3	0.03635	13115.9	13130.1
Smad1	0.926371	0.0153651	62.894	NS(0.034)T(0.926)IENT(0.039)R	2	-0.010034	12226.2	11162.2
Lcp1	1	1.74E-05	49.768	FS(1)LVGIAGQDLNEGNR	3	-0.42724	3645.3	3706.6

20925.5	17051.6	17072.7	18265.0	-0.2	0.0	591
1528.8	1526.5	1584.3	1550.9	-0.2	0.3	99
4458.9	3635.3	4316.3	4434.1	-0.2	0.1	134
12836.4	10483.4	9494.9	12357.0	-0.2	0.2	393;420
5977.4	5343.7	5954.9	5696.0	-0.2	0.1	611
341654.3	257995.5	254764.7	312990.0	-0.2	0.2	180
16652.1	15415.9	16101.3	13434.0	-0.2	0.1	5682;7053
10656.0	10707.2	8765.4	11419.0	-0.2	0.2	213;216
7934.7	6599.1	6596.2	7391.6	-0.2	0.0	147
10005.2	9330.2	8773.5	9132.8	-0.2	0.3	12
8306.5	7305.8	7527.8	8067.3	-0.2	0.1	1234
13156.8	11455.0	12530.9	12103.0	-0.2	0.0	153
73956.4	53378.8	51257.5	65012.0	-0.2	0.3	917
14752.7	10788.4	12908.1	13809.0	-0.2	0.2	152
17956.3	14719.7	15324.4	16785.0	-0.2	0.0	859
46161.8	37977.2	40579.6	43734.0	-0.2	0.0	841
12735.2	10118.6	9050.9	11823.0	-0.2	0.3	155
14897.5	13440.4	12836.6	15121.0	-0.2	0.1	197
7717.7	8344.1	8353.3	8459.1	-0.2	0.3	255
7168.8	5442.9	6119.1	6716.8	-0.2	0.1	293
27589.1	23301.5	23846.8	23883.0	-0.2	0.1	483
73032.3	63549.1	60439.3	68582.0	-0.2	0.0	754
4264.4	3822.4	4000.5	3787.0	-0.2	0.2	1068
965981.6	822725.9	640662.7	815050.0	-0.2	0.3	506
2929.0	2077.8	2598.4	2840.6	-0.2	0.3	901;883;1220;666
3948.5	3218.3	4117.4	3774.7	-0.2	0.2	66
22321.3	19835.6	22511.0	17877.0	-0.2	0.3	92
5435.1	4931.8	5406.7	5215.9	-0.2	0.2	53
10467.5	9595.1	9713.8	10237.0	-0.2	0.0	222
9514.7	7760.8	8669.6	8636.8	-0.2	0.0	332
4673.8	4207.9	4905.1	4342.3	-0.2	0.2	189
13688.1	11552.9	11224.0	12555.0	-0.2	0.0	1580
12560.6	9998.2	9841.6	11972.0	-0.2	0.2	325
3161.6	3093.3	2514.9	3695.7	-0.2	0.4	474

Htatsf1	1	9.67E-39	106.63	VFEDNS(1)NEKLFNEEEGPNEK	5	-0.41267	132029.6	135216.7
Polr3e	0.999969	4.95E-33	70.003	EEPLS(1)EEEEADGDELEAEEEEPMDT	4	-1.3545	7189.6	5614.9
Nucks1	0.965216	2.27E-26	80.412	DDS(0.035)HS(0.965)AEDS(1)EDEH	4	0.38497	17874.7	21036.6
Ccar1	1	0.0101972	56.548	S(1)GDDKDKK	4	-0.20875	134844.3	130686.4
Sec23ip	1	0.0321532	41.399	KAAS(1)EKK	3	0.35593	27459.1	38439.2
Elp2	0.538901	3.21E-07	40.513	QS(0.46)LS(0.539)HMLY(0.001)DE	4	-1.016	3564.3	3401.2
Abcc5	1	4.53E-07	75.911	GPKPGS(1)VK	2	1.4434	105320.8	104383.5
Sugp2	0.993471	3.61E-10	46.953	AAPSPDVT(0.006)VGAS(0.993)PVI	3	0.23166	2968.8	2576.3
Epb41l3	0.999906	0.0019936	70.675	SSSSKLS(1)R	3	-0.14588	53946.1	66249.3
Htatsf1	0.996785	1.26E-32	97.5	EGES(0.997)DGDY(0.003)PER	2	0.44491	53677.7	54145.9
Snph	0.956407	1.65E-11	61.862	SST(0.003)Y(0.002)T(0.037)KLS(0.9	3	-0.40202	48260.6	52713.3
Lcp1	0.948526	7.27E-05	51.03	GS(0.949)VS(0.051)DEEMMELR	2	0.38835	10144.5	9095.5
Srsf10	0.615975	0.00964668	67.93	GT(0.013)S(0.331)KT(0.616)DS(0.0	2	-0.46332	81438.5	77931.4
Pura	0.805749	7.20E-84	134.45	GPGLGS(0.806)T(0.194)QGQTIALP	3	0.67952	10434.9	11773.2
Scrib	0.864268	1.30E-06	72.209	NS(0.864)LES(0.129)IS(0.005)S(0.0	3	1.5569	3262.0	3065.1
Arhgef18	0.877071	2.77E-22	91.076	RAETFGGYDS(0.123)VGS(0.877)PM	3	-0.90015	61205.9	60505.8
Map4k5	0.828344	4.00E-43	89.721	VNNPDNHAHY(0.172)S(0.828)EGE	4	0.12758	18925.4	18299.8
Cep170b	0.759933	2.41E-09	61.276	QES(0.76)FT(0.218)KEPT(0.011)S(0	2	0.10905	8816.6	7805.0
Zc3hc1	0.667199	9.49E-63	108.5	SQDAAVS(0.115)PS(0.117)S(0.667	4	0.076756	23603.1	23622.1
Hnrnpu	0.997058	0.0659098	54.259	QNT(0.003)GS(0.997)KK	2	0.14855	9171.0	9231.9
Mprlp	0.730354	1.63E-15	85.51	S(0.235)ERLS(0.73)T(0.034)HELTSI	4	-0.2434	6236.3	6723.4
Cep350	0.551915	3.00E-05	42.348	S(0.167)PS(0.552)PIS(0.067)IS(0.0	4	3.1734	3847.6	4352.4
LOC10369	1	5.86E-05	79.86	LGIHEDS(1)QNR	3	-0.10211	11588.0	10005.7
Sik3	0.923885	2.04E-17	71.442	QLS(0.075)ADS(0.924)AEAHS(0.00	3	-0.43811	16682.0	16108.2
Kcna2	1	0.00458704	74.841	IPS(1)S(1)PDLKK	3	0.35471	34612.8	31953.1
Ephb2	0.62296	0.0253199	54.259	ADS(0.623)EY(0.064)T(0.313)DK	2	-0.23462	5488.1	5352.0
Nefm	0.67238	4.67E-17	135.04	GSPS(0.001)T(0.004)VS(0.087)S(0.	3	-0.70122	30953.6	30994.4
Zbtb7a	0.982905	7.63E-10	79.652	AGDS(0.017)DEES(0.983)RPDDK	3	-0.048626	119661.5	113673.3
Med12	0.669615	4.59E-05	58.079	GS(0.33)PS(0.67)PEKPDVEK	3	0.31137	47344.6	52937.1
Nefh	0.908621	3.81E-31	94.71	S(0.96)PAS(0.909)VKS(0.122)PS(0.	3	-0.89892	380715.2	339966.8
Map1b	0.936971	0.0207722	54.259	S(0.013)T(0.011)PLS(0.937)DT(0.0	2	0.77498	40312.6	36344.1
Fam126a	0.846109	8.67E-12	62.739	S(0.154)PS(0.846)PAIGCVAGADAF	3	0.52128	6472.7	6825.6
Ppp1r10	0.725171	1.25E-10	64.104	VLS(0.115)PT(0.159)AAKPS(0.725)	3	0.62198	20549.9	20295.1
Srrm2	0.999739	0.00108206	60.161	S(1)RS(0.949)T(0.04)T(0.011)PAPK	2	0.10283	12687.7	12872.3

141980.7	114032.8	111523.7	136630.0	-0.2	0.1	724
7208.4	5677.4	6223.2	5818.0	-0.2	0.2	500
18433.2	16157.3	15476.1	19139.0	-0.2	0.2	75
126128.1	113119.9	107911.7	125750.0	-0.2	0.1	637
26224.3	25151.7	25360.0	31065.0	-0.2	0.5	429
3973.0	3139.7	3459.6	3089.6	-0.2	0.1	482
101696.7	90865.5	84513.7	100460.0	-0.2	0.1	815
2678.9	2204.6	2566.6	2513.9	-0.2	0.1	195
56949.8	51295.5	50650.5	54976.0	-0.2	0.2	100;100;100;100
55218.7	47409.4	43491.7	53569.0	-0.2	0.1	455
45012.0	39970.3	45954.9	43473.0	-0.2	0.1	219
9645.7	8267.3	8551.1	8789.9	-0.2	0.0	5
75439.5	74219.8	65775.0	68187.0	-0.2	0.0	210
11227.7	9402.7	10398.8	9842.7	-0.2	0.1	179
2906.0	2675.8	2468.2	3044.1	-0.2	0.2	1204;1204;1204
62774.5	52930.1	50952.9	59733.0	-0.2	0.1	701
21035.2	17084.6	16067.1	18525.0	-0.2	0.1	304
8542.8	7672.7	7309.0	7339.2	-0.2	0.0	890
24074.7	21620.8	22598.6	19024.0	-0.2	0.1	337
10027.4	7811.4	8007.7	9400.3	-0.2	0.1	661
6923.5	5562.8	5672.0	6403.8	-0.2	0.1	770;793
3974.7	3425.6	4206.0	3169.3	-0.2	0.3	1797
10232.3	9345.6	9191.9	9697.7	-0.2	0.1	454
16969.3	14504.1	14769.7	14874.0	-0.2	0.0	869
34739.3	28333.9	29044.7	32510.0	-0.2	0.1	440
6043.8	4849.8	4826.3	5306.3	-0.2	0.1	522
25973.0	24286.0	27688.6	26054.0	-0.2	0.2	50
119112.1	98433.2	101387.6	112990.0	-0.2	0.1	335
49320.6	48570.9	40170.3	44047.0	-0.2	0.1	701
432468.2	337401.6	328608.0	357600.0	-0.2	0.2	679;649
43849.4	33678.6	35026.9	38279.0	-0.2	0.2	744;618
6940.6	5055.7	5953.0	6962.6	-0.2	0.3	467
18602.5	17755.5	16162.2	18870.0	-0.2	0.1	320
11529.0	10064.0	11414.2	11456.0	-0.2	0.1	248



Eif3c	1	2.68E-12	93.424	QNPEQS(1)AEDAEK	3	-0.80029	9497.2	9313.1
Eepd1	0.526078	2.32E-40	121.82	S(0.152)RPPS(0.317)T(0.526)HT(0	4	0.064939	10994.1	11285.1
Maf1	0.531574	1.18E-22	68.011	QFCQEGQPHVLEALS(0.074)PPQT(I	3	0.76625	7918.0	8401.4
Ints1	0.983735	0.0103206	100.98	AIS(0.984)PS(0.016)IK	2	-0.55764	15342.6	15259.2
Camsap1	0.775586	2.08E-22	87.24	DLS(0.776)DS(0.224)QDVAFVQLHI	4	-0.75332	3199.0	3072.6
Map4	0.799881	0.00500148	70.808	S(0.8)PS(0.17)T(0.025)T(0.004)LPk	3	0.54305	8085.9	8820.3
Dock5	0.760767	5.85E-10	97.297	DS(0.761)Y(0.001)Y(0.005)VY(0.05	3	1.9457	18511.6	18034.4
Spp1	1	1.50E-12	106.14	MKS(1)QES(1)DEAIK	3	0.68623	322452.8	343125.9
Sugp1	0.999894	6.20E-18	73.294	AGSTGSLPAPVPNPS(1)LR	3	-0.11298	5871.4	6615.3
RGD13099	1	5.10E-12	94.692	EILGS(1)PQR	2	0.79946	3343.2	3044.3
LOC68482	0.669558	0.00127537	48.892	ERS(0.67)GVS(0.33)LAALK	3	-0.5826	10397.4	10028.0
Bola1	0.757639	0.000113045	49.188	GS(0.758)AGS(0.242)AAGGPVEAA	2	-0.56593	9570.4	9839.3
Wasf1	0.530176	2.00E-10	49.152	TPVFSPTPPPPPPPLPS(0.03)ALS(0	4	0.45108	254.7	586.8
Plekhd1	0.706176	4.26E-25	69.578	S(0.003)NS(0.008)VS(0.125)PS(0.7	3	0.86167	14302.6	13291.3
Mark2	0.780684	1.13E-15	91.518	S(0.781)S(0.172)ELEGDT(0.047)IT(	3	1.1162	16640.3	16414.2
Pcyt1b	0.576026	0.00863221	54.823	QS(0.354)PVS(0.576)S(0.06)PT(0.C	2	-1.5614	10568.0	8851.4
Atp7a	0.697825	2.17E-46	106.75	VSISSEVES(0.12)PT(0.698)S(0.148)	3	-0.35286	11089.2	10966.2
Heatr6	0.694347	1.93E-12	66.246	ALPAGPSLEEAS(0.694)LS(0.254)S(i	3	0.47764	9802.3	9001.8
Cox4i1	1	0.0114231	51.193	AHGS(1)VVK	3	0.37919	8278.1	9070.5
Scrib	0.754889	3.21E-35	158.28	NS(0.245)LES(0.755)ISSIDR	2	1.4132	49204.0	50766.3
Kdm5c	0.6066	3.44E-55	132.67	EALVS(0.184)QPS(0.607)S(0.209)F	3	0.41801	13163.6	12334.8
Arfgef2	0.791594	5.89E-42	85.062	QS(0.001)QAQS(0.178)KPT(0.792)	3	0.4107	10318.8	9896.0
Thrap3	0.972362	0.00123466	59.908	ERS(0.972)T(0.022)EKT(0.006)EK	4	-0.016954	58227.8	53742.2
Lrmp	1	2.68E-05	69.229	QGEHRPS(1)LHR	3	2.6121	15414.2	13127.9
Psm11	0.916212	1.90E-11	90.759	AQS(0.001)LLS(0.033)T(0.027)DRE	4	1.3302	12882.1	14742.5
Il4r	1	0.073716	49.16	PLQS(1)PEK	2	-0.84741	20591.6	19742.3
Aco2	0.997149	3.91E-05	93.166	VDVS(0.997)PT(0.002)SQR	2	0.84915	33161.3	33443.8
Robo2	0.548266	1.52E-11	59.046	QRPT(0.548)S(0.262)PFS(0.083)T(i	3	0.55609	2818.2	1885.2
Rbmxml	1	0.001996	83.869	GLPPS(1)MER	2	0.37123	86933.2	99085.4
Fnbp4	0.999643	1.63E-27	101.48	INENS(1)DKEAEVEESSEK	3	-0.78212	42146.9	40679.1
Ghr	0.993455	0.0107307	63.076	ESS(0.006)S(0.993)GKPR	2	0.75447	21142.6	22707.2
Ralgapa1	0.808467	7.62E-85	137.88	HFS(0.173)QS(0.808)EDT(0.018)G	3	0.44309	12253.6	13069.7
LOC10091	0.927226	3.08E-08	102.97	IIS(0.017)IFS(0.927)S(0.039)T(0.01	2	1.0723	14934.7	15556.4
Gtf3c1	0.820499	0.00114218	60.943	RVS(0.18)HS(0.82)QGPK	3	0.63407	9746.5	9107.8

9765.9	7880.4	9018.1	8477.5	-0.2	0.0	166
11894.2	9014.7	10835.0	10497.0	-0.2	0.1	205
9040.3	6613.7	7901.7	8006.4	-0.2	0.2	64
17258.9	13140.1	13229.8	16136.0	-0.2	0.2	131
3177.2	2442.7	2971.4	2978.1	-0.2	0.1	976
9003.4	7322.3	7897.5	7793.0	-0.2	0.0	1875;799
15578.9	15193.7	14580.6	16525.0	-0.2	0.1	1287
381982.9	292622.3	286054.6	351820.0	-0.2	0.2	183
6456.4	6063.1	5339.3	5426.5	-0.2	0.1	332
2785.7	2793.7	2830.4	2525.5	-0.2	0.1	372
10214.9	8791.1	8357.9	10076.0	-0.2	0.1	56;57;55;55
9380.7	8133.9	9152.6	8297.2	-0.2	0.0	23
597.3	211.5	619.0	448.1	-0.2	0.8	335
12971.6	12284.3	11484.7	12282.0	-0.2	0.0	12
19566.0	15248.7	14198.0	17322.0	-0.2	0.2	365
9102.8	8286.0	8220.5	8845.9	-0.2	0.1	284
9848.4	9364.0	9360.5	9634.5	-0.2	0.0	355
10966.9	8493.3	8673.8	9296.7	-0.2	0.2	711
8549.7	6931.9	7349.6	8741.2	-0.2	0.2	26
50785.6	41729.2	43222.4	49068.0	-0.2	0.1	1207;1207;1207
12160.3	11356.0	10863.8	11259.0	-0.2	0.0	896
11394.9	9202.8	8052.8	10846.0	-0.2	0.3	243
54746.0	46745.0	49356.4	52121.0	-0.2	0.0	750
11969.8	11529.8	13447.8	11041.0	-0.2	0.3	353
17110.9	12140.3	13275.8	14362.0	-0.2	0.3	101
21099.1	17384.9	18136.0	19121.0	-0.2	0.0	335
26775.7	27062.3	28442.0	27554.0	-0.2	0.2	559
2819.1	1835.1	2502.2	2354.3	-0.2	0.5	1150
89663.1	81801.8	82292.0	81155.0	-0.2	0.1	349;352
39597.2	34636.6	33712.5	40562.0	-0.2	0.1	552
19181.7	19151.4	18693.8	18231.0	-0.2	0.1	48
11810.1	10167.9	11224.0	11648.0	-0.2	0.1	774
13516.7	12225.0	13230.9	13703.0	-0.2	0.1	58
7896.8	7972.5	7554.1	8278.2	-0.2	0.2	1083

Clk3	0.835227	0.00114836	61.344	EHRDS(0.835)DT(0.163)Y(0.001)R	2	0.97125	13839.9	15016.8
Rab1a	0.636744	0.01227	50.04	IQS(0.637)T(0.363)PVK	3	0.40539	9616.9	8039.5
Akap8	1	2.74E-115	120.48	NEAAVPAAAAGS(1)PVPVIAIPGILEI	4	-1.3401	28923.7	27024.7
Nefh	0.962431	1.88E-07	56.719	EPLT(0.038)EKP KDS(0.962)PGEAK	3	0.69992	48723.3	45175.3
Golga3	0.772732	2.64E-26	106.3	GES(0.002)S(0.012)S(0.094)S(0.77	3	1.3367	44241.3	46567.3
Srf	0.928862	1.35E-42	91.166	ALIQTCLNS(0.07)PDS(0.929)PPRS(	3	0.47546	17787.6	17851.2
Suco	0.998053	7.86E-05	87.216	S(0.998)LQFT(0.002)GK	2	0.12237	33327.0	32250.4
Srrm2	0.996006	4.44E-05	94.465	S(0.996)LS(0.003)YS(0.001)PVER	2	0.41909	15370.1	15917.3
Nyap2	0.816895	7.87E-06	50.178	T(0.09)PT(0.09)S(0.817)PLEELT(0.(	3	1.3355	552.2	566.8
Trpm3	0.88475	0.0139525	44.367	T(0.008)S(0.008)AFHS(0.885)FES(C	2	-1.3675	15064.7	17853.4
Slc9a1	0.533663	5.36E-05	45.82	IPS(0.534)AVS(0.425)T(0.04)VS(0.(	3	0.032254	5572.9	5551.3
Dapk3	0.768088	0.00179864	65.276	NT(0.164)S(0.768)Y(0.001)AS(0.0€	2	-0.59717	27007.0	28410.1
Pex19	0.995419	1.56E-64	146.97	ICEQFEAET(0.995)PT(0.005)DSEA1	3	0.45293	19415.6	19509.7
Sybu	0.95074	4.16E-14	69.272	S(0.951)PNS(0.049)AILLSPVEIPFSK	3	0.0059073	8391.2	8172.1
Mapre2	0.887176	0.00114425	41.386	S(0.887)S(0.095)PAAKPGS(0.011)T	3	-0.75101	22997.2	22519.7
Rtkn	0.965433	9.76E-08	59.09	RPS(0.011)DS(0.023)VQPPERS(0.9	3	-0.63087	5528.3	5480.4
Cdc40	0.632121	5.84E-06	40.968	S(0.117)PS(0.128)AKPS(0.026)LT(C	3	-0.81664	6967.9	5888.8
LOC68359	1	0.0160513	53.751	AKAS(1)PHR	3	0.80279	8664.5	8181.6
Snph	0.894061	1.81E-06	51.301	EEGT(0.002)GES(0.228)AGGS(0.78	3	-0.52509	10591.5	11556.0
Brf1	0.746358	3.55E-32	69.578	DGSGEDAT(0.014)S(0.05)S(0.19)P	4	-0.6337	7572.3	7265.1
Sh3kbp1	0.767781	4.63E-06	45.992	CQVAFS(0.768)Y(0.232)LPQNDDEI	4	0.87331	7787.4	8645.6
Nefm	0.539697	0.0129648	46.352	S(0.54)VKVS(0.46)LEK	3	0.50864	32258.4	29470.8
Dag1	1	6.33E-35	156.6	LTLEDQAT(1)FIK	2	-1.5725	288711.9	292273.0
Taf3	0.93305	3.63E-05	46.156	ET(0.001)IPVKPT(0.064)QT(0.933)	4	1.2554	8391.7	8462.5
Ppp1cc	0.975913	1.50E-05	65.374	KPNAT(0.024)RPVT(0.976)PPR	3	-0.65698	16277.7	17510.1
Htatsf1	1	0.00167868	51.939	RES(1)GEGCPEP	3	-3.1972	6634.6	6370.9
Scaper	0.734794	1.28E-16	68.074	CAPAES(0.265)PS(0.735)K	2	-0.10578	4991.5	5631.8
Atg2a	0.875036	7.64E-12	57.051	LS(0.089)ES(0.875)PAS(0.031)LPS(	3	-0.75558	8216.8	8437.5
Cds2	0.558183	0.00146381	89.609	ALS(0.44)NLS(0.558)S(0.002)R	2	0.30512	34406.4	29833.9
LOC10255	0.612182	1.17E-13	75.743	SQSSATEVDHDS(0.612)S(0.388)PR	3	0.90079	30358.5	28067.9
Ring1	0.895106	3.76E-17	56.22	GGTLGGGT(0.008)LGPPS(0.895)PF	4	1.0654	10031.4	10809.8
Rnaseh1	0.950937	0.000551452	82.954	S(0.001)S(0.001)S(0.046)S(0.951)F	2	0.8083	10999.0	11212.7
Gabbr1	0.737489	3.13E-07	77.776	T(0.121)GS(0.737)S(0.121)T(0.021	3	0.9027	4347.6	5349.4
Hdac7	0.722468	0.0559828	40.475	KES(0.722)APPS(0.278)LR	2	0.73936	16212.1	14029.5

11130.8	11448.4	12218.9	11919.0	-0.2	0.3	67
7463.6	7519.4	7772.9	7063.3	-0.2	0.2	194
31590.1	24806.3	25489.3	27615.0	-0.2	0.1	585
63272.7	44406.5	43505.6	51981.0	-0.2	0.4	929;899
47792.8	39090.4	38534.2	45744.0	-0.2	0.1	1347
18820.7	15841.6	16148.3	16486.0	-0.2	0.0	220
31331.3	28049.0	29097.0	29118.0	-0.2	0.0	1074
15812.1	13301.8	12837.6	15788.0	-0.2	0.1	2647
532.1	265.4	596.0	608.7	-0.2	0.6	485
16761.7	14068.5	13791.9	16375.0	-0.2	0.2	1715
5570.2	4883.5	5158.6	4823.1	-0.2	0.0	603
26536.2	22903.4	25800.3	24288.0	-0.2	0.0	313
19570.2	17261.7	17063.0	17778.0	-0.2	0.0	236
7180.5	6673.2	7410.2	7065.8	-0.2	0.1	548
21602.7	19155.8	19890.7	20747.0	-0.2	0.0	207
5841.1	4482.9	5267.0	5262.0	-0.2	0.1	115
6528.9	5617.4	6025.9	5630.3	-0.2	0.1	56
7969.0	7320.6	7362.5	7428.5	-0.2	0.0	140
9911.9	8300.1	9370.6	10901.0	-0.2	0.3	208
7956.6	7237.0	5883.3	7194.4	-0.2	0.2	161
8560.0	7346.2	7615.9	7312.7	-0.2	0.0	58
33738.5	28155.7	27078.4	29852.0	-0.2	0.1	682
270302.0	232806.5	257992.0	267920.0	-0.2	0.1	788
8516.1	7771.7	6528.1	8312.9	-0.2	0.2	364
15144.5	14016.8	14218.3	15386.0	-0.2	0.1	295
5715.1	5065.8	5672.4	5952.5	-0.2	0.1	491
6342.8	4591.3	4803.6	5731.7	-0.2	0.3	326
8725.1	7224.1	7872.1	7533.6	-0.2	0.0	1243
29279.8	27815.8	27407.5	28166.0	-0.2	0.1	62
32431.1	26122.9	24647.2	30245.0	-0.2	0.2	46
10411.0	9074.0	8861.1	9934.0	-0.2	0.0	248
12240.2	9616.1	9939.0	11171.0	-0.2	0.1	50
5347.7	4497.8	4026.4	4894.5	-0.2	0.3	877
15213.7	12540.6	14295.2	13708.0	-0.2	0.1	204

Nelfe	0.946855	3.30E-09	71.354	S(0.947)MS(0.053)ADEDLQEPSR	2	0.76348	13167.2	15119.9
Traf7	0.785011	1.11E-08	72.797	T(0.146)PS(0.785)S(0.054)S(0.013	2	0.32188	13170.8	12547.6
Nes	1	4.53E-22	86.539	WDLAGEQRLS(1)PQGDAGK	4	1.2924	158841.1	158010.6
Tom1	0.670408	1.41E-12	53.091	GDLSQHATPLPT(0.022)PAVLPGDS	4	0.49967	8028.6	7898.4
Jph2	0.681423	0.00659488	83.783	T(0.681)S(0.089)LS(0.203)S(0.027)	2	-0.67764	14003.2	15364.5
Eif2b2	0.939392	0.0032367	74.772	RS(0.061)S(0.939)EDMAR	2	-0.16723	8238.1	10475.3
Dmd	0.999996	1.90E-30	126.84	S(1)PAQILISLESEER	3	-0.37052	26057.7	23661.5
Hecw1	0.993323	0.000595342	42.321	CS(0.163)PCS(0.384)S(0.46)PQNS(	3	-0.35529	4696.8	4225.1
Slc6a17	0.982149	1.12E-53	90.799	EHS(0.982)NEHVT(0.018)ESVADLL	4	0.31791	7238.5	6710.6
Mllt6	0.698274	1.23E-06	94.688	S(0.007)AS(0.698)PS(0.285)T(0.01	2	0.049652	6268.6	5116.7
Mical3	0.985244	0.0101734	76.679	T(0.015)VHS(0.985)PIR	2	-0.74283	6876.4	7957.8
Eil	0.869126	0.00143177	90.142	GS(0.016)AS(0.869)PS(0.114)QK	2	0.13994	25441.0	22595.3
Ktn1	0.936214	0.00772296	58.132	CTQVCS(0.064)T(0.936)PR	2	-1.0377	3682.3	3154.4
Tln1	1	3.43E-05	49.595	GAAHPDS(1)EEQQQR	3	0.31945	745.9	424.8
Otud7a	0.971252	4.72E-22	73.865	T(0.003)VNT(0.026)VES(0.971)LAF	3	0.54575	7734.0	7066.9
Cxcr4	0.971002	0.0393499	40.502	LRS(0.971)MT(0.029)DK	3	0.17373	10429.0	9034.1
Isl2	0.743626	0.00102141	52.172	EQLVEMT(0.256)GLS(0.744)PR	2	2.0912	7706.5	6825.9
Usp14	1	1.86E-93	179.75	AS(1)GEMASAQYITAALR	3	0.16453	136168.2	137651.8
LOC100351	0.668871	6.60E-16	86.405	KGDS(0.669)S(0.331)AEELK	3	-0.26327	61991.9	63550.9
Vim	0.926283	2.26E-10	62.658	S(0.926)LYS(0.065)S(0.008)S(0.00:	3	0.53454	24161.3	18589.4
Sptan1	0.841309	0.000352829	52.576	DLS(0.841)S(0.157)VQT(0.002)LLT	3	0.53765	2242.1	2331.2
Nova1	0.930133	1.17E-06	71.513	QTLPS(0.044)S(0.93)PT(0.013)T(0.	3	-1.2791	25758.3	24522.6
Brsk2	1	0.0131648	47.844	GT(1)PVHT(1)PK	3	0.26673	16078.5	13258.4
Arhgef12	0.997737	9.56E-22	84.208	VEHHDLS(0.002)VAGLQS(0.998)PI	4	1.9823	13967.5	11248.9
Reep2	0.899776	8.04E-07	86.772	T(0.001)ET(0.099)S(0.9)EDDLGDK	3	0.053072	11195.0	10377.9
Abi1	0.675899	2.50E-07	54.811	HNSTT(0.001)S(0.002)S(0.025)T(0	3	0.5299	2871.4	2779.5
Srsf10	1	4.75E-09	51.495	QIEIQFAQGDRKT(1)PNQMK	4	-0.70808	19140.1	19453.8
Golim4	1	9.74E-71	94.92	QQAHS(1)DAVENDVAQGAEDQGIF	4	0.38422	7074.7	7977.6
Arvcf	0.949794	0.00295838	99.973	RS(0.015)PS(0.95)VDS(0.018)T(0.C	3	-0.80206	52415.9	52930.5
Abca1	0.952038	5.03E-07	43.501	QS(0.001)CLHPFT(0.041)EDDAVDF	3	0.38189	4843.1	5251.8
Pgrmc2	0.998327	8.35E-53	125.45	GLCSGPGAGEES(0.998)PAAT(0.00	3	-0.15224	21531.4	20473.9
Smcr8	0.913213	4.58E-06	125.23	VLIS(0.913)VGS(0.087)YK	2	0.2514	25422.0	21361.3
Dedd	0.993193	0.00327551	53.237	RKS(0.993)VT(0.007)PDPK	3	-0.3466	22168.3	24712.4
Ranbp2	0.719792	2.39E-07	52.866	HS(0.005)S(0.016)S(0.055)S(0.203	3	1.0074	25276.5	24193.6

13216.5	12051.2	12069.3	12901.0	-0.2	0.1	113
12253.0	11251.5	10781.5	11839.0	-0.2	0.0	32
188164.8	140871.8	134264.4	175360.0	-0.2	0.3	1606
8489.9	7611.2	7338.9	6832.4	-0.2	0.0	208
14324.8	13097.2	11629.0	14258.0	-0.2	0.1	161
8857.3	8916.3	7674.6	8017.8	-0.2	0.3	31
24796.6	20941.0	21992.7	23578.0	-0.2	0.1	409
4374.5	4012.3	3742.1	4114.1	-0.2	0.1	1197
7376.3	6027.0	6687.4	6326.6	-0.2	0.1	13
5107.4	4604.3	5001.1	5121.0	-0.2	0.2	215
5821.4	5334.1	7156.8	5954.2	-0.2	0.4	1218
24674.1	21154.4	21196.6	22588.0	-0.2	0.1	177
3119.9	3397.4	2514.1	2982.3	-0.2	0.3	900
974.9	585.4	761.7	569.7	-0.2	0.7	883
8045.2	6821.0	6346.8	7243.2	-0.2	0.1	842
8437.6	8032.1	7938.2	8956.5	-0.2	0.2	68
7237.6	6341.3	6571.6	6537.5	-0.2	0.0	231;221
122668.0	117706.7	120917.1	115620.0	-0.2	0.0	108
56239.7	54352.3	52442.6	55623.0	-0.2	0.1	139
25415.1	20388.9	19551.9	20971.0	-0.2	0.3	51
2117.1	2056.3	1882.2	2041.0	-0.2	0.0	1989
24070.5	21130.2	22390.2	22933.0	-0.2	0.0	80
14246.0	11837.8	13332.4	13787.0	-0.2	0.2	607
11871.8	10364.3	11438.8	11350.0	-0.2	0.2	1176
11442.8	9411.1	9854.6	10248.0	-0.2	0.0	210
2944.4	2556.4	2359.8	2768.2	-0.2	0.1	302;296
17750.8	16601.7	17123.9	16651.0	-0.2	0.0	92
7189.2	7047.7	6344.8	6495.0	-0.2	0.1	443
50082.9	44012.7	45787.1	49184.0	-0.2	0.0	282
5822.7	4533.5	4566.7	5135.2	-0.2	0.2	1236
21098.0	18682.8	18517.5	19235.0	-0.2	0.0	84
23327.4	21234.7	23419.3	18049.0	-0.2	0.3	413
22307.4	20028.1	21779.0	20072.0	-0.2	0.1	182
25783.5	21739.6	20368.4	25197.0	-0.2	0.2	2681

Snx27	0.989657	3.42E-05	84.507	S(0.01)ES(0.99)GYGFNVR	3	0.28291	17175.8	17425.6
Psip1	0.977485	0.00366665	81.017	AS(0.023)NEDVT(0.977)K	2	0.7855	8112.8	9511.6
Camk2d	0.903905	0.00539737	72.2	ANVVT(0.096)S(0.904)PK	2	-0.37634	39418.1	36674.3
Pak1	0.990947	0.0116187	77.662	KT(0.002)S(0.007)NS(0.991)QK	2	-0.40132	6754.1	6911.3
Golga3	0.703517	5.05E-19	73.796	S(0.704)S(0.216)T(0.068)S(0.012)\	3	-0.19824	6197.9	5943.5
RGD13091	0.499967	1.87E-13	110.25	VES(0.5)ES(0.5)QLDSER	2	-0.02553	12929.8	11202.8
RGD13091	0.499967	1.87E-13	110.25	VES(0.5)ES(0.5)QLDSER	2	-0.02553	12929.8	11202.8
Canx	0.997568	6.01E-79	147.17	QKS(0.003)DAEEDGGT(0.998)GS(C	4	-0.096717	871538.6	862306.7
Arhgap27	0.629563	7.72E-24	65.508	AIAEGIEELSADLPQREEGEP(S(0.041	4	-0.032054	9727.3	9804.6
Samd14	1	0.00151459	78.816	HEGFS(1)PK	3	-0.049381	12271.5	13460.2
Speg	1	0.00516517	85.862	AAS(1)LDER	2	-0.36715	8057.9	8866.5
Atrx	1	3.92E-06	77.42	EENVHS(1)PEDKR	2	0.20538	22750.4	22169.7
Map6	0.556685	2.48E-06	57.475	T(0.014)T(0.014)ES(0.557)PS(0.38	3	0.0064364	21750.9	20617.6
Ibtk	0.960761	3.49E-16	61.345	SDSSGGYNLS(0.017)DIIQS(0.961)F	3	1.2325	6841.2	6988.8
Sytl2	0.983117	5.17E-29	78.758	S(0.983)AEDVS(0.013)T(0.003)VP(S	3	1.0917	16902.7	16696.1
Nefh	0.938863	6.65E-48	116.74	S(0.009)PAEAKS(0.762)PAS(0.939)	3	-0.46236	419978.2	378578.2
Zbtb1	0.811184	4.78E-41	108.37	AELGDKGS(0.141)PT(0.047)AFS(0.	4	-1.5362	66574.2	63578.3
Tle3	1	8.18E-26	109.5	VS(1)PAHS(1)PPENGLDK	3	-1.55	36382.7	37143.7
Tp53bp1	0.667769	9.68E-16	65.741	S(0.004)NIS(0.163)S(0.668)PAT(0.	3	-0.4691	3750.3	3588.7
Ctdspl2	0.914839	3.87E-19	74.364	KYS(0.915)EVDDS(0.082)LPS(0.00(S	4	0.063983	15405.8	12787.8
Ptrf	0.767455	3.07E-06	79.614	S(0.233)LKES(0.767)EALPEK	3	0.70175	36825.2	37763.5
Spag9	0.548671	4.57E-43	115.42	S(0.011)HT(0.549)S(0.44)LKDELSD	4	1.261	5903.5	5923.7
Lmna	0.94175	0.000847548	101.35	KLES(0.942)S(0.046)ES(0.012)R	2	-0.1774	25090.4	24742.0
Mtcl1	0.995235	0.000609662	42.716	AS(0.002)GVT(0.045)S(0.177)S(0.7	4	0.28115	20195.6	13793.7
Emcn	0.6398	8.43E-08	59.345	T(0.163)IS(0.64)HES(0.197)GEHSA	3	-0.66238	5252.2	5301.5
Fam129a	0.999926	3.84E-07	72.662	RPESSAVPGS(1)LR	3	-0.01124	7392.0	6590.7
Srp72	0.528108	5.96E-16	58.812	T(0.019)VS(0.065)S(0.2)PPT(0.452	4	2.0967	4484.8	3590.8
Slc25a46	0.882452	1.10E-24	60.807	NLHWGEKS(0.882)PS(0.117)Y(0.0(S	7	0.71538	8864.1	10062.0
Arfgef2	0.685882	5.89E-42	85.062	QSQAQ(S(0.018)KPT(0.296)T(0.68(S	4	-0.48564	12104.5	11020.7
Fnbp1	0.886921	2.24E-52	127.32	ESPDGS(0.113)YT(0.887)EEQSQES	3	-0.40992	5980.6	4823.7
Clasp2	0.917741	0.00808732	47.815	ES(0.001)S(0.001)RDT(0.08)S(0.91	2	-1.6062	7431.2	5799.2
Sars	0.848301	0.00068222	81.625	S(0.017)DDS(0.135)S(0.848)YDEK	2	-0.7328	11866.9	11976.1
Arhgap12	0.999994	2.30E-58	103.84	ISQSALPPLPGS(1)PAIQVNGEWETH	4	-1.3702	3718.3	3684.9
Srrm2	0.972568	0.00447027	106.68	S(0.014)S(0.014)S(0.973)PDTK	2	0.45816	52260.8	52974.4



16817.1	14411.7	15880.0	15699.0	-0.2	0.0	49
10167.9	10387.4	6759.0	7714.7	-0.2	0.5	134
45775.3	37005.9	33161.1	38851.0	-0.2	0.2	338;338
7236.4	5792.7	6206.4	6703.3	-0.2	0.1	139
6276.7	5027.1	6058.6	5395.2	-0.2	0.1	236
11255.4	10943.6	9758.5	10966.0	-0.2	0.1	531
11255.4	10943.6	9758.5	10966.0	-0.2	0.1	533
834711.3	737336.0	734104.9	827250.0	-0.2	0.1	561
9958.0	9109.5	9070.6	8211.3	-0.2	0.0	614
13258.0	11219.6	11071.2	12603.0	-0.2	0.1	267
6818.0	7336.1	6833.3	7079.0	-0.2	0.2	398
27560.4	19941.2	21567.4	23360.0	-0.2	0.3	916
21109.7	19439.6	18872.3	18501.0	-0.2	0.0	590
6992.0	6015.9	6100.2	6521.9	-0.2	0.0	1004
17842.3	15059.5	15592.6	15394.0	-0.2	0.0	534
471136.0	353857.0	375489.4	407290.0	-0.2	0.2	619
70198.2	56895.4	52979.1	69485.0	-0.2	0.3	279
36351.1	28308.6	33141.9	36918.0	-0.2	0.2	266
3431.7	3487.2	3320.1	2836.0	-0.2	0.2	1595
14469.5	11642.0	12410.2	14147.0	-0.2	0.2	28
36841.9	29382.1	33450.7	36939.0	-0.2	0.2	177
5356.2	4509.2	5575.0	5302.8	-0.2	0.2	101
23572.2	23098.1	20412.2	22228.0	-0.2	0.0	423
10675.2	13048.8	15202.5	11751.0	-0.2	0.6	1327
5788.6	4180.3	5339.3	5117.5	-0.2	0.2	236
7918.6	5952.8	6632.4	7031.7	-0.2	0.2	708
4153.4	3356.7	3833.0	3763.8	-0.2	0.2	566
8250.3	7071.3	8274.6	8997.5	-0.2	0.3	61
11944.2	9566.7	10731.3	11116.0	-0.2	0.1	244
6388.0	4468.4	5845.5	5087.8	-0.2	0.4	522
6778.4	5557.5	7642.6	4726.7	-0.2	0.5	550;760
10491.8	9750.6	10153.4	10859.0	-0.2	0.1	262
3601.8	3172.8	3316.0	3372.2	-0.2	0.0	260
47861.0	44814.6	46129.1	46253.0	-0.2	0.0	946

LOC65295	1	1.03E-11	68.952	GGRGDEAQS(1)DRAEDGAVR	3	-0.066917	9030.7	8575.4
Pcyt1a	0.736885	0.000463462	50.149	QS(0.001)PS(0.038)S(0.737)S(0.20	3	0.68853	1678.9	1156.0
Raph1	0.739632	3.70E-26	75.695	LTQADISEQPAMT(0.027)T(0.027)\	5	-0.82709	10173.9	11103.0
Luzp1	0.942899	0.00757495	55.261	KGS(0.943)LDY(0.057)LK	3	-0.43393	33958.0	32393.0
LOC68482	0.998008	3.45E-12	95.409	AS(0.998)GPPVS(0.002)ELITK	3	0.88152	9837.0	9479.6
Pcyt1a	0.748401	0.00472958	42.242	T(0.192)S(0.748)PS(0.048)S(0.007	2	0.53298	6912.9	7907.2
Pmfbp1	0.996115	0.00592458	70.908	RLS(0.996)S(0.004)AEK	3	-0.016447	8652.1	9484.4
Sbf2	0.674819	1.45E-14	121.53	LGLGT(0.318)IS(0.675)GS(0.005)S(	2	0.067438	10076.7	10264.7
Hspb1	0.991097	1.02E-21	121.93	S(0.991)PS(0.009)WEPFR	2	0.185	55847.2	54580.3
Ythdc1	1	0.00138125	66.56	GIS(1)PIVFDR	2	-0.27327	2477.0	2448.2
Canx	0.999833	2.59E-189	216.67	QKS(0.003)DAEEDGGT(0.997)GS(1	3	0.33893	2204906.5	2226079.0
Snrnp70	0.999998	6.31E-16	103.13	YDERPGPS(1)PLPHR	2	-1.0433	17849.6	19526.2
Bsg	0.992831	1.25E-15	94.717	GS(0.007)GS(0.993)HLNDKDK	3	-0.32095	258871.1	238173.1
Eml1	0.992819	0.000453218	96.946	RES(0.993)S(0.007)GDSK	2	0.15831	88803.3	65456.2
Nalcn	0.882087	1.20E-21	85.737	GKS(0.882)LET(0.024)LT(0.093)QC	3	2.1854	7536.8	7354.0
Tpm2	1	0.0281969	64.711	AEVAES(1)K	2	0.20812	68464.6	62411.2
Srrm1	0.983102	9.66E-12	101.53	S(0.814)VS(0.19)GS(0.983)PEPT(0.	2	0.90099	36007.0	36290.3
Palm3	0.898076	2.67E-08	105.66	EAECS(0.102)PET(0.898)EKK	3	-0.14155	35979.6	33714.8
Nefl	0.845043	0.00512937	86.332	VHIS(0.155)S(0.845)VR	2	0.2846	50684.1	49467.6
Plec	0.744704	4.87E-41	118.05	GYI(0.001)S(0.253)PYS(0.745)VS(	2	-0.055917	26960.5	28824.7
Tra2b	0.880622	0.00178337	53.211	S(0.125)GS(0.881)AHGS(0.994)GK	3	1.0088	32705.7	32240.5
Scn7a	0.683149	0.0073523	49.189	Y(0.683)KDQS(0.282)S(0.026)GT(C	3	0.16139	11455.3	12311.8
Mcoln1	0.787132	1.62E-10	64.565	GS(0.04)GS(0.787)T(0.173)CS(0.0	3	0.64209	12894.1	14972.9
Mllt3	0.854062	0.00544543	87.258	S(0.115)S(0.854)KDS(0.027)S(0.00	2	-0.16668	86515.8	81954.9
Spock2	1	0.0308857	43.635	IKQPS(1)LK	3	-0.20865	30337.0	41445.8
Wnk1	0.927742	0.00163171	54.09	S(0.928)GS(0.053)GS(0.018)GGAS	2	0.16065	5371.5	5061.2
Pdcd4	1	0.000325895	85.885	FVS(1)EGDGGR	2	0.13644	18954.1	20901.7
Rreb1	0.843345	8.81E-18	71.309	KLS(0.843)HDAES(0.157)EREDPGP	4	1.0156	34767.8	31017.5
Brsk1	0.536569	1.24E-09	56.819	SMEVLS(0.036)IT(0.537)DAGS(0.0	3	0.72012	1899.0	2293.5
Alkbh5	0.885048	1.96E-33	82.503	YQEDS(0.885)DPERS(0.114)DY(0.0	4	0.69005	109279.3	110569.0
C2cd2l	0.598775	4.11E-33	79.209	SDISERPSVDDVES(0.005)ET(0.221)	3	1.683	4518.5	5136.4
R3hdm1	0.814392	8.97E-21	103.01	STNSHQ(S(0.126)S(0.814)T(0.059)E	3	-0.36371	22922.1	26558.5
RGD13048	0.848996	3.00E-15	56.68	S(0.009)S(0.009)S(0.028)NES(0.84	3	-0.026001	6720.6	6444.6
Lpar1	0.820411	2.40E-09	80.738	NENPNGPT(0.18)EGS(0.82)DR	2	-0.37146	3848.3	3736.8

8777.3	7971.4	8902.4	6770.0	-0.2	0.2	44
1435.6	1357.1	1163.0	1307.0	-0.2	0.4	322
10782.7	10103.9	9479.2	9151.0	-0.2	0.0	1169
36884.5	31306.0	29429.4	31793.0	-0.2	0.1	261
10098.9	8746.3	8144.9	9474.3	-0.2	0.1	37;36;36
6946.7	6114.0	6586.2	6810.1	-0.2	0.1	343
9036.5	7832.6	8509.3	8015.2	-0.2	0.0	615
9450.6	8374.1	9243.0	9089.7	-0.2	0.0	1079
52410.2	48110.0	50148.3	47729.0	-0.2	0.0	13
2432.5	2332.8	2082.7	2181.1	-0.2	0.0	311
2130242.1	1947588.6	1838388.1	2096800.0	-0.2	0.0	563
16875.6	15213.5	16045.7	17384.0	-0.2	0.1	226
253289.0	209135.3	225729.6	237960.0	-0.2	0.1	257
78697.3	64311.3	83721.8	60902.0	-0.2	0.5	115
6822.8	6275.8	6748.1	6450.8	-0.2	0.0	781
71862.3	58139.5	63420.8	60277.0	-0.2	0.1	188
33740.6	30211.5	31959.9	32937.0	-0.2	0.0	690
34287.9	30198.3	31518.6	31553.0	-0.2	0.0	506
49543.1	42374.8	45710.2	46190.0	-0.2	0.0	28
28741.1	25540.0	24333.0	25947.0	-0.2	0.0	4619;4505;4476
33555.4	27316.4	31814.6	29229.0	-0.2	0.1	22
13548.6	10135.9	12015.8	11324.0	-0.2	0.2	805
13007.8	11695.9	12965.9	12010.0	-0.2	0.1	559
85923.0	72401.5	75103.2	80773.0	-0.2	0.0	30
30145.3	28905.8	31265.3	31304.0	-0.2	0.4	125
4790.3	3933.5	4467.9	5261.5	-0.2	0.3	181
17155.6	17038.4	16452.8	17678.0	-0.2	0.2	457
33528.8	28167.8	30747.0	30224.0	-0.2	0.1	93
2145.0	2042.1	1810.2	1836.0	-0.2	0.2	316
111766.1	88346.6	99616.8	109680.0	-0.2	0.1	65
4561.4	4354.9	3913.6	4491.9	-0.2	0.1	624;623
24839.2	21838.6	22508.8	22363.0	-0.2	0.1	303
6290.4	5608.4	6151.8	5709.7	-0.2	0.0	77
4122.2	3235.8	3405.7	3872.0	-0.2	0.1	341

Vasp	0.644518	3.18E-83	117.79	S(0.036)S(0.036)S(0.15)S(0.645)V	3	-0.59254	2090.9	2636.7
Ube3c	0.986603	4.94E-15	57.347	IGPLQSTLEVGLS(0.987)PPLS(0.00	3	1.09	11240.2	11926.8
Smim13	0.499999	2.59E-129	147.16	ELVGDTGSQEGDNEQPS(0.5)GS(0.!	4	-0.27153	27240.8	27354.9
Acot11	0.809717	4.36E-20	73.574	S(0.81)VS(0.187)HPES(0.003)GDA	3	-0.099151	6714.4	6677.9
Sipa111	0.830182	0.0128697	50.786	DS(0.112)S(0.83)PT(0.05)LAS(0.00	2	-0.34374	21197.5	20765.7
Rabl6	0.994289	5.93E-54	96.793	FPVREDLS(0.994)DVT(0.006)DEDT	5	0.25032	5257.6	5487.1
Clasrp	0.869195	2.72E-36	65.601	IT(0.002)FIT(0.031)S(0.097)FGGS(I	5	-0.15686	12459.9	14088.8
Bsg	0.499985	1.25E-15	57.934	KPDQTLDEDDPGAAPLKGS(0.5)GS(	5	-0.54738	27962.4	27189.2
Pak4	0.878162	1.44E-21	82.367	S(0.878)LVGT(0.103)PY(0.019)WM	3	-0.47081	12421.8	12160.4
Ap3b1	0.946472	1.07E-15	67.928	EDDGVEDNEKNFY(0.946)DS(0.054	3	0.70467	28351.2	28869.7
Dnm1	0.901621	1.60E-13	115.26	S(0.057)PT(0.061)S(0.902)S(0.916	3	-0.55134	3967.1	3657.7
Eef1d	0.916719	0.00263827	46.069	LEVRLS(0.917)T(0.083)LEK	3	-0.33196	5499.8	5308.7
Ttc7b	0.652142	5.10E-09	58.093	VEQALSEVAS(0.105)S(0.105)LQS(C	3	-1.1002	1330.2	1280.9
Stx1b	0.992681	1.25E-60	156.58	S(0.007)AKDS(0.993)DDEEEVVHVI	3	0.042577	233037.6	219185.5
Top2b	0.988909	6.43E-107	124.96	VKAS(0.989)PIT(0.011)NDGEDEFV	5	1.0183	50612.5	55047.6
Epb4111	0.603718	3.89E-08	52.359	CT(0.005)DPELVS(0.159)PDS(0.60	3	1.1909	14901.3	13238.7
Erich3	0.787351	1.84E-08	59.163	S(0.787)T(0.207)PPGPS(0.006)PTC	3	0.050243	16936.0	14999.2
R3hdm2	0.499999	1.73E-70	121.91	DS(0.5)S(0.5)QEYTDSTGIDLHEFLVI	4	-0.13626	22399.7	23614.4
R3hdm1	0.499999	1.73E-70	121.91	DS(0.5)S(0.5)QEYTDSTGIDLHEFLVI	4	-0.13626	22399.7	23614.4
Tcof1	0.996156	0.000297712	99.53	DS(0.004)AS(0.996)PVQK	3	1.5829	61221.4	55186.9
Rftn2	1	0.000229537	106.2	QGS(1)QDNCK	2	-0.54288	47951.7	32481.8
Leo1	1	7.03E-05	77.644	LQNS(1)ADEEEK	3	0.84196	21446.8	21280.1
Aqp1	0.827385	3.09E-33	92.886	VWT(0.173)S(0.827)GQVEEYDLDA	3	-0.63675	8720.2	8760.2
Shank2	0.663238	0.0500652	45.908	S(0.327)RS(0.663)PS(0.01)LNR	2	0.49455	5461.2	5276.5
Rbsn	0.64424	2.65E-06	44.74	DSLSTHT(0.001)S(0.004)PS(0.01)C	3	-0.7714	2494.0	3171.3
Dennd2a	0.761845	1.65E-91	123.24	NLPPLPSLPPPPPLPS(0.236)S(0.76	4	0.84368	8975.5	9062.7
Kat7	0.554265	6.72E-09	94.454	LS(0.35)QS(0.554)S(0.095)QDS(0.(	2	1.7647	13157.6	10237.8
Hmga1	0.737346	9.58E-27	81.157	KLEKEEEEGIS(0.1)QES(0.737)S(0.1	3	-0.17644	56596.2	50614.9
Taf12	0.999971	2.64E-13	113.48	LS(1)PENNVQLTK	3	0.89439	23296.6	24135.4
Ttc3	0.728022	6.38E-15	58.349	AS(0.005)QVS(0.728)PS(0.267)EQI	3	-0.025313	4612.1	3682.1
Shank3	1	0.0174411	43.308	KS(1)PEDKK	4	-0.72554	48870.0	52084.8
Ice1	0.994846	0.0113498	57.288	LDNES(0.995)PEPDT(0.005)R	2	1.3925	7231.2	7730.5
Dab1	0.878709	0.00094261	79.659	S(0.118)S(0.879)PQS(0.003)DKPR	2	0.98472	3596.0	3377.2
Lmnb2	0.968814	1.27E-71	106.3	TVLVNADGEEVAVQAAKPPS(0.969	4	-0.11425	33161.3	32589.3

2518.7	2371.1	2007.2	2129.6	-0.2	0.3	322
12491.4	11203.1	10340.0	10484.0	-0.2	0.1	672
27505.0	23789.9	24166.3	25784.0	-0.2	0.0	59
7396.7	5409.7	6170.5	7093.0	-0.2	0.3	10
17450.5	16420.2	16546.9	20405.0	-0.2	0.3	1752
4791.1	4781.6	4470.6	4704.0	-0.2	0.1	473
12421.2	11282.3	11551.0	12176.0	-0.2	0.1	335
28061.8	22867.1	24811.8	27082.0	-0.2	0.1	255
12482.9	10066.4	11719.8	11520.0	-0.2	0.1	476
30520.1	25309.0	24043.4	29491.0	-0.2	0.2	274
3134.5	3391.9	3450.4	2825.9	-0.2	0.3	777
5142.8	4414.0	5018.7	4901.9	-0.2	0.1	482;483
1384.9	925.8	1642.1	1023.4	-0.2	0.6	639
227993.1	193504.9	199376.9	218530.0	-0.2	0.1	14
53329.0	46213.7	49644.9	47070.0	-0.2	0.0	1387
16025.0	12917.9	13074.9	13714.0	-0.2	0.2	1180;1172
15457.5	13866.1	13631.6	15112.0	-0.2	0.1	737
22356.4	19435.2	20070.2	21970.0	-0.2	0.1	142
22356.4	19435.2	20070.2	21970.0	-0.2	0.1	97
49273.8	52938.9	52892.5	43145.0	-0.2	0.3	1340
45490.0	35166.8	46541.6	31528.0	-0.2	0.6	189
23210.3	19181.1	18782.5	21333.0	-0.2	0.1	190
8592.6	8007.5	7750.7	7690.3	-0.2	0.0	247
5091.1	4374.0	5198.1	4664.4	-0.2	0.1	96
2735.3	2620.4	2369.7	2565.5	-0.2	0.3	225
8968.8	7788.2	8324.3	8178.4	-0.2	0.0	301
13182.4	11181.1	10046.0	11676.0	-0.2	0.3	53
55369.9	50451.9	49127.7	46669.0	-0.2	0.1	102;91
26042.2	21646.1	21144.2	23303.0	-0.2	0.1	51
4012.6	3645.2	3842.7	3582.9	-0.2	0.2	1815
47757.7	45800.1	40386.2	47592.0	-0.2	0.1	1189
7856.8	6630.2	6754.0	7142.8	-0.2	0.0	1804
4069.4	2970.0	4066.4	2897.3	-0.2	0.4	400
35599.5	28538.5	28898.3	33740.0	-0.2	0.2	577

Rnf14	0.99949	2.78E-05	71.176	LTYHGVS(0.999)PCK	3	-0.36513	13361.6	14235.8
Tgoln2	0.957112	5.81E-53	126.96	T(0.041)ES(0.957)GEKLAGDS(0.00	5	-1.0043	168072.4	160445.7
Trpm7	0.794747	0.00249056	58.098	NAS(0.034)S(0.13)S(0.795)T(0.042	2	1.3089	7396.8	7603.0
Tjp1	0.616198	4.40E-11	48.18	VQIPVS(0.001)HPDPDPVS(0.616)C	4	0.39264	4262.8	5071.3
Psmid8	0.871288	0.026417	47.097	KS(0.871)PNLS(0.129)K	3	0.018887	51895.9	48745.8
Ranbp1	1	0.000290658	57.288	DEAEEKS(1)EEKQ	3	-0.28536	21337.0	20287.4
Map1b	0.968647	9.65E-12	101.39	SLMS(0.03)S(0.969)PEDLT(0.001)k	2	0.090151	69651.3	70394.5
Pank4	1	0.00596155	45.764	VRS(1)FDHPGK	3	-0.82468	12643.6	12781.3
Bcam	0.707224	4.05E-16	59.818	EPELS(0.006)HS(0.204)GS(0.707)E	4	-0.32677	10094.5	10425.5
Vim	1	0.00262952	78.516	FANY(1)IDK	2	-0.47527	15749.3	16126.8
Chd2	0.570129	0.000495263	42.314	LKDEHGLELS(0.57)S(0.43)PR	4	0.48629	2238.7	2680.3
Camk2g	0.737527	1.10E-39	119.8	GS(0.001)T(0.027)ES(0.738)CNT(0	3	0.14223	19579.0	21171.6
Dst	1	5.16E-07	92.99	RPSSGNAS(1)YR	3	-1.0248	13030.0	12425.9
Pml	0.959113	1.09E-53	94.802	LSTS(0.04)S(0.959)PEQPRPSTSK	3	-0.023111	81361.0	69769.3
LOC67908	0.806206	1.10E-10	59.733	YPADEDFRT(0.806)S(0.194)QEDLR	3	2.1841	62207.8	64493.1
Grsf1	0.999797	0.00189791	82.287	THVGS(1)HK	3	-0.27852	24310.4	30255.1
Potef	0.999359	2.02E-11	66.636	S(0.999)YELPDGQVITIGNER	3	-0.2047	12672.2	12695.7
Atp8a1	0.686272	4.20E-12	66.732	T(0.314)S(0.686)LADQEEVR	2	-1.9613	12471.8	12382.0
Ccser2	0.999776	1.09E-14	85.362	SSSGESLAQS(1)PDNAK	2	0.38369	5987.7	5014.5
Map1b	0.999757	0.000305503	86.344	ESVAS(1)GDDR	2	0.99148	32640.1	29848.1
Naf1	1	3.54E-27	85.376	NDQPEPPEALDFS(1)DDEKEK	5	1.6613	126674.5	128942.3
Map1b	0.970556	1.04E-151	182.41	QGVDDIEKFEDEGAGFEES(0.971)S(	3	-1.9996	555609.7	532881.2
Eif3b	0.999266	7.98E-81	169.77	AEEEGGS(0.999)DGS(0.001)AAEAI	3	0.5073	55670.7	52781.3
Prph	0.842438	0.000270889	87.123	SSIS(0.001)S(0.008)T(0.06)S(0.842	2	-1.1241	24051.6	20319.3
Ahnak2	0.878137	5.25E-21	74.859	GEVRS(0.122)PDLEVT(0.878)LPGV	3	-1.502	45219.2	41581.8
Lbr	0.888884	4.02E-05	66.708	KSGS(0.001)T(0.003)S(0.014)S(0.0	3	0.045005	17058.9	16973.7
Prkd3	0.994557	6.85E-44	160.37	S(0.995)VVGT(0.005)PAYLAPEVLR	2	-1.5785	52176.1	55201.1
Sik3	0.927236	2.63E-43	135.26	T(0.927)WCGS(0.073)PPYAAPELFE	3	0.54719	50366.9	46125.3
Nop58	0.98908	0.0174598	53.756	KIS(0.989)GT(0.011)GK	3	-0.10356	43828.6	37384.0
Inpp5j	0.9971	0.00412383	53.947	S(0.997)PGLLS(0.002)PT(0.001)FR	2	1.4429	9343.3	11052.5
Ap3b1	0.594518	0.00327203	63.624	S(0.595)AS(0.405)EDREK	3	-0.021355	21665.0	20288.5
Foxn3	0.621585	9.54E-07	43.696	S(0.085)VS(0.269)PVQDLDDDT(0.6	3	1.3964	6350.7	5788.6
Rps2	0.979431	7.48E-19	98.508	S(0.979)PYQEFT(0.02)DHLVK	3	0.65703	25597.3	25408.9
Kmt2a	0.938134	0.00265726	50.102	S(0.938)PT(0.053)VPS(0.007)QNS(	2	0.7474	3421.0	3579.2

12683.1	11897.2	12087.4	12254.0	-0.2	0.0	227
154692.5	139474.9	137630.6	157620.0	-0.2	0.1	214
7612.2	6300.5	7365.1	6680.2	-0.2	0.1	554
5426.1	4955.0	3905.5	4420.4	-0.2	0.3	271
44473.3	42366.0	45292.3	42914.0	-0.2	0.1	109
22865.3	18390.2	18350.8	21287.0	-0.2	0.2	199
72568.1	62849.5	62648.2	65820.0	-0.2	0.0	825;699
11446.0	11237.2	11066.9	10876.0	-0.2	0.0	63
11071.2	8876.0	9569.5	9984.1	-0.2	0.1	596
18568.4	14542.6	14709.9	16145.0	-0.2	0.2	117
2537.6	1965.6	2299.5	2445.5	-0.2	0.3	1341
19929.0	17434.4	18688.4	18488.0	-0.2	0.0	405;394;382
12107.1	10064.3	11668.5	12075.0	-0.2	0.1	145
75670.5	70175.2	66361.7	67595.0	-0.2	0.1	591
61060.4	54025.6	54906.9	60069.0	-0.2	0.0	673
23355.1	23841.6	20803.3	25493.0	-0.2	0.4	217
13528.4	11285.6	11476.2	12254.0	-0.2	0.0	239;241
12193.3	9789.4	12585.4	10985.0	-0.2	0.2	74
6097.5	5353.2	5100.1	4945.2	-0.2	0.2	205
33411.7	26947.9	27901.2	31518.0	-0.2	0.1	988;862
135486.3	113592.8	109322.3	129320.0	-0.2	0.1	280
619344.8	502120.6	459442.1	576600.0	-0.2	0.3	929;803
48834.1	47401.7	47122.9	47137.0	-0.2	0.1	114
22896.2	19787.2	20032.8	20779.0	-0.2	0.1	22
49834.8	40380.6	38861.2	43852.0	-0.2	0.2	602;602
14895.4	14115.8	14872.3	15092.0	-0.2	0.1	71
51734.1	45235.8	48075.1	50049.0	-0.2	0.0	735;748
48323.0	42565.1	41068.0	46851.0	-0.2	0.1	221
37671.3	33917.3	33743.5	39463.0	-0.2	0.2	344
9436.9	8112.9	8908.0	9861.3	-0.2	0.3	313
22423.5	19797.1	18968.4	19247.0	-0.2	0.0	754
6238.3	5844.4	4973.4	5744.4	-0.2	0.1	94
25309.7	22420.5	20607.7	25750.0	-0.2	0.2	264
3619.7	2957.7	3401.4	3213.1	-0.1	0.1	2895



Mycbp2	0.753746	5.28E-17	99.055	S(0.003)KS(0.065)DS(0.754)Y(0.00	2	-0.12397	14468.4	14326.8
Dock6	0.644317	6.96E-22	74.876	TGPEDVDDS(0.302)QHCS(0.046)G	3	-0.36598	6361.9	6513.9
Prkce	0.999877	1.05E-36	106.47	ASSSTDGQLAS(1)PGENGEVR	3	-1.5586	8489.0	7591.7
Slc5a7	0.883016	8.73E-06	66.331	QS(0.115)LT(0.883)LS(0.001)S(0.0	3	1.8672	5419.4	5652.8
Taf10	0.898221	1.57E-70	120.47	AS(0.898)PAGT(0.102)AGGPGAGV	3	-0.43155	14485.1	14435.4
LOC10091	0.543577	5.56E-18	73.675	GS(0.544)S(0.456)QLDVNEEVEALI'	3	0.94633	6357.0	5683.7
Srsf3	1	0.0280412	42.19	S(1)RS(1)NERK	3	-0.20426	11045.0	10703.6
Srsf3	1	0.0280412	42.19	S(1)RS(1)NERK	3	-0.20426	11045.0	10703.6
Thrap3	0.999997	9.30E-71	100.59	WAHDKFS(1)GEEGEIEDDES(0.945)	5	-1.5184	50693.6	52716.6
Ermn	0.999927	1.13E-20	101.28	EGS(1)PLKEESLAR	2	-1.0774	74356.4	78199.1
Bckdha	0.982162	0.00406463	60.901	S(0.982)VDEVNY(0.018)WDK	2	-3.0844	7396.0	7664.1
Fxr1	0.940739	2.13E-84	136.44	GPNYTSGYGTNSELS(0.005)NPS(0.!	3	0.5333	24948.5	25541.7
Rnft2	0.881588	7.64E-06	41.475	S(0.037)QALS(0.882)PEAS(0.08)VL	3	2.3957	6553.7	7769.4
Apc	0.927982	3.26E-18	70.501	QS(0.001)VGS(0.063)GS(0.928)PV	3	1.5565	14406.4	13748.7
Shank2	0.882767	8.97E-05	47.037	QGIAMVT(0.072)PT(0.883)VPGS(C	3	0.33462	7277.6	7729.8
Isl2	0.510421	3.53E-14	69.172	ASLQGLT(0.144)GT(0.51)PLVAGS(I	3	0.22813	16761.9	15241.6
Abcc5	0.956947	0.00183192	71.176	EAS(0.043)GS(0.957)QK	2	-0.18847	71849.4	65152.4
Fryl	0.998218	0.000109942	65.179	Y(0.002)GGQHS(0.998)AAGR	3	0.26194	7161.6	6546.1
Pura	1	0.0111755	79.596	IRQT(1)VNR	2	-0.41519	15893.6	17132.7
Otud7a	0.67289	1.64E-55	136.96	KGS(0.067)KEES(0.26)GAS(0.673)/	4	0.62357	22138.5	19956.2
Nefl	0.876811	2.27E-24	96.55	SAYSSYSAPVS(0.007)S(0.024)S(0.0	2	-0.045906	60319.8	65276.3
Gmcl1	0.999875	1.06E-18	69.98	RS(1)DAGEDAAHGFCYCPGGR	3	0.090997	12432.5	12621.1
Mlec	0.995723	2.62E-06	48.077	KEEEEEEEY(0.004)DEGS(0.996)NI	4	1.2595	12634.1	13973.6
Ralgapb	0.611623	8.55E-112	153.39	VQHQAS(0.006)S(0.045)T(0.34)S(C	4	-1.1968	4304.1	4310.2
Ralgapb	0.780762	8.55E-112	153.39	VQHQAS(0.006)S(0.045)T(0.34)S(C	4	-1.1968	4304.1	4310.2
Scn11a	0.622763	2.04E-30	84.169	KKS(0.623)DAVS(0.376)MLS(0.001	4	-0.27689	3822.9	3758.2
Fam189b	0.581712	0.000129178	40.098	RFS(0.582)DS(0.228)S(0.129)GS(0.	4	3.3808	10470.3	10724.0
LOC10035	1	0.000226303	112.04	EDHS(1)LEHR	3	0.71967	33330.6	30946.2
Gripap1	0.785874	1.70E-20	103.73	TQTGDS(0.002)S(0.197)S(0.786)V!	2	0.3056	12569.6	11636.1
Srp72	0.999614	2.20E-21	79.489	VDVEALENS(1)PGATYIR	3	0.67637	4773.3	4783.4
Tle3	1	8.18E-26	109.5	VS(1)PAHS(1)PPENGLDK	3	-1.55	52325.2	52582.8
R3hdm1	0.822446	1.73E-70	121.91	DS(0.167)S(0.822)QEYT(0.01)DSTC	3	-0.73267	37459.7	39883.8
Elac2	1	0.0016676	58.116	RS(1)PNRLS(1)PK	4	-0.21908	23320.5	20939.0
Nucks1	1	4.34E-139	200.99	KDDSHSAEDS(1)EDEKDDHK	5	0.079875	544744.4	523129.7

15643.8	12732.0	12555.5	14768.0	-0.1	0.2	2948
6070.1	6260.3	4740.6	6077.7	-0.1	0.3	178
9962.0	7693.7	7288.3	8498.1	-0.1	0.3	388
6279.9	4726.1	5142.1	5776.5	-0.1	0.2	447
16605.2	12778.2	14771.9	13497.0	-0.1	0.2	44
5319.0	4751.5	4574.3	6326.2	-0.1	0.4	63
11485.4	9719.6	9504.3	10742.0	-0.1	0.1	158
11485.4	9719.6	9504.3	10742.0	-0.1	0.1	160
56061.9	47201.5	45273.1	51320.0	-0.1	0.1	924
90643.6	69185.3	76573.7	73545.0	-0.1	0.2	212
7777.5	6740.9	6230.8	7624.4	-0.1	0.2	348
25742.0	22301.7	22375.3	24076.0	-0.1	0.0	438
7028.7	6361.3	6183.3	6712.5	-0.1	0.1	35
14122.5	12589.0	11850.2	13691.0	-0.1	0.1	2609
6191.1	6398.8	6716.9	6004.0	-0.1	0.2	449;146
15544.8	14440.3	13669.0	14778.0	-0.1	0.1	273
78920.8	60560.5	70851.1	63374.0	-0.1	0.2	803
7214.4	6293.7	6470.2	6110.9	-0.1	0.0	2329
15736.5	13678.0	15033.7	15282.0	-0.1	0.1	170;152
17600.7	17234.2	18633.9	17989.0	-0.1	0.2	587
61008.2	55468.8	57672.6	55226.0	-0.1	0.0	52
12714.0	11375.8	11637.5	11064.0	-0.1	0.0	31
13195.2	11573.8	12983.0	11357.0	-0.1	0.1	242
4390.9	3801.2	3609.8	4323.6	-0.1	0.1	351
4390.9	3801.2	3609.8	4323.6	-0.1	0.1	355
3960.6	3300.9	3666.8	3446.8	-0.1	0.0	962
10355.1	8634.0	9919.3	9915.7	-0.1	0.1	464
29889.8	28989.4	26563.3	29423.0	-0.1	0.1	10
12323.2	11122.8	10161.5	11682.0	-0.1	0.1	662
4995.5	4266.3	4503.2	4363.6	-0.1	0.0	460
50573.7	41522.4	47424.3	51375.0	-0.1	0.2	262
39290.6	34046.0	33513.7	37705.0	-0.1	0.1	98
20686.0	18674.0	18880.8	21063.0	-0.1	0.1	202
528967.4	468428.8	459367.3	513500.0	-0.1	0.0	79

Btf3	0.941452	6.31E-59	119.75	QLTEMLPSILNQLGADS(0.941)LT(0	3	0.24615	7225.3	7008.5
Rap1b	1	3.05E-18	137.84	YDPTIEDS(1)YRK	3	-1.2581	40497.4	41245.1
Sntb2	0.652037	1.96E-08	42.735	KPSLVSDLPWEGAS(0.021)PQS(0.0	6	0.1989	15899.6	15204.3
Map1b	0.999806	1.23E-58	95.198	VLS(1)PLRS(0.999)PPLIGS(0.001)E	4	-0.48628	7711.5	8008.2
Ahnak2	0.770997	3.59E-09	45.558	VEGEVVLPS(0.771)VQGDLKT(0.21	4	-0.37684	4151.1	3270.9
Ahnak2	0.770997	2.32E-24	63.203	VEGEVVLPS(0.771)VQGDLKT(0.21	4	-0.37684	4151.1	3270.9
Ncor1	0.981038	4.42E-37	140.77	YS(0.981)PES(0.019)QSQTVLHPR	3	-1.1758	8491.0	8177.9
LOC50068	0.999972	0.00079059	72.34	YTEQDRS(1)PR	2	-0.72213	6276.0	6809.2
Ttc39b	0.92343	0.00104653	47.774	RYS(0.923)PS(0.057)S(0.02)GVPGR	3	0.61833	9177.3	8889.8
Fam117a	0.601973	3.49E-06	40.177	VS(0.005)LPS(0.31)LPAGS(0.084)P	4	-0.044492	1085.0	976.6
Ppig	0.922234	0.00868751	45.433	S(0.922)NEHDHS(0.078)K	3	-0.44687	2090.1	1672.5
Rps3	0.553426	1.65E-08	69.261	DEILPT(0.553)T(0.442)PIS(0.005)E	3	0.6231	6779.2	6460.7
LOC69138	0.757274	7.12E-59	96.707	QDS(0.757)NRS(0.203)EKET(0.02)	4	-0.43086	13044.3	12048.5
Itga6	0.994871	0.000329742	73.951	DHYDAT(0.995)Y(0.005)HK	3	-1.4571	21009.0	21702.5
Arhgef11	0.987651	0.000124756	44.341	LS(0.007)VDS(0.988)QEADS(0.005	2	0.16878	9596.8	9718.6
Picalm	0.984218	3.33E-08	60.325	IT(0.001)AAQHS(0.984)VT(0.014)C	3	-2.1705	27740.5	27278.1
Alg2	0.657689	2.86E-09	54.622	S(0.658)RVY(0.001)S(0.293)PS(0.0	4	1.3182	6184.5	6247.8
Fbxo31	0.610673	1.37E-10	48.118	RGPAET(0.002)AAADS(0.611)EAD	4	0.95536	2718.4	2396.9
Asic1	1	2.83E-06	81.565	GVALS(1)LDDVKR	3	-0.54916	8589.1	9231.3
Srgap2	0.9239	8.66E-06	51.495	S(0.031)S(0.031)PKS(0.014)EIEVM	3	-1.1802	18089.4	16212.4
Ccsap	1	0.00106256	81.017	AHS(1)VDVEK	2	0.7465	25498.3	23721.9
Sgsm1	0.855899	5.49E-17	70.058	DS(0.061)T(0.856)IS(0.078)NES(0.1	3	0.10947	10409.6	9554.5
Rps3	1	3.91E-05	49.595	KPLPDHVS(1)IVEPK	4	0.43394	7915.2	8124.1
LOC10368	0.999773	2.41E-08	104.7	SNS(1)LEDEEGR	2	-1.2882	10987.7	10879.4
Fam189a2	0.735912	1.38E-06	57.053	S(0.257)KS(0.736)DPMLHHS(0.007	4	0.15744	25032.0	23831.6
Arhgap12	0.982782	0.0370713	48.157	S(0.017)RS(0.983)LDRR	2	1.1701	3045.6	2856.0
Lsm12	0.988691	4.17E-31	130.47	T(0.011)ET(0.989)PPPLASLNVSK	2	0.39615	139376.5	134821.8
Hbs1l	0.666042	8.25E-24	65.244	DNPEEEY(0.001)GY(0.012)EDLKES	4	-0.17748	3730.5	3632.3
Tp53bp1	1	0.0105188	96.342	LNT(1)PEEK	3	0.55199	70894.1	70885.9
Chgb	1	1.74E-32	136.43	VDNEEWTTGGGGHS(1)R	2	-0.11184	39690.0	38448.0
Canx	0.992334	1.84E-59	122.47	QKS(0.992)DAEEDGGT(0.275)GS(C	6	-0.44198	209398.7	215521.8
Fam21c	0.647846	3.91E-53	92.563	GPVT(0.001)QLS(0.062)S(0.289)S(	3	-1.1607	6711.1	7421.8
Traf3ip1	0.991447	0.00499197	88.136	S(0.004)S(0.004)S(0.991)AEHK	2	-0.35697	14807.1	14003.2
Nek1	0.647242	1.02E-16	73.294	EVNPS(0.001)AT(0.014)VDT(0.222	2	1.0153	5814.1	5874.0

6969.1	6308.7	6290.1	6538.8	-0.1	0.0	114
42405.8	36736.5	35266.3	40057.0	-0.1	0.1	39;39
15849.3	14072.9	14081.5	14231.0	-0.1	0.0	215
8790.3	6616.0	7716.4	7794.2	-0.1	0.2	1389;1263
4428.9	2980.9	3773.5	3944.1	-0.1	0.4	1191
4428.9	2980.9	3773.5	3944.1	-0.1	0.4	1184
8788.3	6959.7	8424.3	7598.3	-0.1	0.1	2077
6184.2	5610.8	5547.2	6238.7	-0.1	0.1	32
8821.0	7323.6	8858.3	8093.8	-0.1	0.1	459
797.2	982.1	720.5	878.7	-0.1	0.5	175
2095.7	1514.5	1817.3	1957.9	-0.1	0.4	526
6943.4	6137.7	6108.6	5978.9	-0.1	0.0	220
11968.7	11013.9	13328.1	9127.0	-0.1	0.4	616
16031.4	15629.3	18122.1	19303.0	-0.1	0.4	1053
9573.6	8265.9	9307.9	8520.8	-0.1	0.0	257;256
23894.8	22123.5	24802.2	24358.0	-0.1	0.2	16
5603.5	5060.7	5350.4	5881.6	-0.1	0.1	10
2290.9	2055.6	2281.3	2354.1	-0.1	0.2	33
8053.8	7849.3	8222.1	7309.5	-0.1	0.1	485
18107.4	15442.3	15817.0	16100.0	-0.1	0.1	652
22770.6	21414.0	22097.4	21544.0	-0.1	0.0	222
9313.5	8508.2	9861.4	8090.1	-0.1	0.2	647
7793.3	6689.0	7192.2	7657.7	-0.1	0.1	209
9964.0	8922.4	9217.9	10628.0	-0.1	0.2	1088
25008.4	22170.8	22549.5	22049.0	-0.1	0.0	418
2618.6	2409.5	2875.1	2417.3	-0.1	0.2	356
139404.2	122953.5	116236.4	134690.0	-0.1	0.1	75
3012.5	3010.4	3125.0	3243.6	-0.1	0.2	63
72457.4	63691.0	61702.4	68274.0	-0.1	0.0	805
40161.5	35741.0	33784.1	37421.0	-0.1	0.0	129
202175.5	181174.4	183422.0	202330.0	-0.1	0.1	553
7335.2	6271.0	6033.8	7103.9	-0.1	0.2	1060;1026
13502.9	12149.1	12916.7	13189.0	-0.1	0.1	177
5981.2	5230.7	5438.5	5305.5	-0.1	0.0	824

Emcn	0.880213	2.82E-31	86.791	DPGTPES(0.001)GNDQPQS(0.88)D	3	0.49285	16766.7	16353.9
Vcpip1	0.519239	5.34E-21	74.516	DGPS(0.519)S(0.519)APAT(0.935)I	2	0.3891	3496.0	3133.3
Ccdc136	0.621608	2.45E-05	66.393	EGS(0.377)LGS(0.622)LS(0.001)VC	3	-0.14578	2879.0	2635.4
Eef2k	0.97631	0.000443469	62.528	LLQS(0.024)AKT(0.976)ILR	3	-0.05094	6682.0	5842.5
Kdm3b	0.925133	6.56E-15	86.405	RKS(0.925)AS(0.045)DS(0.029)GCI	4	-0.2555	25687.9	23914.9
RGD15611	0.741695	2.38E-23	65.058	VT(0.117)S(0.117)LRS(0.742)PGAS	4	0.50604	8370.5	7277.2
Ssfa2	0.70031	5.24E-12	68.639	S(0.7)LT(0.15)S(0.15)FEEAQSGM	2	-0.027781	14089.1	14686.6
Zranb2	0.999998	8.79E-31	125.73	YNLDAS(1)EEEDSNKKK	4	0.38602	206751.0	203741.0
Sec62	0.817341	0.000117389	61.409	SDSEKS(0.817)DS(0.182)EK	3	0.14563	25324.2	28349.8
Dst	0.856186	0.0040209	50.09	T(0.102)S(0.042)S(0.856)PRPQER	3	0.74263	5658.2	4798.5
Atp1a2	0.99999	9.84E-18	136.24	CIELSCGS(1)VR	3	-0.69085	68439.5	64449.2
Plcd3	0.983628	1.64E-48	86.552	S(0.016)PEEPRVS(0.984)AQVAAPL	4	1.8702	4762.2	4342.4
Chd7	0.999716	0.000586241	42.149	NIPS(1)PGQLDPDTR	3	-1.6068	3636.8	3514.8
Anks1a	0.672786	4.57E-43	91.599	S(0.042)LS(0.178)KS(0.673)DS(0.1	4	-0.18563	20029.9	20520.0
Arhgef26	0.910631	0.00762851	47.606	S(0.911)T(0.089)PPLQLLGR	2	-0.024237	5637.9	6820.3
Zc3h13	0.758972	0.00197619	57.149	VLHS(0.241)GS(0.759)RDR	3	0.40634	11735.8	9868.4
Nudt9	0.859021	0.00277853	79.201	T(0.859)S(0.137)PYPGS(0.004)K	2	-0.63735	29837.3	24057.5
LOC10036	0.978533	2.09E-06	43.09	S(0.021)AGDAS(0.979)HEGGGGG/	3	-0.37482	3460.1	3025.7
Pip5k1c	0.738795	0.000904093	63.091	S(0.739)PS(0.122)DT(0.018)S(0.12	2	-0.18986	4453.3	4159.6
Borcs6	1	5.41E-67	104.61	RGS(1)PGGVEMNVELPQQEGDDDI	4	0.62884	64549.0	57755.9
Atxn2l	0.850165	0.000990914	78.488	EIES(0.15)S(0.85)PQYR	2	-0.11949	6881.5	7104.6
Safb	0.764954	0.0131949	49.28	KT(0.765)DDGS(0.172)T(0.063)EK	3	-0.30729	19811.6	17521.0
Arhgap20	0.553768	0.0276512	41.577	KS(0.554)S(0.414)CDAVLS(0.032)R	2	-0.023859	7177.9	7713.1
LOC69114	0.721626	8.23E-17	68.675	NPS(0.722)PPPPS(0.278)CDQEDEE	3	-0.39176	7611.6	7313.7
Rras2	1	0.00957682	77.192	DGS(1)GQEK	2	-0.97933	11062.3	9914.8
Dab1	0.863578	1.35E-05	92.19	S(0.864)S(0.136)PQSDKPR	3	0.88443	12598.3	13735.6
Cgn	0.935499	5.25E-09	96.334	S(0.032)T(0.032)S(0.935)LLELAPQ	3	-0.18301	6975.4	8879.9
Cul9	1	5.62E-06	46.249	AEAEPAGAKPES(1)PK	3	-0.41101	8764.3	7979.6
Ddx3x	0.734807	1.09E-06	71.506	SSFFGDRGS(0.735)GS(0.265)R	2	-1.001	7106.9	7570.4
Srgap3	0.82899	1.73E-12	69.379	ADS(0.002)EAS(0.169)S(0.829)GPI	3	0.16267	22650.2	21966.8
Srsf5	0.948667	0.00108404	76.073	S(0.013)KS(0.949)PAS(0.038)VDR	2	-0.48415	28406.0	26056.1
Srrm2	0.773115	0.0318523	51.436	S(0.025)NS(0.202)S(0.773)PEMK	2	0.47485	8875.4	8874.2
Card9	1	7.26E-48	117.37	GVLADRES(1)PEQPFVVLNK	3	1.3484	22160.0	22603.0
Ints3	0.774378	1.02E-17	69.979	EKFPEFCS(0.044)S(0.774)PS(0.182	4	-0.050619	15501.3	15772.5

20087.7	15620.5	15570.1	16918.0	-0.1	0.2	222
3811.1	2988.6	3347.7	3103.8	-0.1	0.2	755
2579.7	2146.2	2540.6	2632.3	-0.1	0.2	154
4513.0	4875.1	5875.2	4655.9	-0.1	0.5	347
24260.0	21002.6	22496.0	23298.0	-0.1	0.1	275
7788.4	7003.1	7458.5	6732.6	-0.1	0.1	573
14617.5	14074.0	12234.9	12934.0	-0.1	0.1	665
215771.0	178930.4	180184.0	207260.0	-0.1	0.1	188
27282.5	24541.2	20865.3	27813.0	-0.1	0.3	313
5755.7	5268.0	4504.1	4891.0	-0.1	0.2	3167;3230
71373.6	60249.2	60911.6	63596.0	-0.1	0.0	464
4430.1	4412.5	3784.5	4045.4	-0.1	0.1	19
3255.2	2747.8	3726.8	2938.7	-0.1	0.4	2546
19538.3	18865.4	18316.6	17175.0	-0.1	0.0	83
6099.5	5798.0	5665.4	5325.0	-0.1	0.2	22
9977.6	9838.4	9321.1	9412.9	-0.1	0.2	1295
24335.6	22657.0	23371.2	24748.0	-0.1	0.3	17
3614.0	2807.8	3229.8	3100.7	-0.1	0.2	16
4745.6	4059.8	3980.4	4046.7	-0.1	0.1	538
70682.6	56511.5	57692.9	60415.0	-0.1	0.2	130
6020.7	6141.6	6182.9	5779.1	-0.1	0.1	304
21155.5	17293.6	16965.8	18665.0	-0.1	0.2	551
7239.1	6869.8	6913.7	6241.6	-0.1	0.1	729
7143.9	6354.6	6328.7	7286.8	-0.1	0.1	6
11227.7	8305.6	10491.8	10346.0	-0.1	0.3	10
13497.5	12363.5	12623.9	11062.0	-0.1	0.1	399
6808.8	6253.4	7276.8	6983.1	-0.1	0.4	150
9206.4	8248.8	6769.9	8469.2	-0.1	0.3	624
6481.5	6090.0	6230.6	6830.6	-0.1	0.2	89
21809.2	19117.3	20114.0	20901.0	-0.1	0.0	797
28385.5	23366.4	26580.4	25053.0	-0.1	0.1	247
8557.9	7608.1	8498.9	7708.5	-0.1	0.1	743
24827.5	19677.2	21080.1	22244.0	-0.1	0.1	461
16136.8	13755.0	14582.7	14584.0	-0.1	0.0	498

Ivns1abp	0.611068	0.000135274	59.709	NS(0.835)PQS(0.402)S(0.611)PT(0	3	-0.22787	59444.3	59751.1
Cacna1a	0.870694	3.49E-22	74.444	QGS(0.001)S(0.002)S(0.007)VS(0.1	3	0.43653	3350.2	3005.8
Scn1a	0.899091	6.96E-22	84.166	EPSAAGRLS(0.899)DS(0.053)S(0.0	3	0.59025	10745.0	11958.6
Cad	0.546759	0.000542416	94.66	RLS(0.453)S(0.547)FVTK	3	-1.3655	6842.3	4415.5
Plec	0.990425	3.95E-64	147.28	GYSPYS(0.001)VS(0.99)GS(0.008)	2	-0.20332	41579.2	45274.1
Pom121	0.710922	0.0518558	54.611	GLS(0.289)S(0.711)FVR	2	0.30587	3856.8	4824.7
Map2	0.995211	6.01E-22	74.905	DGS(0.995)PDAPAT(0.992)PEKEEV	4	0.38405	49177.8	48177.6
Ahnak	1	3.02E-05	69.92	GPELDVKS(1)PK	2	1.2655	95381.0	86137.4
Zfhx3	0.999674	1.89E-09	60.171	ASQTPVPQGPAS(1)PDKDPAK	3	0.84488	43803.5	40639.6
Camk1	0.615388	4.87E-20	60.288	LQLGTS(0.001)QEGQGQT(0.16)AS	4	0.59102	4513.2	4599.9
Slc4a4	0.990958	9.81E-19	73.296	IPFLES(0.991)LGLPS(0.008)PPRS(0	3	0.76549	4304.9	2647.5
Ptdss1	0.766605	3.66E-29	89.468	TYSECEDGT(0.026)Y(0.767)S(0.20	3	0.034352	28840.2	26091.2
LOC68570	0.662915	5.45E-54	99.064	SASSYSDIEEIAT(0.018)PDS(0.08)S(	5	0.24855	18929.0	20516.7
Arhgap32	0.995167	8.38E-30	115.87	LSPFFTLDLS(0.995)PT(0.005)EDK	3	0.022825	15444.0	16015.0
Rps8	1	0.00034749	58.32	LT(1)PEEEIILNK	2	-1.4375	15943.7	15872.4
Rbms3	1	0.0116862	57.59	KRQS(1)QNK	3	0.05342	19723.3	23363.2
Ybx1	0.963636	5.93E-119	156.47	NYQQNYQNS(0.964)ES(0.036)GEK	4	-0.096777	29149.1	29152.7
Scyl3	0.958723	2.16E-27	81.904	T(0.021)S(0.021)DLS(0.959)PEGS(	3	-0.035044	10258.2	9713.0
LOC10368	0.621722	1.58E-10	88.385	GS(0.622)GGGQGS(0.357)T(0.019	3	1.0471	13273.3	13104.8
Iws1	0.699402	2.34E-15	54.466	ISDSES(0.002)EDPPRPQVS(0.699)I	4	-0.055004	7059.4	8064.4
Pex14	0.999869	1.60E-10	88.311	DGHS(1)PEGSTATYR	3	1.1711	18603.4	19875.0
Tnks1bp1	0.765284	9.43E-15	68.639	NLS(0.001)GGY(0.042)S(0.191)S(0	3	1.2831	16845.4	14689.9
Hrc	0.963259	2.39E-05	43.768	EEDEDFS(0.963)REY(0.037)GHQVC	4	-1.628	10449.1	14042.7
Specc1	0.724266	2.10E-39	91.541	GS(0.001)PT(0.011)GS(0.165)S(0.7	3	-0.024333	13571.5	12044.1
Zfc3h1	0.804257	7.32E-15	78.244	S(0.804)FLES(0.172)NS(0.023)FTKI	4	0.3655	5534.7	5474.3
Sgip1	0.823559	3.46E-58	103.42	T(0.002)VVS(0.174)S(0.824)PGPG	3	-0.18444	7238.5	7020.1
Htatsf1	0.999999	3.54E-33	112.58	VFDDS(1)DEKEDEEDTDVR	3	-1.5851	124527.7	123446.8
Rab3ip	0.506443	1.83E-06	44.848	T(0.003)LVLS(0.124)S(0.506)S(0.1	4	0.19132	1606.8	1542.8
L1cam	0.78829	4.78E-09	61.265	DETFGEY(0.025)RS(0.788)LES(0.1	3	0.53004	8900.3	10470.3
Tpcn1	0.761916	0.00379932	61.577	T(0.047)KS(0.191)DLS(0.762)LK	3	-0.4986	31388.9	27671.9
Gigyf1	1	0.00875014	102.51	GLPLS(1)PR	2	-0.39301	5011.0	4381.8
Stard13	0.76168	0.000863015	65.241	DS(0.019)GVGAS(0.762)LT(0.22)R	2	0.88841	24781.5	26858.0
Stard8	0.76168	0.000863015	65.241	DS(0.019)GVGAS(0.762)LT(0.22)R	2	0.88841	24781.5	26858.0
Arhgap20	0.567569	6.28E-08	89.507	S(0.428)S(0.568)EPS(0.004)IDYLD	3	1.2499	5353.9	5259.5



59611.4	52179.9	54842.8	54865.0	-0.1	0.0	326
3603.3	2899.1	3241.7	2876.3	-0.1	0.2	2110
10334.8	10220.2	10248.1	9447.3	-0.1	0.1	480
5449.3	5070.2	5516.4	4542.4	-0.1	0.5	1407
43959.1	37661.5	39035.4	41767.0	-0.1	0.1	4621;4507;4478
4489.1	3557.6	4122.5	4247.6	-0.1	0.3	83
44218.8	42663.0	41905.8	43648.0	-0.1	0.0	1435;1349
93489.4	81329.9	80685.8	87063.0	-0.1	0.1	2134
39363.0	38406.2	37579.9	36155.0	-0.1	0.1	3418
4712.0	4289.5	4274.9	3960.0	-0.1	0.0	339
3528.1	3344.4	2850.7	3300.0	-0.1	0.6	1055
27903.2	25387.1	24319.1	25350.0	-0.1	0.0	424
19901.4	18061.3	17864.5	17853.0	-0.1	0.0	1520
14176.8	14121.3	13754.5	13479.0	-0.1	0.1	522
15980.3	14006.9	13964.0	15342.0	-0.1	0.0	130
20236.7	18291.2	19728.2	19364.0	-0.1	0.2	227
28988.1	26061.3	25482.9	27558.0	-0.1	0.0	163
10042.6	8997.0	9329.2	8872.4	-0.1	0.0	435
14355.6	12549.4	11407.8	12956.0	-0.1	0.1	260
7583.8	6704.7	6748.8	7124.9	-0.1	0.1	209;209
17598.5	15565.5	18231.1	17024.0	-0.1	0.2	282
19332.8	15087.0	14746.2	16268.0	-0.1	0.3	908
13057.8	11744.3	11080.8	11206.0	-0.1	0.3	83
14909.2	11290.0	12666.6	12771.0	-0.1	0.3	360
5431.6	4629.0	5111.1	5161.0	-0.1	0.0	1051
7204.5	5997.1	7122.6	6334.0	-0.1	0.1	452
130450.6	111282.9	107965.1	123750.0	-0.1	0.1	698
1708.8	1368.0	1448.7	1586.9	-0.1	0.1	214
8111.8	8251.5	7608.6	9051.1	-0.1	0.3	1175
33662.9	24715.0	27717.4	31623.0	-0.1	0.3	770
4033.8	4231.2	4025.7	3914.7	-0.1	0.2	403
25180.9	23621.6	22532.4	23488.0	-0.1	0.0	458
25180.9	23621.6	22532.4	23488.0	-0.1	0.0	477;554
5364.9	4622.8	5287.5	4575.5	-0.1	0.1	704

Dpy1911	0.961803	5.35E-33	136.88	S(0.962)S(0.038)PPPLNGASEVAAR	2	-0.62412	15226.9	17635.1
Slc38a1	0.981715	6.61E-05	99.752	S(0.001)LT(0.018)NS(0.982)HLEK	3	-2.2258	53310.4	52331.6
Arhgap31	0.880204	2.10E-14	46.169	IEIGGPGNLS(0.88)PPLPPAPPPT(0	4	-0.25379	4599.1	4036.8
Ddx5	0.999206	0.00648128	68.557	DRY(0.001)S(0.999)AGK	3	-0.18703	32752.2	30152.0
Kidins220	0.845316	4.43E-07	43.732	YQKLPS(0.845)DEDES(0.14)GT(0.0	4	0.61874	8257.4	8359.5
Bap1	0.999997	3.39E-198	195.5	SRVPVRPQQYS(1)DDEEDYEDEED	4	-0.57153	11911.3	12866.8
Scaf11	0.901141	3.42E-06	126.66	VET(0.094)VS(0.901)PS(0.005)QK	2	0.23886	29943.4	29147.2
Ahnak	0.999922	7.97E-15	85.563	ISMPDIDLHLKS(1)PK	3	-0.29764	20132.4	17443.1
LOC10368	0.835932	1.16E-21	77.575	NS(0.836)DS(0.164)NLLSLDGLDNE	3	-0.081369	5339.4	5017.0
Prx	0.709518	1.24E-15	60.419	MPTFGLS(0.005)LLES(0.71)RPS(0.7	4	-0.25147	7607.9	7633.9
Plekhg3	0.99831	1.02E-05	61.657	SSSVLS(0.002)LEGS(0.998)EK	3	0.68688	6428.8	7372.8
Rbbp6	0.838019	0.0196177	42.802	S(0.838)RS(0.162)PQAFR	3	-0.62289	4103.1	4515.0
Arid4b	0.968844	0.0347592	51.252	T(0.013)VS(0.018)KS(0.969)PER	2	-0.50086	7670.5	8218.6
Pak1ip1	1	0.0100828	67.207	RNS(1)PAPAK	2	-0.12478	22055.0	22280.5
Kiaa1671	0.999991	0.00025873	66.267	VLHS(1)PGPSK	3	0.50395	9696.8	7449.9
LOC10369	0.560579	0.000123544	52.52	S(0.029)NT(0.561)LNT(0.392)AIVN	2	3.1521	15706.4	14327.9
Nefh	0.91993	0.000246241	66.486	IPS(0.003)MS(0.92)T(0.077)HIK	3	0.46055	30698.4	28684.3
Garnl3	0.700167	2.96E-43	90.946	VITPPTSIGLVAAIPVT(0.001)HS(0.	3	0.56689	2913.7	2469.8
Caprin2	0.952572	1.28E-12	104.95	T(0.025)ES(0.953)IKES(0.022)ESLK	4	0.35028	212141.9	202742.8
Cnot2	0.575768	1.30E-06	40.086	T(0.001)NS(0.001)MS(0.004)S(0.0	4	-0.4752	6781.3	8103.6
Cnot2	0.575768	1.30E-06	40.086	T(0.001)NS(0.001)MS(0.004)S(0.0	4	-0.4752	6781.3	8103.6
Apc	1	5.88E-12	65.157	AKS(1)EDEK	3	0.35085	51536.9	50688.4
Prpf4b	1	0.000177598	71.558	KKS(1)PIVNER	2	-0.55964	66194.9	60988.5
Taf3	0.990677	0.0052931	93.143	AS(0.009)S(0.991)PGQK	2	-0.55462	31306.6	27055.4
Ints1	0.836535	2.32E-31	87.802	DSTEAPKPES(0.163)S(0.837)PEPPF	3	0.28633	16354.0	15165.9
Rnps1	1	0.00973845	59.067	S(1)KS(1)KPPK	3	-0.37262	67008.3	70186.1
Rtn1	0.999982	8.70E-43	87.772	DSEVSTKPEGVHAPNQPS(1)PVEGK	5	0.49863	234886.3	235343.1
Lad1	0.999909	5.95E-26	78.272	LPS(1)VEEAEVSKPSPASK	3	0.15857	31274.4	27486.5
Prx	0.927836	5.94E-119	138.41	VGFSQSESAS(0.003)GEGS(0.069)P	3	0.26124	5457.2	5947.8
Eprs	0.754092	4.16E-71	121.03	S(0.754)PS(0.239)NT(0.007)GEYTS	3	-0.2173	16241.9	14654.8
Nr4a2	0.996449	0.0465219	57.859	T(0.004)DS(0.996)LKGR	2	-0.21449	12699.7	13027.0
Hm13	0.499923	5.22E-05	65.895	EESTEAS(0.5)AS(0.5)KR	3	0.31462	6124.1	6514.1
Hm13	0.499923	5.22E-05	65.895	EESTEAS(0.5)AS(0.5)KR	3	0.31462	6124.1	6514.1
Braf	0.931726	4.96E-11	58.712	S(0.012)S(0.012)S(0.044)APNVHIN	2	1.6442	4961.1	3878.6

17041.7	14197.2	15422.7	15623.0	-0.1	0.1	22
53425.9	46476.6	49087.1	48648.0	-0.1	0.0	56
3914.5	4035.0	3723.5	3620.1	-0.1	0.2	768
31272.8	29569.1	27265.4	28554.0	-0.1	0.0	498
9774.6	7648.0	8079.3	8201.8	-0.1	0.2	1465
11943.2	10047.9	10983.5	12264.0	-0.1	0.2	394
33427.6	28187.6	28951.7	26749.0	-0.1	0.1	332
20563.6	16645.7	17172.0	18910.0	-0.1	0.2	2181
5524.1	4472.7	5337.8	4592.1	-0.1	0.2	273
8398.4	5332.2	7825.1	8283.3	-0.1	0.5	403
6055.3	5907.8	5610.8	6491.1	-0.1	0.3	546
3787.8	3500.1	4091.4	3660.8	-0.1	0.2	737
7590.9	7453.7	7021.8	6821.7	-0.1	0.1	778
21180.0	19500.1	18725.8	21207.0	-0.1	0.1	361
8823.2	7265.0	8295.1	8001.6	-0.1	0.3	1245
16396.6	14542.6	13608.1	13980.0	-0.1	0.1	22
26226.4	25677.5	25200.8	26810.0	-0.1	0.1	433;433
2663.3	2218.8	2661.6	2422.2	-0.1	0.2	879
218943.6	183132.3	190325.5	201750.0	-0.1	0.1	316
7725.8	7069.2	6470.2	6981.0	-0.1	0.2	84
7725.8	7069.2	6470.2	6981.0	-0.1	0.2	85
59425.1	44651.8	46627.1	55432.0	-0.1	0.3	2485
58533.0	56794.2	56678.7	55084.0	-0.1	0.1	278
28762.4	25364.0	28668.5	25047.0	-0.1	0.2	278
16793.7	14706.5	14649.0	14498.0	-0.1	0.0	1345
71755.8	62857.2	57438.5	69382.0	-0.1	0.2	116
263828.9	208904.3	217992.7	239460.0	-0.1	0.2	241
33346.7	28197.5	26954.4	28461.0	-0.1	0.2	62
5977.5	4617.7	5241.0	5921.3	-0.1	0.3	1277;1277
14271.5	13076.3	12502.1	15426.0	-0.1	0.3	816
11543.9	10598.7	12011.6	11225.0	-0.1	0.1	274
5590.1	5357.5	5286.8	5906.7	-0.1	0.2	417
5590.1	5357.5	5286.8	5906.7	-0.1	0.2	419
4457.7	4477.5	4218.7	3377.6	-0.1	0.4	348

Dmtn	1	3.12E-120	190.8	KGAEIIIIIIEDDD(1)EEEEIK	3	-2.0068	319375.7	277980.2
SrpK2	0.867423	2.23E-14	108.66	TVS(0.002)AS(0.11)S(0.867)T(0.02	3	0.18863	66763.8	65172.1
Cdk11b	0.989273	5.70E-14	110.51	MEIT(0.011)IRNS(0.989)PYR	3	-0.0053836	9006.4	8613.1
Mkl2	0.924659	4.15E-23	66.378	VS(0.072)AS(0.925)PPPVT(0.003)A	4	-0.028455	40380.5	40298.5
Arhgef6	0.999992	1.18E-09	94.007	EIKPSEPLS(1)PK	4	-0.41937	93261.6	92162.8
Atf7ip	0.995472	2.56E-14	109.07	S(0.003)KS(0.995)EDMDS(0.001)V	2	0.070586	20526.0	17032.9
Tmem117	0.868001	7.19E-10	55.588	ES(0.07)T(0.062)QVS(0.868)VEDPI	3	0.61075	6587.3	6081.2
Lrmp	0.979097	0.00423276	48.044	T(0.009)RKPS(0.979)LS(0.012)ER	3	1.1053	6702.6	7039.7
Sord	0.997883	0.000235701	81.09	RGS(0.998)VS(0.002)LGNK	2	0.24546	15862.6	13346.2
Cdc42bpb	1	0.000242237	88.155	ALGNS(1)NRDK	2	-0.62776	44828.1	46272.3
Camlg	0.597059	1.84E-15	129.04	S(0.379)AT(0.597)PS(0.021)GLS(0.	2	3.4685	8558.0	13944.0
Eepd1	0.872681	0.001996	83.869	FEICVS(0.127)S(0.873)K	2	-1.2074	5988.4	7413.4
Cep170b	1	0.000234111	83.204	GS(1)LDWPEER	2	-0.78511	15471.4	16846.4
Chchd3	0.68077	0.0214334	56.548	ES(0.001)S(0.155)PS(0.681)GS(0.1	2	0.33004	6250.8	6025.4
Rpl27a	0.756267	0.000493017	44.312	NQS(0.756)FCPT(0.244)VNLDK	3	0.85263	4843.4	4800.0
Scaper	0.633485	6.12E-16	63.701	CAPAES(0.142)PS(0.142)KDS(0.63	4	-0.47851	9413.6	8734.2
Vapb	0.740039	1.65E-08	60.561	ALPS(0.74)NS(0.26)PMAALAASGK	3	-0.28902	13774.3	13025.9
Snip1	1	5.43E-07	77.324	QERLS(1)PEPVAHR	4	0.18826	59773.5	57330.3
Snx2	0.99987	0.000892433	49.62	RFS(1)DFLGLHSK	3	-0.013525	4103.5	4406.5
Nefh	0.92771	1.95E-20	101.62	TSVSSVS(0.003)AS(0.069)PS(0.928	3	-0.28995	45584.2	45034.9
Vim	1	5.29E-06	99.343	GTNES(1)LER	2	-0.074651	22254.2	22347.4
Lats1	0.891143	1.22E-05	77.42	S(0.891)NS(0.109)FNNPLGSR	2	-0.89076	30335.8	24910.9
Prr12	0.820378	6.52E-25	67.396	LSLSPALQDALHT(0.002)FPQLQVEC	4	-0.29477	2815.7	2866.9
Eps15l1	0.981991	1.16E-19	66.925	ALLFS(0.018)NNS(0.982)QELHPDP	3	1.3608	9435.4	10178.7
Vav2	0.999738	0.00707436	81.547	S(1)PVFTPR	2	0.54609	15880.5	15885.5
Purb	0.999868	6.83E-06	50.202	RGGGSGGGDES(1)EGEEVDED	2	0.21362	3651.7	3079.8
Hsp90ab1	1	1.59E-81	166.27	IEDVGS(1)DEEDDS(1)GKDKK	5	0.35635	943516.8	956268.4
Usp31	0.559453	9.08E-05	67.927	QAS(0.314)VT(0.559)S(0.088)AAS	2	0.059985	18521.1	19050.1
Fam114a1	0.997462	2.58E-30	71.207	ISQNV(0.001)PDQDPAGGPHT(0.9	3	-0.54697	8769.5	8403.7
Nucks1	0.989462	2.56E-05	109.39	T(0.008)S(0.003)AS(0.989)PPLEK	3	0.91081	182432.3	176131.6
Larp1	0.641143	5.63E-31	73.361	T(0.006)AS(0.014)IS(0.057)S(0.186	4	-0.60106	20139.6	24315.3
Ythdc1	0.982347	3.88E-06	73.299	AKS(0.967)PT(0.982)PDGS(0.051)E	3	-1.6791	71502.3	73486.7
Gys1	0.81172	4.93E-92	113.92	RS(0.181)NS(0.812)VDT(0.007)GP	3	-2.5041	10948.4	12058.4
Nfia	0.996226	1.87E-22	73.675	LKS(0.004)VEDEMDS(0.996)PGEEF	3	0.8933	35816.2	36168.6

331902.1	272097.0	291098.6	280590.0	-0.1	0.2	226
60325.8	57294.7	58106.4	59181.0	-0.1	0.0	490
9585.1	8882.1	8428.2	7394.2	-0.1	0.2	31
39766.5	35376.9	36042.2	37958.0	-0.1	0.0	209
89952.7	77567.0	87576.4	84936.0	-0.1	0.1	71;249;249
17636.9	17486.1	15811.7	16829.0	-0.1	0.2	581
6179.9	5950.0	5131.6	6037.2	-0.1	0.2	456
6742.6	5463.9	7353.9	5787.4	-0.1	0.4	394
13527.3	11848.8	13414.7	13553.0	-0.1	0.3	169
45918.0	41808.4	39082.4	43562.0	-0.1	0.0	481
14107.6	6530.9	10142.8	16579.0	-0.1	0.8	16
6386.0	5762.2	5330.5	6880.8	-0.1	0.4	102
16215.6	15074.9	13859.2	15152.0	-0.1	0.1	1060
5957.2	5184.7	5595.4	5783.9	-0.1	0.0	42
4854.6	4542.8	4100.0	4528.0	-0.1	0.0	68
9391.3	7767.3	9841.9	7413.4	-0.1	0.3	329
12292.4	11484.7	11778.6	12258.0	-0.1	0.1	204
63256.8	52415.3	54565.0	56904.0	-0.1	0.1	33
4096.1	3742.4	3965.1	3747.5	-0.1	0.0	185
43699.3	36831.1	43887.1	41342.0	-0.1	0.1	63;63
25824.0	21493.2	20848.2	21658.0	-0.1	0.1	339
32736.7	25724.8	26455.3	27783.0	-0.1	0.3	462
2861.2	2396.8	2573.0	2795.4	-0.1	0.1	1917
10492.2	9189.5	8992.3	9181.5	-0.1	0.0	612
17620.9	14451.3	14263.2	16174.0	-0.1	0.1	771
3493.3	2488.2	3781.1	3024.3	-0.1	0.5	307
856004.1	822868.9	775856.8	906080.0	-0.1	0.2	261
17796.6	16147.4	16700.8	17479.0	-0.1	0.0	538
8895.1	7763.3	7765.8	8166.2	-0.1	0.0	195
200567.9	159406.2	166313.0	182550.0	-0.1	0.2	223
19731.0	18350.6	18735.5	21263.0	-0.1	0.3	720
65156.1	62840.7	62968.8	65237.0	-0.1	0.1	148
10107.9	10157.9	10071.2	9879.0	-0.1	0.2	711
34500.8	31704.1	30024.6	35092.0	-0.1	0.1	287

Tbcb	0.999986	2.00E-100	133.57	AQQEAEAAQRLS(1)EEEAQASAI5V(	3	0.56459	12901.2	11088.7
Lmna	0.994488	0.00266886	107.1	LES(0.004)S(0.994)ES(0.001)R	2	0.69114	80206.5	79026.1
Map1b	0.998939	5.23E-140	176.9	VLS(1)PLRS(0.999)PPLIGS(0.001)E:	4	-0.48628	81919.2	81020.3
Pnn	0.897348	0.00597136	93.938	DT(0.103)S(0.897)GLER	2	-0.1789	8588.5	9148.7
Taok1	1	5.40E-06	53.453	AGS(1)LKDPEIAELFFK	3	0.54695	7992.0	8866.0
Macf1	0.941464	3.16E-06	55.011	RKS(0.941)QDS(0.059)VLDPAER	3	-3.0214	26597.9	27088.3
Sugp2	0.538323	0.0258147	44.564	CS(0.462)S(0.538)ANMDAK	2	0.31544	4802.3	5348.3
Knop1	0.784108	2.64E-21	76.744	AT(0.216)S(0.784)PFNNVGEVQVP	4	-1.0764	10583.5	10933.3
Slc6a15	0.999826	1.97E-13	89.358	DLLS(1)NEDSVEDVSK	3	1.4442	18777.5	18949.2
Adra2a	0.84814	8.80E-06	45.737	RGPGAAGPGAS(0.152)GS(0.848)G	3	0.60227	1890.4	1606.8
Eif4g3	0.872167	1.59E-31	87.098	EQAGQIPET(0.128)AAGEPS(0.872)	3	2.3399	12934.6	14008.7
Prune2	0.999823	1.74E-11	51.66	IGS(1)GPGNLDMWALPHAEDKPEG	6	1.2009	15904.4	13630.3
Atp1a3	0.978348	0.0021767	71.614	DDKS(0.022)S(0.978)PK	2	0.64984	225523.8	219207.5
Itpkb	0.892639	1.90E-09	60.133	S(0.002)QDGDHPS(0.105)CQEKS	4	0.56273	7453.9	7893.4
Akap11	0.86321	0.00252319	63.046	VS(0.863)PT(0.137)LPGLR	2	-0.12537	8406.7	8468.8
Rps6kb1	0.655553	0.0566674	57.859	T(0.656)PVS(0.344)PVK	2	0.60667	8915.2	9106.1
Fhod1	1	2.24E-08	105.13	S(1)LEGGGCPVR	2	0.15212	28353.6	26263.4
Armcx2	0.793311	0.068524	56.27	AS(0.003)VGT(0.204)GT(0.793)R	2	1.0737	27742.9	29062.8
Caskin1	0.818818	7.84E-42	85.185	SVS(0.007)ES(0.161)S(0.819)PGDS	3	0.5628	19251.0	19214.7
RGD13099	1	0.00539737	72.2	GPS(1)PGEEK	2	0.15487	45753.6	46610.1
Gtf3c2	0.827518	0.00153222	72.848	VS(0.11)S(0.828)PT(0.062)KPK	3	0.43912	38633.3	37488.2
Nbas	0.512462	1.38E-10	47.195	FT(0.001)LPGDVDLDGIT(0.255)Y(C	5	-1.2387	5981.3	5785.8
Mapkap1	0.538048	0.00261662	80.706	T(0.382)S(0.538)FS(0.08)FQK	3	1.2273	5048.0	4294.0
Akap11	0.625161	0.0233678	67.704	S(0.348)PS(0.625)AS(0.027)DK	2	0.34712	9179.6	8545.5
Eif3b	0.572039	1.41E-35	77.024	AKPAAQS(0.069)EEET(0.572)AAS(i	5	-1.6501	11787.5	11201.7
Atp13a1	0.999936	3.45E-27	147.7	RPRDS(1)PVLSNSGPR	3	-0.14439	53566.8	53883.7
Gas2	0.978143	0.000550058	109.02	T(0.978)S(0.022)PVQSK	2	-0.043319	96626.1	94605.6
Nf1	0.5842	1.00E-09	60.33	GSEGY(0.005)LAAT(0.122)Y(0.218	3	0.50135	46957.0	49747.3
Aatk	0.919296	7.45E-14	103.11	DDCS(0.074)S(0.919)LEQT(0.007)F	2	-0.23066	18047.6	16053.3
Fam83h	0.63849	8.76E-06	84.173	GDS(0.362)T(0.638)EAAAAEER	2	-0.22574	5837.7	5992.8
Vrk3	0.894593	3.56E-05	65.895	DLN55S(0.001)ET(0.104)S(0.895)P	2	-0.016802	25101.1	24928.5
Grip1	0.499999	1.14E-05	78.401	QTDAQPAS(0.5)S(0.5)PK	2	-0.039736	5908.7	5459.5
Grip1	0.499999	1.14E-05	78.401	QTDAQPAS(0.5)S(0.5)PK	2	-0.039736	5908.7	5459.5
Eprs	0.503205	7.48E-13	73.744	S(0.377)PS(0.503)NT(0.095)GEY(0	3	-2.1078	36685.6	33064.3

13363.4	10546.1	11631.1	11789.0	-0.1	0.2	150
82229.8	69012.6	73783.4	76807.0	-0.1	0.0	424
84933.9	73177.0	70659.8	81599.0	-0.1	0.1	1393;1267
8778.8	7892.0	7993.2	8231.5	-0.1	0.0	670
8855.7	6525.0	7380.1	9482.8	-0.1	0.4	9
30149.6	24873.4	25239.2	26140.0	-0.1	0.1	57
4951.4	4226.5	4511.3	4999.6	-0.1	0.2	680
10883.8	9980.4	10038.4	9453.9	-0.1	0.0	108
19131.6	17003.2	17257.5	17464.0	-0.1	0.0	25
1722.7	1537.4	1587.7	1623.7	-0.1	0.1	362
10715.6	10596.2	11562.7	12104.0	-0.1	0.3	297
14815.6	13533.9	12641.0	14176.0	-0.1	0.2	776
219369.5	200258.7	183603.7	220360.0	-0.1	0.1	10
9281.2	7222.1	7505.0	7681.6	-0.1	0.3	538
7571.9	7330.2	7954.6	6960.5	-0.1	0.1	196
8784.5	8669.3	7482.4	8240.9	-0.1	0.1	444
27265.5	23749.2	25462.6	25300.0	-0.1	0.0	370
29456.5	25646.7	25491.4	27361.0	-0.1	0.0	51
17630.5	16046.2	17336.6	17670.0	-0.1	0.1	428
39177.8	39868.0	39194.7	40662.0	-0.1	0.2	1736
33534.1	31419.2	32358.5	36033.0	-0.1	0.2	263
6253.4	5254.5	5271.1	5877.4	-0.1	0.1	643
4445.5	4519.0	3957.0	4074.5	-0.1	0.2	474
10247.1	8691.6	8551.3	8225.8	-0.1	0.2	350
11163.8	10304.0	10139.5	10653.0	-0.1	0.0	72
48318.8	47287.3	47147.5	47395.0	-0.1	0.1	893
104079.4	86952.9	83196.1	98743.0	-0.1	0.2	282
42660.2	43174.5	42495.7	41229.0	-0.1	0.1	2496
19244.5	14726.3	16233.8	17615.0	-0.1	0.3	659
5862.9	5124.3	4997.9	5989.4	-0.1	0.2	1042
23531.8	22286.3	23176.7	21524.0	-0.1	0.0	68
5324.4	4882.4	5137.7	5182.0	-0.1	0.1	760
5324.4	4882.4	5137.7	5182.0	-0.1	0.1	761
35152.3	27801.5	32662.0	35074.0	-0.1	0.3	818



Cdk12	0.538863	0.0101595	49.298	RRS(0.539)S(0.921)S(0.539)PFLS(C	3	1.4204	9344.6	9292.6
Cdk12	0.920825	0.0101595	49.298	RRS(0.539)S(0.921)S(0.539)PFLS(C	3	1.4204	9344.6	9292.6
Cdk12	0.538832	0.0101595	49.298	RRS(0.539)S(0.921)S(0.539)PFLS(C	3	1.4204	9344.6	9292.6
Ibtk	0.972838	4.42E-05	57.703	KS(0.003)EDS(0.024)KGS(0.973)PE	3	0.43811	20664.4	19573.3
Bud13	0.997171	5.99E-05	47.64	VRHDS(0.997)PDPS(0.809)PT(0.19	4	0.31705	14836.9	14024.1
Bud13	0.827058	5.99E-05	47.64	VRHDS(0.937)PDPS(0.827)PT(0.23	3	0.51983	14836.9	14024.1
Ssfa2	0.999712	1.71E-12	99.371	S(0.016)QS(0.972)LPT(0.01)T(0.00	2	0.68588	12666.3	13311.1
Rcsd1	0.999997	2.54E-53	89.659	VTEEEEDGLGQKS(1)PDANIPEDVVF	3	-0.084641	20492.6	17620.8
Tenc1	0.992495	8.18E-16	61.241	WDS(0.992)Y(0.011)ENFNQHHEDS	3	0.6335	13515.4	13599.6
Tenc1	0.98776	8.18E-16	61.241	WDS(0.992)Y(0.011)ENFNQHHEDS	3	0.6335	13515.4	13599.6
Srrm2	0.998586	0.00329479	74.841	S(1)RS(0.999)PAT(0.001)K	2	0.11785	192975.5	169210.1
Ccdc120	0.681787	8.61E-06	81.822	S(0.682)NS(0.111)S(0.207)EALLVD	2	-1.993	38189.6	34293.9
Map1a	0.998384	5.91E-27	83.871	GFKS(0.998)PPCEDFS(0.001)VTGE	5	-0.96535	21684.1	19098.4
Trim3	0.85439	0.000193303	60.196	RPS(0.854)S(0.145)MYSTGGK	3	-0.057296	17928.4	15565.2
LOC103691	0.939382	0.00202197	84.31	AQPS(0.005)T(0.939)S(0.056)PK	3	-0.47748	26333.2	23871.1
Hist1h1d	1	0.00035732	67.08	KAAS(1)GEAKPK	4	0.29366	48774.6	49587.1
Acin1	0.619361	4.00E-21	100.39	S(0.01)QS(0.371)PS(0.619)LPPLPE	4	0.76197	28782.9	29547.6
Dennd4a	0.801897	3.40E-10	68.972	EAT(0.026)S(0.802)T(0.172)EDIQC	2	0.15832	4094.9	4030.3
LOC100911	0.999987	1.75E-05	99.539	YRS(1)PYSGPK	3	0.099883	69207.6	63488.3
Lcp1	1	2.58E-08	104.24	EGES(1)LEDLMK	3	0.69289	136442.5	120660.6
Iws1	0.942704	4.81E-27	76.899	DS(0.057)GS(0.943)DGEDDVNEQF	3	0.82377	1157.8	1089.0
Mapk14	0.849301	0.00380022	42.317	HTDDEMT(0.066)GY(0.849)VAT(0.	3	2.4737	1114.6	863.0
Stim1	0.5791	3.29E-46	103.84	AMAEEDNGSIGEET(0.022)DS(0.57	4	-0.67702	25969.4	22757.7
Vat1l	0.970382	0.0110577	76.064	S(0.97)FFS(0.03)FAK	2	1.1419	7753.0	6745.8
Tbc1d10b	0.513753	9.00E-06	45.363	QQPPLGPS(0.036)S(0.128)S(0.128	4	-0.7198	2221.1	1904.5
Map2k5	0.960725	2.20E-06	53.453	LCDFGVS(0.005)T(0.034)QLVNS(0.	3	1.2946	12040.1	10636.6
Ccdc2	0.91734	0.013078	98.629	TYS(0.083)AT(0.917)AR	2	0.18572	22881.6	20334.6
Cryab	0.998435	7.79E-14	117.41	RPFPPFHS(0.998)PS(0.002)R	3	-1.13	13791.0	13747.6
Cenpj	0.838507	2.29E-07	73.386	S(0.161)VS(0.839)PPPS(0.001)DLN	3	1.0512	3442.0	3473.8
Scn7a	0.999996	1.81E-07	83.292	SSAGQVS(1)RES(1)R	3	0.34743	202815.1	227138.2
Smpd4	0.99539	0.020504	72.879	QVT(0.005)T(0.995)PAR	2	0.86191	14638.9	14636.1
Zranb2	0.65528	2.28E-20	113.11	YNLDAS(0.345)EEEDS(0.655)NK	2	0.24902	11559.9	11515.4
Hsd17b4	0.869146	2.47E-15	82.609	S(0.869)IQES(0.065)T(0.065)GGIIE	3	1.471	7022.7	6894.4
LOC68291	0.867564	0.0023486	67.334	S(0.868)PT(0.119)KT(0.014)DPK	3	0.39021	62607.3	61887.9

8914.9	8463.1	8318.9	8312.3	-0.1	0.0	331;331;331
8914.9	8463.1	8318.9	8312.3	-0.1	0.0	332;332;332
8914.9	8463.1	8318.9	8312.3	-0.1	0.0	333;333;333
17229.1	17685.2	17971.4	16688.0	-0.1	0.2	663
12227.4	12554.9	12663.4	12210.0	-0.1	0.2	170
12227.4	12554.9	12663.4	12210.0	-0.1	0.2	174
12074.1	11746.5	10997.4	11921.0	-0.1	0.1	747
12981.2	16877.8	12196.4	17476.0	-0.1	0.6	304
13380.4	11988.5	11700.6	13205.0	-0.1	0.1	432
13380.4	11988.5	11700.6	13205.0	-0.1	0.1	443
186866.0	162508.0	172201.3	165520.0	-0.1	0.1	483
39428.0	34943.5	33059.6	33970.0	-0.1	0.1	355
23885.2	18402.3	19488.9	21036.0	-0.1	0.3	1145
17351.5	14542.6	14559.2	17232.0	-0.1	0.3	454
22199.9	22938.6	22112.4	20931.0	-0.1	0.2	142
46263.0	43955.5	41810.7	46073.0	-0.1	0.1	113;113
30130.4	26113.0	26196.7	28333.0	-0.1	0.0	283;389;389
4642.3	3968.8	3744.6	3925.9	-0.1	0.1	923
58672.4	57024.1	58354.4	59084.0	-0.1	0.1	71
126649.8	111392.9	117069.9	121390.0	-0.1	0.1	257
1053.0	803.2	1287.5	917.9	-0.1	0.6	27;27
758.1	738.8	898.3	857.5	-0.1	0.5	182
26809.8	21487.7	24291.3	23099.0	-0.1	0.2	667
6458.1	6197.8	6595.6	6319.1	-0.1	0.2	285
1845.1	1637.9	2225.9	1581.5	-0.1	0.5	647
10266.6	9774.4	10483.6	9788.2	-0.1	0.2	222
22203.1	18087.7	23810.5	17775.0	-0.1	0.4	61
12758.7	12558.2	12298.0	11903.0	-0.1	0.0	19
3330.0	2570.9	3117.8	3657.6	-0.1	0.4	810
229238.7	191217.0	214434.1	195690.0	-0.1	0.2	913
12326.4	12715.5	12501.0	12740.0	-0.1	0.2	758
13220.7	9799.4	10701.4	12616.0	-0.1	0.3	193
6862.3	6144.0	6695.7	6120.5	-0.1	0.0	287
61342.5	57364.0	51137.8	61089.0	-0.1	0.1	443

Creb3l1	0.583414	0.00243842	41.257	S(0.003)S(0.003)T(0.006)AIS(0.15	3	-0.11846	3261.0	3758.9
Bckdk	0.939772	0.00052379	44.511	S(0.008)T(0.008)S(0.008)AT(0.037	3	1.5237	624.2	268.3
Sec16a	0.993606	0.000973733	61.577	S(0.003)T(0.003)HS(0.994)LPS(0.0	3	0.3137	14441.0	15871.3
Sec16a	0.999862	2.75E-05	91.202	SIHS(1)EHSAR	3	0.9289	26566.9	28557.1
Ptrf	0.97497	1.18E-06	82.925	S(0.975)LKES(0.025)EALPEK	4	-0.052102	11482.2	9554.9
Steap3	0.617996	3.91E-10	81.703	LVDS(0.618)DGS(0.382)LAEVPK	3	1.02	5408.7	5231.2
Tjp2	0.880679	0.00937155	62.714	Y(0.009)S(0.086)PS(0.025)Y(0.881	2	-0.55693	33576.3	34038.4
Shank2	0.649205	5.73E-13	42.149	S(0.021)S(0.021)QGS(0.265)S(0.64	5	0.062072	1782.6	1557.5
Klc2	1	6.52E-09	60.735	KLDEDAS(1)PNEEKGDVPK	5	1.8977	7088.9	6784.3
Ubtf	0.557645	0.0223503	43.958	QT(0.022)T(0.558)S(0.419)PAS(0.0	3	-0.32734	13084.9	14400.3
Pdia6	0.819464	0.0551902	44.564	S(0.819)GGY(0.007)S(0.056)S(0.11	2	1.0104	11484.1	12079.2
Flna	0.589269	3.73E-09	41.933	EEGPY(0.001)EVEVT(0.21)Y(0.194	4	-1.4148	2193.2	2124.0
Mxra7	0.999822	5.14E-12	65.423	DTFGEMS(1)DGDMMQEQLR	3	0.48289	12520.7	10938.8
Pak1	0.950201	0.0107722	63.216	KT(0.026)S(0.95)NS(0.024)QK	2	-0.2819	35045.7	33199.2
Gclm	0.945919	4.24E-07	58.693	TLNEWS(0.004)S(0.05)QIS(0.946)F	2	-0.8361	14342.0	13424.0
Nfic	0.844316	1.91E-37	161.21	TLPSTSS(0.016)S(0.14)GS(0.844)KI	3	0.10262	17683.9	16720.3
Inpp5f	1	0.000536764	86.114	RS(1)LEDLEK	3	-0.84251	5421.1	6005.9
Kmt2c	0.63879	4.28E-30	125.9	KDS(0.318)S(0.639)GS(0.04)IS(0.0	3	-0.49103	24556.1	23911.6
Hnrnpul2	0.998586	7.75E-94	150.14	AVEEQGDDQDS(0.999)EKS(0.001)	4	0.68657	245847.0	254791.4
Bckdha	0.846514	1.66E-33	137.39	IGHHS(0.847)T(0.12)S(0.033)DDSS	3	0.46269	16874.0	16548.1
Ppip5k1	0.921269	6.53E-10	58.373	T(0.019)DPGS(0.921)IENLCPAKPS(	3	0.73211	7912.5	8627.0
Gas2l1	1	0.000494352	46.249	S(1)QNREEQAVLVVR	2	-1.6688	17974.9	15732.0
Disp2	0.510761	0.012106	46.73	RPSTYAS(0.001)GY(0.09)S(0.511)S	2	-0.91731	6409.7	7612.3
RGD13095	0.551223	5.26E-59	93.568	LLVQVPGLVNSITAT(0.016)S(0.016	4	0.40539	11392.0	12903.0
Mbnl2	0.818256	0.000174714	59.227	GT(0.005)CS(0.818)RS(0.177)DEEC	3	-0.6423	4385.0	4759.6
Casc3	0.869119	3.10E-38	86.508	GGGSCSGS(0.004)AGGGGS(0.869)	3	-0.44635	6593.3	6272.5
Hnrnpa1	0.999977	8.73E-10	77.506	EDS(1)QRPGAHLTVK	3	0.059484	55151.9	52669.5
Ppp1r10	0.841224	3.03E-15	77.221	VLS(0.841)PT(0.159)AAKPSPFEGK	4	0.87557	8732.8	9554.8
LOC68502	0.541176	9.76E-17	55.406	NGLSHPKPDS(0.009)S(0.009)S(0.0	5	0.068139	10838.5	10817.3
Eepd1	0.614873	0.00100454	108.43	FEICVS(0.615)S(0.385)K	2	-1.43	18591.5	19000.8
Htt	1	0.0210068	57.267	EKAS(1)PGR	2	-0.41868	64318.8	63428.0
Atf7ip	0.997419	3.49E-46	103.9	HKSPVELVDAAS(0.997)EDPT(0.00	4	-0.63747	39822.4	41691.5
Ndel1	0.883195	0.00507368	43.604	S(0.016)APS(0.073)S(0.883)PT(0.0	2	-2.4298	10929.1	10460.7
Prkcq	0.995727	2.06E-07	57.936	EFLS(0.004)EKPRLS(0.996)FADR	3	-0.93627	27461.4	27124.5

3552.4	2942.0	3312.6	3393.6	-0.1	0.2	242
584.5	362.2	448.5	537.3	-0.1	0.7	37
13739.2	13736.3	13229.8	13240.0	-0.1	0.1	1365
25712.2	23443.4	24087.2	26252.0	-0.1	0.1	1353
10385.4	7921.1	10135.2	10625.0	-0.1	0.4	173
5400.4	4843.3	5011.1	4787.0	-0.1	0.0	17
36410.8	33092.3	28718.7	33143.0	-0.1	0.2	242;269
1629.1	1389.9	1314.2	1831.9	-0.1	0.5	674;364
7390.0	5406.5	6566.9	7436.9	-0.1	0.4	151
13235.6	11653.0	12164.4	13356.0	-0.1	0.1	351
11703.6	9642.5	11276.3	11277.0	-0.1	0.1	148
2458.0	2111.0	1788.3	2286.3	-0.1	0.3	1055
10936.0	10757.5	10000.8	10648.0	-0.1	0.2	160
36951.6	29554.8	31781.5	34727.0	-0.1	0.2	137
11872.9	11644.2	13220.2	11334.0	-0.1	0.3	59
18945.3	15060.6	16258.3	17400.0	-0.1	0.2	279
5698.7	4539.3	4968.7	6131.9	-0.1	0.4	667
23036.7	20107.3	22425.5	22774.0	-0.1	0.1	1264
229803.0	214646.1	212189.9	240320.0	-0.1	0.1	183
16969.3	14882.5	15372.4	15772.0	-0.1	0.0	338
8867.5	8141.4	7671.6	7394.4	-0.1	0.1	684
19473.4	15409.3	16949.8	16217.0	-0.1	0.3	436
5325.8	6102.0	5573.3	5999.2	-0.1	0.5	1345
12904.5	11307.6	11108.6	11567.0	-0.1	0.1	296
3969.0	3954.2	4598.6	3427.7	-0.1	0.4	28
6448.5	5946.3	6538.0	5161.7	-0.1	0.2	44
49122.6	45148.9	48018.4	50222.0	-0.1	0.1	95
8875.1	8855.6	8416.5	7545.8	-0.1	0.2	313
9471.2	8339.2	8959.5	11143.0	-0.1	0.4	168
19900.3	18248.3	16048.9	18236.0	-0.1	0.1	101
51075.1	54815.4	54810.7	53778.0	-0.1	0.3	2775;2896
41886.2	37748.4	34247.9	40766.0	-0.1	0.2	463
11706.8	8809.7	10294.6	11142.0	-0.1	0.3	198
28635.7	24490.6	25286.3	26287.0	-0.1	0.0	676

Utrn	1	0.0222974	48.698	S(1)VEKEER	3	1.0712	23161.8	18733.1
Nrd1	0.820939	0.00406692	42.958	S(0.179)LS(0.821)NVGDPEIIK	2	1.2278	11259.5	12504.8
Ubtf	0.86554	0.0022528	82.954	QT(0.003)T(0.124)S(0.866)PAS(0.0	2	-0.8896	26363.0	27473.3
Sin3b	0.970659	0.00346282	57.532	S(0.029)GS(0.971)GGHEK	3	-1.9068	27159.7	25460.5
Ranbp10	0.63892	7.75E-29	119.08	SQDSYPGS(0.354)PS(0.639)LS(0.0	2	-0.88428	7831.5	6529.3
Amfr	1	0.00915219	65.933	VPLDLS(1)PR	2	-0.52592	8608.2	9535.3
LOC100911	0.776423	5.02E-77	114.15	IDVESTELAS(0.035)S(0.188)ES(0.7	4	0.96092	20044.2	19464.8
Mybbp1a	0.668278	1.15E-06	58.814	DIPS(0.668)DS(0.33)QS(0.001)PIST	3	0.98404	15328.3	14646.0
Rtn1	1	2.74E-22	85.563	GQEEQS(1)PGLEDKDLDFKDK	4	1.5134	188395.6	177601.5
Nucks1	1	7.95E-16	60.735	EMLLEDVGS(1)EEEEPEEDDEAPFQEI	3	-1.1828	8911.3	8161.8
Nefh	1	4.91E-26	100.28	S(1)PEQVKS(1)PAKEEAK	5	-0.088208	856093.4	819592.8
Lsp1	0.804908	2.53E-57	88.056	VHLEES(0.001)NLS(0.192)HS(0.80	5	-1.2527	8591.7	8181.6
Fnip1	0.520554	9.49E-16	65.16	NESSDSALGDS(0.521)ES(0.449)ED	3	1.3987	6209.3	5606.6
Acy3	0.727557	0.000340205	40.952	ISVPALPGLT(0.006)PS(0.095)S(0.0	3	0.046776	3809.5	3905.1
Fxyd7	0.500869	0.003942	76.943	ADS(0.501)S(0.425)PT(0.074)CK	2	0.10707	10689.9	9504.9
Map1b	0.499926	1.04E-151	182.41	QGVDDIEKFEDEGAGFEES(0.5)S(0.!	4	-1.737	335465.0	324204.1
Srsf4	1	1.67E-15	104.16	AEGES(1)EGPNPEPR	2	0.51394	9276.5	9328.1
Rnps1	1	0.00973845	59.067	S(1)KS(1)KPPK	3	-0.37262	78734.7	82687.6
Dlgap1	0.906836	1.47E-21	72.474	QNS(0.907)AT(0.093)ESAESIEIYIPE	3	0.1647	5125.7	4162.7
Plekha6	0.902084	0.0118508	49.3	RHQS(0.902)GS(0.098)MK	3	0.76555	9454.3	7835.6
Scn7a	0.999999	4.17E-05	73.857	KS(0.102)S(0.898)AGQVS(1)R	2	0.024706	238178.1	256316.1
Srrm2	0.706358	4.61E-05	84.352	S(0.001)LS(0.706)GS(0.281)S(0.01	2	-0.98584	36403.0	41498.5
Prrc2a	0.800159	5.13E-36	104.38	GS(0.002)ET(0.034)GS(0.8)ET(0.1€	3	0.12168	31120.6	30892.4
Cables2	0.999471	0.000135084	41.798	CS(0.999)LEFLEDAVGCAS(0.001)V	3	-0.052729	3980.9	3751.8
Dcbl1	0.958517	0.0007147	53.051	AHT(0.959)FS(0.039)T(0.002)QSG'	3	3.4808	5650.6	5879.6
Tanc1	0.501444	6.64E-17	61.538	DHFPIEEAEEEDT(0.242)S(0.242)S(i	3	0.61384	9007.0	11667.9
Foxk2	0.969158	1.61E-59	98.718	S(0.031)APAS(0.969)PNHAGVLSAF	4	-0.49024	5644.6	6259.8
Tmcc1	0.724069	0.0313702	50.297	RGT(0.724)S(0.264)LHS(0.012)R	3	0.85853	4654.4	4772.2
Zfc3h1	0.998906	6.20E-14	110.51	RIS(0.999)AS(0.001)DILSEK	3	-0.75857	9464.2	9369.4
Pura	0.865864	1.02E-133	182.66	GPGLGS(0.134)T(0.866)QGQTIALP	2	-1.2251	22931.6	28893.8
Snn	0.999759	5.53E-28	104.2	ISQSEDEES(1)IVGDGETK	3	-0.5916	51177.9	47369.2
Scn8a	1	1.88E-13	76.301	QKELS(1)EGEEKGDPEK	3	0.46277	72927.6	73677.6
Psip1	0.940821	1.96E-23	130.21	QSNAS(0.059)S(0.941)DVEAEK	2	-0.19914	71278.1	75561.0
Ssr3	1	0.00254188	67.385	KLS(1)EADNR	2	0.39769	107803.9	97479.5

22955.8	18375.9	21668.9	19229.0	-0.1	0.3	3241
11252.2	11071.1	11827.8	9107.7	-0.1	0.3	93
26490.4	24643.5	22355.0	26425.0	-0.1	0.1	352
26787.5	23986.8	21932.8	26666.0	-0.1	0.2	24
7584.3	6934.0	6421.8	6704.5	-0.1	0.2	395
8273.3	7589.1	8197.4	8362.1	-0.1	0.2	503
22798.2	18538.7	19297.6	19121.0	-0.1	0.2	495
14448.3	12777.1	13366.6	14465.0	-0.1	0.1	1162
204315.4	162739.0	170245.7	188400.0	-0.1	0.2	210
8075.9	7117.7	8168.8	7705.1	-0.1	0.1	113
1012698.1	825288.8	742931.9	889860.0	-0.1	0.4	844;814
8406.8	7086.8	8347.7	7590.2	-0.1	0.1	140
4977.0	4401.6	5852.7	5101.9	-0.1	0.4	945
4010.3	3820.5	3888.4	3013.2	-0.1	0.3	308
6686.3	8591.0	7589.6	8401.7	-0.1	0.6	56
374626.2	307658.7	286140.1	352140.0	-0.1	0.3	930;804
9641.7	8100.2	8485.5	9248.0	-0.1	0.1	427
84249.4	73920.6	69668.1	81101.0	-0.1	0.1	118
5788.2	4343.6	4213.9	5231.5	-0.1	0.5	973
7559.4	6976.4	7327.5	8423.5	-0.1	0.4	1087;403
280086.0	234500.4	240541.1	233400.0	-0.1	0.1	910
39935.8	35082.1	36166.1	36530.0	-0.1	0.1	774
29293.6	25832.6	27923.7	29761.0	-0.1	0.1	1113
3638.8	3839.1	3432.7	3130.2	-0.1	0.2	76
4861.0	4763.8	5091.7	5138.7	-0.1	0.2	406
11339.5	10277.5	9182.0	9826.5	-0.1	0.4	1463
6043.4	5563.6	5474.9	5380.1	-0.1	0.1	184
4759.6	4337.9	4410.5	4230.6	-0.1	0.0	119
8196.9	8400.2	8599.4	7731.1	-0.1	0.2	358
27580.6	22462.3	24871.6	25317.0	-0.1	0.3	180
53555.8	43255.9	45058.3	50850.0	-0.1	0.2	49
69866.1	63016.7	64638.0	70411.0	-0.1	0.1	504
79897.1	65797.4	65573.1	76090.0	-0.1	0.2	106
91315.4	91215.3	89020.2	91150.0	-0.1	0.2	105

Arhgap32	0.789969	4.23E-05	41.047	S(0.11)AKS(0.79)EES(0.712)LT(0.2	3	0.36852	8851.0	8446.5
Arhgap32	0.711823	4.23E-05	41.047	S(0.11)AKS(0.79)EES(0.712)LT(0.2	3	0.36852	8851.0	8446.5
Ivns1abp	0.885436	1.08E-66	129.2	QISGSSTGCLS(0.031)S(0.885)PNA	3	0.17163	9147.6	8226.5
Hdlbp	0.997688	6.45E-34	114.96	VAT(0.002)LNS(0.998)EEESDPPTYI	4	0.22564	14149.9	13729.0
Zfp521	1	1.19E-07	56.906	HIAECHPECS(1)PNEDR	3	-0.29836	4329.8	4644.1
Ppp6r1	0.999283	0.00149559	54.898	AS(0.001)QAS(0.999)QPPGVR	2	-0.49887	8791.5	8751.4
Ube2o	0.998881	0.000975959	93.467	S(0.999)IPLS(0.001)IK	3	-0.47753	40533.2	31995.9
Tjp1	0.830371	7.94E-06	67.08	S(0.011)VAS(0.079)S(0.079)QPAKI	3	0.49169	25437.5	24328.5
RGD13072	0.565906	2.28E-20	100.58	S(0.434)S(0.566)PEIQEPIKPLEK	3	0.47857	37049.4	31842.3
Scyl3	0.999215	2.87E-33	93.407	T(0.021)S(0.021)DLS(0.959)PEGS(	3	-0.035044	16425.6	16095.0
Spen	0.859441	2.47E-05	52.862	S(0.141)RS(0.859)PNRFDADHPR	4	0.81767	10389.8	9963.8
Dusp15	0.810229	2.74E-42	85.881	QGPGT(0.183)S(0.81)APS(0.006)A	3	-0.58126	8402.9	8546.2
Mapt	0.660596	1.73E-06	53.516	S(0.027)PVVS(0.411)GDT(0.661)S(	2	0.18726	78657.2	84978.0
Sde2	0.963003	2.05E-26	75.88	ENGSDGGEVAADS(0.963)PGS(0.0	3	0.77688	3334.9	3677.0
Elac2	0.881495	4.89E-07	76.759	RCGEQEPS(0.881)RS(0.119)PK	3	-1.3419	33130.3	34460.7
Acin1	1	5.41E-06	124.21	LQPEQES(1)PKK	3	-0.81919	74766.7	71725.1
Fam73b	0.547453	0.0033052	64.567	RVQS(0.398)PS(0.547)S(0.054)K	3	0.61277	4868.9	4930.6
Mtm1	1	0.00726045	55.839	KVS(1)QDGVR	3	1.0024	42148.1	38762.8
Arhgap5	0.836822	6.22E-28	105.79	RT(0.045)HS(0.837)DAS(0.106)DD	3	0.18393	21450.3	24331.8
Pld2	1	2.39E-13	101.75	EAANENIPS(1)LPR	3	0.0022166	5801.1	6014.2
Rbm5	0.992891	4.19E-12	62.617	SEDGY(0.005)HS(0.993)DGDY(0.0	3	-0.2096	4004.2	3964.7
Spats2l	0.796361	0.000756342	50.452	DS(0.002)S(0.031)S(0.171)PDS(0.7	3	0.74164	10884.6	11757.8
Slc35f6	0.922533	0.0001463	69.03	RQS(0.923)DS(0.039)S(0.039)VEPF	2	-0.475	21786.7	21082.7
Mcm2	0.559176	0.000513297	54.276	RADALT(0.069)S(0.559)S(0.372)PC	3	3.6148	6619.5	6457.0
Rtp4	0.999838	1.56E-06	79.652	IASILNAS(1)LDEK	2	1.4465	15476.2	11472.6
Dock5	0.948716	0.000172256	44.577	AGS(0.949)MVLPHY(0.05)ILPS(0.00	3	-1.2501	2043.4	1712.4
Nck2	0.821695	1.43E-51	115.01	DAS(0.822)PT(0.173)PS(0.002)T(0	3	-0.6549	10662.4	10666.0
Peak1	0.766567	0.000208096	46.249	DPS(0.015)T(0.013)KPVT(0.767)S(	3	-1.8312	12250.0	11486.9
Jph2	0.999896	4.31E-08	53.453	ETPQPEGPPS(1)PAGT(1)PPQPK	3	0.11843	13046.7	15648.6
Myo18a	0.723815	3.84E-41	109.85	NKLEGDS(0.276)DVDS(0.724)ELED	3	0.19001	72345.6	74808.5
Akap12	0.994137	1.67E-15	56.22	LS(0.994)ADY(0.005)EKVELPLEDQ'	4	0.97564	6205.3	5879.0
Nacad	1	1.42E-134	198.47	GFPHEQEDEDS(1)LEEDSQR	2	0.74613	373094.0	396622.5
Cep135	0.892262	1.57E-11	93.237	LGLPT(0.095)S(0.892)PLS(0.01)S(0	2	-0.38019	16239.5	16067.6
Rock2	0.982906	0.00300072	82.417	RGS(0.983)DT(0.017)DVR	2	0.57729	5168.0	4232.7



8531.1	7842.8	7781.0	8011.3	-0.1	0.0	357
8531.1	7842.8	7781.0	8011.3	-0.1	0.0	360
8214.6	7987.5	8096.4	7333.8	-0.1	0.1	277
12943.9	12102.9	12621.8	12635.0	-0.1	0.0	31
4679.3	4353.3	3841.6	4300.1	-0.1	0.1	53
7410.4	7908.9	6850.4	8077.1	-0.1	0.3	655
35306.7	33978.9	30054.5	34657.0	-0.1	0.3	473
25479.0	20890.4	24003.9	23970.0	-0.1	0.1	331
31366.5	30761.5	29207.1	31789.0	-0.1	0.2	244
17079.0	14730.7	15708.0	14958.0	-0.1	0.0	439
8706.9	8802.0	9025.2	8772.3	-0.1	0.2	190
8037.3	7881.5	7385.1	7605.4	-0.1	0.0	182
76083.6	71564.5	76216.8	71655.0	-0.1	0.1	617;732
3729.8	3425.9	3100.7	3306.2	-0.1	0.1	264
31066.3	29496.5	29677.3	31137.0	-0.1	0.1	191
85758.0	66224.2	68835.6	77544.0	-0.1	0.3	624;730;730
4749.6	4429.6	4714.4	4175.4	-0.1	0.1	113
40217.9	37068.6	38855.9	34978.0	-0.1	0.1	44
20986.2	20670.4	19735.7	20729.0	-0.1	0.2	1173
5692.0	5606.3	4942.6	5481.7	-0.1	0.1	146
3535.9	3538.1	3405.0	3591.4	-0.1	0.1	78
8425.9	9271.1	10940.8	8237.8	-0.1	0.5	120
22383.0	19280.1	17904.1	22570.0	-0.1	0.3	76
6708.0	4492.0	8322.5	5302.9	-0.1	0.7	41
13719.0	12824.4	12431.5	11986.0	-0.1	0.4	141
1748.7	1821.4	1442.9	1776.6	-0.1	0.4	1656
9755.8	9044.1	8881.3	10542.0	-0.1	0.2	90
12880.0	10694.4	11694.2	11150.0	-0.1	0.1	849
14032.0	13227.0	12855.8	13055.0	-0.1	0.2	479
76153.8	68107.3	67461.4	68990.0	-0.1	0.0	1974
7836.4	5277.1	5972.9	6999.1	-0.1	0.5	350
354600.3	333980.8	331097.9	364900.0	-0.1	0.1	1210
14582.4	13833.1	14542.1	14581.0	-0.1	0.1	1122
4527.6	4028.8	4692.9	4038.2	-0.1	0.3	1052

Ubr4	0.779515	4.78E-43	81.532	S(0.001)NT(0.002)PMGDKDDDD	5	1.3186	55114.9	52630.0
Epb41l2	0.996871	1.68E-10	50.505	DFPGPPGEGS(0.997)VPGPVVS(0	3	0.58631	4441.3	4461.3
Hspa8	0.999924	1.98E-10	48.392	ELNKS(1)INPDEAVAYGAAVQAAILS	4	1.0068	4409.8	3930.1
Rab11a	0.919126	0.00509177	73.196	AIT(0.079)S(0.919)AY(0.001)Y(0.0	2	1.0033	46914.0	43363.2
Ahctf1	0.984942	4.59E-05	82.278	LEFIQQS(0.985)PT(0.015)R	3	1.0501	2287.2	1814.6
Eif4g3	0.967804	4.79E-43	135.26	GS(0.031)S(0.968)KDLLDNQS(0.00	3	0.22995	59932.1	56543.8
Zfp536	0.499967	7.16E-15	86.772	RGS(0.5)GS(0.5)DQESQSVSR	3	1.7422	3003.5	2458.6
Zfp536	0.499967	7.16E-15	86.772	RGS(0.5)GS(0.5)DQESQSVSR	3	1.7422	3003.5	2458.6
Sri	0.982397	0.00442746	40.516	QHFIS(0.982)FDS(0.018)DR	3	-0.96183	2138.6	2000.4
Gpalpp1	0.993058	3.01E-06	79.875	GDDDS(0.993)PKPVT(0.007)R	3	-0.22363	32004.4	31466.1
Hecw2	0.992867	1.97E-14	77.221	GSPVSSPQNS(0.993)PGT(0.007)QI	2	-0.2903	2479.0	2448.6
Srrm2	0.800429	2.16E-07	71.08	GRSECD(0.8)S(0.199)PEPK	3	-0.14217	7752.9	7296.5
Phactr4	0.992917	6.25E-09	101.71	S(0.993)LPIT(0.007)IEMLK	3	0.13474	26080.3	25779.7
Heatr5b	0.722124	1.31E-12	107.21	MS(0.004)DS(0.137)PS(0.137)HVA	2	-0.40345	24761.2	24928.5
R3hdm2	0.822446	1.73E-70	121.91	DS(0.167)S(0.822)QEYT(0.01)DSTC	3	-0.73267	47033.3	50342.9
Pphln1	1	3.63E-07	72.898	DAPFFRES(1)PVGR	3	-0.46957	29622.6	35330.5
Spp1	0.999999	1.61E-72	176.21	VAEFGS(1)S(1)EEKAHYSK	4	-0.23743	386297.0	412637.4
Cdk12	0.533601	0.049447	48.188	KS(0.534)PGS(0.387)T(0.074)S(0.0	2	0.28402	8338.4	8196.6
Ltbp1	0.74573	5.06E-05	63.16	EEPVEALT(0.021)S(0.233)S(0.746)	3	0.73643	3858.4	3627.8
Ppp2r5e	0.735828	0.00201584	65.842	RS(0.026)QS(0.736)S(0.185)S(0.05	2	-0.53747	15340.2	16835.4
Xrcc1	1	0.0319703	43.124	S(1)AKAGEK	3	-0.7214	19596.9	19117.0
Rarg	1	0.00120605	58.04	RGQS(1)PQPDQGP	2	-0.23606	2276.0	2240.6
Akap8l	1	1.76E-05	62.055	QGG(1)PDEPDCK	3	-1.2855	84491.8	86885.5
Ints10	0.879288	9.41E-09	92.039	T(0.009)MS(0.112)S(0.879)DDEEC	3	-0.30045	15310.4	18096.9
LOC10036	0.922932	2.08E-06	55.011	LVQS(0.923)PNS(0.057)Y(0.02)FM	3	-0.64504	5794.6	4822.6
Aldh3a2	1	0.00882083	43.68	IKS(1)LLEGQK	3	-0.42451	3996.0	3819.7
Mbd3	0.692633	6.37E-05	73.327	Y(0.001)DS(0.306)S(0.693)NQVK	2	0.72898	20044.2	20676.8
Fra10ac1	0.995498	0.000321965	52.247	TKTES(0.004)DES(0.995)PHK	4	0.30282	25068.9	23252.4
RGD13115	0.777257	2.91E-32	108.45	HS(0.02)S(0.777)T(0.193)GDS(0.0	2	0.88371	16445.9	18317.4
Dock9	1	7.11E-12	131.69	AEPYIAS(1)EYK	2	0.78622	38963.6	37068.0
Myo18a	0.917944	0.000151144	79.201	S(0.013)S(0.013)S(0.918)PT(0.024	2	0.43543	25478.0	24258.3
Rps3	0.958165	9.54E-22	129.29	DEILPT(0.042)T(0.958)PISEQK	3	-1.5863	100424.8	99087.6
Myo9b	0.848255	1.38E-10	55.898	S(0.152)PS(0.848)PLQR	2	-0.27857	9406.9	8779.8
Lima1	0.997833	5.32E-22	85.497	SEAQQPIYT(0.002)KPLS(0.998)PD/	3	0.55086	61134.4	55093.6

54809.9	45690.1	48721.6	54509.0	-0.1	0.2	2782
4260.3	3608.1	3979.5	4471.4	-0.1	0.2	570;570;570
3965.3	3615.9	3740.1	3917.3	-0.1	0.1	362
47771.6	39931.8	42161.2	44390.0	-0.1	0.1	78;78
2319.5	1718.2	1861.3	2304.1	-0.1	0.5	1138
63120.5	52199.7	55932.8	56428.0	-0.1	0.1	1188
2109.8	1924.6	2995.6	2018.2	-0.1	0.6	676
2109.8	1924.6	2995.6	2018.2	-0.1	0.6	678
1708.5	1900.1	1781.5	1677.0	-0.1	0.3	96
29861.1	27691.5	26609.2	31231.0	-0.1	0.2	190
2049.8	1948.4	2166.6	2279.6	-0.1	0.3	1181
5983.8	5887.3	6828.1	6560.8	-0.1	0.4	1441
26611.8	22973.8	24858.8	24086.0	-0.1	0.0	463
21563.3	22171.9	22397.7	20733.0	-0.1	0.2	1704
49247.1	43364.8	43883.9	47131.0	-0.1	0.1	143
27492.2	28343.8	27224.8	29158.0	-0.1	0.3	78
456231.0	364647.6	379507.5	406220.0	-0.1	0.2	27
7075.1	6315.2	7473.2	7852.4	-0.1	0.3	264;264;264
4582.5	3758.7	3382.0	3921.7	-0.1	0.4	779
13258.0	12666.0	14978.1	14001.0	-0.1	0.4	32
17019.4	15519.3	18099.6	17468.0	-0.1	0.2	35
2548.2	2128.5	2340.3	2007.8	-0.1	0.2	451
76672.3	72719.4	75840.6	78856.0	-0.1	0.1	284
14927.3	15028.7	13679.7	15606.0	-0.1	0.3	382
4316.0	4545.9	4392.6	4753.3	-0.1	0.4	27
3364.4	3270.8	3455.4	3524.5	-0.1	0.2	370
19211.5	19968.7	16757.4	18225.0	-0.1	0.2	54
22479.9	21577.9	23095.5	20244.0	-0.1	0.2	243
16691.5	15644.7	15094.6	16443.0	-0.1	0.1	974
50364.0	39673.3	33889.9	42339.0	-0.1	0.5	924
24841.3	23067.3	22576.2	22743.0	-0.1	0.0	2007
90527.6	87700.9	83047.5	95220.0	-0.1	0.2	221
9906.0	8121.7	8538.5	9101.4	-0.1	0.1	1222
65752.3	53793.5	56016.2	57078.0	-0.1	0.2	360

Nfic	0.516673	2.89E-08	96.464	TLPS(0.002)T(0.075)S(0.517)S(0.3	2	0.19644	11998.4	14640.5
Map1b	1	4.93E-53	129.07	EEQS(1)PVKAEVAEK	3	-1.5699	246884.6	243986.8
Arid4a	0.799565	3.54E-09	69.331	S(0.025)T(0.025)FS(0.8)S(0.15)NM	3	1.9786	5726.2	5571.4
Smpd3	0.972653	8.67E-12	62.739	AGQDS(0.973)GGS(0.026)GEPGS((	3	0.29967	6306.8	5682.3
Camsap2	1	0.0058378	66.27	DHIES(1)PK	2	0.19195	21882.1	20268.8
Gmpr2	0.664953	0.0382982	42.466	S(0.307)RS(0.665)EVDLT(0.028)R	2	-1.3568	30339.4	27359.2
Kif21a	0.505307	2.06E-29	80.067	HSDSGAS(0.004)ET(0.073)S(0.371	3	-0.41049	29360.2	28130.4
Tax1bp3	1	8.56E-22	80.236	VS(1)EGGPAEIALQLIGDK	3	0.90378	9544.3	10451.2
Pak1	0.971978	6.13E-13	105.78	SVIEPLPVT(0.972)PT(0.028)R	2	-1.3473	12463.5	11945.4
Thrap3	0.706227	2.76E-11	55.588	S(0.037)S(0.041)S(0.165)KDS(0.70	4	-0.26167	8431.3	7742.6
Htatsf1	0.99663	3.30E-26	81.144	AEDDGGES(0.997)EGDAS(0.003)EI	4	-0.1149	37444.2	38548.9
Ppp2r5e	0.700531	0.0016639	86.276	S(0.002)QS(0.007)S(0.701)S(0.29)	2	0.13636	45187.0	42274.0
Nfxl1	1	1.04E-06	51.31	S(1)RPAGCPHPCVLPCHPGK	5	0.17529	3826.8	2901.1
Fam208a	0.82995	2.71E-17	69.612	SCDY(0.001)QFPS(0.163)S(0.83)P/	3	0.36042	16871.6	18031.1
Atp1b1	1	0.00671849	41.242	AKEEGS(1)WKK	4	0.15502	33333.0	32990.8
Adra2a	0.998573	0.000119725	52.52	AS(0.001)QVKPGDS(0.999)LPR	3	0.11072	47252.8	43252.4
Gpcpd1	0.951678	2.55E-11	47.155	LT(0.001)LEGLEEDDDDDDKAS(0.9	4	-1.1025	41855.9	41678.4
LOC10369	0.960567	0.000571518	52.862	QKS(0.961)IGIT(0.039)EEER	3	-0.84901	28626.7	27563.3
Hmgxb4	0.969943	1.41E-12	70.784	S(0.015)S(0.015)PQS(0.97)PDT(0.(	3	2.1943	11853.4	10705.0
Nfia	0.683367	4.50E-05	54.393	S(0.683)LPS(0.313)T(0.003)SSTS	3	2.2211	48023.2	41200.1
LOC61957	0.978052	0.00513902	86.205	LES(0.978)PS(0.022)ER	2	0.46261	29691.8	28622.9
Clgn	0.900795	3.91E-58	102.47	LS(0.059)KS(0.901)GS(0.403)EDEN	4	0.11316	30068.6	29873.4
Thrap3	0.702032	8.59E-30	86.08	KS(0.975)PVGKS(0.046)PPAT(0.13	4	0.11169	47446.0	45909.2
Rprd1a	0.696242	4.73E-20	67.827	VDENENCS(0.012)S(0.042)LGS(0.6	3	0.7193	3834.5	4725.5
Dyrk2	0.987927	1.05E-05	48.899	S(0.001)GVGT(0.012)GPPS(0.988)	3	0.76295	4745.4	3970.9
Tmem11	0.892516	0.000657902	68.786	LGPGGGS(0.107)S(0.893)RER	2	-0.6143	39841.5	39962.8
Efs	0.996929	1.65E-15	62.052	RAS(0.997)ALLNLY(0.003)EAPEELL	3	0.37175	3676.9	3364.5
Cds2	0.986229	0	246.9	LDGETAS(0.986)DS(0.014)ESR	2	0.0067761	1018607.9	1115562.4
Srrm2	0.673087	0.00819129	48.527	S(0.673)LT(0.73)RS(0.597)PPAIR	3	0.08862	7119.8	8640.6
Srrm2	0.729612	0.00819129	48.527	S(0.673)LT(0.73)RS(0.597)PPAIR	3	0.08862	7119.8	8640.6
Myo1c	0.588945	0.00707436	81.547	S(0.411)IS(0.589)PEWK	2	0.37046	17013.6	17909.3
Mtmr7	0.868916	2.70E-13	75.608	S(0.869)PS(0.129)GGEHAPS(0.002	3	0.17528	8165.4	7636.0
LOC68570	0.954549	8.24E-17	56.854	HSHTIGGLPES(0.009)DDQAELPS(0	4	-0.68703	4619.2	4338.4
Pdzd2	0.990702	1.59E-11	67.214	GNS(0.991)PPAS(0.007)EPAIAT(0.1	2	-1.5615	6625.5	8591.8

12844.9	11555.1	10716.4	13940.0	-0.1	0.4	275
251553.6	221190.9	228091.4	231640.0	-0.1	0.0	614;488
4715.5	5099.5	4831.2	4756.5	-0.1	0.3	389
5686.4	5218.5	5749.2	5244.4	-0.1	0.1	309
18572.7	17568.6	18033.4	20095.0	-0.1	0.2	1246
24244.0	24579.7	23437.5	27144.0	-0.1	0.3	28
28382.3	24893.2	27240.8	26637.0	-0.1	0.0	1273;1260
10811.4	9347.5	9437.3	9474.4	-0.1	0.1	61
13362.3	11545.2	11533.9	11569.0	-0.1	0.1	211
8243.6	7740.9	6987.2	7672.2	-0.1	0.1	187
38000.3	33415.7	34850.6	36314.0	-0.1	0.0	441
42632.5	38378.7	41392.9	39586.0	-0.1	0.0	33
3166.6	3047.7	2644.1	3386.3	-0.1	0.5	716
18244.8	17050.5	15447.2	16266.0	-0.1	0.1	970
29963.3	29234.7	29724.3	29387.0	-0.1	0.1	11
44836.3	35673.9	44530.4	43981.0	-0.1	0.3	346
41646.7	36850.8	40469.5	37546.0	-0.1	0.0	175
23870.3	21177.5	26489.5	25798.0	-0.1	0.4	168
10505.7	9399.3	11383.2	9559.9	-0.1	0.3	105
46144.8	39145.4	44814.7	40275.0	-0.1	0.2	265
30346.6	26919.3	27868.1	26583.0	-0.1	0.0	168
29045.6	26261.5	28511.4	26898.0	-0.1	0.0	580
50824.9	42820.3	40589.2	48923.0	-0.1	0.2	328
4694.1	3547.0	4494.1	4124.3	-0.1	0.4	156
3916.8	3704.7	3978.8	3912.2	-0.1	0.3	184
41878.8	39216.9	36172.5	36303.0	-0.1	0.0	16
3492.1	3256.0	3317.8	3095.0	-0.1	0.1	228
1007385.5	1023127.5	890383.4	970200.0	-0.1	0.2	32
7959.2	6563.0	7785.4	7425.7	-0.1	0.3	2023
7959.2	6563.0	7785.4	7425.7	-0.1	0.3	2025
18536.5	15536.9	16477.4	17067.0	-0.1	0.1	845
9111.7	7202.6	7157.1	8513.3	-0.1	0.3	634
4394.0	3963.5	3773.1	4522.5	-0.1	0.2	1256
7920.6	6880.9	5711.7	8652.1	-0.1	0.6	2473

Bicd2	0.985609	0.0014656	60.971	QT(0.014)S(0.986)LDNEK	2	-0.43769	39846.2	40741.6
Srrm2	1	0.00273091	55.04	S(1)PS(1)PKPR	2	0.18192	143336.2	139527.6
Stmn3	0.979142	2.01E-06	76.01	AS(0.979)GQS(0.021)FEVILK	3	2.0968	3047.4	2638.4
Vdac2	0.996494	6.34E-15	87.429	LTFD TT(0.001)FS(0.996)PNT(0.002)	3	-0.27105	36661.8	35617.9
Prpf4b	0.997794	6.96E-22	81.656	SVNEENGEVS(0.998)EDQS(0.002)C	3	-2.1888	4941.6	4943.9
Atrx	0.78418	3.57E-06	49.537	EVIEIEDAS(0.784)PT(0.209)KCPIT(i	3	-1.4629	8570.5	9212.8
Ddah2	0.967285	3.21E-22	89.468	LSDVTLVPVS(0.967)CS(0.033)ELEK	3	2.0294	8491.0	8541.2
Serbp1	0.503646	7.25E-06	68.536	DELTA(0.022)ES(0.475)PKY(0.504)IC	3	-0.96984	60080.0	52180.2
Zc3h14	1	1.59E-09	95.57	DLVQPDKPAS(1)PK	2	-0.57783	74127.4	81388.9
Tenc1	0.996872	5.49E-05	53.491	S(0.997)PGGHT(0.002)NS(0.001)A	2	1.923	7844.4	7714.2
Ptrf	0.988896	0.00108404	78.324	LPAKLS(0.989)VS(0.011)K	2	-1.6851	135953.5	126935.0
Dzip3	0.780332	3.85E-70	118.85	SAPDGS(0.007)NAS(0.78)PS(0.209	4	-0.72296	22567.9	23127.4
Mprp	0.682046	3.94E-25	74.364	AATEALGEKS(0.128)PEGT(0.682)T	3	1.0645	11513.4	12742.9
Tex2	0.521668	1.14E-07	87.083	HS(0.522)S(0.456)PS(0.022)GHLSH	3	-0.39422	2763.3	2445.6
Noc2l	0.838763	0.000434063	58.132	GAHT(0.14)S(0.839)PS(0.021)LHK	3	0.70702	14662.8	15239.4
Nup155	0.735929	0.000164146	68.676	AAPQS(0.264)PS(0.736)VPK	2	-0.4009	40361.5	40329.2
Nefh	1	3.62E-08	91.355	S(1)PMKEEAKS(1)PEK	5	1.2225	1019347.4	1003369.9
Msi2	0.84522	1.47E-22	65.782	GSVLNS(0.002)Y(0.004)S(0.013)AC	3	0.87202	8959.1	8518.2
Zim1	0.813743	0.0185479	70.856	S(0.814)DT(0.178)S(0.008)AGK	3	0.5028	107318.5	99500.0
Arhgap20	0.818989	0.0406194	41.383	S(0.01)S(0.031)S(0.819)LT(0.135)C	2	-0.84347	9138.5	9935.4
Rps2	1	3.08E-05	51.771	AFVAIGDY(1)NGHVGLGVK	3	0.12665	2558.9	3121.2
Dab2	0.999981	4.72E-07	88.561	SSPNPFVGS(1)PPK	2	1.1897	20196.8	19947.4
Med26	1	9.13E-11	51.783	RLDLLPNAES(1)PVHWPEQPEGHPR	4	1.2575	3426.0	3960.4
Usp54	0.989427	1.25E-32	95.153	KADAPQAS(0.007)GY(0.002)HS(0.!	4	1.3722	90361.0	100659.5
Nefl	0.786922	2.91E-32	108.45	SAYSSYS(0.001)APVS(0.787)S(0.14	2	-1.3791	51997.2	59320.1
lws1	0.971749	1.89E-26	85.937	AAVLS(0.028)DS(0.972)EDEDKASA	3	0.99496	41803.4	42123.7
Gtf2f1	1	0.00960444	57.225	KAPT(1)PQEK	4	3.4274	26094.6	25690.8
Senp7	0.999941	2.19E-05	59.198	SEDVLAQS(1)PLPK	3	0.022711	6073.0	4525.5
Agps	0.709063	6.27E-11	53.361	AASAAGASPAAS(0.162)PAAPES(0.	3	-0.65989	18046.4	17084.4
Smim13	0.566173	2.59E-129	147.16	ELVGDTGSQEGDNEQPS(0.433)GS(	4	-1.3168	46574.1	46973.2
Topors	0.947674	7.02E-12	71.601	LQQTVPADAS(0.948)PDS(0.052)K	2	0.39446	30187.9	32497.2
Tbx18	0.995939	0.000425718	55.896	RGS(0.996)PCS(0.004)MLSLK	3	1.3489	11158.7	9782.7
Ccdc92	0.870597	1.70E-08	46.145	LLS(0.009)S(0.008)S(0.016)GT(0.0	4	0.9524	10964.3	10101.8
Atp1a3	0.882396	0.014233	63.816	DDKS(0.882)S(0.118)PK	2	0.28694	156753.9	147951.9

42317.4	36693.6	35785.7	40371.0	-0.1	0.1	411
141075.7	130950.2	122049.8	136260.0	-0.1	0.1	1721
2895.4	2598.3	3040.4	2240.7	-0.1	0.4	50
35243.9	31418.1	33349.2	33963.0	-0.1	0.0	116
5411.4	4821.8	4150.1	5074.6	-0.1	0.3	33
9696.5	8336.2	9236.8	7660.9	-0.1	0.3	1502
7700.4	7244.0	7849.9	7619.1	-0.1	0.1	261
52408.1	55037.6	48432.0	47754.0	-0.1	0.3	237
80361.3	69293.1	71416.4	75920.0	-0.1	0.1	515
7164.0	6553.6	7135.0	7180.1	-0.1	0.1	968
117579.1	111106.9	116610.4	121720.0	-0.1	0.2	169
23081.4	20282.2	21131.4	21754.0	-0.1	0.0	1105
12633.0	11133.8	10523.9	12225.0	-0.1	0.2	2348;2371
2477.3	2302.3	2674.8	2082.7	-0.1	0.4	732
13046.1	12395.4	13446.7	13608.0	-0.1	0.2	60
38360.1	34720.2	38293.8	36344.0	-0.1	0.1	993
1150771.5	986740.8	809209.2	1119200.0	-0.1	0.4	808;778
8711.2	8277.1	8155.6	7625.0	-0.1	0.0	274
95702.8	92065.5	90569.7	95285.0	-0.1	0.1	130
8063.7	7441.6	8783.9	8705.6	-0.1	0.3	20
2632.9	2349.6	2636.3	2651.7	-0.1	0.3	133
22766.3	17541.1	18316.6	21943.0	-0.1	0.4	401
3358.8	3378.7	3338.7	3155.1	-0.1	0.2	327
96329.9	80375.2	88111.8	95536.0	-0.1	0.2	424
56731.6	50829.1	51939.3	51645.0	-0.1	0.1	48
36193.6	37407.4	35380.7	37593.0	-0.1	0.2	344
25504.6	22703.2	23098.7	25222.0	-0.1	0.1	331
5592.9	5145.7	4734.3	4999.2	-0.1	0.4	47
19491.5	16603.9	15923.9	17669.0	-0.1	0.2	94
46713.3	40386.1	41560.6	46951.0	-0.1	0.1	61
34101.5	29418.4	25089.6	34446.0	-0.1	0.4	99
11006.3	8962.6	10298.8	10101.0	-0.1	0.2	8
8737.9	9627.8	8408.5	9356.7	-0.1	0.3	166
149539.6	141663.8	128472.4	147370.0	-0.1	0.1	9



RGD13115	0.932776	1.91E-10	63.691	DS(0.011)QPPS(0.933)PS(0.056)LL	3	-0.93145	8070.4	9670.0
Epb41l3	0.999651	0.00241476	55.353	FLTLGS(1)KFR	3	-0.88525	3190.1	3575.5
Sept6	0.898248	8.89E-09	51.966	AAAELLQS(0.003)QGS(0.01)QAGG	3	-2.4222	8503.7	18700.2
Atp5a1	0.737358	2.66E-05	53.21	ILGADT(0.262)S(0.737)VDLEET(0.0	2	0.30276	4146.1	4879.7
Mypop	0.999977	3.46E-25	64.16	SEEGVPKPPPVAPLPLHDS(1)PPHK	5	0.56461	4976.8	5485.3
Hspa4l	0.980946	0.000175211	45.844	IKS(0.981)IDLPIQS(0.006)S(0.007)I	3	0.95478	9809.1	8839.5
Rpl19	0.996872	0.00885656	53.211	KPVT(0.003)VHS(0.997)R	3	-0.038728	19103.1	19031.5
Nop56	0.89926	1.68E-05	52.814	KFS(0.899)EEPEAAAS(0.095)CT(0.0	3	0.46974	16202.6	16534.9
Myo9b	0.999788	2.32E-65	115.45	VSPVLPSSSLES(1)PQDEDKGENSTK	3	-1.4306	50110.4	54495.8
Clec2l	0.964334	5.82E-15	123.28	SGSGYEGS(0.964)T(0.029)S(0.006)	3	0.26219	103424.4	93837.8
Mrc2	0.985547	0.00123682	42.818	QS(0.014)AERGS(0.986)FEGAR	3	-0.43299	5080.9	5168.8
Map3k2	0.534371	1.04E-30	86.508	DRS(0.534)S(0.423)PPPGY(0.043)I	3	1.6835	7861.0	7998.3
Pcdhga12	1	0.0195825	54.722	ES(1)ELEIK	3	2.1756	87099.0	86334.9
Cobl1	0.595436	3.25E-13	73.279	IQKPAET(0.595)S(0.405)PPPVAPK	4	1.0535	18395.9	21318.5
Nek9	0.615823	4.08E-34	99.148	S(0.192)NS(0.616)S(0.192)GLSIGT	3	-0.18764	13836.3	14855.5
Smcr8	0.927765	0.000459997	83.883	S(0.036)S(0.036)VES(0.928)VLIK	2	-0.55656	7338.8	7083.3
Bcor1	0.983791	5.41E-06	70.41	SAGSEET(0.001)S(0.004)ES(0.984)	2	0.24619	2141.0	2261.7
Smg6	0.660854	7.13E-31	72.316	GILILPAHT(0.001)ALS(0.049)VS(0.0	3	0.91429	2024.5	2966.9
Prrc2a	0.515781	1.21E-25	73.676	GS(0.007)ET(0.028)GS(0.449)ET(0	4	-0.23577	5257.6	5865.0
MAST1	0.784439	6.21E-05	47.016	NFS(0.21)PNT(0.784)PAHFS(0.002	3	-1.49	9291.6	9210.0
Htatsf1	0.754251	1.15E-18	74.793	EGES(0.211)DGDY(0.754)PERES(0.0	3	1.1462	8486.2	9268.4
Lrrn1	0.992599	0.0101467	44.318	NY(0.007)HHS(0.993)LK	3	-0.49122	44074.3	50940.7
Lima1	0.933232	0.0224494	40.039	RS(0.021)S(0.046)S(0.933)LKER	3	-0.20278	21396.7	23775.6
Rps27a	0.93448	7.50E-08	54.951	T(0.001)IT(0.003)LEVEPS(0.934)D	2	0.99098	12914.3	12580.5
Zfp219	0.882157	0.000369416	86.879	ADT(0.882)S(0.118)PPYVR	2	1.4472	25958.7	22891.5
Sos1	0.837532	4.50E-27	82.609	TPDVFS(0.024)S(0.138)S(0.838)PL	4	-1.0217	7355.0	6951.7
Utrn	0.760491	1.03E-20	113.67	NVRPQPPT(0.76)S(0.24)PEGR	3	-0.096931	18698.8	19160.9
Palm2	1	1.12E-17	81.51	AELVLIDEDDEKS(1)LREK	4	-0.3917	46766.2	46431.3
Ehbp1	1	0.0178456	46.475	KPS(1)EDEK	3	0.3835	49603.5	46208.6
Cdk16	0.799713	0.0369708	64.711	QLS(0.2)MT(0.8)LR	2	-0.47516	5910.1	5434.1
Eif4g3	0.981538	0.00643028	49.774	S(0.982)PAVAT(0.018)VIQR	2	-0.76265	21861.8	20620.9
Rbmx	0.981242	2.43E-15	82.01	DGYGGS(0.01)RDS(0.981)YT(0.006	3	-0.25625	5928.3	5807.2
Cbx3	0.997512	9.59E-22	123.14	RKS(0.998)LS(0.002)DSESDDSK	4	-0.069447	105627.3	106519.2
Ccar2	1	5.51E-10	87.647	QPS(1)AGGEEEEKAR	3	-0.67621	27361.3	28434.2

9896.6	8112.6	8311.5	8978.7	-0.1	0.3	1115
3177.4	2869.6	3066.8	3203.0	-0.1	0.2	508;508;508;407;407;407
17962.6	16712.8	10096.7	14711.0	-0.1	0.8	358
4714.7	4072.2	4710.5	3849.1	-0.1	0.3	65
5107.7	4679.9	4305.4	5328.6	-0.1	0.3	371
8685.7	8109.8	8855.5	8164.1	-0.1	0.2	579
16039.9	16864.6	16164.3	16776.0	-0.1	0.2	59
16642.5	14775.8	15078.6	15543.0	-0.1	0.0	561
52659.3	46694.4	49446.2	48457.0	-0.1	0.0	1247
100438.3	88738.1	90848.6	94138.0	-0.1	0.1	52
4859.5	4208.1	4964.9	4719.4	-0.1	0.2	1446
9216.4	7599.8	7498.7	7958.7	-0.1	0.2	163
93741.7	73068.1	85905.1	86699.0	-0.1	0.2	136
21756.0	18623.4	17611.3	20289.0	-0.1	0.3	974
15156.2	13763.8	12529.8	14026.0	-0.1	0.1	736
7284.2	6530.4	6501.1	6928.4	-0.1	0.0	423
1933.1	2177.5	1921.8	1726.8	-0.1	0.4	1481
2931.8	2269.7	2778.4	2238.7	-0.1	0.6	477
4899.1	5127.6	4254.4	5353.0	-0.1	0.4	1115
9325.2	8069.7	8026.9	9496.7	-0.1	0.2	72
9260.6	7750.4	7689.9	9407.4	-0.1	0.3	459
42625.1	40265.1	40035.7	46299.0	-0.1	0.3	664
16905.4	16797.5	21518.2	18783.0	-0.1	0.5	582
13909.5	11445.1	12108.8	12691.0	-0.1	0.1	20
22304.2	22650.4	21359.0	21440.0	-0.1	0.2	642
6442.1	6306.1	6468.0	6311.4	-0.1	0.1	1215
18675.9	16410.3	17220.1	18374.0	-0.1	0.1	1404
47581.0	40347.6	44540.0	44611.0	-0.1	0.1	315
50016.9	43261.4	42680.6	48207.0	-0.1	0.1	1032
4618.4	4614.4	5177.7	4892.2	-0.1	0.4	14
20871.2	19266.9	18572.0	20449.0	-0.1	0.1	473
5824.9	5703.2	5529.7	4923.3	-0.1	0.1	326
99159.7	92644.1	94148.6	99622.0	-0.1	0.1	93
26901.4	23664.5	24544.6	27877.0	-0.1	0.2	625

Vcpip1	0.963041	1.79E-15	67.646	DGPS(0.004)S(0.021)APAT(0.963)I	3	-0.20012	38944.6	37430.0
Ece2	1	7.55E-21	108.63	AIQDSLEVG(1)QKR	3	0.45536	8424.0	8093.6
Bnip3	0.771307	1.23E-05	50.077	S(0.026)S(0.026)HCDS(0.403)PPRS	3	0.19514	1583.8	1192.7
Dlg1	0.999773	3.46E-20	74.287	IS(1)PQVPNEVLGPELVHVSEK	3	-0.64873	11518.7	11528.6
Sun1	1	0.000149559	63.473	HPVLDES(1)LIR	3	1.2047	1015.2	1024.1
Macf1	0.878612	4.41E-26	69.704	EVEEELAAS(0.057)GGQS(0.879)PT	3	1.2693	10280.9	10798.5
Ahnak2	1	9.24E-70	139.04	RKLS(1)ANEGEEGAVQHPQQGQK	5	0.59177	194824.2	190095.3
Dennd2a	0.999653	1.12E-06	85.006	RLS(1)QSTESNSGK	2	0.21441	22474.9	22140.1
Srrm1	0.802833	0.0188977	60.255	KAQVS(0.803)PQS(0.197)	2	-0.88817	34449.4	33664.3
Gfap	1	0.048089	45.829	S(1)VS(1)EGHLK	2	0.50538	17600.4	16334.2
Akap12	0.993321	4.58E-08	54.582	VKEEQEVFVHS(0.993)GPNS(0.007	4	0.012521	22137.3	21542.3
Mtss1l	0.880345	8.18E-19	51.491	RLS(0.88)LPNT(0.061)AWGS(0.027	4	-0.57162	4755.1	4927.1
Psip1	0.996282	1.45E-22	67.685	ETSVS(0.003)KEDT(0.996)DQEEK	3	-0.46574	24374.8	23593.5
Ncoa7	0.832248	9.48E-21	105.53	VLS(0.003)S(0.021)T(0.144)S(0.83	2	-1.0154	19684.0	18839.5
Nefm	1	1.57E-12	101.61	KEVAKES(1)PK	4	-0.25733	578688.1	531861.1
Sec62	0.996572	7.13E-05	82.069	S(0.003)ES(0.997)GKEDDKK	3	-0.44794	191520.5	197543.4
Add2	0.998607	1.60E-15	54.425	HKS(0.999)EVEIPAT(0.001)VTAFVF	4	-1.0921	4592.3	5649.0
RGD15611	0.709431	0.000388258	42.347	DQS(0.709)PPPS(0.462)PPPS(0.34	3	0.1625	5796.1	5041.1
Stag1	0.932667	0.00240467	51.073	MS(0.026)VNS(0.933)GS(0.028)S((	2	0.65608	22934.0	25736.9
Thrap3	1	0.000302158	71.176	KS(1)PEIHR	3	0.25466	151625.3	150584.5
LOC10091	0.911135	0.00219428	44.045	EFLS(0.001)KPT(0.088)AES(0.911)I	3	-0.60747	6730.2	6553.1
Glcci1	0.889107	0.000194925	84.507	DSGS(0.012)S(0.099)S(0.889)PLPK	2	-0.32983	6706.1	6729.2
LOC68517	0.999959	6.72E-31	90.729	DMDEPS(1)PVPNVEEVTLPK	4	0.38433	147367.5	143619.1
LOC68493	1	0.000734463	72.34	EEAVS(1)PAPK	2	0.20328	31080.0	28953.1
Rasa3	0.85172	0.000244721	82.85	QQSEIS(0.006)T(0.143)HS(0.852)I	2	-0.0468	35716.0	35451.2
Cic	0.74086	1.96E-07	90.853	AAS(0.741)EDMT(0.2)S(0.059)DEE	2	-0.84515	6072.1	5845.6
Chp1	0.952228	1.35E-43	150.91	AS(0.048)T(0.952)LLRDEELEEIKK	3	0.68853	94850.2	97752.7
Vapa	0.998938	8.49E-28	106.39	VAHSDKPGSTS(0.001)AVS(0.999)F	3	-0.40808	17996.3	17261.1
Ubtf	1	0.0146123	45.433	GKLPE(1)PK	3	0.073911	20100.2	21270.3
Epb41l2	0.999988	5.40E-28	147.39	ELSPGS(1)GPGETR	2	-0.20431	39260.6	35348.1
Znrf2	0.809815	7.33E-21	73.058	AYS(0.154)GS(0.81)DLPS(0.032)G1	2	0.68406	29276.7	27864.9
Atp13a1	0.858505	5.11E-05	63.091	DLEDES(0.859)T(0.141)PIVK	3	0.051323	4650.9	4554.1
Zc3h18	0.99795	1.34E-36	105.51	VQSQEEIHS(0.998)DEEDQAS(0.00	4	0.16689	40516.5	39832.3
Prkca	0.87182	5.57E-58	121.91	T(0.04)FCGT(0.872)PDY(0.053)IAP	2	-2.3578	64052.9	63782.3

37032.5	34047.1	34123.9	36174.0	-0.1	0.0	760
9579.2	7376.7	7811.5	8824.1	-0.1	0.3	32
1320.6	1287.0	1481.6	1001.3	-0.1	0.6	64
12628.8	10535.5	11319.1	10973.0	-0.1	0.1	122
939.0	690.3	1096.2	954.0	-0.1	0.6	139
13557.2	10881.6	10518.4	10473.0	-0.1	0.4	5548;5599
197224.9	170867.7	182150.4	182680.0	-0.1	0.0	169;169
21504.7	19561.7	20995.6	20287.0	-0.1	0.0	494
32822.9	30783.5	31759.0	30342.0	-0.1	0.0	836
20205.8	15357.6	16506.3	17960.0	-0.1	0.4	398
23621.2	19642.0	21120.7	21175.0	-0.1	0.1	1255
4996.2	4479.7	3999.0	5030.6	-0.1	0.3	602;613
25021.2	20952.0	20275.4	25952.0	-0.1	0.4	122
16624.4	18126.2	15663.1	16971.0	-0.1	0.3	126
635995.8	527958.7	501920.7	577800.0	-0.1	0.3	642
206466.0	175806.6	173686.7	198690.0	-0.1	0.2	117
4188.7	4473.8	4592.4	4216.7	-0.1	0.4	396
5392.3	4168.5	5192.5	5578.6	-0.1	0.4	680
24836.0	20800.2	23417.2	23449.0	-0.1	0.2	929
142395.9	135405.0	134189.6	139690.0	-0.1	0.0	669
7329.5	5686.0	6571.9	6718.5	-0.1	0.2	153
6959.8	5914.6	6371.7	6490.3	-0.1	0.0	281
146697.0	128981.3	127809.8	146160.0	-0.1	0.1	231
31998.9	27442.9	30242.6	27046.0	-0.1	0.1	374
36823.8	31859.2	32280.5	35286.0	-0.1	0.1	833
5579.0	5521.5	5509.5	5078.4	-0.1	0.1	1337
104520.2	89502.6	92595.9	91467.0	-0.1	0.1	7
20114.3	15248.7	17068.4	18667.0	-0.1	0.3	219
22468.2	18634.4	18108.2	22042.0	-0.1	0.3	447
43309.6	32251.9	38196.5	38135.0	-0.1	0.4	710;640;738
28654.8	27370.3	24675.0	26960.0	-0.1	0.1	20
4351.8	4124.0	3982.1	4378.2	-0.1	0.1	938
38123.8	37504.2	36341.4	35255.0	-0.1	0.0	63
62489.2	56325.6	57090.2	61854.0	-0.1	0.0	501

Prkcb	0.87182	5.57E-58	121.91	T(0.04)FCGT(0.872)PDY(0.053)IAP	2	-2.3578	64052.9	63782.3
Prkcg	0.87182	5.57E-58	121.91	T(0.04)FCGT(0.872)PDY(0.053)IAP	2	-2.3578	64052.9	63782.3
Wdr7	0.999965	0.00321207	55.314	REES(1)DPEYR	2	0.42984	1540.7	1328.8
Arfgef1	1	4.07E-33	80.117	QS(1)PPHGEAK	3	2.8899	122846.0	122700.9
Flna	0.816613	4.12E-06	53.3	SPFSVGVVS(0.164)PS(0.817)LDLS(0	3	0.91427	8677.9	7778.1
Arrdc1	0.549257	4.84E-17	59.748	S(0.001)HS(0.001)QQQPLS(0.176)	5	1.477	2812.8	3202.0
Tanc1	1	0.00592268	70.912	KS(1)PGPVR	3	0.26094	12238.1	12650.7
Ralgapa1	0.5	0.00302844	57.175	VNKEDT(0.5)S(0.5)PK	3	-1.1296	18499.7	18819.8
Ralgapa1	0.5	0.00302844	57.175	VNKEDT(0.5)S(0.5)PK	3	-1.1296	18499.7	18819.8
Inpp5e	0.591817	0.0115287	78.556	T(0.592)LS(0.408)LDDK	2	0.62657	37793.6	36192.7
Gtf2h1	0.729313	1.16E-05	48.354	LQES(0.729)IEY(0.27)EDLGNNSV	3	-1.3553	5765.8	6098.3
Trim9	0.540533	6.00E-15	88.565	NILVQT(0.019)PES(0.541)ES(0.36)	2	0.5222	9620.3	9752.9
Sec62	0.64609	4.29E-40	124.94	S(0.003)QHS(0.351)S(0.646)GNGN	3	-0.83318	44865.0	49446.7
Nefm	1	3.50E-16	92.133	AKS(1)PVPKS(1)PVVEVK	3	0.38072	1184473.8	1073451.8
Rbfox2	0.972849	6.93E-10	47.73	TEEAADEGMQNEPLT(0.973)PGY(0	3	-1.7015	30594.6	32486.2
Spp1	0.771544	0.00285725	49.333	SDAIDS(0.086)QAS(0.772)S(0.142)	2	-0.6034	7259.2	7081.8
Lrp1	0.922546	0.00581822	47.712	HS(0.923)LAS(0.066)T(0.012)DEK	3	-0.28109	17134.0	16770.7
Map1a	0.598421	6.09E-54	96.351	MAS(0.317)PPPS(0.598)GPPS(0.07	4	-1.3094	33802.9	29839.4
LOC10015	0.875976	0.0146912	75.571	KT(0.124)S(0.876)PQVK	2	-1.0201	32489.8	31452.9
Epb41l2	0.947595	1.74E-34	115.42	S(0.948)S(0.052)AEIQPAEQVR	2	0.17526	28829.4	27787.0
Nefm	0.548878	2.66E-157	173.43	EGS(0.549)S(0.451)EKDEGEQEEEG	5	0.51045	142728.0	137959.0
Itsn1	0.794203	6.48E-12	63.488	S(0.167)GS(0.794)GMS(0.039)VIS	3	-2.0887	25822.7	24170.5
Tmf1	0.999998	3.50E-36	138.66	SVSEINS(1)DDELPGR	2	-0.15775	129787.4	130587.7
Tmcc1	1	0.0001375	59.116	FGS(1)ADNIPNLK	2	0.11042	10253.2	10019.5
Tmcc1	0.841074	9.84E-33	78.354	FGS(0.159)ADNIPNLKDS(0.841)LEI	3	0.64615	15968.8	16401.1
Specc1l	0.805062	2.34E-32	95.153	KGS(0.805)S(0.194)GNAS(0.001)E'	4	0.9232	6442.7	6308.2
Kif21a	1	0.034743	47.603	KKS(1)VAGK	3	0.88424	34990.8	30765.2
Nop56	0.964137	4.63E-16	68.461	SLPKEEVAS(0.999)EPEEAAS(0.036)	4	-3.2593	18545.0	20547.4
Uhrf1bp1l	0.762312	3.76E-25	72.152	DHNLGS(0.054)PPKS(0.762)PT(0.4	5	-0.18393	12474.2	13882.6
Fhod1	1	0.00470787	91.867	S(1)LEPEPK	3	0.27966	36552.0	33825.6
Rbm10	0.999941	3.84E-14	120.6	LASDDRPS(1)PPR	3	0.47302	54587.7	57845.8
Map4	0.846813	6.31E-15	82.59	DT(0.001)MS(0.139)S(0.847)VEPD	3	0.49334	7987.5	8262.8
Fam162a	0.999955	0.00561768	96.936	APTQS(1)YR	2	-0.45461	42885.2	59495.6
Slc16a1	1	4.48E-42	148.96	LKS(1)KES(1)LQEAGK	2	0.43866	742061.3	747547.5

62489.2	56325.6	57090.2	61854.0	-0.1	0.0	504;504
62489.2	56325.6	57090.2	61854.0	-0.1	0.0	467
1502.6	1254.8	1513.8	1257.9	-0.1	0.3	776
119931.9	106102.1	111897.7	118610.0	-0.1	0.1	52
8053.6	7065.6	7950.0	7558.1	-0.1	0.2	968
2440.3	2762.7	2151.9	2872.8	-0.1	0.5	308
11042.5	10492.5	11481.5	11120.0	-0.1	0.2	82
18333.1	17742.3	15943.1	17574.0	-0.1	0.1	817
18333.1	17742.3	15943.1	17574.0	-0.1	0.1	816
37427.5	34839.0	31567.7	36218.0	-0.1	0.1	87
5294.6	5433.0	5158.2	5214.0	-0.1	0.1	356
9413.1	8699.5	9163.6	8653.6	-0.1	0.0	44
46459.9	43167.9	42560.9	43946.0	-0.1	0.1	357
1249570.3	1036987.0	1038860.8	1155200.0	-0.1	0.2	603
32187.3	28908.0	28366.1	30487.0	-0.1	0.0	65
9408.8	7332.2	7093.1	7453.6	-0.1	0.5	269
18192.6	14229.1	15244.2	18521.0	-0.1	0.4	4521
31376.1	28420.8	31342.3	27773.0	-0.1	0.2	1232
29584.3	29511.9	27717.4	28933.0	-0.1	0.1	137
29716.3	22904.5	28818.1	27816.0	-0.1	0.3	153;153;153
159376.9	132435.1	127083.1	145920.0	-0.1	0.2	549
28654.8	22471.1	24806.4	25187.0	-0.1	0.3	315
134709.1	115660.8	117785.9	130580.0	-0.1	0.1	341
11918.7	9492.7	8956.7	11212.0	-0.1	0.4	378
15912.1	14717.5	15025.1	14745.0	-0.1	0.0	388
6615.8	6019.7	6105.2	5720.1	-0.1	0.0	385
32983.7	29927.7	31137.1	29917.0	-0.1	0.1	558;558
19814.1	17748.9	18192.6	18339.0	-0.1	0.1	553
11753.6	11295.5	11949.6	11874.0	-0.1	0.2	418
40434.0	32135.3	34577.0	35403.0	-0.1	0.2	513
52685.9	48309.1	51038.4	52819.0	-0.1	0.1	645
8581.7	6710.2	8297.3	7876.7	-0.1	0.3	324;324
44149.6	45465.7	43762.0	45817.0	-0.1	0.5	54
757993.1	689619.7	662516.5	719300.0	-0.1	0.0	213

Zbtb20	0.702077	1.43E-26	66.494	EGQVEAAQPEQAAEAPAESSAQPN	3	0.86825	2272.7	3292.2
Supt16h	0.950199	0.000726839	61.989	KAS(0.981)VHS(0.95)S(0.068)GR	3	0.63585	25977.8	24729.9
Prune2	0.970205	1.13E-35	100.28	LT(0.024)LS(0.97)EGHPET(0.006)P	3	-0.36343	18752.5	19047.9
Dock7	0.921273	0.00181007	43.794	S(0.017)PS(0.059)GS(0.921)AFGS(	2	-2.0132	5907.7	5989.7
Speg	0.512254	0.000817794	48.214	S(0.017)S(0.022)S(0.449)FS(0.512)	2	-1.008	3980.7	3427.4
Mob4	0.960287	0.00268174	54.259	Y(0.001)FPS(0.039)RVS(0.96)JK	3	0.076579	4193.3	4421.3
Evl	0.531543	4.55E-33	99.11	EDENQT(0.131)EDPS(0.032)T(0.21	3	0.042652	2257.5	2267.2
Rpl24	0.998864	4.25E-16	102.5	AIT(0.001)GAS(0.999)LADIMAK	2	0.45819	26518.0	29140.6
Specc1	0.888727	5.18E-07	72.321	T(0.889)PRS(0.111)PLSGIPVR	3	-1.2305	3336.2	3248.3
Ccdc132	0.835773	3.94E-21	77.221	S(0.98)PS(0.836)VS(0.155)PS(0.02	2	-0.17104	111968.7	111029.7
Acin1	0.952639	0.0059339	58.274	KIS(0.953)VVS(0.026)T(0.022)K	3	0.035568	9511.1	7630.2
Tcf3	0.703584	1.10E-16	106.42	T(0.089)S(0.089)S(0.704)T(0.118)I	3	-0.29302	27342.2	26021.0
LOC10369	0.999319	0.000400882	41.513	AGPES(0.999)DGQFQFT(0.001)GIK	3	0.62653	3899.0	3788.2
LOC10036	0.693083	1.33E-09	93.716	S(0.003)NS(0.166)S(0.693)T(0.117	3	-0.65079	22627.5	22242.1
LOC10091	0.820238	2.29E-76	111.03	IDVESTELAS(0.166)S(0.82)ES(0.01	3	0.89761	9929.7	10256.7
Ino80b	0.587646	8.45E-08	45.349	S(0.206)QPS(0.588)PT(0.206)LPLP	5	1.7836	1849.2	2182.4
Abtb2	0.5	0.00122003	47.915	HPLCPGT(0.5)S(0.5)PAR	3	0.55127	20549.9	22062.2
Uba2	1	7.25E-07	63.682	DVEFEVVGDT(1)PEK	3	0.73444	3926.2	3801.1
Zfyve16	0.961796	3.16E-36	109.84	RCS(0.962)DDFS(0.038)PVLDPAPT	4	-0.098812	14794.0	14360.8
Sdc3	0.94207	1.34E-13	115.91	QAS(0.058)VT(0.942)YQKPKDK	3	-1.3069	35857.9	30245.2
Tppp	0.984046	5.49E-76	109.65	RLS(0.984)LES(0.016)EGANEGAAA	3	1.0066	8317.7	9548.9
Rnf146	0.81086	1.86E-09	55.588	QEIPEDFLDKPT(0.811)LLS(0.189)P	3	0.032075	16532.9	16233.2
Rere	1	4.34E-24	104.22	EEAAS(1)PLK	2	-3.2896	13299.6	12169.2
Mff	0.900912	1.31E-06	53.554	GGs(0.901)AAAT(0.078)S(0.021)N	4	1.4031	2198.0	2017.1
LOC10036	1	0.000989752	113.93	KDRT(1)PPPR	3	0.65297	93416.6	92494.1
Atxn2	0.853573	1.04E-58	139.02	RGPEVTSQGVQT(0.02)S(0.854)S(0	3	0.72057	34686.7	32889.9
Epb41l2	1	1.75E-16	105.28	RLS(1)MYGVDLHHAk	4	-1.5045	107462.8	110437.4
Stx12	1	4.67E-05	84.892	AGS(1)RLS(1)AEDR	2	0.10311	41301.3	43035.3
H3f3c	1	1.38E-08	91.993	EIAQDFKT(1)DLR	2	-0.88219	78412.7	81202.4
Ckm	0.529781	3.82E-07	55.437	LNyKS(0.53)QEEY(0.468)PDLs(0.0	3	1.2908	8765.7	10097.4
Lrrc16a	0.835816	6.79E-31	90.475	TASKPEDTPDS(0.005)PS(0.013)GP	3	0.27374	76259.9	69316.2
Kmt2d	0.998839	6.28E-10	55.453	SLDLLAALPT(0.999)PPHNQT(0.001	4	0.040159	6967.8	5753.4
Raly1	0.830028	4.72E-07	88.561	S(0.168)S(0.83)VGGs(0.002)SSSGs	2	-0.33647	5678.5	5388.7
Srrm2	0.967643	8.61E-14	106.42	QS(0.004)S(0.028)S(0.968)PYEDK	3	-0.37108	230688.1	227105.2



2964.4	2469.1	2244.8	3146.9	-0.1	0.6	359
24119.5	22452.4	23970.8	22540.0	-0.1	0.1	1026
16200.7	15975.8	16819.4	16974.0	-0.1	0.2	2060
6019.8	5147.7	5866.5	5499.0	-0.1	0.1	1425
3714.4	3685.0	3185.6	3381.1	-0.1	0.3	2054
3302.9	3151.4	3827.9	4005.4	-0.1	0.5	147
2203.6	2030.5	1723.0	2448.6	-0.1	0.5	289
22482.0	22896.8	25703.0	23430.0	-0.1	0.4	86
2645.6	2868.3	2833.7	2806.4	-0.1	0.3	835
108231.5	102308.4	90566.5	112460.0	-0.1	0.3	494
9686.4	8389.0	7739.0	8602.6	-0.1	0.4	826
25803.7	22983.7	24997.7	24997.0	-0.1	0.1	525
4701.0	3613.5	3774.2	4032.6	-0.1	0.4	6
21392.9	19801.5	19539.1	21749.0	-0.1	0.1	97
11579.0	9135.3	9188.3	10962.0	-0.1	0.4	493
1918.0	1777.9	1806.9	1900.7	-0.1	0.2	192
19656.5	19594.7	17905.1	19914.0	-0.1	0.2	364
3758.1	3470.8	3509.1	3610.6	-0.1	0.0	549
14345.0	12760.6	13716.0	13634.0	-0.1	0.0	903
39372.6	31043.1	31448.1	34768.0	-0.1	0.4	430
8092.1	7822.1	7770.5	8343.9	-0.1	0.2	31
16459.4	14628.4	14753.7	16013.0	-0.1	0.0	89
13097.2	12683.6	10995.3	11887.0	-0.1	0.2	374
2463.9	1957.2	2221.4	1980.9	-0.1	0.3	207;258;154
82470.4	79939.6	83621.4	83949.0	-0.1	0.1	95
32813.3	31091.5	29198.6	32293.0	-0.1	0.1	659
114896.2	94688.9	110722.2	101510.0	-0.1	0.2	397;397;397
43152.1	37208.3	39064.3	41304.0	-0.1	0.1	142
82884.5	72291.6	73953.4	77403.0	-0.1	0.0	81;81
9081.7	8204.6	9224.0	8344.0	-0.1	0.2	16
75465.0	62822.0	69294.1	71749.0	-0.1	0.2	1294
6000.1	5483.5	5861.8	5921.6	-0.1	0.3	4666
5793.6	4995.7	5435.8	5119.8	-0.1	0.1	78
217612.8	200181.7	212713.6	210060.0	-0.1	0.0	332

Hspd1	0.527572	9.18E-05	51.286	TVIIEQS(0.528)WGS(0.472)PK	3	-0.54392	2945.6	3321.6
Add2	0.999952	5.41E-59	121.1	KLEQEQEGEKDAATEEPGS(1)PVK	5	0.022608	248876.4	222476.3
Rbmxrtl	0.981278	1.19E-14	81.01	DGYGGS(0.012)RDS(0.981)YS(0.00	3	0.049494	12016.2	12239.4
Dmap1	0.908809	2.19E-05	51.524	DTIIDVVGAPLT(0.909)PNS(0.091)F	3	-0.33424	4198.5	4279.7
RGD13107	0.948591	1.28E-09	76.341	EGVS(0.051)CS(0.949)DEDEKPR	3	-1.2263	10078.5	10697.3
Ncbp1	1	5.30E-26	123.72	RHS(1)YENDGGQPHK	3	-0.4769	55884.2	51721.7
Vapa	0.915936	3.54E-14	66.017	QDGPLPKPHS(0.005)VS(0.005)LNF	5	-0.052023	10872.9	9965.5
Akap12	0.639166	4.38E-22	73.675	EPTKSPES(0.001)PS(0.019)S(0.133	4	-0.86872	19872.4	17014.2
Rab1a	0.781315	0.0176812	74.376	IQS(0.219)T(0.781)PVK	2	0.56092	23159.4	22633.7
Tns1	0.743577	2.25E-41	112.56	AASDGQYENQS(0.001)PEAT(0.256	3	0.70545	3464.0	3705.2
Pik3c3	0.832981	1.73E-22	90.872	DGDES(0.167)S(0.833)PILTSFELVK	3	0.20377	16930.1	15271.2
Phldb1	1	1.10E-19	64.589	VELPPAEPLS(1)PEDPAGHQVIEEQR	4	0.061371	13279.3	12776.9
Ahctf1	0.89795	1.59E-11	93.181	TTSLAS(0.005)PS(0.098)QS(0.898)	2	-0.63629	17931.9	16726.9
Map1b	0.995179	0.00694716	48.568	AS(0.005)QVEKT(0.995)PK	3	-0.51476	20128.9	17838.0
Psm3	0.842233	3.47E-11	64.705	EEAAAGS(0.158)GS(0.842)AGEGD	3	0.091795	12091.4	14201.8
Sipa1l3	0.641837	2.05E-38	80.943	EYGS(0.642)T(0.159)S(0.159)S(0.0	3	2.4898	5557.9	6112.4
Casc3	0.995734	3.37E-58	115.79	GTVT(0.001)GERQS(0.996)GDGQE	3	-0.20702	64849.6	65818.2
Ano8	0.79216	7.42E-16	66.372	RRPGPSPDGLLEEGS(0.792)PT(0.20	4	0.76844	16404.1	17651.6
Nefh	0.999725	1.09E-64	146.39	S(1)PAT(0.988)VKS(0.013)PVEAK	3	-0.68283	1121261.8	1116878.7
Eif3b	0.546616	5.93E-33	74.516	AKPAAQSEET(0.004)AAS(0.464)P	7	-0.054507	192927.8	180409.6
Prx	0.999999	1.45E-30	107.78	VPS(1)VEIVNPQLPTVEVK	4	-1.5772	163075.1	154072.7
Gbf1	0.547518	0.0106639	40.496	AGGMS(0.548)DS(0.369)S(0.084)K	2	-0.33602	6292.0	6877.0
Fasn	0.617919	4.36E-10	67.11	LFDHPEVPIPAES(0.218)ES(0.618)V	3	-0.039676	12517.2	11241.2
Pip5k1c	0.710599	1.97E-05	69.345	S(0.144)S(0.144)S(0.711)LKS(0.58	2	0.091951	11640.1	11558.2
LOC10091	1	0.0144548	52.579	S(1)KS(1)PFRK	4	-0.14442	109726.5	105380.6
Safb	1	0.00662895	69.721	AKS(1)EPAGK	2	0.79778	40838.5	42523.0
Kif1a	1	0.00197486	45.28	IS(1)FDDQHFEK	3	-1.8098	11405.4	10721.9
Cdc42bpb	0.712592	2.72E-07	67.252	T(0.001)S(0.001)S(0.013)AS(0.272	3	-0.02289	22798.1	20611.0
Cenpf	0.69377	0.00185697	83.783	RS(0.694)S(0.306)EEMK	3	0.23479	6834.4	6232.5
Specc1l	0.69377	0.00185697	83.783	RS(0.694)S(0.306)EEMK	3	0.23479	6834.4	6232.5
Med1	0.98005	0.00238192	74.301	GS(0.008)PS(0.98)HS(0.012)K	3	0.99094	17866.3	19176.3
Ngfr	0.999993	7.06E-32	95.122	QGANSRPVNQT(1)PPPEGEK	4	-0.61473	101358.7	103337.1
Arhgap15	0.920174	2.36E-06	57.788	LHHS(0.001)VS(0.92)DT(0.059)S(0	3	0.065774	25782.2	23924.8
Nefl	0.831756	1.08E-59	96.052	SYSSSSGS(0.001)LMPS(0.166)LENI	5	-2.4189	1812.3	2005.6

3045.1	2830.2	2693.4	3066.4	-0.1	0.2	67
221594.6	205153.5	191618.5	242450.0	-0.1	0.4	594
11091.4	10627.9	10877.7	11102.0	-0.1	0.1	323
4375.4	3525.0	4643.7	3688.8	-0.1	0.4	446
11022.2	9594.6	9876.8	9863.3	-0.1	0.0	159
47799.2	48598.4	45773.2	48999.0	-0.1	0.2	7
10086.7	9110.1	9793.6	9627.0	-0.1	0.1	170
20738.2	17764.3	17884.8	17514.0	-0.1	0.3	277
20459.2	19017.2	20225.2	21883.0	-0.1	0.2	195
3977.2	3299.1	3497.4	3487.4	-0.1	0.1	1086
13638.1	13799.0	14632.9	13861.0	-0.1	0.3	244
14370.5	12215.1	12766.0	12318.0	-0.1	0.1	1064
17847.7	15554.5	16410.1	16480.0	-0.1	0.1	1218
19496.8	18755.4	16627.0	17638.0	-0.1	0.2	577;451
12683.1	12007.2	11155.6	12800.0	-0.1	0.3	45
6363.5	6022.6	5108.9	5508.2	-0.1	0.3	198
65267.9	57615.9	60396.5	62783.0	-0.1	0.0	145
16599.9	15165.1	15599.0	15981.0	-0.1	0.0	678
1377433.8	1204895.9	973021.6	1158600.0	-0.1	0.5	640;610
170938.9	161540.1	170192.2	170560.0	-0.1	0.1	84
188761.0	110282.0	174541.6	182070.0	-0.1	0.6	838
7825.9	5671.6	6486.8	7217.5	-0.1	0.4	222
10138.6	9520.5	12003.0	9760.0	-0.1	0.5	982
9678.7	10398.8	9750.1	10194.0	-0.1	0.3	449
95834.8	95575.5	93817.3	97586.0	-0.1	0.1	103
40625.7	36717.8	39207.5	38510.0	-0.1	0.0	507
11640.8	9917.8	10435.3	10816.0	-0.1	0.1	912
21850.7	18109.7	22692.7	19437.0	-0.1	0.3	976
7188.1	5994.5	6117.2	6585.4	-0.1	0.2	475
7188.1	5994.5	6117.2	6585.4	-0.1	0.2	948
20777.6	21010.3	14716.3	17647.0	-0.1	0.5	1435
133442.2	101188.6	101621.6	109330.0	-0.1	0.5	294
21634.6	22350.1	22835.9	20674.0	-0.1	0.3	250
1903.0	1763.0	1734.9	1783.8	-0.1	0.1	74

Fam160b1	1	0.000296243	57.095	AS(1)PDHPKNDGK	4	0.92022	104555.1	108779.9
Baiap2	0.933315	6.00E-09	122.34	S(0.024)LS(0.933)PPQS(0.034)QS(	2	0.23807	47287.4	42039.3
Gatad2b	0.63221	5.94E-16	64.547	VS(0.012)S(0.038)PLPS(0.632)PS(C	3	0.99177	10973.5	9663.7
LOC10035	0.958834	6.09E-05	77.776	KGDS(0.041)S(0.959)AEELK	2	-0.13009	37482.3	37014.3
Clip2	1	0.0113106	65.404	EGS(1)PLHK	3	1.0155	48136.5	47233.2
Aprt	1	0.000377013	76.073	IDYIAGLDS(1)R	2	-0.38508	3603.1	2992.4
Snip1	0.998043	0.000603499	94.692	S(0.998)PHYS(0.001)T(0.001)VK	2	0.12143	32284.6	33636.9
Vps18	0.984833	1.36E-26	78.354	GQPASLLAY(0.015)LEQAGAS(0.98	4	-0.078714	940.3	622.7
Dbr1	0.998052	0.0417215	47.302	S(0.998)PAS(0.002)EEGK	2	-0.31313	5719.7	5936.0
Wrnip1	0.996324	2.29E-09	134.75	RRLS(0.996)ES(0.003)S(0.001)ALK	3	0.86138	46290.3	41992.1
Tanc2	0.854309	0.00740563	49.777	AS(0.001)PPAES(0.13)MS(0.854)IY	2	-1.272	13262.6	12961.1
Epb41l3	0.956919	8.90E-15	89.992	QLEY(0.957)QQFEDDKLS(0.043)QI	4	-0.066129	50617.3	47633.5
Thumpd1	0.5	8.53E-07	41.446	FIDKDQQPS(0.5)GS(0.5)EGEDDDA	4	0.4178	9831.9	8309.8
Sh3tc2	0.999755	0.00227722	47.429	GSGIGS(1)RPLR	3	-0.27578	8089.8	8050.4
LOC10091	0.996045	0.00362672	72.434	IAT(0.004)GS(0.996)FLKR	3	0.076766	29452.0	29774.7
Arid1a	1	0.0203568	69.598	IELLPS(1)R	2	-1.3004	16375.5	18398.6
Rbbp6	1	0.000460177	67.952	LERT(1)PEKDK	3	0.036854	36321.9	33425.2
Snx33	0.874248	0.0122967	42.243	QDS(0.874)LAS(0.126)AK	3	0.73226	6448.1	4947.2
Gapdh	0.843521	4.87E-14	58.349	VIHDNFGIVEGLMT(0.038)T(0.038)	5	0.44476	5753.5	5428.7
RGD15611	0.999698	5.13E-12	59.372	VS(1)LQALEAEAEAGTDTEAIIQR	3	-0.8218	6333.4	6390.0
Sec31a	0.588257	1.59E-13	83.226	S(0.412)S(0.588)YEGQPLPK	3	0.46367	23709.3	22558.1
Rps6ka3	0.86343	5.49E-07	74.296	NS(0.128)IQFT(0.863)DGY(0.008)E	3	-0.073064	8567.4	8043.2
Fam129a	0.995857	9.97E-70	137.52	IHPEASGPAAIQQDS(0.996)CEES(0	4	-1.0642	23631.8	25349.7
Sstr2	0.567821	0.0241649	47.187	S(0.568)DS(0.432)KQDK	3	0.49472	18660.7	24796.9
Pdcd11	0.977233	1.13E-32	133.86	ERQES(0.977)ES(0.023)EQELVNK	4	-0.077401	78634.6	71419.0
Chd5	0.963835	5.64E-15	56.366	KNDMDEPPPFY(0.033)GS(0.964)	4	1.6444	24774.3	25011.9
Hnrnpul2	0.988021	6.18E-14	78.441	S(0.01)GDET(0.988)PGS(0.002)EAI	3	1.867	24544.2	24377.8
Dlg5	0.987305	2.77E-10	85.28	S(0.987)GHFDVT(0.01)T(0.003)VA	3	0.022384	10582.8	9799.1
Cic	0.794063	3.97E-27	101.23	S(0.794)S(0.206)PPPPLPAEERPGR	3	0.74508	16329.0	15529.0
Palm	0.99013	1.35E-22	63.203	VHAVDGLS(0.99)ENGIQPLS(0.00	4	0.92317	10174.7	11151.2
Tbc1d5	0.99999	3.20E-12	95.751	EPPGS(1)PPSSATKR	3	0.20943	57174.7	56150.0
Trip12	0.762853	2.28E-22	76.55	QFS(0.001)VQAEDERES(0.763)T(0	3	3.0346	11200.0	13904.5
Hepacam	0.904852	0.000190243	65.043	LKS(0.905)EADT(0.095)LPR	3	-0.82124	13087.3	12218.5
Slirp	0.901468	2.59E-25	111.22	VLHGAQT(0.901)S(0.099)DEEKDF	3	-0.30293	209577.6	232096.2

89047.7	93242.5	94970.4	90958.0	-0.1	0.3	552
40064.6	37287.5	39520.6	42655.0	-0.1	0.3	326
10904.1	9936.4	9535.5	9649.6	-0.1	0.1	337
35971.1	33342.0	33832.2	34820.0	-0.1	0.0	140
44406.2	43771.8	42007.3	43279.0	-0.1	0.0	43
3692.8	3099.2	3003.2	3397.0	-0.1	0.4	66
31651.8	30687.8	29732.9	29673.0	-0.1	0.0	95
763.9	677.3	785.5	685.8	-0.1	0.6	689
6760.4	4863.9	5670.3	6471.8	-0.1	0.5	486
44146.4	39579.8	39512.0	43199.0	-0.1	0.1	75
13657.2	12337.1	12988.3	11503.0	-0.1	0.1	1628
48820.2	43481.4	45337.2	46996.0	-0.1	0.0	82;82;82;82
9040.5	7791.8	8741.5	8568.6	-0.1	0.3	86
6921.6	6906.0	7952.1	6439.0	-0.1	0.4	1254
28519.6	25903.0	27283.5	27847.0	-0.1	0.0	64
19025.2	14864.9	17292.8	17526.0	-0.1	0.3	1873
31158.9	30739.5	31260.0	31188.0	-0.1	0.2	1157
5991.5	5400.1	5938.1	4718.6	-0.1	0.5	169
5530.7	4424.9	5983.2	5028.8	-0.1	0.4	182
6339.5	5652.0	6521.2	5434.6	-0.1	0.2	226
24316.4	20990.5	19962.3	24245.0	-0.1	0.3	803
7805.0	7722.5	6914.7	7915.7	-0.1	0.2	390
24303.6	21264.4	23130.8	23300.0	-0.1	0.1	768
20661.5	22783.5	21338.7	15108.0	-0.1	0.6	341
79148.7	69501.0	74524.0	67707.0	-0.1	0.1	1480
26560.7	23512.7	23620.2	23397.0	-0.1	0.0	556
22915.4	21741.8	20900.5	23725.0	-0.1	0.1	163
9776.3	8986.6	9475.2	9401.6	-0.1	0.1	1691
15500.1	14269.8	14817.8	14668.0	-0.1	0.0	2146
13146.2	10784.3	9995.3	11071.0	-0.1	0.4	219
58626.6	50327.6	53253.7	55295.0	-0.1	0.1	537
11936.8	12251.4	10667.6	11306.0	-0.1	0.4	1409
12974.8	11903.8	10120.6	13346.0	-0.1	0.4	283
200142.0	180866.4	204827.0	207340.0	-0.1	0.3	104

Thrap3	1	0.000539342	65.179	S(1)PRPS(1)PVPK	3	0.10278	20607.1	20848.0
Camk2d	0.82049	3.80E-27	102.89	ESTES(0.001)S(0.005)NT(0.173)T(C	3	-0.7365	8730.4	9568.3
Tln1	1	0.0178214	61.165	GT(1)PQDLAR	2	0.33779	9285.1	9534.9
Prx	0.996313	4.79E-78	121.39	S(0.001)EAEVAT(0.996)GAGFT(0.0	3	-0.31772	22740.8	23205.2
Myo9a	1	0.00126425	106.37	DWNES(1)PVR	2	1.1631	35686.2	35723.2
Snap91	0.955648	1.04E-66	99.396	GASPVPESSLTADLLS(0.956)VDAFA	4	0.11434	9686.7	10313.6
Lmna	0.721329	6.06E-24	94.671	ASSHS(0.001)S(0.003)QS(0.037)QI	4	0.16878	23809.5	28137.0
Kcna1	0.980451	0.00580506	110.76	S(0.98)S(0.011)S(0.002)T(0.006)IS	2	-0.36887	36541.3	36892.5
Tsc1	0.745927	8.38E-52	111.55	NKS(0.746)ES(0.254)QCDEDGMTN	4	-0.96545	5962.8	6325.7
L1cam	0.567878	1.80E-05	69.864	DETFGEY(0.432)S(0.568)DNEEK	3	-0.27164	11486.3	11370.6
R3hdm1	0.989321	1.62E-06	73.927	IQIQLT(0.011)QS(0.989)FEK	3	-0.69449	11398.8	10994.4
Gpr116	0.662473	1.10E-06	49.66	S(0.001)T(0.001)S(0.003)LGS(0.15	3	0.91677	4263.4	4176.6
Myh10	0.99997	1.38E-08	71.354	TSDVNETQPPQS(1)E	2	0.098392	15261.5	14743.6
Cdc16	0.958846	5.76E-51	111.27	QNTEEAGLAPLENAT(0.026)KT(0.9	3	-0.13266	22711.0	23420.2
Zzef1	0.993844	1.56E-13	103.32	S(0.994)MEET(0.006)RPVPTVK	3	0.3055	134307.6	138496.5
Hmg20a	0.856225	2.36E-12	70.837	DS(0.13)NAPKS(0.856)PLT(0.013)(	3	1.6803	15324.7	16077.5
Lmna	0.997899	8.93E-36	162.26	LRLS(0.998)PS(0.873)PT(0.121)S(0	3	-0.15621	359736.0	358065.9
Clip2	0.820341	8.88E-05	69.672	ESVLNS(0.82)S(0.18)VK	3	-0.74378	11932.8	11619.6
Ywhae	0.992165	0.0111018	63.624	NLLS(0.992)VAY(0.008)K	2	1.8102	4670.3	4027.9
Lmna	0.984362	8.27E-71	101.85	AASGSGAQVGGGS(0.984)IS(0.015)S	3	0.13295	12836.8	14159.0
Cds2	0.99679	5.62E-151	177.91	EDAPPEDKES(0.997)ES(0.003)EAK	3	-0.25324	622256.7	654726.5
Spp1	0.915032	6.44E-12	84.653	IS(0.001)HELES(0.915)S(0.049)S(0	2	0.6095	28531.3	27824.3
Rreb1	0.923889	2.82E-06	50.752	QNEDT(0.005)ES(0.064)PS(0.924)I	3	1.6635	4404.1	4202.0
Sphkap	0.790048	1.02E-07	59.248	ASS(0.001)S(0.002)GLCKS(0.79)DS	3	-0.26547	17768.5	17385.0
Mcf2l	0.506963	9.58E-07	54.964	T(0.358)S(0.095)S(0.507)T(0.04)G	2	1.0416	9302.2	9160.8
Prx	1	2.33E-05	89.231	ELREDS(1)PAAK	2	0.059177	56727.4	53967.1
Btrc	0.916935	0.0041873	61.48	KLS(0.917)AS(0.078)Y(0.005)EK	3	-0.39265	49413.9	45457.2
Srsf11	0.999998	3.21E-37	140.2	DYDEEEQGYDS(1)EKEK	3	0.79042	82606.2	80989.6
Ptrf	1	0.00514107	69.275	KVS(1)VNVK	3	-0.78004	15972.4	14467.2
Srsf4	0.880906	0.0049628	57.164	S(0.881)RS(0.371)KS(0.741)AS(0.0	3	-0.21236	26727.9	29309.6
Srsf4	0.741451	0.0049628	57.164	S(0.881)RS(0.371)KS(0.741)AS(0.0	3	-0.21236	26727.9	29309.6
Itpr3	0.99945	2.63E-06	81.017	Y(0.001)S(0.999)LGPGLHR	3	-0.042621	64747.0	66583.8
Slc12a4	0.6956	8.23E-06	57.616	ENS(0.696)PFLS(0.303)PLDAS(0.0C	2	1.7591	9007.2	9405.8
Dmd	0.993963	1.64E-32	100.92	SPAQILIS(0.006)LES(0.994)EERGEL	3	0.28004	14789.2	14424.4

21931.6	19786.1	18548.5	20235.0	-0.1	0.1	268
8776.9	8323.3	7773.4	8921.5	-0.1	0.2	371;371
10334.3	8368.5	8203.7	10368.0	-0.1	0.4	1263
23779.8	18182.3	23084.8	23166.0	-0.1	0.4	225
32893.2	35499.0	31136.0	29751.0	-0.1	0.3	2016
10591.4	9062.9	9305.5	9903.7	-0.1	0.1	580
26307.3	21847.4	24307.4	26170.0	-0.1	0.3	414
37530.8	33216.6	33613.1	35728.0	-0.1	0.0	445
7209.6	4811.8	6158.2	7051.1	-0.1	0.5	1092
12224.2	10868.5	10586.6	10969.0	-0.1	0.0	1174
11997.5	10366.2	10452.8	10970.0	-0.1	0.1	67
4118.2	3737.2	3892.2	3978.8	-0.1	0.0	1302
15747.1	13289.7	14378.6	14626.0	-0.1	0.1	1996
23866.1	20242.6	21276.7	23188.0	-0.1	0.1	589
126000.4	119499.6	121056.0	128110.0	-0.1	0.1	1537
13940.4	14135.6	13523.7	14261.0	-0.1	0.2	105
386071.1	332880.8	338599.8	349090.0	-0.1	0.1	390
11981.5	11081.0	10356.5	11415.0	-0.1	0.1	195
4329.6	4340.0	4094.4	3610.4	-0.1	0.3	16;45;45;46;46;45;47
13762.6	12352.5	12528.8	12802.0	-0.1	0.1	611
579388.8	605219.8	550629.5	560470.0	-0.1	0.2	20
30777.7	26680.6	25802.4	28080.0	-0.1	0.1	311
5158.4	3734.3	4723.9	4268.8	-0.1	0.4	1456
17595.3	17030.7	17121.8	14621.0	-0.1	0.2	1313
8533.0	8983.6	8088.1	7890.6	-0.1	0.2	562
56102.4	48460.9	53811.6	51971.0	-0.1	0.1	51;51
43154.2	43163.5	42849.4	41625.0	-0.1	0.1	28
82965.4	75005.2	69465.1	83539.0	-0.1	0.2	434
14619.7	13911.2	12708.3	15050.0	-0.1	0.2	120
25545.0	23168.5	26177.5	26104.0	-0.1	0.2	454
25545.0	23168.5	26177.5	26104.0	-0.1	0.2	458
64481.1	59998.4	59519.2	61578.0	-0.1	0.0	1842
9502.9	8556.5	8167.4	9095.5	-0.1	0.1	16
14966.7	12595.6	13431.8	14836.0	-0.1	0.2	419



Lrrc16a	0.833704	6.09E-20	102.1	S(0.834)S(0.162)GLIS(0.004)ELPSE	2	0.2334	7999.4	7458.0
Ranbp2	0.642278	2.11E-06	77.644	LNSNNS(0.642)AS(0.358)PHR	3	0.8874	2348.6	2368.8
Zfp646	0.535157	1.70E-33	82.726	RPGEHS(0.249)PGRPECS(0.535)EV	4	0.023635	14030.7	13276.0
Efnb1	0.534711	2.84E-30	89.011	GGG(0.441)GT(0.535)AGT(0.024)E	3	-0.2503	3403.5	3805.5
Srsf10	0.867568	0.00915823	51.762	GT(0.027)S(0.868)KT(0.08)DS(0.02)	3	-0.69001	15147.0	13591.9
Akap9	0.907956	1.26E-13	91.657	ADS(0.004)AGS(0.908)PDS(0.088)	3	-1.7586	7549.2	8240.9
H2afy	0.97029	0.00893236	96.665	AKS(0.97)PS(0.03)QK	2	-0.78369	97743.7	93917.8
Nefl	0.5	0.00512937	86.332	VHIS(0.5)S(0.5)VR	2	0.38463	20518.9	21111.2
Sept8	0.736426	2.10E-06	45.099	S(0.21)LS(0.736)LGGHVGFD(0.05)	3	-0.84933	5407.7	4872.9
Crip2	0.954827	0.000361858	61.56	KT(0.044)S(0.955)GPPKGPS(0.001)	4	0.1673	115441.8	102219.3
Wdfy3	0.92144	2.51E-15	82.367	S(0.921)QGLS(0.078)LDAVY(0.001)	3	0.0022412	5300.6	4701.5
Srgap2	0.905599	2.45E-12	69.188	S(0.028)T(0.028)VS(0.906)ET(0.03)	4	-0.26441	26565.7	27830.9
Vim	0.980582	1.44E-30	138.28	QVQS(0.981)LT(0.019)CEVDALKG1	4	-0.3857	169885.3	166577.5
Arhgef7	0.999099	0.000125575	75.376	EIKPS(0.001)EKPV(0.999)PK	3	-0.067552	78951.8	79767.6
Cbarp	0.958501	0.000361057	55.097	AS(0.201)S(0.752)LDT(0.088)RGS(	3	0.17431	21457.5	21878.0
Osbp	0.831397	9.53E-54	150.65	S(0.831)LS(0.161)ELES(0.008)LKLP	4	0.609	32147.5	32365.6
Sdpr	0.999994	0.00203549	95.775	VSPLS(1)FGR	2	-0.24576	22886.3	21766.1
Baz1b	1	0.00357876	100.02	RES(1)INDR	3	-0.93413	11218.6	10959.9
Samd14	0.999989	1.78E-14	82.449	RS(1)LDEDEPPPSPLAR	2	-1.4698	4479.1	4828.4
Taf7	0.727058	6.41E-36	103.54	EAENQGLDIS(0.272)S(0.727)PGM(	3	-0.90982	22223.2	21859.3
Atxn2	0.762809	9.75E-22	82.885	T(0.002)NS(0.006)PS(0.02)AS(0.19)	3	0.047366	44291.3	43658.3
Serbp1	0.499946	7.99E-27	77.689	GGSGSHNWGTVKDEL(0.5)ES(0.5)	3	-0.27595	23165.4	18838.4
Srrm2	1	0.00273091	55.04	S(1)PS(1)PKPR	2	0.18192	158459.4	154006.8
Gtpbp1	0.658893	6.04E-07	44.292	S(0.168)RS(0.168)PVDS(0.659)PVF	3	0.39942	16701.1	17495.8
Eif3b	0.998635	0.025061	46.462	DRLS(0.999)QS(0.001)K	3	-0.077336	11804.5	11796.2
Sec31a	0.499986	1.59E-13	65.833	S(0.5)S(0.5)YEGQPLPK	2	0.9402	16023.6	13621.5
Epb4.1	0.611495	2.93E-05	49.768	SLDGA AAAES(0.194)T(0.194)DRS(	3	0.12786	8599.6	9206.4
Phip	0.971308	8.37E-07	85.493	ANEEKDGPT(0.971)S(0.029)PK	3	-0.82648	40916.1	39396.8
Map7d2	0.575026	3.33E-51	109.18	SNSLDDSTEEVQS(0.416)MDVS(0.5)	3	-0.2771	22564.3	22078.7
Mical3	0.914768	8.35E-16	57.981	QAVLFS(0.084)PAHS(0.915)PGAAE	4	-2.1102	42819.6	42390.3
Cd44	1	1.23E-38	89.979	S(1)QEMVHLV NK	3	-1.7353	22947.2	20084.5
Ssrp1	0.977197	0.00628824	94.309	QLS(0.023)DS(0.977)FK	2	1.1231	38698.9	35410.6
Gripap1	0.767548	3.21E-105	143.61	S(0.003)LS(0.045)S(0.182)S(0.768)	3	-0.56853	8403.6	8767.0
Clasp1	0.55101	1.93E-18	75.868	QS(0.38)S(0.551)GS(0.067)T(0.002)	3	1.4481	6493.2	6101.3

7751.7	6433.6	7973.8	7059.6	-0.1	0.3	971
2199.0	2144.8	2343.0	1909.5	-0.1	0.3	835
14919.9	12431.7	12527.7	14098.0	-0.1	0.2	1414
3879.1	3404.9	3461.7	3389.5	-0.1	0.1	293
13981.9	13019.1	14153.1	12344.0	-0.1	0.2	208
6127.7	6635.8	7050.2	6587.9	-0.1	0.4	71
89796.2	91627.7	82029.1	86706.0	-0.1	0.1	138
22334.1	18983.1	20165.3	20023.0	-0.1	0.1	27
5000.9	4743.6	4491.2	4902.0	-0.1	0.1	20
109530.4	94885.8	100407.6	107400.0	-0.1	0.2	104
5057.6	4825.1	4707.6	4399.5	-0.1	0.2	2083
26434.0	23766.8	25545.9	25471.0	-0.1	0.1	274
169331.3	147669.6	161504.2	158810.0	-0.1	0.0	325
77977.6	71317.0	73594.3	74105.0	-0.1	0.0	168
21171.5	20145.8	19550.8	19993.0	-0.1	0.0	52
31380.3	29252.3	28755.1	30725.0	-0.1	0.0	113
25719.6	18724.6	20454.9	25940.0	-0.1	0.5	295
12069.8	10196.2	10180.4	11316.0	-0.1	0.2	188
3356.0	3775.4	3685.8	4257.4	-0.1	0.5	108
23801.1	20770.5	20125.8	21922.0	-0.1	0.1	201
45934.0	38345.7	41836.3	43714.0	-0.1	0.1	638
21159.8	20307.5	19037.9	19107.0	-0.1	0.3	232
155235.4	143775.7	135023.2	154020.0	-0.1	0.1	1723
17728.4	15243.2	16700.8	16109.0	-0.1	0.1	12
11666.3	10058.4	10689.6	11890.0	-0.1	0.2	721
16575.4	13764.9	13380.5	15630.0	-0.1	0.4	802
9083.3	7379.8	8749.7	8755.5	-0.1	0.2	554
38443.2	35268.0	37324.5	37312.0	-0.1	0.0	882
25724.9	20580.2	21617.6	22926.0	-0.1	0.3	681
39273.6	37238.0	42074.6	35900.0	-0.1	0.2	1169
24632.6	20551.6	20305.3	21769.0	-0.1	0.3	328
37753.3	35191.0	33649.5	34699.0	-0.1	0.1	659
7978.6	7381.9	7477.1	8420.0	-0.1	0.2	688
6448.9	5384.6	5530.9	6711.9	-0.1	0.3	647;647

Sars	1	0.00559928	98.048	KQHEGS(1)K	2	1.2092	30535.0	32298.7
Rbm17	1	3.07E-08	61.265	QIVDT(1)PPHVAAGLK	3	0.56735	4507.5	4803.7
Ddah1	0.861232	7.57E-05	61.419	QHQLY(0.861)VGVLGS(0.139)K	3	0.39125	9417.9	9312.8
Las1l	0.950544	1.09E-12	72.21	GNEEVAS(0.951)HPELS(0.049)PR	3	-0.3828	9710.4	10343.5
LOC68482	0.947341	0.000865988	68.676	KAT(0.052)GS(0.947)ATPR	2	0.79807	4368.7	4413.9
H1f0	0.575131	0.00871611	44.612	AAS(0.575)KAPS(0.425)K	3	0.6618	29877.8	24355.9
Mbp	1	0.00887329	52.167	VPWLKQS(1)R	3	0.20102	21532.6	17929.1
Map3k5	1	0.0315795	51.276	AKS(1)CGEK	2	0.50448	27870.5	26421.4
Nck1	0.886251	4.51E-29	80.729	KPS(0.012)VPDT(0.886)AS(0.091)F	3	-0.64837	103166.8	80564.0
Pdcd11	0.999491	4.40E-28	106.23	KS(0.001)GAPEDDDS(0.999)GVEV'	3	-0.58305	19013.7	20510.1
Golga5	0.999999	9.47E-66	152.07	KKS(1)EPDDELLDFLNSSQK	4	0.19207	162478.7	146536.9
Rtn4	0.985631	2.96E-27	68.216	LPEDDEPPARPPPPPPAGAS(0.986)I	4	-1.7384	50921.4	52615.7
Lmna	0.999864	5.25E-36	162	LSPS(1)PTSQR	2	-0.21223	169646.7	170833.5
Vps26b	0.602753	7.41E-13	104.55	S(0.031)MS(0.367)HQAAIAS(0.603)	2	-0.31121	7115.0	6345.2
Srsf4	0.990518	1.50E-13	69.088	S(0.991)KDHAEDKLNND(0.009)	5	0.98641	37604.0	35093.6
Plekha4	0.657923	1.08E-21	88.565	QPPHT(0.658)EPKS(0.295)PS(0.04	3	0.29485	11275.2	8734.4
Ahctf1	0.88971	2.46E-129	147.49	T(0.104)EQPS(0.89)PVVHS(0.006)I	5	0.1321	15908.0	15581.7
Pcsk1n	0.683306	7.42E-33	136.24	ILT(0.029)GS(0.288)S(0.683)EPEA'	2	-0.35174	16022.5	16902.4
Srsf10	0.982807	0.00893011	49.632	S(0.983)RS(0.939)AS(0.074)HT(0.0	3	0.028992	19308.3	20850.2
Arntl	0.913104	1.13E-09	53.481	KGS(0.913)AT(0.086)DYQESMDTD	5	0.43927	8467.3	8844.9
Bod1l1	0.578666	2.94E-20	100.77	SLTSSDDAES(0.579)S(0.421)EPER	2	0.066452	6158.9	5611.7
Ctdp1	0.994861	0.000910502	61.11	KKS(0.995)PAT(0.005)QDR	3	-0.17865	53523.9	52102.4
Senp7	0.941056	7.99E-06	71.279	RAS(0.941)S(0.059)EIVTEGK	2	-0.53871	4282.1	3894.3
Serbp1	1	0.0168998	50.372	KES(1)QKDR	2	0.28106	48533.7	48799.5
Sgsm1	0.757108	4.13E-11	67.644	HS(0.006)S(0.236)GS(0.757)MDDF	3	-0.7614	25462.5	24756.3
Wnk4	0.595772	0.0377077	59.931	S(0.404)IS(0.596)PEQR	2	-0.47233	9735.2	9110.1
Prickle2	0.991356	5.77E-16	72.676	GS(0.991)MES(0.009)LALSNTGLS	3	0.41013	4227.7	3695.9
Ldb3	0.88145	0.0137318	48.073	RS(0.082)S(0.881)NLQS(0.036)R	2	0.022427	4635.0	5466.3
Brsk1	0.944889	2.93E-06	52.567	S(0.007)PVFS(0.048)FS(0.945)PEP'	3	0.12756	16166.8	18270.2
Fgd1	0.698255	1.81E-05	42.068	S(0.065)LS(0.237)LDPGQS(0.698)L	4	0.12989	4245.9	4215.1
Srrm1	0.999999	1.15E-32	132.79	KVELS(1)ES(1)EEDKGSK	4	2.7	348775.3	353897.6
Golga4	0.97783	1.77E-05	68.972	S(0.022)QS(0.978)PQQEMGGK	2	0.35551	11022.7	14341.1
Tuba1b	0.998744	2.44E-15	57.845	AYHEQLS(0.999)VAEIT(0.001)NAC	4	0.66213	24684.9	25360.7
Vim	0.879473	7.34E-50	154.88	ISLPLPNFS(0.121)S(0.879)LNLR	3	0.11752	20678.7	18549.9

31551.7	27187.7	28576.6	31604.0	-0.1	0.2	515
4830.0	4052.4	4217.6	4820.0	-0.1	0.2	71
9500.4	8804.7	8596.0	8732.2	-0.1	0.0	50
10102.3	8985.1	9884.0	9046.1	-0.1	0.1	196
4148.5	4228.7	3780.0	3961.9	-0.1	0.1	145
19669.3	21804.5	23018.6	23593.0	-0.1	0.6	131
18270.3	17814.9	19031.5	16600.0	-0.1	0.3	66;66
27150.5	24730.4	23154.3	27514.0	-0.1	0.2	1011
84384.6	82466.2	83573.3	82182.0	-0.1	0.4	89
19739.5	17200.1	18218.2	19448.0	-0.1	0.1	1502
166903.9	146404.6	140024.4	154180.0	-0.1	0.2	116
55814.9	46553.6	46977.6	54009.0	-0.1	0.2	149;295
188196.8	157888.2	168920.5	162690.0	-0.1	0.1	392
7168.9	6240.0	6643.7	6217.2	-0.1	0.2	311
40454.3	33081.3	33832.2	37856.0	-0.1	0.3	270
9249.6	8428.1	9405.3	9259.0	-0.1	0.4	507;435;507
17757.2	14660.3	15773.2	15168.0	-0.1	0.2	1087
18481.1	15400.5	15537.0	16665.0	-0.1	0.2	207
24480.4	19149.2	18421.3	22286.0	-0.1	0.5	196
8035.7	7284.3	8351.1	7837.2	-0.1	0.2	42
5337.1	5205.2	5570.1	5066.9	-0.1	0.2	2904
50172.3	48631.4	46231.7	49417.0	-0.1	0.0	486
4356.6	3965.5	3596.1	4045.2	-0.1	0.2	12
55418.9	45965.1	50761.7	44742.0	-0.1	0.3	74
25330.0	23193.8	24122.5	22655.0	-0.1	0.0	232
9832.9	8616.1	8312.4	9632.8	-0.1	0.2	515
4087.5	3595.1	4221.9	3308.5	-0.1	0.4	546
5363.7	5336.5	4973.9	4015.3	-0.1	0.5	221;313
15588.5	14729.6	16640.9	14970.0	-0.1	0.3	366
4400.6	3686.5	4462.7	3765.8	-0.1	0.3	122
319743.9	305722.8	321512.2	319950.0	-0.1	0.1	378
14955.0	12548.3	11369.3	13437.0	-0.1	0.5	1906
24629.4	23178.4	23321.0	22686.0	-0.1	0.0	287;287;272
18897.4	18259.3	17515.1	18079.0	-0.1	0.1	420

Ryr2	0.626907	4.56E-20	65.244	QS(0.303)S(0.627)MDS(0.066)EGM	4	-0.29591	6857.5	7650.9
Gcc2	0.873962	1.71E-39	116.6	SEPPT(0.003)KS(0.01)PAS(0.874)S	4	0.10536	42316.3	42825.7
Zmynd8	0.795636	0.000538693	60.161	KPGLLNS(0.011)S(0.194)S(0.796)K	3	0.72511	3421.9	3537.6
Thrap3	0.992418	8.59E-30	86.08	KS(0.992)PVGKS(0.93)PPAT(0.056	5	1.8627	99885.7	97391.8
Tp53bp1	0.961087	3.18E-15	63.869	S(0.001)NIS(0.005)S(0.017)PAT(0.!	3	0.28935	9617.3	9750.5
LOC10369	0.885549	1.85E-22	64.213	ALPNVS(0.886)PS(0.084)S(0.027)C	4	0.63079	5901.4	6678.3
Zc3h13	1	0.000284297	65.179	GPRT(1)PPLAIK	3	1.4868	6377.6	5555.2
Scaf1	0.897832	0.0231387	53.756	APS(0.102)T(0.898)PPPK	2	1.3443	75281.9	70875.0
Nefh	1	0.00223551	56.087	LDRLS(1)EAAK	3	1.1839	3546.8	4445.4
Dock2	0.639308	2.60E-09	61.477	VEEEPIS(0.639)PGS(0.068)T(0.292	3	1.5567	6089.8	5400.8
Mbp	0.896518	7.81E-05	54.09	GLS(0.003)LS(0.1)RFS(0.897)WGG	3	-0.70064	6918.0	6439.4
Ddx23	0.937632	0.0323588	49.774	KRS(0.063)S(0.938)LS(0.999)PGR	2	0.027425	7784.0	8251.3
Sync	0.715131	1.22E-06	40.137	SLDQADAPT(0.061)PQAGGVEAQS	3	-1.2489	13423.6	12671.6
Tmem63c	0.795962	1.63E-12	100.56	S(0.796)S(0.203)PS(0.001)EVYLEA	2	0.12367	25789.3	26458.7
Ankrd12	0.975531	1.21E-27	105.79	ET(0.004)S(0.021)LS(0.976)PRPEV	3	0.13951	16009.3	15855.9
Srrm2	0.90431	0.00105369	61.48	RVPS(0.096)PT(0.904)PVPK	3	-0.21538	33291.3	32452.2
Epb41l2	0.953389	1.53E-17	130.01	EVQT(0.953)S(0.047)ELK	2	-0.036961	81567.3	79531.8
Prkd1	0.973477	0.023	45.911	SPS(0.026)ES(0.973)FIGR	2	0.15133	5232.2	5396.8
Cdk17	0.998056	0.0353196	64.654	RLS(0.998)LT(0.002)LR	2	-0.12553	11145.5	12022.2
Tns1	0.612834	3.78E-24	68.834	SPLQS(0.002)LACS(0.038)KPS(0.34	4	0.64953	8726.5	8453.9
Zfp263	0.770068	7.17E-23	76.807	S(0.001)VES(0.008)VS(0.16)PES(0.	3	1.4207	9609.9	9355.8
Hmgn1	1	0.000185523	69.03	RKVS(1)ADGAAK	4	0.67389	234015.6	243383.5
Safb	1	0.0315324	41.724	RLS(1)REEK	3	0.97071	17669.5	16869.5
Mllt3	0.99963	0.00192181	109.44	S(0.004)S(0.004)KDS(0.992)S(1)K	2	0.27651	186141.5	184819.2
Ncor2	0.896879	6.44E-07	41.908	HS(0.005)S(0.011)S(0.074)PLS(0.8	5	1.3933	7056.6	7106.6
Zfp592	0.923982	0.0322024	52.247	EGS(0.076)KGS(0.924)PK	2	-0.11708	7879.0	7345.7
Dmxl2	1	1.44E-86	158.91	ESEAGTGSSEHEDGEREGS(1)PR	3	-0.75517	11773.3	11836.8
Vcl	0.999692	7.13E-15	113.4	S(1)LLDASEEAIKK	4	-0.35342	64123.2	59947.5
Ybx1	0.719967	4.99E-77	112.28	NYQQNYQNS(0.065)ES(0.72)GEKN	3	0.0018508	19607.7	18149.6
Dtnb	0.842483	5.14E-13	64.749	QAAQAT(0.095)GS(0.325)PHT(0.8	3	0.49303	1684.5	1558.4
Ranbp2	0.617712	1.21E-31	87.802	HS(0.025)S(0.12)S(0.618)S(0.235)I	4	1.0116	24297.3	25336.5
Mex3d	0.957623	6.18E-15	54.003	KKS(0.958)VNMT(0.042)ECVPVPS!	4	-0.95465	15477.4	14927.9
Pde7b	0.993883	4.74E-10	48.634	RGS(0.994)GQDPAGT(0.006)APET	3	0.4554	8693.9	8377.6
Cacng4	0.636228	0.0173727	46.73	AS(0.006)S(0.112)S(0.636)S(0.14)!	2	0.26386	3830.6	4008.9

7083.8	6150.6	7045.4	6809.8	-0.1	0.2	2686
38240.9	36222.8	38712.7	39384.0	-0.1	0.2	1477
4004.8	3122.1	3831.6	3205.4	-0.1	0.4	75
109658.1	92162.3	86047.2	106190.0	-0.1	0.3	315
10232.6	8733.9	9546.3	9147.1	-0.1	0.1	1598
6219.3	5966.0	5559.8	5893.4	-0.1	0.1	122
6695.0	6106.4	5990.3	5164.7	-0.1	0.4	1107
69778.8	64753.5	67691.1	67654.0	-0.1	0.1	925
4588.4	3916.0	3583.3	4159.5	-0.1	0.4	301;301
5740.2	5055.4	5214.8	5698.4	-0.1	0.2	1639
6190.8	5933.6	6690.4	5492.3	-0.1	0.3	139
6871.2	6652.8	7361.0	7215.1	-0.1	0.3	106
13908.5	11283.4	12415.5	13375.0	-0.1	0.2	466
24140.8	21940.9	24539.3	24315.0	-0.1	0.2	88
18341.7	15579.8	15663.1	15288.0	-0.1	0.2	1329
33436.1	30871.5	28503.9	32545.0	-0.1	0.1	2540
96436.3	76215.1	78398.9	84072.0	-0.1	0.3	194;194;194
5024.7	4632.5	4930.0	4946.0	-0.1	0.1	245
11342.7	10429.9	10662.9	10894.0	-0.1	0.0	9
9084.7	8283.2	8171.6	7890.2	-0.1	0.0	870
9061.7	8537.4	8204.6	9239.1	-0.1	0.1	315
218517.8	202326.6	219991.0	222800.0	-0.1	0.2	7
16036.7	15687.6	14997.3	16200.0	-0.1	0.1	418
170736.6	159857.1	163502.5	178850.0	-0.1	0.2	34
11666.3	9883.9	6281.6	7781.9	-0.1	0.8	1750
7987.1	6949.5	7769.9	6800.9	-0.1	0.2	320
11361.9	10365.8	11126.7	10933.0	-0.1	0.0	455;473
73749.9	57300.2	53655.5	72462.0	-0.1	0.5	721
20908.5	17349.7	19749.6	17296.0	-0.1	0.3	165
1536.5	1736.1	1318.0	1377.5	-0.1	0.4	504
23907.6	21422.8	21923.2	24847.0	-0.1	0.2	2675
15680.0	13598.8	14416.0	14719.0	-0.1	0.1	124
8826.2	7484.8	8213.4	8316.2	-0.1	0.1	426
4137.4	3597.3	3825.5	3683.3	-0.1	0.1	227

Hbb-b1	0.966041	9.49E-06	62.162	EFT(0.034)PS(0.966)AQAAFQK	3	0.94826	5929.2	5602.2
Prrc2a	0.999995	4.15E-27	146.43	LISGPLS(1)PMSR	2	-0.41936	50958.4	53739.0
Mlf1	0.991892	0.0179612	58.592	S(0.008)FS(0.992)EPLGR	2	0.39132	18527.1	20013.2
Dis3l2	0.999997	2.28E-26	80.412	GVSSVVGPNVAVGAS(1)PGDKK	3	-0.43872	19738.8	16893.6
Slc12a2	0.809281	3.58E-84	131.13	EGLDISHLQGQEELLS(0.189)S(0.80)	4	0.58207	42136.2	38027.8
Plekho2	0.98777	1.78E-19	62.696	ALT(0.988)PLS(0.01)ES(0.001)SEAI	4	2.1176	18215.8	18740.8
Rtn4	0.85049	0.000418348	54.44	KLPS(0.85)DT(0.15)EKEDR	3	-0.044443	12889.3	12344.7
Scrib	0.999991	2.21E-17	70.094	HCSLQVVPEEIYRYS(1)R	4	0.30627	7808.7	7423.8
Tsen2	0.570799	0.000566686	41.577	KGES(0.233)PQHEPLS(0.571)S(0.1	4	-0.42552	8404.8	8596.0
Foxk2	0.994769	2.35E-11	62.739	EGS(0.995)PAPLEPEPGAS(0.005)Q	4	0.32553	76576.0	79702.9
Slc16a1	1	1.91E-43	119.46	LKS(1)KES(1)LQEAGK	2	0.43866	318564.7	318949.9
Mllt1	0.99938	0.00029087	62.466	S(0.999)PEPCS(0.001)KPEK	3	-0.38701	132137.0	132408.6
Pex19	1	0.000282928	65.842	DALFAS(1)QEK	3	-0.10532	7417.4	6323.2
Dock6	0.996994	0.00753841	95.775	INS(0.997)LT(0.003)FKK	2	0.56204	52197.6	46012.3
Sptan1	0.891448	1.24E-08	59.975	QGQIDNQY(0.109)QS(0.891)LLELC	3	1.5842	6787.7	7468.1
Sh3bp4	0.748677	9.07E-10	60.454	VPS(0.251)PS(0.749)ALLVDNPT(0.	3	1.2077	9598.4	9713.8
Mdh2	0.999979	0.0556417	53.47	NSPLVS(1)R	2	-0.21351	12708.0	12597.0
Kif13a	0.99876	1.55E-07	55.575	QQLS(0.999)PERQPPS(0.001)SASC	3	-1.7057	3880.0	3799.3
Got2	0.999444	0.00522203	47.712	T(0.001)QLVS(0.999)NLKK	3	1.5368	14747.5	12724.2
Prkg2	1	0.000212882	61.344	ALS(1)LEMIQLK	3	0.19471	2344.7	2195.3
Wnk1	0.999833	2.03E-42	111.84	DRPVSQPSLVGS(1)KEPPPSR	4	0.26729	20904.1	20662.6
Clasrp	0.99529	8.56E-05	87.216	KIS(0.995)PPS(0.005)YAR	2	0.38922	100779.0	100471.9
Slc44a2	0.901704	0.00684273	81.95	GS(0.098)S(0.902)QAGK	2	-1.1531	14172.6	14176.5
Iws1	1	9.13E-40	120.23	QKIDS(1)DDDGEKEGDEK	3	-0.37519	149299.6	149849.5
Cnot1	0.980545	4.07E-09	71.354	TVTVT(0.001)KPT(0.018)GVS(0.98	3	-0.75371	11769.5	11597.7
Vim	0.999862	0.000139777	68.355	QYES(1)VAAK	3	0.31969	9083.4	10219.8
Cbx5	0.546491	0.000239548	64.224	S(0.114)S(0.114)FS(0.225)NS(0.54	2	0.077512	25015.3	24326.3
Map1b	0.54662	1.71E-05	43.208	T(0.001)GAELDIKDVS(0.547)DERLS	4	0.11348	12242.9	12509.2
Ckb	0.993413	0.00052223	61.409	VLT(0.993)PELY(0.007)AELR	2	1.6563	9666.3	9430.4
Kdm2b	0.996324	6.21E-06	84.753	T(0.002)LS(0.996)NES(0.002)EESV	2	3.2021	8645.6	7740.5
Hmgn1	0.682603	4.73E-33	71.623	QAEVADQQT(0.063)T(0.204)DLPA	6	-1.3128	11792.9	11706.3
Cactin	0.539379	0.000156519	50.897	S(0.001)EPT(0.012)AT(0.448)HS(0	3	3.4664	2039.2	2517.7
Scn7a	0.85737	4.20E-48	141.13	EKT(0.007)VS(0.13)T(0.857)EAT(0.	4	0.6608	38021.4	39701.7
Rtn4	0.96379	3.14E-15	85.51	GS(0.022)PKGES(0.964)AILVENT(0	3	1.6858	24557.3	23378.5



4824.4	5269.7	5387.8	4509.3	-0.1	0.4	126
47192.4	48170.5	49818.0	42862.0	-0.1	0.3	1222
21170.4	18670.7	18264.2	18438.0	-0.1	0.1	34
21203.4	17182.5	16724.3	19729.0	-0.1	0.4	31
45609.3	38576.7	37661.1	40407.0	-0.1	0.3	931
19143.3	16075.9	17774.8	18179.0	-0.1	0.1	232
11644.0	10622.2	11085.0	12496.0	-0.1	0.3	954
7203.5	7077.8	5950.5	7780.9	-0.1	0.4	35;35;35
8096.4	7388.8	7903.3	7985.5	-0.1	0.1	154
77606.0	65111.0	70178.9	81640.0	-0.1	0.3	209
326493.8	278454.8	292391.7	323280.0	-0.1	0.2	210
126053.6	117552.7	121109.4	123640.0	-0.1	0.0	421
6921.3	6387.5	6192.2	6585.5	-0.1	0.2	66
50259.6	44421.9	43578.2	49715.0	-0.1	0.2	1343
7151.0	6175.7	6532.9	7147.7	-0.1	0.2	1055
10093.3	9488.7	8665.1	9122.6	-0.1	0.1	44
11979.4	11435.2	11633.3	11517.0	-0.1	0.0	51
3572.1	3359.6	3751.0	3326.3	-0.1	0.2	573
13831.8	11284.5	14538.9	12491.0	-0.1	0.4	360
2808.4	2305.4	2106.4	2404.8	-0.1	0.4	431
20867.0	18084.4	19246.3	20587.0	-0.1	0.1	172
92157.5	85661.6	92944.2	93588.0	-0.1	0.1	285
14965.7	12608.8	12628.2	14950.0	-0.1	0.3	698
146973.8	134800.1	137416.9	141710.0	-0.1	0.0	321;321
12903.5	9662.0	11351.1	12642.0	-0.1	0.4	1055
9898.0	8570.0	9420.7	9105.7	-0.1	0.2	278
23250.7	22627.3	22527.0	22206.0	-0.1	0.0	97
11585.4	10943.1	11108.6	11667.0	-0.1	0.1	1239;1113
8679.5	8547.2	8881.3	8347.0	-0.1	0.1	35
8185.9	7722.2	7695.2	7384.9	-0.1	0.1	443
11062.7	11147.0	10140.9	10785.0	-0.1	0.1	80
2507.0	2324.9	2171.6	2059.2	-0.1	0.4	508
41408.2	36985.0	38741.5	34840.0	-0.1	0.1	773
25252.2	21069.7	22968.4	23890.0	-0.1	0.2	300

Fam208b	0.998717	0.0544611	53.751	VET(0.001)QS(0.999)PR	2	-1.0052	3374.8	3116.6
Magi2	0.545675	9.30E-07	59.709	S(0.451)S(0.546)FPDS(0.001)T(0.0	3	0.56063	5659.3	5845.8
Thrap3	0.899103	0.0159697	86.18	KS(0.007)S(0.172)T(0.922)S(0.899	3	0.22397	241052.4	244732.7
RGD13077	0.997965	6.42E-07	57.173	ALLS(0.998)EDS(0.002)DSNVESVR	2	-1.219	8055.6	7994.3
Pml	0.537103	6.73E-35	84.561	MES(0.537)T(0.461)DENEDRLSTS(i	4	-0.33539	25447.0	21996.4
Map1b	0.8182	8.52E-30	72.302	VLS(0.001)PLRS(0.101)PPLIGS(0.0	3	0.28445	13533.3	13466.8
Scaf1	0.998481	3.54E-22	80.082	QRS(0.998)GDPAPPDS(0.953)PT(0	3	1.4237	29464.0	31580.2
Capg	0.958908	1.59E-21	84.249	MRYS(0.959)PNT(0.041)QVEILPQC	3	0.70204	7725.2	8212.6
Dbn1	0.841302	4.35E-64	146.6	S(0.841)PS(0.152)DS(0.005)S(0.00	2	0.052674	43588.9	40987.3
Sipa1l2	0.954413	0.000226655	72.705	AS(0.954)PVPGT(0.046)PDR	2	0.46244	15071.9	15795.6
Shank2	0.973817	1.22E-12	70.783	RAPS(0.974)PVVS(0.026)PTELSK	4	-0.44438	1866.8	2057.0
Otud7a	1	0.00111311	67.385	AAGAS(1)PADK	2	0.78335	4121.7	4536.8
Mllt3	0.992301	0.00121435	95.642	S(0.004)S(0.004)KDS(0.992)S(1)K	2	0.27651	1067030.7	1022478.2
Mllt4	0.912348	6.76E-22	140.01	T(0.019)S(0.029)S(0.912)VVT(0.03	3	0.50914	16303.9	13499.7
Eif5b	0.999998	2.99E-12	95.197	KRDGS(1)EEDEDNSK	3	-0.6373	39401.4	38554.4
Ubr4	1	0.00891393	54.982	EGVGS(1)PK	3	1.0576	53191.1	53052.3
Srrm2	0.99999	0.00329479	74.841	S(1)RS(0.999)PAT(0.001)K	2	0.11785	233550.5	218417.7
Arf4	1	0.0559166	53.404	LGLQS(1)LR	2	0.28886	6747.6	6096.2
Eps15l1	0.849639	6.96E-06	64.104	EVGS(0.85)PT(0.15)CLTIQK	3	-0.22175	4899.5	4399.3
LOC68482	0.998595	3.78E-05	117.42	GTGAS(0.001)GS(0.999)FK	3	-0.21844	83394.5	87883.7
Fmnl1	1	2.97E-33	92.886	EEPPAPKS(1)PPK	3	0.29927	209040.9	203708.1
Fam160a2	0.581217	0.000247439	47.037	S(0.581)RRPS(0.419)LGELLLR	3	-1.0391	3226.6	3375.5
Arhgap31	0.979502	2.91E-10	47.989	RENS(0.98)LPEIVPS(0.009)MGT(0.	4	0.22834	5157.0	4696.4
LOC68999	0.87299	1.24E-06	49.076	SSPINS(0.004)QS(0.05)QT(0.05)CE	3	0.22604	2437.1	2614.2
Pds5b	0.941246	2.84E-07	90.861	KKAS(0.059)VT(0.941)DPEEK	4	0.32408	105645.2	108679.0
Msl2	0.910702	2.19E-10	45.363	FGINIPS(0.08)PEHPNT(0.911)IDVC	3	-1.1814	4094.0	3898.9
Itgb8	0.534488	0.000469676	61.213	S(0.014)S(0.014)S(0.085)DY(0.534	3	-0.77188	25419.6	28401.3
Erbp3	0.995162	1.56E-12	100.88	GES(0.005)IEPLDPS(0.995)EK	2	0.40648	157171.3	147864.1
Plekhg5	0.998671	0.0044407	73.841	RHT(0.999)DDPS(0.001)K	3	-0.76027	9317.3	9241.5
Ikbbk	0.679947	0.000436059	43.761	GPVS(0.004)GS(0.047)PDS(0.68)N	2	0.069585	7845.8	8720.4
Nol3	0.999995	7.03E-10	83.823	T(1)PEEPELEAEATK	2	-0.19784	44160.1	43351.2
Abca7	0.499988	4.25E-55	99.907	S(0.5)S(0.5)QVPAPDAVPVTPSAALI	3	1.3405	3995.0	3733.1
Abca7	0.499988	4.25E-55	99.907	S(0.5)S(0.5)QVPAPDAVPVTPSAALI	3	1.3405	3995.0	3733.1
Kcna2	1	0.00017283	107.08	IPS(1)S(1)PDLKK	3	0.35471	129703.9	125443.2

3229.3	2765.5	3468.8	2788.0	-0.1	0.4	996
5423.4	5308.1	5413.1	4991.4	-0.1	0.1	727
229238.7	217528.0	219168.2	227020.0	-0.1	0.0	915
9235.1	7421.8	8296.5	7753.4	-0.1	0.3	62
24569.8	23237.7	22555.9	21059.0	-0.1	0.2	579
14329.0	13027.9	12586.5	12756.0	-0.1	0.0	1403;1277
30411.5	28645.2	27163.9	29100.0	-0.1	0.1	512
8058.4	7716.7	7191.7	7370.2	-0.1	0.1	324
44781.0	37711.0	41169.5	41217.0	-0.1	0.1	383;383;333
17790.2	15723.9	14030.2	15421.0	-0.1	0.3	1082
1679.4	1876.3	1864.7	1461.2	-0.1	0.5	1330;1020
4300.7	3865.7	3779.5	4387.3	-0.1	0.2	608
941835.5	914440.5	923607.5	976600.0	-0.1	0.2	33
15389.4	12595.6	14630.8	14737.0	-0.1	0.4	1090
42706.0	35988.5	36318.9	39733.0	-0.1	0.2	165
54268.0	47776.7	46819.4	54453.0	-0.1	0.2	457
230282.1	207760.4	210362.6	215420.0	-0.1	0.0	481
5991.1	5500.9	5815.8	6174.0	-0.1	0.2	147
4422.5	4443.0	4161.7	4138.1	-0.1	0.2	769
81881.6	76606.7	78686.4	79825.0	-0.1	0.0	105;103;104;104
214876.7	188577.1	193723.8	200600.0	-0.1	0.0	965
2814.1	2548.9	3156.2	3040.1	-0.1	0.4	873
4989.1	4576.3	5016.3	4192.7	-0.1	0.3	272
2841.2	2288.9	2540.9	2500.5	-0.1	0.3	257
106975.2	98766.5	102343.0	97319.0	-0.1	0.0	1189
4738.6	3872.7	4072.7	3880.1	-0.1	0.3	217
28011.8	25383.8	24616.2	26010.0	-0.1	0.1	513
171811.9	150870.5	138549.7	153520.0	-0.1	0.2	691
11046.7	8731.2	8633.3	10136.0	-0.1	0.4	105
9895.1	7720.6	8189.0	8670.9	-0.1	0.4	675
50916.5	41812.8	39624.2	47157.0	-0.1	0.4	149
3985.5	3805.3	3215.2	3861.0	-0.1	0.3	1079
3985.5	3805.3	3215.2	3861.0	-0.1	0.3	1080
123647.5	114824.8	116663.9	120400.0	-0.1	0.0	441

Prx	0.786217	1.84E-33	83.236	MPTFGLSLLES(0.21)RPS(0.786)GP	4	0.5384	20842.1	20572.6
RGD15600	1	1.22E-06	81.656	GKS(1)LKDEDVLQK	3	1.0439	45516.2	43608.9
Tom1l2	1	4.22E-29	83.602	GIEFPMADLDALS(1)PIHT(1)PQR	3	-0.56491	35238.9	33518.4
Vcl	0.941967	1.60E-06	81.185	S(0.942)LGEIAALT(0.052)S(0.006)I	3	0.15238	5330.6	4710.3
Srrm1	0.999935	7.64E-12	111.93	KAAS(1)PS(1)PQSVR	3	-0.89041	203566.5	216816.2
Cdv3	0.713691	3.73E-05	42.705	AANAAS(0.004)GAGGS(0.714)S(0.	3	-0.73172	3092.6	2515.7
Map1b	0.958026	9.85E-05	79.875	VES(0.958)KPS(0.039)VT(0.003)EK	3	0.10599	16343.3	14223.7
S1pr3	0.758882	1.48E-07	66.022	SSSSNNS(0.003)S(0.06)S(0.178)HS	3	-1.6614	23455.2	21399.7
Camkv	0.915124	5.14E-29	78.758	S(0.001)AT(0.01)PAT(0.032)DGRA	4	0.28887	23477.9	25671.1
Ran	1	0.0196177	42.802	AKS(1)IVFHR	3	1.3942	5682.9	6461.0
Clec2l	0.746921	7.23E-05	50.188	RS(0.247)GS(0.747)GY(0.002)EGS(	3	-0.8203	20478.3	20583.6
Kmt2e	0.999923	0.0077297	65.933	IRS(1)PETK	3	0.75119	11086.4	10782.5
Scaf8	0.993315	7.12E-42	114.56	ETVQTT(0.006)QS(0.993)PAAVEK	2	-0.24015	57920.1	55332.8
Hspa12b	0.999912	2.21E-12	106.39	SPVPSPPGS(1)PR	2	0.33919	16560.4	15239.4
Gorasp1	0.866858	2.95E-12	96.096	KPPS(0.005)AS(0.133)S(0.867)PGT	3	-0.53301	329775.9	341952.2
Bbx	0.778774	2.07E-06	52.451	T(0.002)ADGRVS(0.22)PAGGT(0.7	3	1.8844	19877.2	16844.2
Atxn2l	0.730005	6.43E-55	88.241	VPLAAVAGSEGPEQLQPPCPS(0.061	5	-0.037159	53143.4	45455.1
lqsec2	0.879974	2.24E-16	61.725	TVSVEGDAPGS(0.002)DLS(0.005)T	3	4.1777	6246.8	7542.8
Hp1bp3	0.988414	1.73E-123	124.7	LAEGEEEKPEPDGSSEES(0.003)IS(0	5	0.49415	13695.5	14582.4
Tcp1l1l	0.999934	8.22E-05	114.39	SDSPS(1)PLR	2	0.055243	72028.3	61706.9
Wwp1	0.703216	4.23E-33	80.117	S(0.148)S(0.148)S(0.703)PPIEIQQI	3	0.47774	18319.6	15634.3
Sec16a	0.999731	2.75E-05	91.202	S(1)IHS(0.993)EHS(0.008)AR	2	-0.95313	20660.8	20905.0
Tbc1d1	0.989932	6.05E-10	97.203	YHS(0.99)VS(0.01)TETPHER	3	-2.1383	10918.7	8414.0
Ranbp2	1	1.89E-86	158.05	NRPGYVS(1)EEEEDEDFEMAVK	3	0.7988	304359.9	289278.4
Cbr1	0.989353	0.000305503	86.344	S(0.011)CS(0.989)PELQQK	2	-0.8408	15188.8	14733.8
Nab2	0.999651	3.42E-09	52.192	SPELGEKLS(1)PLPGGPGAGDPR	3	2.8291	24634.8	25599.8
Brd3	0.988857	3.66E-14	123.75	S(0.011)ES(0.989)PPPLSEPK	2	0.0022904	79970.4	78562.1
Xrcc1	0.638194	2.47E-06	47.082	T(0.003)QAAGPS(0.638)S(0.888)P	3	1.0498	14797.6	15677.1
Xrcc1	0.888425	2.47E-06	47.082	T(0.003)QAAGPS(0.638)S(0.888)P	3	1.0498	14797.6	15677.1
Atp2b1	1	2.02E-09	75.018	SSLYEGLEKPE(1)R	3	0.92215	13315.1	12424.8
Sos1	0.772531	0.00143923	43.594	S(0.179)AS(0.773)VS(0.045)S(0.00	3	1.2116	1381.8	1021.2
Rabgef1	0.885674	0.00260057	101.5	QT(0.114)S(0.886)IETDR	2	0.40077	23097.4	23491.5
Lmna	0.790914	0.00891092	54.486	LSPS(0.032)PT(0.176)S(0.791)QR	2	0.29283	25082.0	27411.9
Fam234a	1	2.83E-15	110.17	S(1)QENLGNLPK	3	0.18651	72673.5	73072.1

20411.3	14993.6	20789.4	21654.0	-0.1	0.5	406
43806.8	42650.9	41667.5	39177.0	-0.1	0.1	55
31515.5	30701.0	31890.5	30567.0	-0.1	0.1	164;164
4927.2	4673.5	4268.9	4964.2	-0.1	0.3	434
187951.9	184540.2	189994.2	190690.0	-0.1	0.2	674
2565.5	2418.6	2746.6	2429.3	-0.1	0.4	38
17398.4	14728.5	14527.1	15312.0	-0.1	0.3	598;472
24006.6	21504.2	23250.5	19230.0	-0.1	0.3	310
26196.6	23067.3	24645.1	22301.0	-0.1	0.2	438
5849.0	5420.2	5409.6	5889.9	-0.1	0.2	135
19475.5	18424.3	19332.8	18497.0	-0.1	0.0	47
10128.7	9617.2	10667.0	9449.9	-0.1	0.2	522
65205.1	55438.0	52240.7	58159.0	-0.1	0.3	617
16966.1	14523.9	14095.4	16698.0	-0.1	0.3	29
311514.2	294646.2	302682.7	316420.0	-0.1	0.1	217
19506.4	17150.6	17208.4	17895.0	-0.1	0.2	797
50254.3	45388.7	47084.4	45861.0	-0.1	0.2	631
7218.1	6562.0	6495.3	6466.2	-0.1	0.3	262
13325.1	13227.0	11769.0	13668.0	-0.1	0.2	85
66827.6	59469.3	64377.2	62548.0	-0.1	0.2	46
17628.3	15274.0	15844.8	16823.0	-0.1	0.3	155
19905.6	18104.2	18912.9	20116.0	-0.1	0.1	1350
10607.8	8973.7	9439.9	9414.1	-0.1	0.4	396
314718.8	266982.2	272205.0	305070.0	-0.1	0.2	2540
13578.4	11000.7	13930.8	15501.0	-0.1	0.5	151
28570.7	23495.1	24214.4	25538.0	-0.1	0.2	171
79837.5	71746.0	72769.3	77046.0	-0.1	0.0	263
15265.9	13279.8	14155.3	15082.0	-0.1	0.1	445
15265.9	13279.8	14155.3	15082.0	-0.1	0.1	446
13839.3	11832.3	11790.3	13170.0	-0.1	0.2	1166;1115
1307.2	1055.2	1170.7	1223.1	-0.1	0.5	1120
21882.7	21305.1	20574.6	21778.0	-0.1	0.1	133
24987.1	21519.6	24314.9	26204.0	-0.1	0.3	395
82250.0	65832.6	70777.4	75387.0	-0.1	0.3	21

Prkacb	0.986637	3.65E-101	154.77	GSGDTSNFDDYEEEEIRVS(0.987)IT(	3	1.0502	379105.1	361301.8
Prrt3	0.979342	0.0365003	49.489	S(0.021)LS(0.979)EVCLR	2	1.0682	15284.2	15218.6
Snap91	0.791057	2.53E-07	58.835	S(0.498)S(0.499)PAT(0.791)T(0.19	4	0.46228	9506.7	8286.1
Trpm2	1	0.000475156	62.466	LS(1)LPMPHIK	3	0.26554	2196.7	2557.3
Prx	1	7.70E-05	69.352	LPS(1)AEVGVPK	2	-0.81179	32024.6	29402.8
Prkcd	0.985704	2.91E-134	177.12	SPSDYSNFDPEFLNEKPQLS(0.986)F	3	0.61408	327927.2	324379.7
Sec62	0.981059	3.86E-07	64.104	EDS(0.002)KKEET(0.981)PGT(0.01	4	-0.090184	157648.4	155235.4
Snx29	0.796807	4.60E-22	96.391	KMPGTAES(0.797)S(0.203)EENSDF	3	-1.7982	10000.5	10418.5
Wdr59	0.973737	8.26E-07	131.52	LYSGS(0.974)PT(0.026)R	2	0.29684	10749.0	9895.0
Hsp90ab1	1	4.99E-98	191.37	IEDVGS(1)DEEDDS(1)GKDKK	5	0.35635	11602505.1	11797319.0
Scn7a	0.504221	2.27E-39	84.152	QS(0.025)S(0.085)S(0.386)S(0.504	4	0.29764	5771.3	5715.7
LOC68468	0.999931	0.00293268	80.037	KATGAAT(1)PK	2	0.25816	139233.4	133593.3
Rab39a	0.687824	7.91E-07	52.09	S(0.002)GFVPNT(0.141)VHS(0.169	4	-0.10839	21239.2	19943.0
Usp5	0.999999	0.002776	81.09	ATNNS(1)LER	2	0.078545	7490.7	7169.5
Gtf2f2	0.999968	5.97E-05	97.163	HYQTEES(1)D	2	-0.26539	9625.9	10120.0
Map1b	1	2.26E-05	51.089	S(1)VGNAIEPVILFQK	3	0.76481	4621.3	5322.8
Thrap3	0.92233	0.0159697	86.18	KS(0.007)S(0.172)T(0.922)S(0.899	3	0.22397	297645.1	299995.2
Anapc2	0.97013	1.56E-12	101.89	LLHQFS(0.03)FS(0.97)PER	3	-0.88893	40663.2	36548.1
Heatr6	0.581378	6.45E-18	73.138	ALPAGPSLEEAS(0.223)LS(0.196)S(i	3	0.34727	5723.9	5432.4
Kctd12	0.909984	6.08E-100	112.64	EGSLGDELLPLGY(0.91)AEPEPQEG/	4	1.2415	26539.5	27429.5
Nhsl2	0.816176	2.27E-53	96.123	S(0.005)LS(0.119)VPT(0.816)DS(0.	3	1.089	9572.1	8675.8
Pdcd4	0.891953	0.000210198	65.719	SGVAVPT(0.892)S(0.108)PK	3	0.43553	30149.7	28619.6
Prpf4b	0.997943	0.000706033	86.276	S(0.002)KS(0.998)QDQAR	2	-0.0048956	39249.9	39967.2
Fam73a	0.774369	2.55E-07	66.809	AAS(0.774)DKGS(0.216)S(0.009)C:	3	-0.50589	9602.6	10706.7
Ttc26	0.983667	1.56E-08	61.167	AKPAVGGES(0.984)PHT(0.016)DK	4	0.72213	36049.9	35295.4
Ythdc1	0.993327	5.94E-15	100.11	RAKS(0.993)PT(0.713)PDGS(0.293	3	-0.27353	36381.5	40522.2
Eif3b	0.648214	7.71E-108	129.51	AKPAAQSEET(0.062)AAS(0.622)P	3	0.26744	26657.6	28500.0
Dnm1l	0.966968	2.42E-15	59.539	VPSALAPAS(0.026)QEPS(0.967)PA	3	2.8839	10106.9	9999.1
Rock2	1	0.0376723	48.998	IQQNQS(1)IR	2	2.1949	8120.5	7294.3
Suds3	0.897323	3.98E-22	75.182	RPAS(0.157)PS(0.917)S(0.897)PEH	3	-0.33313	57786.5	52115.5
Arvcf	0.92795	1.14E-151	131.24	ALEDTADDTGELVEERPPFPAAT(0.0	5	-0.36282	14899.0	14820.4
Ppig	0.994007	0.00176444	69.998	RS(0.006)ET(0.994)PPHWR	3	-1.5978	17484.7	17062.5
Synpo	0.990429	1.05E-21	64.397	RPLGNFT(0.99)PPPT(0.009)YAETL:	3	-0.6046	6634.3	6498.0
Nop2	0.851389	0.000148168	58.04	S(0.149)GS(0.851)VEVPKPNK	4	0.28099	9961.0	8097.5

367216.3	334519.7	339668.5	355720.0	-0.1	0.0	339
14330.1	13389.8	14469.4	13831.0	-0.1	0.1	872
7264.5	7347.8	8202.2	7752.9	-0.1	0.4	309
1716.7	1665.4	2208.4	2144.0	-0.1	0.6	588
36187.2	20924.5	36783.8	33074.0	-0.1	0.7	243
343506.7	309847.6	283992.1	332330.0	-0.1	0.2	643
159142.7	140882.8	138806.2	159370.0	-0.1	0.2	155
10591.0	9181.7	10103.5	9559.0	-0.1	0.1	235
10492.0	9743.3	9917.8	9302.6	-0.1	0.1	610
11301174.6	10782245.0	9157850.7	12341000.0	-0.1	0.4	255
6278.8	5420.5	6274.8	4832.5	-0.1	0.4	871
135230.8	124064.5	121355.2	134210.0	-0.1	0.1	146
24171.6	18919.3	20320.3	21562.0	-0.1	0.4	205
7394.2	6720.2	6795.2	7005.2	-0.1	0.0	728
9631.0	8758.0	9035.0	9540.9	-0.1	0.1	248
4278.9	4362.2	4543.6	4328.2	-0.1	0.4	401;275
280863.2	268533.2	268112.1	280790.0	-0.1	0.0	914
36703.5	36437.3	35141.3	34419.0	-0.1	0.1	548
6203.3	5899.9	5161.0	5092.8	-0.1	0.3	714
25842.1	25955.7	25255.3	23059.0	-0.1	0.1	163
9213.7	7962.6	8673.4	8919.6	-0.1	0.2	525
29734.4	25992.0	28275.2	28095.0	-0.1	0.1	93
40880.1	37494.3	36299.7	37970.0	-0.1	0.0	233
9541.6	9282.0	9177.5	9320.4	-0.1	0.1	90
35848.6	32462.0	32438.7	34861.0	-0.1	0.0	14
32046.8	32016.5	36645.9	32737.0	-0.1	0.4	146
25606.8	23271.8	24506.1	27389.0	-0.1	0.3	81
9637.7	9682.3	8575.2	9425.2	-0.1	0.1	561
6533.9	6327.1	7528.1	6572.7	-0.1	0.4	1374
60133.1	49772.1	51189.1	57294.0	-0.1	0.3	237
15032.7	14790.1	13988.5	12874.0	-0.1	0.1	269
16780.9	15212.4	15957.0	16604.0	-0.1	0.1	356
7253.0	6520.5	5846.4	6606.9	-0.1	0.2	310
8811.3	7612.3	8731.2	8666.5	-0.1	0.4	59



Rps6	0.986301	7.49E-22	141.54	AST(0.001)S(0.012)KS(0.986)ESSQ	4	-0.11863	606704.1	595328.6
Eif4g3	1	0.0377898	52.705	NPT(1)PPIGR	2	-0.54922	20497.4	20788.7
Srfbp1	0.836204	6.44E-15	80.361	AVAT(0.164)PHS(0.836)PGKPSEK	4	0.27592	20735.9	20843.6
Cryab	0.750696	0.000919314	49.298	RPFFPFHS(0.249)PS(0.751)R	3	-0.031742	1509.7	1283.1
Vat1l	0.78128	2.01E-08	60.738	ET(0.218)S(0.781)KEPAEGGDGSHF	4	0.11441	8210.3	8430.8
Ptpn13	0.840245	2.16E-12	104.04	S(0.019)S(0.019)T(0.84)S(0.122)D	3	0.40492	14307.4	15361.2
Rsrc2	0.855466	5.51E-15	83.404	DGLAPEKT(0.145)S(0.855)PDREK	4	-0.12624	109818.3	113607.5
Txn1l	0.782682	0.000145125	40.493	QHLENDPGS(0.217)NEDT(0.783)D	4	0.92452	21895.2	19650.1
Ppp1r3e	0.59017	4.36E-15	58.349	S(0.01)QRPS(0.374)LEES(0.59)EE	3	0.14597	3109.2	2515.2
Mapk4	0.967741	0.000159416	87.476	GYLS(0.032)EGLVT(0.968)K	2	0.73109	16375.5	17023.0
Nucb2	0.914168	2.91E-27	117.78	S(0.086)GRSL(0.914)QELDLVSHK	3	-0.99016	10507.0	11144.7
Stub1	0.995837	6.40E-33	97.57	LGT(0.004)GGGS(0.996)PDK	2	-0.58132	84821.0	84552.4
Trim13	0.501671	0.0184249	70.942	S(0.502)LQLLT(0.498)K	2	0.091847	8974.2	8448.3
Xrcc6	1	0.000106812	83.182	RLGS(1)LADEFK	3	-0.25741	18748.9	18813.2
Pde1c	0.865187	2.83E-27	78.272	S(0.043)S(0.043)GS(0.865)EGS(0.0	3	0.83344	18407.8	17437.7
Epb41l2	0.597666	8.71E-36	155.56	S(0.396)S(0.598)HET(0.006)LNVVE	3	0.65834	32790.3	35791.2
Pnlsr	0.783571	0.00167932	71.221	SNRS(0.216)S(0.784)IER	3	-0.60627	5840.7	5810.2
Lmna	0.957864	0.000252377	44.968	NKS(0.042)NEDQS(0.958)MGNWC	3	-0.56596	31194.5	28511.0
Mycbp2	1	3.41E-05	90.614	DAS(1)GERGEK	3	0.39961	20058.5	19805.9
Ptprg	0.983861	1.10E-05	79.885	NRNS(0.984)S(0.016)VVPAER	2	-0.91265	4731.6	4705.2
Pogz	0.99687	2.08E-36	106.23	SLDAEPSVPS(0.003)AAKPAS(0.997	3	-2.0882	51675.2	53371.5
Ctps1	0.715272	2.49E-10	62.813	S(0.016)GS(0.032)S(0.134)S(0.715	2	1.1285	38318.4	37334.6
Fnbp1l	0.855723	1.30E-68	177.36	T(0.856)VS(0.143)DGT(0.002)ISAS	2	0.030457	48512.2	48378.3
Dock7	0.999998	3.33E-17	99.392	S(0.389)PS(0.576)GS(0.036)AFGS(	2	-0.15873	27270.6	29871.2
Rasal2	0.72443	0.0053057	43.604	S(0.724)S(0.171)HS(0.105)EDFSR	3	-0.42749	15351.0	14936.7
Btaf1	0.999906	4.97E-05	85.536	S(1)RDAVETNEK	3	0.044423	7171.7	7292.7
Dennd1b	0.947526	1.53E-21	72.305	GFSDFEEEEIT(0.038)S(0.015)GGFC	3	0.15105	13573.9	12986.4
Rpl34	0.989831	2.01E-08	109.6	RLS(0.99)YNT(0.01)ASNK	2	0.3364	11999.5	9717.2
Numa1	1	3.29E-14	111.64	AAQLQGS(1)PAPEK	2	0.10131	104375.0	103497.2
Cfl2	0.765981	0.00017011	45.873	LGGGS(0.234)VVVS(0.766)LEGKPL	3	-1.8879	4078.8	3750.1
Prkcb	0.997555	1.13E-57	102.66	NIDQSEFEGFS(0.998)FVNS(0.002)I	5	1.0065	52195.2	56216.9
Kat6a	0.644638	6.66E-05	50.178	S(0.17)NS(0.645)PPVLT(0.175)KPT	3	-1.2778	13998.5	14225.9
Cald1	0.822098	2.71E-05	70.816	VT(0.164)S(0.822)PT(0.014)KV	2	-0.14305	33752.8	33163.0
Lrrfip1	1	3.59E-24	98.443	AS(1)PVVEERPDKDFAEK	3	-1.6008	78033.4	83481.8

512135.4	517597.0	527910.1	550130.0	-0.1	0.3	244
22031.7	20133.7	18214.0	20592.0	-0.1	0.2	206
19401.0	18870.9	19183.2	18711.0	-0.1	0.0	140
1290.5	1225.9	1348.9	1226.1	-0.1	0.3	21
8447.8	7615.2	7214.3	8526.5	-0.1	0.2	21
15899.4	13823.2	14102.9	14495.0	-0.1	0.1	216
123956.3	102901.2	107110.2	113390.0	-0.1	0.2	17
18721.7	18951.2	18340.1	18816.0	-0.1	0.2	117
3100.2	2830.2	2983.7	2308.7	-0.1	0.5	38
16268.8	15330.1	14053.7	16858.0	-0.1	0.2	191
11223.5	9600.4	10649.5	10358.0	-0.1	0.1	89
80606.2	75890.6	75405.7	81444.0	-0.1	0.1	20
8245.3	7235.3	8297.2	8365.4	-0.1	0.2	171
17261.0	16093.5	17756.6	17193.0	-0.1	0.1	464
19600.1	16422.4	17004.3	18197.0	-0.1	0.2	375
40090.2	31122.3	33122.6	36939.0	-0.1	0.4	703
6691.4	5008.8	6836.0	5234.1	-0.1	0.5	601
30552.0	28589.1	27231.2	28224.0	-0.1	0.1	463
18912.3	17647.8	18356.1	18728.0	-0.1	0.0	915
4595.8	4304.3	3834.5	4928.6	-0.1	0.4	1171
53660.1	49018.6	46614.2	52157.0	-0.1	0.1	316
39619.6	33873.3	34648.6	38822.0	-0.1	0.2	575
45556.0	46848.4	40455.7	45348.0	-0.1	0.2	293
30138.9	25238.6	28507.1	27534.0	-0.1	0.2	1429
14608.0	13434.9	14905.4	13470.0	-0.1	0.1	834
7212.4	6694.0	6754.0	6739.4	-0.1	0.0	21
12162.5	13235.8	11985.9	10842.0	-0.1	0.3	337
10897.7	10005.0	10263.5	10107.0	-0.1	0.3	12
109626.2	96008.9	95085.8	104610.0	-0.1	0.1	398
3842.2	3949.8	3548.6	3371.7	-0.1	0.2	143
51182.7	47713.0	49582.9	51347.0	-0.1	0.1	660
14335.4	13020.2	12995.8	13624.0	-0.1	0.0	1000
33018.8	30445.8	27708.9	34926.0	-0.1	0.3	527
76093.2	72837.1	71349.1	77130.0	-0.1	0.1	257

Kctd12	0.775276	8.98E-69	134.28	S(0.207)PS(0.775)GGAAGPLLT(0.0	2	-0.73622	26237.8	25388.1
Suv420h1	0.918676	5.55E-05	48.568	T(0.005)EDCS(0.076)PEHS(0.919)F	3	-0.9264	12222.6	12297.5
Myo1b	0.74608	6.09E-05	49.343	S(0.746)LPIY(0.01)S(0.24)PEKVED\	3	-0.12762	4546.9	4614.0
Myh10	0.996638	4.55E-53	127.92	QLHIEGASLELS(0.997)DDDT(0.003	3	0.4831	49251.7	48552.7
Scn7a	0.99464	9.91E-07	100.02	KS(0.005)S(0.995)AGQVSR	2	-0.35157	333401.6	372084.5
Spg20	0.693784	1.79E-07	56.746	QS(0.009)S(0.036)S(0.153)S(0.694	3	0.54328	2897.3	3007.5
Dkc1	0.998682	2.90E-30	86.946	KRDS(0.999)DS(0.997)DADEAT(0.(	3	0.81987	43833.4	41140.9
Nes	0.997859	9.60E-23	66.677	S(0.998)LEGENHES(0.002)LSSVEKE	5	1.2415	26140.0	24504.0
Rps6kc1	1	6.46E-05	81.565	VRS(1)VGAGGAEK	3	-0.16605	47300.5	43372.0
Larp1	0.945015	0.00837875	56.122	AVT(0.055)PVPT(0.945)K	3	-0.209	21464.7	23219.5
Kif21a	0.74296	2.06E-29	80.067	HSDSGAS(0.004)ET(0.073)S(0.371	3	-0.41049	38732.3	36394.5
Hectd4	0.90072	2.51E-21	126.71	S(0.001)IS(0.098)GT(0.901)PAETP,	2	-0.71219	15299.7	16685.2
Sergef	0.988228	1.90E-05	120.86	T(0.012)LGS(0.988)PEAQK	3	0.29642	68580.3	61540.2
Plec	0.826018	1.02E-13	75.911	DPYS(0.02)GS(0.826)T(0.149)IS(0.1	3	-0.0554	6710.4	7507.8
Cadps	0.949252	1.44E-09	74.296	MT(0.04)AS(0.949)AAS(0.011)ELIL	3	0.036591	3412.9	3827.8
Zmynd8	1	1.06E-14	81.157	DKAS(1)PEPEKDFAEK	3	-1.0974	89332.9	87502.0
Bcl10	0.953123	2.91E-13	114.64	SNS(0.045)DES(0.953)NFS(0.001)E	2	0.88911	28624.3	20486.0
Epb41l4a	0.997509	0.000161015	58.32	AHHS(0.998)GEDS(0.002)DLK	3	0.81815	12557.7	11748.0
Srrm2	0.835679	1.84E-05	88.155	S(0.836)GS(0.164)ESSVEQK	3	0.84453	20864.7	19847.6
LOC10091	0.879364	1.53E-06	81.709	LVT(0.121)S(0.879)DPEINTK	3	0.11131	7033.9	7005.3
Ksr1	0.990975	2.75E-43	152.86	RT(0.009)ES(0.991)VPSDINNPVDR	3	0.00047268	19967.8	19414.3
Ilvbl	0.830947	0.0125781	41.684	KS(0.169)S(0.831)IIIVNR	3	0.010436	11376.0	10952.4
LOC10091	0.988445	2.75E-78	124.09	GEEEEEEDEPVPEAPS(0.988)PT((	3	-0.50645	11168.6	12814.2
LOC69188	0.885328	8.22E-42	154.81	AT(0.115)S(0.885)VGDQLEAPAR	2	-0.17759	61873.8	67661.0
Trappc9	0.999844	3.09E-05	67.646	FNFESVPES(1)PGEK	3	0.25469	11951.8	11925.7
Gapvd1	0.94162	4.20E-05	42.209	FS(0.04)LCS(0.942)DNLEGIS(0.018	3	-1.1044	9332.2	8389.4
Ogn	0.852628	0.00365264	57.347	Y(0.096)GT(0.853)DNS(0.051)EET(	2	-1.0463	10712.8	12647.4
Elmsan1	0.882228	1.16E-05	61.165	RES(0.882)PS(0.118)EERLEPK	4	0.16049	16145.3	15903.1
Vps53	0.989184	4.59E-31	72.725	KLES(0.989)PPPS(0.01)T(0.001)NP	4	1.2308	20196.8	20110.8
Wnk1	0.808301	3.68E-12	62.589	S(0.145)GS(0.808)GS(0.047)GGAS.	4	0.48284	12158.2	10672.4
Dlgap3	0.996431	0.048406	62.104	S(0.996)LPDS(0.004)GR	2	-0.026694	2540.3	2025.6
Clip1	0.655476	1.10E-09	76.82	KIS(0.655)GT(0.172)T(0.172)ALQE	2	-0.10753	9567.4	8003.5
Mtdh	0.740047	2.08E-10	87.083	T(0.103)MS(0.74)T(0.133)S(0.025)	3	1.1888	9459.6	9271.2
Sipa111	0.96497	2.90E-07	75.589	FLMPEAYPS(0.035)S(0.965)PR	3	-0.18186	1855.8	1749.5

25945.3	23590.8	23763.4	24899.0	-0.1	0.0	189
12761.9	11099.7	12591.8	11035.0	-0.1	0.2	633
5300.4	4117.1	5104.6	4249.5	-0.1	0.4	60
51427.5	42542.0	46923.1	49557.0	-0.1	0.2	1977
391798.9	344936.4	353860.1	323430.0	-0.1	0.3	905
3110.0	2760.2	2835.6	2802.3	-0.1	0.0	375
43896.3	37978.3	44012.1	38067.0	-0.1	0.3	452
28600.5	23982.4	23991.1	25852.0	-0.1	0.2	1016
44734.1	41395.9	42077.9	42677.0	-0.1	0.1	670
21698.5	20978.4	18176.6	22690.0	-0.1	0.3	399
36741.9	33282.6	36036.8	34903.0	-0.1	0.1	1277;1264
14942.3	13826.5	13315.3	16578.0	-0.1	0.4	1581
67136.3	58029.5	61817.8	63931.0	-0.1	0.2	250
7579.8	6954.5	6698.0	6656.2	-0.1	0.2	3583;3469;3440
2961.6	2798.4	3646.7	3060.2	-0.1	0.5	259
91446.4	82224.2	79029.4	88709.0	-0.1	0.1	665
32237.4	20696.8	28863.0	26234.0	-0.1	0.7	141
10755.0	10347.5	11602.3	10719.0	-0.1	0.3	280
19108.2	17861.1	19425.8	18453.0	-0.1	0.1	1476
5932.4	5714.0	6832.3	6063.3	-0.1	0.4	225
19923.7	17412.4	18821.0	19028.0	-0.1	0.1	394
10305.1	9982.4	10169.7	10256.0	-0.1	0.1	369
12471.2	11071.1	10166.1	12731.0	-0.1	0.4	32
62107.0	55965.9	58044.5	64570.0	-0.1	0.2	6
12954.6	10728.2	10064.0	13530.0	-0.1	0.5	944
8575.6	7965.7	8716.8	7823.8	-0.1	0.2	569
11049.9	10427.7	9289.2	12352.0	-0.1	0.5	35
12943.9	14174.1	12997.9	14761.0	-0.1	0.4	915
19142.3	18405.6	17624.1	19378.0	-0.1	0.1	254
12226.3	10228.2	12229.6	10216.0	-0.1	0.4	183
2629.0	2066.3	2649.6	1989.9	-0.1	0.6	687
9936.2	8833.6	8453.4	8351.6	-0.1	0.4	347;353
9076.1	8181.2	9270.8	8469.6	-0.1	0.1	493
1930.6	1596.7	1824.8	1739.1	-0.1	0.2	162

Map1a	0.8869	4.72E-49	92.142	APS(0.887)LDS(0.09)S(0.023)LPQL	3	0.21193	5369.4	5686.8
Tcf25	0.68756	2.54E-43	146.86	LS(0.312)PVS(0.688)HGNTIALFFR	3	-0.061135	4666.2	5179.7
Nfia	0.547136	2.79E-43	78.683	VSQTPIAAGTGPNFSLSDLESS(0.001	3	-0.25086	5414.5	4124.7
Nckap5l	0.701891	0.000228618	56.514	S(0.846)PHS(0.183)S(0.268)PT(0.7	3	0.6782	13269.8	12414.9
Mast3	1	0.0304073	45.022	RGQS(1)ADK	3	-2.4434	6966.8	7030.3
Pcm1	0.69737	4.44E-09	57.802	TEYMAFPKPFES(0.052)S(0.052)S(C	3	1.8435	15540.6	14663.6
Rrad	1	0.0116862	57.59	RRES(1)LGK	3	-0.38815	30055.5	24273.6
Tjp2	0.51447	3.16E-16	92.039	QQYSDQEY(0.217)HS(0.514)S(0.2	3	-0.36627	38126.4	33914.4
Ptpn14	0.998141	1.53E-10	91.789	ICTEQS(0.002)NS(0.998)PPPIR	2	0.38197	12414.6	13734.5
Gatad2a	0.99908	2.93E-37	106.43	RPPS(0.999)PDVIVLSDS(0.001)EQf	3	-0.66345	15723.1	16053.3
Lmnb2	0.99543	4.93E-101	156.8	QRLETEDT(0.002)PGS(0.995)PS(0.	3	-0.37006	8621.8	8340.4
Gtf3c3	0.749049	3.00E-63	112.39	GKS(0.241)S(0.749)PKENPGDAEVF	3	0.6979	22999.6	22990.2
Nefl	0.651441	0.00749341	54.198	S(0.153)T(0.196)KS(0.651)EMAR	3	0.27096	17488.3	15976.6
Map2	0.692951	1.52E-30	72.208	S(0.022)GT(0.08)S(0.31)T(0.349)P'	3	-0.34845	99298.9	105671.3
Bbx	0.741212	1.36E-10	48.392	AEPLT(0.741)PT(0.257)EDALPPS(0	4	0.86935	8542.7	9303.7
Srsf4	0.918187	0.00242696	48.948	S(0.018)RS(0.918)PS(0.064)KDNK	3	-0.16356	17234.2	15697.9
Limch1	0.999976	9.86E-16	102.33	KETDDIES(1)PKR	4	-1.013	175276.2	172775.1
Zfand3	0.774253	4.20E-08	58.885	SCGADSQS(0.005)ES(0.22)EAS(0.7	4	0.41371	4630.3	4093.7
Suds3	0.560197	7.40E-22	70.784	RPAS(0.56)PS(0.878)S(0.561)PEHL	4	-0.54904	39548.1	34831.4
Snrnp200	1	1.27E-40	130.01	EEAS(1)DDDMEGDEAVVR	3	-1.0187	139042.6	134920.5
Atxn2	0.799003	8.46E-45	82.885	T(0.063)NS(0.191)PS(0.799)AS(0.7	4	0.2313	38410.2	39997.9
Ttbk2	0.581936	3.71E-10	82.349	DQS(0.582)AT(0.388)T(0.03)EPLD'	2	0.70809	11835.1	12133.0
Lmna	0.906258	1.37E-10	66.893	SGAQAS(0.024)S(0.906)T(0.068)PI	3	-2.8031	4742.1	4507.8
Map7	0.993151	0.000558372	66.267	T(0.993)IHGIS(0.005)S(0.001)YK	2	0.53155	15365.3	16159.7
Ppm1k	1	3.00E-05	43.476	CGGFVAWNS(1)LGQPHVNGR	3	3.0936	7760.9	8209.4
Cds2	0.794843	2.20E-104	140.66	EDAPPEDKESES(0.002)EAKLDGET(	4	0.46428	65923.0	65032.8
Rps2	0.992544	2.07E-36	106.38	ETVFTKS(0.007)PYQEFT(0.993)DH	4	-0.68426	18200.3	19279.4
Scaf11	0.723893	2.87E-06	67.234	FHS(0.724)PS(0.225)T(0.018)T(0.0	3	0.28232	28933.2	30154.2
Dst	0.952794	0.000308725	46.318	AMVDS(0.953)QQKS(0.047)PMK	3	-0.23874	18479.4	19676.5
Tjp2	1	8.88E-24	68.219	S(1)QEES(1)PVPQPR	2	0.045291	17861.6	18892.2
XAF1	1	0.00962774	80.438	AVS(1)PGRK	2	-0.34153	54779.8	45798.4
Caprin2	0.95082	4.01E-15	128.22	T(0.001)ES(0.006)IKES(0.951)ES(0	3	-0.24354	95840.1	116602.0
Eif3g	0.842938	3.62E-43	89.979	GIPLPT(0.002)GDT(0.156)S(0.843)	4	0.052795	482760.9	482434.1
H1f0	0.999287	3.60E-05	92.409	GVGAS(0.001)GS(0.999)FR	2	-0.057807	22590.5	20075.7

4832.8	4888.3	4840.2	5084.3	-0.1	0.2	2432
4390.5	4368.8	4313.8	4589.7	-0.1	0.3	606
5416.8	4379.6	5016.3	4547.3	-0.1	0.5	256
12737.4	12507.6	11730.5	11586.0	-0.1	0.1	810
7022.7	6215.8	6409.1	6974.1	-0.1	0.1	1215
14833.7	13843.0	14305.9	13846.0	-0.1	0.0	1185
26014.5	25739.1	25151.6	24025.0	-0.1	0.4	272
41793.6	33250.7	33395.1	39499.0	-0.1	0.5	410;437
13754.1	11741.0	11198.3	14269.0	-0.1	0.4	314
13841.4	13480.0	13780.2	15277.0	-0.1	0.3	96
7068.1	8183.9	7330.9	6893.0	-0.1	0.4	447
22893.0	20133.7	21465.8	22633.0	-0.1	0.1	43
15736.5	14871.5	15830.9	15180.0	-0.1	0.1	364
96211.7	89281.5	93581.1	98010.0	-0.1	0.1	1692;1606
10230.7	8693.3	8051.3	9442.0	-0.1	0.4	577
16668.0	15052.9	14013.1	17195.0	-0.1	0.3	249
164135.9	151970.4	166826.0	158910.0	-0.1	0.1	10
4738.2	3753.8	4074.6	4727.5	-0.1	0.4	129
43173.4	35142.6	35039.8	39458.0	-0.1	0.4	234
129939.6	116925.7	128034.2	131760.0	-0.1	0.2	225
39091.5	35332.9	36128.7	38133.0	-0.1	0.1	634
12584.1	10151.9	11476.2	12465.0	-0.1	0.3	747
4585.0	4329.1	4354.6	4220.5	-0.1	0.0	18
16198.5	15120.0	14156.3	15237.0	-0.1	0.1	309
8814.3	7001.4	7337.2	8779.2	-0.1	0.4	248
60090.5	62394.1	58426.0	57380.0	-0.1	0.1	30
17203.5	17434.4	16159.0	17413.0	-0.1	0.2	270
29050.9	26836.8	26845.4	28530.0	-0.1	0.0	782
17300.4	17615.9	16591.8	17522.0	-0.1	0.2	1493;1556
18687.7	15552.3	17268.2	18896.0	-0.1	0.3	459;486
47925.9	48916.3	47988.5	41628.0	-0.1	0.4	127
101475.3	98999.7	81750.2	112090.0	-0.1	0.5	320
454208.2	434539.1	423610.4	465990.0	-0.1	0.1	42
18474.7	18503.5	19509.2	19026.0	-0.1	0.3	92

Stoml1	0.999802	2.84E-09	70.089	FQSSFGFLGS(1)QK	3	1.1048	5521.5	5384.1
Cdc42ep3	0.679531	7.71E-31	90.464	ANS(0.68)T(0.159)S(0.159)DS(0.0	3	0.46655	6877.8	6009.4
Ubxn2a	1	0.000833379	80.69	AKS(1)IEVDNK	2	0.70572	30634.0	27612.6
LOC100911	0.942532	3.58E-17	93.478	TQSS(0.001)S(0.004)CERDS(0.943)	3	-0.2082	1909.5	1806.5
Dst	0.872991	2.50E-05	80.31	RPS(0.127)S(0.873)GNASYR	2	-0.39813	30554.1	33255.2
Eepd1	0.999755	2.65E-15	109.39	DPSDSLHS(1)RK	3	-0.64125	143741.7	158537.1
Rasip1	1	0.00107434	80.231	HGPPVAAT(1)P	2	0.52293	5943.6	6294.9
Rere	0.629356	6.73E-20	97.502	NS(0.075)PS(0.244)AAS(0.629)T(0	2	-0.36776	7868.1	6439.4
Sec62	0.999712	5.57E-12	96.113	KEETPGT(1)PK	4	0.091217	389195.2	372205.1
Nap114	0.713713	5.83E-107	110.33	EFITGDVEPT(0.012)DAES(0.714)A	4	-0.71185	41770.0	39332.1
LOC100901	0.585754	1.78E-18	138.45	S(0.021)ES(0.005)ET(0.124)S(0.26	2	0.11422	27412.5	26831.6
Akap12	0.777324	1.05E-30	86.357	S(0.035)PES(0.777)PS(0.177)S(0.0	4	-0.55685	28299.9	28358.5
Igfbp6	0.999937	0.000162623	46.318	ESKPHGGAS(1)RPR	4	-0.51864	4593.6	4466.0
Mpp5	0.972675	1.32E-19	63.625	TGIDNPIFDT(0.027)EEGIVLES(0.97	4	0.19136	9887.6	10437.7
Rps6	0.991056	1.30E-23	94.632	LS(0.008)S(0.991)LRAS(0.591)T(0.	2	-1.4401	463022.0	476192.7
Hectd2	0.747481	6.56E-05	57.434	S(0.115)S(0.138)PT(0.747)HLALPN	3	-1.3823	1414.5	1276.4
Smarcc1	1	3.76E-06	86.288	NEEPVRS(1)PERR	4	-0.28488	78509.3	77763.6
Rsrp1	0.775789	9.30E-08	88.075	AAVEET(0.092)S(0.776)S(0.117)GS	3	-0.83398	9687.4	8285.3
Kcnc3	0.684812	7.61E-15	79.837	S(0.685)LS(0.087)S(0.124)IVGLS(0	2	0.92716	6115.1	6688.9
Ahi1	0.999747	8.18E-07	45.042	LPQQGS(1)FQIDFVNTENSSR	3	-1.564	7890.4	8302.1
Sos1	0.999995	0.000781288	103.18	RLS(1)ESACR	3	-0.25047	18490.1	16881.5
LOC100911	1	0.0144548	52.579	S(1)KS(1)PFRK	4	-0.14442	91344.9	87101.6
Tmem175	0.999678	3.09E-10	49.266	ES(1)PAHNVEPFSIDLHAPLSK	4	-1.4684	11757.2	12413.8
Gigyf2	0.962637	3.21E-12	69.333	AEEES(0.016)RS(0.963)ENS(0.021)	3	-0.41503	38489.0	35024.5
Zfhx3	0.617037	0.00161465	65.842	T(0.084)LLS(0.617)PS(0.244)S(0.0	2	0.27056	10180.6	9121.3
Cdc23	0.620394	8.72E-23	67.218	NQGETPTS(0.001)DT(0.22)PGT(0.0	3	0.71314	8003.0	7515.6
Rtn1	1	7.64E-28	102.45	REQDS(1)PPMKPGVLDAIR	3	0.6547	110278.7	108650.5
Ccnl1	0.599724	3.24E-17	61.612	GLNLDGT(0.001)PALS(0.17)T(0.6)I	3	-0.48907	8233.8	8745.2
Sdpr	0.553318	0.00220452	60.157	EPVPS(0.447)T(0.553)AEGK	2	0.8872	13645.4	13160.8
Prcc	1	2.75E-27	77.576	IAAPELHKGDS(1)DS(1)EEDEPAK	4	-0.4086	54443.4	56404.5
Prcc	1	2.75E-27	77.576	IAAPELHKGDS(1)DS(1)EEDEPAK	4	-0.4086	54443.4	56404.5
Rps6	0.975267	7.49E-22	141.54	AS(0.002)T(0.319)S(0.638)KS(0.04	3	-0.14725	584138.6	573379.3
Cdk9	0.975559	0.0019133	53.769	NSQPNRY(0.024)T(0.976)NR	3	-0.89288	4494.5	4357.6
Slc4a2	0.928345	1.39E-123	140.75	RRPGAS(0.928)PT(0.065)GET(0.00	4	0.4987	9245.2	9198.8



5101.0	4949.0	5010.0	4973.8	-0.1	0.0	28
5825.0	5666.3	5642.0	6148.8	-0.1	0.3	89
28625.0	25270.5	29285.1	26490.0	-0.1	0.3	154
1925.4	1385.7	1952.6	1924.7	-0.1	0.5	145
30590.4	27022.7	28433.4	32614.0	-0.1	0.3	141
148624.0	140838.8	135183.5	144660.0	-0.1	0.1	21
5877.4	4925.0	5841.1	6135.8	-0.1	0.4	959
7908.4	6658.5	6654.2	7414.5	-0.1	0.4	350
400752.5	344991.4	337456.4	401860.0	-0.1	0.3	158
41113.3	35270.2	38052.3	40707.0	-0.1	0.2	121
28901.8	24368.5	24997.7	28213.0	-0.1	0.2	151
31565.6	27717.9	25731.9	28868.0	-0.1	0.2	271
5827.2	4559.3	4729.7	4601.6	-0.1	0.5	117
9442.0	8724.0	9778.0	9273.4	-0.1	0.2	80
409503.9	424683.4	380725.8	453100.0	-0.1	0.4	236
1423.4	1458.8	1453.5	927.0	-0.1	0.6	78
73310.2	70209.3	69454.4	74574.0	-0.1	0.1	309
7141.6	8449.9	8521.9	6464.4	-0.1	0.6	281
7271.2	6035.0	6415.8	6283.3	-0.1	0.3	731
7960.2	6854.4	7659.9	8025.4	-0.1	0.2	811
15848.3	15349.9	16809.8	15641.0	-0.1	0.3	401
81732.6	81254.0	79190.8	82370.0	-0.1	0.1	101
12147.6	12392.1	10579.6	10924.0	-0.1	0.2	124
33722.5	31719.5	32985.8	35384.0	-0.1	0.3	415
10896.6	9295.6	9027.7	9863.6	-0.1	0.3	2793
6923.9	7331.9	7048.8	6567.0	-0.1	0.3	570
113107.6	97927.2	103145.5	108850.0	-0.1	0.1	485
9360.2	8133.0	8157.6	8294.6	-0.1	0.2	233
14881.6	12130.4	11995.5	14786.0	-0.1	0.4	179
52067.4	50875.3	50210.2	50982.0	-0.1	0.0	155
52067.4	50875.3	50210.2	50982.0	-0.1	0.0	157
496836.5	502098.6	511057.6	531070.0	-0.1	0.3	246
4708.1	3372.8	5560.9	3723.8	-0.1	0.7	186
10298.3	8738.8	8559.1	9531.3	-0.1	0.2	113

Epc1	0.99171	6.68E-11	52.095	VLPSS(0.001)AAAPQQPS(0.992)PA	4	0.68134	5970.0	7113.1
Pcyt1b	0.900522	6.61E-05	100.31	QSPVS(0.098)S(0.901)PT(0.001)R	2	0.062876	27327.9	28633.9
Ncbp1	0.760462	2.49E-32	99.078	RKT(0.76)S(0.206)DANET(0.033)EI	4	0.071418	26964.1	26516.8
Atp1a2	0.5	3.60E-08	101.61	AGQENIS(0.5)VS(0.5)K	2	0.26224	39659.0	39344.1
Usp10	0.5	1.30E-57	90.98	HSVSNGPGSHLIEDEELED(0.5)GEC	6	-0.41965	12654.3	12078.1
Usp10	0.5	1.30E-57	90.98	HSVSNGPGSHLIEDEELED(0.5)GEC	6	-0.41965	12654.3	12078.1
Ibtk	0.5491	3.31E-07	44.31	KRS(0.549)DS(0.189)S(0.189)GGY(	4	2.1659	8091.6	7187.0
Elac2	0.920655	0.000142063	58.32	RCGEQEPS(0.079)RS(0.921)PK	4	-0.64434	58672.7	55673.9
Map1a	0.593857	1.84E-41	113.01	GFKS(0.002)PPCEDFS(0.404)VT(0.!	4	-0.53691	34116.6	32359.0
Lmna	0.916712	6.39E-22	86.453	ASS(0.001)HS(0.016)S(0.063)QS(0	2	0.21768	9073.1	8761.5
Chgb	0.804719	2.36E-11	53.481	AAEFPDFY(0.195)DS(0.805)EEQM(	4	0.049896	7348.6	7481.5
Ncl	0.832561	0.000120175	49.595	NLS(0.833)FNIT(0.167)EDELK	3	1.352	5929.5	5409.0
Kctd1	0.803935	1.15E-09	60.133	S(0.196)PAS(0.804)PLNNQGIPTPA	3	-1.1126	2378.2	2542.6
Rgs3	1	0.041556	61.593	VQNS(1)LRR	2	1.0845	10368.3	12502.6
Camsap2	0.662531	5.83E-07	61.127	LS(0.007)QS(0.275)S(0.663)PDNIT	3	0.095985	37710.1	34713.0
Cryab	1	2.90E-07	95.822	DRFS(1)VNLDVK	2	1.9087	34394.5	33140.0
Nefh	1	0.032232	43	VVEKS(1)EK	3	0.67606	6105.4	5794.5
Mycbp2	0.953526	0.0043381	60.161	S(0.021)T(0.025)S(0.954)PKPKPVP	3	-0.23451	47169.3	44307.7
Slco3a1	1	0.00326302	47.774	S(1)GELQGDEAQR	2	1.0976	5228.9	5571.7
Fxr2	0.982368	0.00147585	73.665	GS(0.018)NGAFY(0.982)K	2	-0.74646	19730.5	19543.7
Nup160	0.699792	1.93E-30	70.109	LIRPEY(0.002)AWIVQPAS(0.7)GAV	5	-0.28026	13511.9	13846.4
Lima1	0.979044	5.23E-10	57.238	S(0.979)PLEPES(0.021)PGWPGFGI	3	-0.090429	29130.0	27591.8
Ksr2	0.860869	1.57E-08	78.326	T(0.861)ES(0.139)VPCDINNPVR	2	0.35887	15294.9	14650.4
Nhs	0.5	1.54E-05	60.55	NPIHNVPS(0.5)T(0.5)LDK	3	-0.22233	4474.8	5272.9
Nhs	0.5	1.54E-05	60.55	NPIHNVPS(0.5)T(0.5)LDK	3	-0.22233	4474.8	5272.9
Ptrf	0.997836	5.73E-10	56.131	QAEMEGAVQS(0.002)IQGELS(0.99	4	-2.0506	3747.2	4056.0
Map1b	1	1.67E-21	93.371	EDFS(1)PEKK	3	-0.10621	234945.9	233961.0
Cadps2	0.999651	0.0015431	41.695	VRS(1)LPEIDGLSK	3	3.3825	6778.0	7025.5
Mycbp2	0.90092	1.51E-06	88.706	S(0.022)YS(0.901)VVAS(0.076)EYC	3	0.72376	12192.8	10615.7
Dock10	0.996123	8.89E-06	57.595	IPRPLS(0.996)LIGS(0.002)T(0.002)	3	0.50235	7948.9	8491.3
Drgx	1	1.17E-12	102.63	NINS(1)PPPGDQAR	2	0.12884	26906.8	25848.8
Cdk12	0.989991	1.35E-08	70.783	RT(0.99)PT(0.01)MPQEEAAEK	3	0.52626	22174.3	21824.2
Rock1	0.915118	1.40E-10	63.46	S(0.039)S(0.045)S(0.915)NVDKNV	3	1.0639	8878.4	9095.1
Zfp318	1	0.000158421	63.091	S(1)FPDIEDEEK	3	-0.01327	6621.8	7007.8

5955.9	6135.9	6191.0	5445.1	-0.1	0.4	306
24847.7	25131.9	24822.5	25482.0	-0.1	0.2	285
25450.3	24410.3	26059.9	23215.0	-0.1	0.1	21
43615.2	37398.6	38133.5	38941.0	-0.1	0.1	441
12344.5	11359.3	11224.0	12031.0	-0.1	0.1	572
12344.5	11359.3	11224.0	12031.0	-0.1	0.1	568
7734.1	6821.7	7678.1	6984.4	-0.1	0.2	990
56064.0	52281.1	52421.3	54391.0	-0.1	0.0	193
36033.9	29528.4	31918.3	34255.0	-0.1	0.3	1154
9371.3	9055.0	8020.0	8324.5	-0.1	0.2	409
9118.1	7668.0	7262.4	7427.7	-0.1	0.4	624
5696.7	5244.9	4925.8	5733.4	-0.1	0.2	406
2573.9	2352.7	2475.8	2168.6	-0.1	0.2	616
10244.3	9087.6	11416.3	10413.0	-0.1	0.5	706
37137.9	34468.3	33117.3	34704.0	-0.1	0.1	571
35777.3	29925.5	30226.6	36304.0	-0.1	0.4	76
6870.7	5039.1	5373.2	7112.8	-0.1	0.6	450;450
46425.8	42052.6	42216.8	44484.0	-0.1	0.1	2973
5227.2	5037.0	4786.2	5141.2	-0.1	0.1	15
17219.5	17536.7	17843.1	17367.0	-0.1	0.2	26;16;16
12224.2	12041.3	12644.2	12274.0	-0.1	0.2	1090
33759.8	28240.4	27528.3	28718.0	-0.1	0.3	697
15441.6	13868.3	13927.6	14584.0	-0.1	0.0	470
5525.7	4386.2	4997.3	4878.1	-0.1	0.4	154
5525.7	4386.2	4997.3	4878.1	-0.1	0.4	155
3501.4	3408.6	3743.2	3403.9	-0.1	0.3	96
253895.8	213315.2	232056.0	229600.0	-0.1	0.1	1465;1339
6204.7	6199.8	6354.6	6130.0	-0.1	0.2	190;219
11500.3	10101.8	10086.0	11852.0	-0.1	0.4	3553
7534.9	7326.6	7442.5	7620.5	-0.1	0.1	1199
23388.1	24070.4	23214.2	23824.0	-0.1	0.2	119
25034.0	19305.4	22527.0	22637.0	-0.1	0.4	1240
9522.1	7859.8	9073.4	8745.9	-0.1	0.2	418
6532.0	6184.3	5190.1	7456.1	-0.1	0.5	557

Pcm1	0.55411	7.13E-15	78.69	HIS(0.446)ES(0.554)DEKEGENIK	4	-0.55587	13499.9	12890.9
Sphkap	0.989271	0.00254203	90.104	QS(0.01)S(0.989)MPDSR	2	-1.0917	18919.5	18654.1
Hnrnpd	0.83568	0.00140776	46.069	IFVGGLS(0.164)PDT(0.836)PEEK	3	2.1113	7810.0	8389.2
Rps6	0.960978	1.15E-21	138.73	AST(0.019)S(0.961)KS(0.019)ESSQ	3	-0.37475	158638.3	159996.0
Acin1	0.5	0.0250801	48.091	KES(0.5)S(0.5)MPK	3	-0.04511	11830.5	10833.6
Acin1	0.5	0.0250801	48.091	KES(0.5)S(0.5)MPK	3	-0.04511	11830.5	10833.6
Llgl1	1	0.00141236	90.761	S(1)LRQS(1)FR	3	0.53168	51218.4	52724.3
Cdk11b	1	0.000803769	74.841	HRS(1)HS(1)AEGGK	3	0.14224	12521.9	11647.0
Speg	0.999995	0.000117461	84.507	LSALGRS(1)PR	3	-0.032792	3301.8	4474.3
Caskin1	1	0.000162623	46.318	RAS(1)VPPVPGKPR	3	0.13623	21320.3	25247.7
Pdia3	0.743931	5.64E-07	43.306	T(0.229)FS(0.744)HEL(0.026)DFG	3	-1.6587	7012.8	7009.5
Akap12	0.823847	8.72E-42	113.33	SAT(0.005)LS(0.138)S(0.824)T(0.0	3	0.45609	51002.6	52547.7
Larp7	1	0.00067672	96.113	KEES(1)VQAK	3	-0.99636	43420.7	39982.5
Ppil4	0.810158	3.36E-11	43.425	INHT(0.001)VILDDPFDDPPDLLIPDI	5	0.91906	5501.4	7140.9
Cgn1	0.990632	1.81E-39	116.6	RKS(0.991)PT(0.009)APSPQAYSETI	5	0.31537	96403.1	91144.8
Tgfb2	0.957702	1.52E-12	104.41	LSPSWES(0.958)S(0.042)KPR	3	0.35933	17716.1	19471.3
Nfatc1	0.795587	7.08E-09	61.37	IT(0.196)S(0.796)PVQVS(0.006)FY	3	0.068428	8807.9	8803.6
Nes	0.817434	2.21E-31	91.166	VS(0.01)QDS(0.817)LGS(0.172)LA	3	-1.5091	5164.2	4999.5
Abtb2	0.848501	2.20E-05	66.708	HPLCPGT(0.151)S(0.849)PAR	3	-0.26803	27776.3	30190.4
Casc3	0.662634	1.86E-06	40.456	QRAS(0.663)QDT(0.234)EDEES(0.0	3	0.62535	737.1	596.5
Sash3	0.950361	0.00763729	44.543	S(0.02)S(0.03)S(0.95)FKDFAK	3	0.23723	35122.0	27151.9
Sf3b2	0.86228	2.20E-48	115.87	SSLGQS(0.004)AS(0.133)ET(0.862)	3	-0.093935	35798.3	34533.1
Vamp4	0.992571	3.34E-13	103.91	HLNDDVDT(0.993)GS(0.007)VK	3	0.56988	13699.1	13231.0
Eif5b	1	0.00132647	47.712	IEPIPGES(1)PK	3	0.58501	21468.2	21620.2
Pnir	0.95425	9.26E-06	84.365	SS(0.004)S(0.954)ES(0.028)PGS(0.	2	-1.2561	9785.7	9905.1
Eif5b	0.806521	0.000452147	45.829	DGS(0.193)EEDEDNS(0.807)KR	3	0.38835	6672.4	7549.4
Nefh	0.964574	0.0199477	54.65	S(0.008)T(0.027)KES(0.965)LER	2	1.6647	77706.6	72041.0
Tln2	1	0.000494326	84.892	LDEGT(1)PPEPK	2	1.4619	82762.4	74112.0
Popdc3	0.777436	0.000192042	44.998	LPNY(0.002)Y(0.004)QLS(0.777)S(i	3	1.084	2412.8	1964.9
Peg3	0.876507	1.28E-09	74.789	VCEET(0.001)FVPS(0.877)QS(0.12	3	0.59337	8938.7	9135.9
Scaf1	0.953098	3.54E-22	80.082	QRS(0.998)GDPAPPDS(0.953)PT(0	3	1.4237	38385.2	41992.1
Bag3	0.635254	4.48E-42	85.474	S(0.001)QS(0.006)PAAS(0.037)DC	3	-0.30809	3497.9	3399.6
Phax	0.876615	0.0102447	63.401	KES(0.087)QEY(0.036)T(0.877)K	3	0.50431	53225.7	46105.5
Gcc2	0.757241	9.15E-22	87.352	S(0.025)EPPT(0.176)KS(0.757)PAS	3	-0.099305	14965.7	16107.1

13110.0	11953.3	12129.1	12811.0	-0.1	0.1	1434
16952.3	16183.7	18543.1	16200.0	-0.1	0.3	1263
8791.7	7425.6	8022.5	7894.0	-0.1	0.2	191
128725.9	139716.9	141199.9	136930.0	-0.1	0.4	242
10844.4	10126.4	9143.6	12028.0	-0.1	0.5	709;815;815
10844.4	10126.4	9143.6	12028.0	-0.1	0.5	710;816;816
45940.4	46141.1	47437.1	46419.0	-0.1	0.2	661
12811.9	10798.6	10923.7	12820.0	-0.1	0.3	79
3254.1	3479.9	3867.7	2955.2	-0.1	0.6	311
22766.3	21288.6	22260.9	21215.0	-0.1	0.3	687
7477.7	6498.7	6333.2	7251.4	-0.1	0.2	308
56043.8	45599.9	49205.7	54283.0	-0.1	0.3	632
42826.3	38364.4	37384.4	42172.0	-0.1	0.2	228
5811.7	5910.2	5933.4	5395.9	-0.1	0.5	178
98715.7	84778.3	88036.0	94613.0	-0.1	0.2	256
18851.6	16477.4	17880.5	17994.0	-0.1	0.2	203
8092.5	7905.5	7533.5	8574.6	-0.1	0.2	671
5452.4	4143.4	5209.7	5236.0	-0.1	0.4	924
26682.1	27152.5	25163.4	26769.0	-0.1	0.2	365
549.7	358.0	795.7	605.8	-0.1	0.8	10
26002.8	27192.1	28888.7	26397.0	-0.1	0.5	27
32126.6	30705.4	33918.8	31105.0	-0.1	0.2	293
13443.2	12807.9	11755.1	13159.0	-0.1	0.1	15
19146.5	18502.4	20003.9	19642.0	-0.1	0.2	1164
9428.6	9143.1	9335.7	8728.7	-0.1	0.0	762
7170.7	7063.4	5789.5	7135.4	-0.1	0.4	172
68461.8	66167.0	69081.4	68647.0	-0.1	0.2	341;341
79061.4	69678.0	77287.5	73494.0	-0.1	0.2	1845
1907.7	1880.6	1836.5	2156.2	-0.1	0.5	216
8968.9	8098.9	8748.3	8424.0	-0.1	0.0	566
39755.9	37657.1	35927.8	38678.0	-0.1	0.1	520
3187.4	3626.6	3049.4	2748.3	-0.1	0.5	183
53049.0	45481.1	46240.2	50678.0	-0.1	0.3	159
13958.5	13675.8	14272.8	14134.0	-0.1	0.2	1474

Rock1	0.85632	3.04E-48	90.694	LLDLSDS(0.004)T(0.015)S(0.069)V.	3	0.56474	14822.6	14757.9
Pitpnm1	0.897886	3.45E-05	43.658	GPSQVDLEGPQT(0.898)PPT(0.046	3	2.2022	6941.0	7749.2
Crk	0.609303	8.05E-08	54.15	DS(0.031)S(0.156)T(0.609)S(0.182	2	-2.3887	6942.5	6132.9
Ank1	0.77809	0.00784914	44.753	IGHT(0.222)S(0.778)MVK	3	-0.62611	7788.7	7853.1
Slc5a3	0.705339	1.68E-21	73.936	S(0.295)LRDS(0.705)MDEEAVCLQI	3	0.5494	20893.4	22327.7
Lsp1	0.616222	3.34E-57	100.24	T(0.42)PS(0.578)PLALEDT(0.002)A	3	-0.11936	15399.9	14182.0
Amer2	0.606627	0.000112677	42.639	T(0.005)CLEAS(0.607)S(0.319)PT(C	3	0.83366	14937.1	13852.9
Psm7	0.567383	0.0345004	53.756	GS(0.433)T(0.567)AVGVR	2	-0.65558	18680.9	17049.3
Clgn	0.997546	6.01E-70	117.04	EVIGEPEEKS(0.998)EEDAET(0.002)	4	1.0545	119228.6	115538.0
Nefm	0.99791	2.81E-09	99.747	S(0.998)DQAEEGGS(0.002)EK	3	-0.36194	32584.0	27880.3
Wdr44	0.521452	4.03E-14	81.01	VS(0.444)PS(0.521)PS(0.034)QESL	2	0.15852	13595.4	13084.0
Atp2b1	0.811379	3.80E-06	77.894	RNS(0.811)S(0.189)PPPSPNK	3	0.89488	21741.4	19242.1
Larp1	0.998938	0.000844696	73.632	S(0.999)PEPS(0.001)APAK	2	0.016614	19414.4	18951.4
Utrn	0.583034	0.000280699	67.879	NKAS(0.064)S(0.583)S(0.353)DLR	3	0.21534	34745.1	35183.5
Magi3	1	2.73E-11	70.942	QS(1)PALQHR	3	0.4329	55287.8	55468.8
Srrm1	0.999968	1.15E-32	132.79	KVELS(1)ES(1)EEDKGSK	4	0.80393	324373.0	324588.1
LOC10036	0.520019	3.53E-09	50.464	S(0.16)GT(0.52)PT(0.311)QDEMM	4	1.4276	11245.2	9978.6
Rps6ka3	0.713065	4.26E-07	71.176	NS(0.022)IQFT(0.265)DGY(0.713)E	2	-0.024064	51394.9	46558.6
Ubr3	1	1.95E-07	45.193	AAGGEEAAGGGS(1)PGEAEEALEV	3	0.11154	8629.4	8195.3
Fcho2	1	0.000443044	81.972	HS(1)PVQMNR	3	0.039045	30951.2	28146.8
Ahnak	1	6.80E-05	49.298	FKAEEALPS(1)PK	3	0.21018	94550.9	93910.2
Ppp1r7	1	4.10E-60	164.53	RVES(1)EES(1)GDEEGKK	4	-1.0702	794837.4	786740.2
Itgb4	0.999668	1.96E-19	75.773	VPS(1)VELTNLYPYCDYEMK	3	1.2309	7725.8	7548.9
Myo18a	0.997156	3.90E-66	124.51	NKLEGDS(0.997)DVDS(0.003)ELED	5	-1.5084	94404.2	97323.8
Spp1	1	1.61E-72	176.21	VAEFGS(1)S(1)EEKAHYSK	4	-0.23743	420312.2	440652.6
Lmna	0.719361	1.80E-08	96.673	LRLS(0.742)PS(0.411)PT(0.719)S(0	2	-0.44427	102023.0	101860.6
Pqlc1	0.898698	2.84E-08	69.104	S(0.899)FAAT(0.094)DS(0.007)KDF	2	-1.2196	60678.8	58826.4
Sptan1	0.99936	0.0155874	60.641	AKLS(0.999)ES(0.001)HR	2	-0.13202	4754.7	5008.7
Zfp609	0.637329	8.36E-14	76.118	T(0.012)NS(0.283)MGS(0.637)AT(I	3	-1.3692	21956.0	20654.9
Smarca2	1	3.76E-19	63.532	IS(1)PIQKPQGLDPVEILQER	4	0.22829	18436.4	20027.5
Nefh	0.987697	1.08E-40	111.65	S(1)PAT(0.988)VKS(0.013)PVEAK	3	-0.68283	565831.0	570044.7
Trim46	0.502776	3.03E-23	65.795	EVLGQQGY(0.018)IGHGGDPS(0.50	3	0.12178	6803.3	7795.7
Eif4enif1	0.986972	2.72E-11	141.91	S(0.987)S(0.013)PVESLK	2	0.22987	103097.6	109724.4
Plekha6	0.877156	6.12E-07	44.848	ANGLPS(0.029)GPET(0.877)AS(0.0	3	-0.68832	12062.8	13849.6

13376.2	13124.7	12960.5	14061.0	-0.1	0.2	1105
7348.5	6984.0	6965.5	6647.5	-0.1	0.1	1221
7076.4	6635.1	5550.3	6648.2	-0.1	0.4	42
7616.3	7073.2	7572.1	7091.9	-0.1	0.0	391
20984.1	19037.0	20680.4	20290.0	-0.1	0.1	677
15687.5	14189.5	13668.0	14453.0	-0.1	0.1	178
14368.4	13791.3	12583.3	13963.0	-0.1	0.2	278
17224.8	16320.1	17586.7	15589.0	-0.1	0.2	31
114172.2	110216.0	105241.1	110700.0	-0.1	0.0	561
31463.4	26686.1	29241.3	30000.0	-0.1	0.3	536
12872.6	12582.4	11510.4	12879.0	-0.1	0.1	565;569
25123.4	19970.9	19025.1	22799.0	-0.1	0.5	1206
18303.3	17937.0	16939.1	18097.0	-0.1	0.1	9
35429.2	31731.6	33974.3	32781.0	-0.1	0.0	2286
54371.3	50862.1	50656.9	52843.0	-0.1	0.0	954
294703.5	282832.6	302330.0	296980.0	-0.1	0.1	380
12106.0	9809.7	10904.4	10443.0	-0.1	0.4	707
47434.1	45711.0	42853.7	47346.0	-0.1	0.2	393
7816.1	7687.4	7283.4	8064.8	-0.1	0.2	79
28948.7	27177.8	25950.9	29184.0	-0.1	0.2	440
91564.5	81384.9	90117.7	90295.0	-0.1	0.1	4805
780680.7	702335.3	722873.5	783330.0	-0.1	0.1	24
7830.9	6777.7	7112.5	7712.3	-0.1	0.2	1182
96654.6	88697.5	89015.9	91912.0	-0.1	0.0	1970
479046.3	398658.4	420575.5	433660.0	-0.1	0.2	26
108582.8	96135.4	97428.3	98589.0	-0.1	0.0	394
62405.1	53569.1	52492.9	64023.0	-0.1	0.4	110
5211.5	4308.4	4783.1	4910.6	-0.1	0.2	1741
20529.5	19889.5	20464.5	18688.0	-0.1	0.1	470
19521.3	17617.0	17926.5	18679.0	-0.1	0.1	220
630662.0	520467.9	534172.3	597270.0	-0.1	0.3	643;613
7923.1	6777.2	6809.4	7474.3	-0.1	0.3	51
111947.1	99892.8	97123.7	106700.0	-0.1	0.1	77
12889.6	12710.0	11376.8	12200.0	-0.1	0.3	374



Pitpnm3	0.820836	7.94E-20	66.399	KGS(0.821)IS(0.132)S(0.021)T(0.0	4	0.27872	14563.8	15239.4
C2cd4c	0.999539	1.00E-06	53.958	RAT(1)PEPGPESGQAPR	3	-0.5718	6117.8	5344.8
Epb41l1	0.999673	6.83E-71	102.51	S(1)LDGAEFSR	2	-0.49449	43733.2	43681.3
Srrm1	0.804071	3.70E-43	136.62	KET(0.804)ES(0.196)EAEDDNLDDL	3	0.12181	24434.4	27813.4
Dbn1	0.797331	7.28E-52	126.51	S(0.196)PS(0.797)DS(0.006)STAST	2	-0.71083	77874.8	91255.6
Fam169a	0.832484	1.19E-23	95.554	T(0.002)S(0.002)ES(0.164)S(0.832	3	-0.064596	21029.3	20319.3
Mllt6	0.973295	2.07E-26	80.813	RPES(0.973)PPS(0.027)ILAPPVVPT	3	0.68927	19928.5	18590.5
Anxa2	0.811504	5.36E-59	96.793	LSLEGDHS(0.003)T(0.014)PPS(0.16	5	0.60303	15687.3	16816.8
Ints12	0.874125	2.14E-78	191.48	S(0.874)S(0.126)PITVQTSK	2	-0.046115	25552.0	25412.2
Tnks1bp1	0.670677	4.10E-29	79.236	S(0.158)LS(0.138)S(0.671)GFS(0.0	3	1.8703	10415.9	9881.1
Srpk2	0.499904	1.65E-53	95.195	ILEENTTSAEAS(0.5)S(0.5)EQDGEC	4	0.2222	11255.6	11457.3
Srpk2	0.499904	1.65E-53	95.195	ILEENTTSAEAS(0.5)S(0.5)EQDGEC	4	0.2222	11255.6	11457.3
Ahnak	0.99998	1.50E-15	72.583	GPNVDVQS(1)PDWSLK	3	0.60717	79148.6	68774.4
Dync1i2	0.564587	1.67E-21	71.857	S(0.047)VS(0.565)T(0.175)PS(0.20	3	-0.60304	5806.6	6334.0
Arhgef6	0.994739	0.000115796	90.614	MS(0.995)GFMY(0.005)QGK	3	1.0211	154583.2	154237.2
Ahi1	0.703992	4.25E-07	42.314	AVSEDNEET(0.015)NGDGVHEIT(0.	4	0.41392	12870.2	12581.6
Inpp5e	0.812814	0.00756661	40.377	T(0.187)LS(0.813)LDDKGWR	3	0.40603	5232.5	5554.8
Dnmt1	0.544076	1.97E-32	96.052	S(0.134)KS(0.544)DS(0.134)ET(0.1	3	-2.2172	16332.6	13659.9
Dlg2	1	3.98E-05	93.345	AIS(1)LEGEPR	3	0.81404	20427.0	20877.6
Rad54l2	0.915649	0.0137431	60.436	HS(0.001)AS(0.084)S(0.916)PK	2	1.0234	10565.0	9864.3
LOC10255	0.999846	0.00149008	89.171	YAS(1)ENVNK	2	0.28429	26463.2	25390.3
Tp53bp1	0.800144	4.08E-26	73.936	EHPPEEEFS(0.8)GS(0.2)EVEEVPET	4	-1.0586	9344.8	9673.4
Cdk7	0.999915	0.00517977	85.67	SFGS(1)PNR	2	-2.1532	43530.4	45059.1
Stk10	1	0.018216	74.464	NLKT(1)LQK	2	-0.56764	85261.1	83240.5
Rims1	0.990097	4.52E-07	78.505	GRS(0.004)QDY(0.006)S(0.99)DRP	3	-0.14833	7391.2	7203.4
Tab1	0.931985	3.00E-16	55.645	S(0.932)LLQS(0.051)EQQPS(0.008	4	0.23599	5636.4	6292.6
Gigyf1	0.60451	1.11E-63	112.39	S(0.154)S(0.154)S(0.605)PS(0.04)S	3	0.75262	26797.1	25626.1
LOC10036	0.999948	7.61E-06	60.157	TVTAMDVVY(1)ALK	3	0.4608	44149.4	42799.4
Pde4dip	0.921814	0.000237341	87.878	DDS(0.016)T(0.061)S(0.922)LT(0.0	2	0.62677	10898.6	12335.9
Cenpa	0.989886	3.13E-06	80.441	RPS(0.001)S(0.99)PAPGPS(0.009)F	2	-0.11218	68347.7	67129.0
Ncor1	0.54008	0.00211776	51.276	S(0.038)S(0.009)T(0.54)S(0.413)PC	3	0.75146	18830.0	17447.5
Eif4g2	0.845033	0.0107454	79.596	FS(0.155)PT(0.845)MGR	2	-0.19361	4052.0	3961.2
Srsf10	0.939178	0.00893011	58.754	S(0.983)RS(0.939)AS(0.074)HT(0.0	3	0.028992	27757.2	30278.1
Mpz	0.999014	5.43E-05	120.63	SS(0.001)KDS(0.999)S(1)KR	2	0.097792	2407065.7	2340048.4

12723.5	12908.0	12495.7	14367.0	-0.1	0.4	334
5552.3	5629.4	5141.0	5142.0	-0.1	0.3	285
42302.5	38474.4	40198.1	42640.0	-0.1	0.1	430
20317.6	22338.0	20978.5	24548.0	-0.1	0.6	806
87793.6	79666.8	76492.5	84130.0	-0.1	0.3	385;385;335
17851.9	18666.3	17215.9	19486.0	-0.1	0.3	377
19260.4	17745.6	17208.4	19086.0	-0.1	0.1	251
17886.0	14720.8	15879.0	16530.0	-0.1	0.3	24
24796.6	22723.0	25020.2	23117.0	-0.1	0.1	126
12479.7	9460.2	9949.9	11247.0	-0.1	0.5	971
11833.5	10678.7	10321.7	11312.0	-0.1	0.1	310
11833.5	10678.7	10321.7	11312.0	-0.1	0.1	311
78006.3	67534.2	72767.2	71022.0	-0.1	0.3	1107
6425.3	5425.7	5402.8	6537.8	-0.1	0.4	88
154064.3	137704.0	148830.0	146450.0	-0.1	0.0	334;512;512
12270.0	10664.4	11330.8	13290.0	-0.1	0.4	182
5135.9	4876.6	5551.2	4467.2	-0.1	0.4	89
15689.6	15058.4	13343.1	14331.0	-0.1	0.4	140
19020.9	18606.9	18709.8	19114.0	-0.1	0.1	414
10906.2	9773.3	9461.2	10078.0	-0.1	0.1	1154
29214.8	24767.8	23974.0	27093.0	-0.1	0.3	111;114
8448.1	7607.2	9633.4	8453.0	-0.1	0.4	661
41260.2	40189.2	40602.1	40678.0	-0.1	0.1	164
82538.5	76731.0	78922.6	79193.0	-0.1	0.0	185
7547.8	7242.7	6879.7	6592.1	-0.1	0.1	350
6319.7	5339.1	5528.9	6204.4	-0.1	0.3	7
29250.0	24432.3	23978.2	28002.0	-0.1	0.4	366
40771.5	40165.0	39351.7	39981.0	-0.1	0.1	89;427
11503.5	11714.6	10841.4	9946.5	-0.1	0.3	730
67515.3	59780.6	64896.6	65261.0	-0.1	0.1	41
18381.0	16322.3	17069.4	17753.0	-0.1	0.1	968
3984.1	3901.6	3598.0	3726.6	-0.1	0.0	396
33178.5	27546.3	26532.3	31274.0	-0.1	0.4	198
2071473.9	2150971.2	2070925.0	2158600.0	-0.1	0.2	209

Rgs3	0.592236	1.48E-18	64.522	NPS(0.408)PS(0.592)QELPAGQDLF	3	-0.56526	43340.8	42164.3
Thumpd1	0.786711	1.24E-19	65.207	FIDKDQQPS(0.213)GS(0.787)EGEC	5	1.022	15231.7	12774.7
Mapk8ip3	0.950733	2.92E-12	96.135	LFSS(0.001)S(0.007)S(0.041)S(0.95	3	-0.49688	46450.1	49561.9
Bcl2l13	0.974243	2.46E-16	61.241	QQGPS(0.974)PQGS(0.018)QLDVA	5	0.3688	17228.3	17053.7
Tcf12	0.697882	6.15E-30	118.21	T(0.091)S(0.091)S(0.698)T(0.12)N	3	-0.57656	10636.8	10163.4
Htr1b	0.891418	2.90E-13	66.387	VPEVPS(0.002)ES(0.077)GS(0.891)	3	1.3541	8337.2	7928.4
Mpdz	0.631743	3.84E-08	44.533	NADAVNQMAVCPGS(0.015)AADP	4	1.6203	5438.3	6691.7
Prkacb	0.946865	6.52E-15	60.735	GSGDTSNFDDY(0.947)EEEEIRVS(0	3	0.40758	25350.4	26141.7
Srrm2	0.945445	1.53E-05	62.466	SESDS(0.011)S(0.044)PDS(0.945)K	3	0.92321	37029.1	36701.7
Gnb2	0.725045	6.71E-07	50.783	KACGDS(0.219)T(0.725)LT(0.056)(	3	-1.2139	6701.1	6564.8
Clgn	0.981426	1.01E-19	75.773	SEEDAETIEGQEEMT(0.981)KLS(0.C	3	-0.24751	16034.4	15881.1
Ranbp10	0.981329	2.16E-15	89.344	SQDSYPGS(0.003)PS(0.015)LS(0.98	3	0.094439	6285.2	7287.6
Tcof1	0.999972	0.00034565	79.492	S(1)PPISVNPNR	2	0.61961	58307.7	53770.8
LOC68698	1	1.05E-07	58.564	FS(1)PPRHLS(1)PPQKR	3	0.36864	54816.7	54808.4
Micall1	0.689657	0.00237236	41.695	T(0.69)QKS(0.31)PAAEPEPK	3	-0.19979	24841.1	24290.1
Irf2bpl	1	0.0555414	53.493	GAAAS(1)LR	2	0.27006	9137.5	11606.5
Srsf6	0.988863	1.34E-12	102.73	S(0.011)HS(0.989)PLPAPPSK	3	-0.50835	85725.0	96356.3
Cpne6	0.874662	5.46E-05	96.946	S(0.007)CS(0.118)S(0.875)PVFSR	2	-0.3979	16715.4	17256.7
Dmxl2	0.920481	0.00925697	77.748	S(0.08)DAFLS(0.92)K	2	-0.27192	11464.3	9977.2
Ankrd50	1	1.21E-05	100.38	QALEREDS(1)IR	3	-0.079814	10771.6	10224.3
Pex19	0.99957	1.58E-07	71.451	S(1)PGDTAK	2	-0.4299	155668.5	153590.0
Hivep3	0.985682	0.0175016	44.318	S(0.014)PAEAS(0.986)K	3	0.18451	21719.9	21305.4
Son	0.999598	2.32E-20	110.35	ESDETVTVALS(1)PK	2	-0.039234	84005.2	83620.0
Slc44a2	0.999422	3.55E-11	82.417	DAVY(0.001)GT(0.999)PQK	3	0.33786	48790.1	49346.9
Ncam1	0.90149	8.05E-12	62.739	AAFS(0.901)KDES(0.099)KEPIVEVF	3	-0.32821	28138.9	29001.3
March8	0.999909	1.73E-12	100.11	TSVTPS(1)NQDICR	2	0.024125	7587.9	8625.9
Eif4g1	1	1.49E-21	74.287	EAT(1)LPPVS(1)PPK	3	1.4477	164577.8	163253.8
Tenc1	0.971625	2.94E-16	91.401	S(0.026)LS(0.972)EGPY(0.001)PY(C	3	-0.70296	7678.4	5958.1
Vps8	0.5	0.0227429	71.692	IT(0.5)S(0.5)PQIK	2	-0.061756	11504.5	11460.6
Vps8	0.5	0.0227429	71.692	IT(0.5)S(0.5)PQIK	2	-0.061756	11504.5	11460.6
Srp14	0.94088	1.11E-15	100.24	KS(0.059)S(0.941)VEGLEPAENK	2	1.7901	111546.5	101095.0
Dnajb4	0.999997	0.00110283	75.739	DRNS(1)VGPSR	2	3.1945	7742.2	6690.6
Zscan18	0.764027	1.29E-06	73.266	S(0.764)S(0.236)PPQPEPSTLR	2	0.6132	10207.3	10363.5
Akap13	0.856871	1.05E-09	65.895	AET(0.143)FGGFDCQLNAS(0.857	3	0.75667	23703.3	23171.2

44562.7	39501.8	40415.0	41796.0	-0.1	0.0	485
13324.0	12170.0	13214.9	13292.0	-0.1	0.3	88
41640.3	42082.3	45216.5	41527.0	-0.1	0.3	585
16216.6	15522.6	16173.9	15564.0	-0.1	0.0	38
10612.4	9378.5	10096.0	9924.4	-0.1	0.1	447
7632.2	7082.1	7777.8	7506.2	-0.1	0.2	279
6535.1	5401.7	5461.9	6605.4	-0.1	0.5	1410
23854.4	22912.2	24451.6	23156.0	-0.1	0.1	331
34863.8	32916.3	33914.5	34808.0	-0.1	0.1	1524
5940.7	5243.2	5647.9	7085.6	-0.1	0.5	29
16503.0	15348.8	14561.3	15409.0	-0.1	0.0	575
6634.3	6749.7	6091.1	6072.9	-0.1	0.3	397
64206.4	52836.6	51678.5	60491.0	-0.1	0.4	881
56139.6	51405.5	52188.3	51570.0	-0.1	0.0	67
26329.7	22184.0	22607.2	25844.0	-0.1	0.3	280
11304.4	9783.3	10101.8	10114.0	-0.1	0.4	527
88643.2	83356.0	81849.6	88210.0	-0.1	0.2	303
15900.4	15488.5	15871.5	15324.0	-0.1	0.1	68
10801.9	10994.1	8863.7	10325.0	-0.1	0.4	1140;1158
10083.2	9515.5	10005.0	9572.7	-0.1	0.1	527
148677.3	134921.1	151213.1	142540.0	-0.1	0.1	54
20594.4	19089.8	21111.1	19354.0	-0.1	0.1	749
86402.1	74237.4	78220.5	85344.0	-0.1	0.2	1718
47283.9	44845.4	43857.1	47432.0	-0.1	0.1	12;12
29106.2	26744.4	26313.2	27683.0	-0.1	0.0	781
7759.7	7947.9	7132.4	7363.4	-0.1	0.3	71
158131.3	149528.5	146831.7	158600.0	-0.1	0.1	1222
6495.4	5890.2	6271.9	6685.5	-0.1	0.5	625
10903.0	10944.7	10315.6	10448.0	-0.1	0.1	1332
10903.0	10944.7	10315.6	10448.0	-0.1	0.1	1331
95912.5	96747.0	97798.0	94334.0	-0.1	0.2	45
6461.3	6182.5	6591.6	6787.7	-0.1	0.4	148
10219.5	8976.8	9941.6	9909.0	-0.1	0.1	13
25350.2	22005.8	22304.7	23311.0	-0.1	0.1	2427;1098

Cep135	1	0.000188681	68.846	RLMS(1)NEK	2	-1.4118	45814.4	44530.4
Ncoa5	1	0.00460154	42.682	DRS(1)PIRGS(1)PR	3	-0.0076302	5915.6	6196.1
Tns1	0.566114	1.13E-39	119.37	KKDS(0.418)LNGS(0.566)S(0.015)C	4	0.60193	14356.3	13941.8
Srsf4	0.999925	0.00136348	53.038	SKPSLPAES(1)R	3	-0.011048	21678.1	19643.6
Sptb	0.950236	3.77E-09	56.684	VLDT(0.049)PLS(0.95)EGDEPTTLPA	3	-0.049135	7864.2	7731.4
Mctp1	0.999982	0.00485873	89.886	FQTQS(1)LR	2	0.13629	8483.9	7364.9
Nefh	0.935484	4.70E-57	200.93	T(0.935)S(0.063)VS(0.001)SVSASP	1	-0.37977	80402.1	80598.0
Ina	0.967145	0.00354122	46.704	LSGPGGS(0.033)GS(0.967)FR	2	0.51957	40094.3	34535.3
Lum	0.778445	0.0338234	42.843	ILGPLS(0.211)Y(0.01)S(0.778)K	2	1.7799	2465.0	2766.0
Map1a	0.81377	1.24E-70	88.292	KPS(0.007)PFLS(0.179)PS(0.814)G	6	-0.10628	57457.3	55216.5
Map6	0.999588	8.58E-20	72.99	ATGPAPGPS(1)GDRETAAPGR	3	-0.24199	8228.5	6720.8
Nop2	0.549721	0.000842115	49.333	S(0.55)GS(0.45)VEVPKPNK	3	0.13895	25578.2	23245.8
Phactr2	0.939487	5.91E-16	88.283	QPAAAAS(0.01)RLS(0.939)PNT(0.0	4	0.95317	25850.1	25958.5
Mapt	0.997852	8.82E-84	177.01	SGYSSPGS(0.998)PGT(0.002)PGSR	2	0.18404	58405.5	61363.6
Tbx2	1	1.78E-31	92.01	ARAEEKPCAADS(1)DPEPER	3	-0.043132	50023.4	54192.0
Tnk2	0.879585	1.55E-14	56.681	KPS(0.029)PT(0.012)PGGLAGEGT(I	3	0.29453	6563.0	5985.2
Cdk12	0.985104	2.99E-06	62.861	LYNSEES(0.01)RPY(0.005)T(0.985)	2	-1.8074	7258.6	7290.9
Nhsl2	0.657243	1.96E-31	85.805	S(0.022)LS(0.657)VPT(0.297)DS(0.	3	-0.037698	8903.2	8395.1
Dlc1	0.90669	7.56E-05	98.407	RENS(0.907)S(0.047)DS(0.047)PK	2	-0.19812	70066.3	63965.5
Polr2a	0.709321	2.90E-07	57.973	YS(0.094)PT(0.709)S(0.148)PT(0.0	3	-0.063791	7875.3	8383.4
Phactr1	0.922317	1.25E-06	72.433	S(0.008)KS(0.922)DT(0.069)PYLAE	2	-0.76084	23875.1	23600.1
Ablim2	0.999925	0.000635849	60.398	S(1)PQHYSR	2	0.44099	7600.2	7639.8
Pde3b	0.540386	1.72E-26	81.574	S(0.447)S(0.54)CVS(0.012)LGESAA	3	1.1843	17058.9	16636.9
Prrc2b	0.976139	1.52E-48	145.33	IASET(0.018)HS(0.976)EGS(0.006)	4	0.47177	75464.4	70906.8
Unkl	0.986162	2.23E-16	130.61	RKDS(0.986)PS(0.014)EGSQK	4	-1.3972	16264.6	14757.9
Sec62	0.745058	0.00270435	43.03	S(0.745)DS(0.232)EEKS(0.011)DS(I	3	2.5614	7106.5	7265.1
RGD15611	0.999974	0.000853882	89.698	TYS(1)LHQR	3	-0.37211	3341.2	3882.1
Wdr44	1	0.000297086	53.3	KKS(1)DLEFEALK	4	-0.23532	13738.5	11292.7
Gpbp111	0.993047	6.37E-15	112.62	EVLS(0.007)HS(0.993)LEAEHR	3	0.32318	26608.7	28472.6
Fam63a	0.995786	7.87E-24	132.81	SHGAEGGS(0.004)GS(0.996)PEK	2	-0.3294	70592.3	70772.9
Efr3b	0.836663	0.000104641	66.989	S(0.163)PS(0.837)PLQAPEK	3	-0.38341	47548.6	53084.1
Eif3c	0.998114	0.00123303	58.32	QLT(0.998)PPEGS(0.002)SK	3	1.129	117783.1	126002.6
Syn1	0.54211	2.24E-54	99.873	LPS(0.44)PT(0.542)AAPQQS(0.018	3	0.92237	10702.5	9784.7
Ptpro	0.999977	2.26E-15	83.758	ECGAGTFVNFAS(1)LER	3	-1.3184	10012.8	10763.4

43098.8	41017.5	41139.6	42783.0	-0.1	0.0	1101
5258.7	4480.4	5908.9	5875.3	-0.1	0.5	29
15131.8	13940.9	12410.2	14314.0	-0.1	0.2	551
24848.7	20309.7	20104.4	21544.0	-0.1	0.4	452
7785.8	7444.0	6901.8	7547.4	-0.1	0.1	2162
8015.8	7222.1	7330.7	7793.3	-0.1	0.2	17
78547.2	72160.7	75744.4	76401.0	-0.1	0.0	53;53
32723.9	33931.6	32826.6	33767.0	-0.1	0.4	37
2072.5	1934.8	2136.4	2767.9	-0.1	0.7	304
61306.3	53627.4	52492.9	56799.0	-0.1	0.2	2569
7421.3	6495.3	7757.8	6695.6	-0.1	0.5	86
23175.1	21586.7	23105.1	22732.0	-0.1	0.2	57
24730.6	23198.2	23611.7	24867.0	-0.1	0.1	217
56825.3	54937.5	57544.3	52894.0	-0.1	0.1	447;531
53704.8	48213.4	47046.0	52631.0	-0.1	0.2	236
5959.8	5420.7	6113.4	5798.8	-0.1	0.2	113
7022.3	6869.9	6267.8	7064.7	-0.1	0.1	889;888;889
8669.7	7838.3	7994.1	8487.4	-0.1	0.1	522
70710.3	61942.0	67753.1	62054.0	-0.1	0.2	419
7225.5	7110.0	7395.3	7489.3	-0.1	0.2	1877
24278.1	22299.5	22407.3	22496.0	-0.1	0.0	67
7872.3	6944.3	7327.8	7375.1	-0.1	0.0	383
16818.1	14912.2	15945.2	16455.0	-0.1	0.1	280
85491.8	68243.7	69125.2	79810.0	-0.1	0.4	1161
15816.3	13884.8	15383.1	14605.0	-0.1	0.2	346
6756.5	6333.9	5647.4	7809.2	-0.1	0.5	307
3800.8	3477.9	3198.1	3650.3	-0.1	0.3	458
15237.2	12722.1	11186.6	13811.0	-0.1	0.6	264;264
27109.0	23638.1	27295.3	26055.0	-0.1	0.2	385
66683.9	59847.7	70605.3	64430.0	-0.1	0.3	382
51066.6	44412.0	46753.2	50943.0	-0.1	0.3	216
108369.9	107831.2	103192.5	118870.0	-0.1	0.3	522
13070.6	9472.1	11484.7	10480.0	-0.1	0.6	510
12281.7	10124.4	10712.1	10132.0	-0.1	0.4	54

Fgf12	1	0.0002256	72.681	EPS(1)LHEIGEK	3	-0.15335	129286.5	143838.4
Hdgfrp2	0.999643	5.11E-05	71.933	KRS(1)EGLSLDR	4	-0.10408	24367.6	22263.0
Prrc2b	0.999983	1.09E-14	128.76	EAGS(1)PAQFSK	2	-0.30416	21329.9	19487.8
Herc2	0.562439	1.91E-10	59.912	S(0.562)RT(0.437)PLDKDLINT(0.00	4	-0.28494	7038.4	7593.0
Yeats2	0.999736	0.00488491	89.542	FLESPS(1)R	2	0.56278	12859.5	14029.5
LOC10368	0.749097	4.82E-48	117.48	SSDAVS(0.116)ET(0.749)S(0.116)S	3	-0.37367	73896.0	74008.8
Ncoa5	0.999998	0.00635161	118.21	REGS(1)YDR	2	-0.18074	22170.7	23963.2
Scaper	0.848072	0.0113758	52.132	NS(0.001)GS(0.112)ES(0.848)PY(0	2	0.29274	9244.7	9169.1
Ahnak	1	5.27E-16	91.62	IS(1)MPDIDLHLK	3	0.50347	73321.2	62369.5
Nefh	1	3.06E-10	86.497	T(1)PAKEEAK	3	-2.2555	710097.5	673275.4
Pex5l	0.817306	8.14E-23	107.72	MSKS(0.006)PVDS(0.817)S(0.176)	3	-0.35656	87867.1	87098.3
St5	0.978371	1.83E-11	51.903	KS(0.978)FEFEDAS(0.018)S(0.003)	4	-1.5788	10166.6	9601.1
Herc2	0.573596	0.00255629	57.267	KPES(0.426)T(0.574)DGEEK	3	0.069819	30827.2	29625.5
Naa50	0.988459	2.07E-12	71.601	S(0.002)LRVPS(0.988)GQS(0.01)AI	3	0.77567	22126.6	23608.9
Ankrd17	0.755861	3.17E-43	97.94	EHY(0.002)PVS(0.08)S(0.261)PS(0.	3	-0.12696	6210.4	6367.6
Slc1a3	1	1.27E-07	60.764	DVEMGNS(1)VIEENEMK	2	-0.82464	19357.2	16975.9
Ranbp3	0.815533	9.69E-31	125.61	S(0.816)PS(0.18)ES(0.003)AEGT(0.	3	-0.83759	31164.7	31486.9
Map1b	0.782251	2.08E-15	128.57	HS(0.782)PT(0.218)EDEEIAK	3	0.766	35420.2	37923.6
Pcbp2	0.949103	1.92E-09	61.477	QICVVMLET(0.005)LS(0.046)QS(0.	4	0.3994	21364.5	22300.3
MGC1127	0.680515	1.81E-32	76.909	MDS(0.681)S(0.205)NT(0.077)QGI	3	-0.52993	7574.1	6913.3
Etv1	0.770695	8.94E-06	49.66	QLS(0.771)EPCNS(0.229)FPPLPTM	3	-0.94711	6523.5	5844.0
Pdzd8	0.712602	1.24E-19	64.749	HTPNT(0.017)S(0.052)DNEGS(0.71	4	0.54432	5465.0	6059.7
Map1b	0.608748	3.38E-10	46.46	SEQSS(0.001)MS(0.003)IEFGQES(C	3	-1.2909	7721.9	8280.0
Scn7a	0.932383	0.0024379	55.258	S(0.005)ANGS(0.062)S(0.932)KEK	3	-0.17629	35420.2	42622.8
Limch1	0.5	0.0323584	46.334	T(0.5)S(0.5)HGEPK	3	0.89329	9443.8	7996.8
Nes	0.968071	2.91E-41	111.7	VSQDS(0.032)LGS(0.968)LAEENVK	3	1.4866	4066.0	4358.2
Adgrb3	0.915188	6.53E-05	99.568	SIFT(0.001)PVS(0.915)S(0.084)K	2	5.31E-05	17285.5	16922.1
Slc38a10	1	8.69E-18	99.044	VS(1)VELNDLVAGEGK	3	1.2092	16101.2	14185.3
Rmdn3	0.987564	7.93E-48	144.75	S(0.011)QS(0.988)LPNS(0.002)LDY	2	0.99617	64906.8	67166.3
RGD13048	0.598206	6.12E-127	163.52	RS(0.346)S(0.598)S(0.042)NES(0.0	3	0.079287	36436.4	34019.7
Rnps1	0.997543	0.000456261	65.043	RS(1)PS(0.998)PKPT(0.002)K	4	-0.55706	696679.9	701290.6
Myo9b	0.99828	2.66E-12	93.478	EIPS(0.998)PEMET(0.002)PAQK	3	-0.69791	19555.2	20857.8
Tcp1l12	0.809486	3.98E-08	95.094	SSSPAS(0.019)T(0.171)S(0.809)PP	2	-1.3276	7878.5	8393.3
Map4	0.982656	5.43E-43	136.14	DVS(0.017)PS(0.983)PETETAK	3	-0.84187	320938.1	313860.2



128278.7	119279.6	123054.3	133700.0	-0.1	0.3	212
23365.7	21825.4	21531.0	22216.0	-0.1	0.1	450;450
21049.0	18142.7	19143.7	20671.0	-0.1	0.2	620
6669.9	6471.4	6845.6	6638.2	-0.1	0.2	928
13803.1	13665.9	12580.1	11875.0	-0.1	0.2	120
77925.4	67321.9	69095.3	75146.0	-0.1	0.2	705
19177.4	20204.1	21842.0	19141.0	-0.1	0.4	125
8654.7	8313.3	8308.8	8737.2	-0.1	0.1	896
70604.9	59940.1	66307.2	67023.0	-0.1	0.3	2171
749316.3	645137.4	645899.1	707000.0	-0.1	0.2	824;794
83968.3	77265.6	82521.8	82799.0	-0.1	0.1	427
9731.5	9468.7	9055.6	9113.1	-0.1	0.0	463
27344.3	27478.1	25448.7	29329.0	-0.1	0.3	1510
22353.2	20879.4	21026.6	21886.0	-0.1	0.1	157
6428.7	6261.2	6188.2	5359.1	-0.1	0.2	1778
18238.4	16119.9	16250.9	18761.0	-0.1	0.4	400
35142.8	30244.5	28032.7	33354.0	-0.1	0.4	146
41434.8	33279.3	30708.6	43558.0	-0.1	0.6	963;837
19426.5	20386.7	19300.8	19430.0	-0.1	0.2	173
7556.5	6693.3	7308.8	6653.5	-0.1	0.2	233
6103.4	5773.9	5782.8	5751.2	-0.1	0.1	151
4900.3	5619.4	5438.3	4333.4	-0.1	0.5	978
8883.9	7882.4	7237.4	8199.9	-0.1	0.3	1650;1524
46497.2	37469.0	43078.1	36160.0	-0.1	0.5	861
10336.0	8040.5	9119.1	8870.2	-0.1	0.5	96;99
4156.1	4006.8	3870.7	3912.1	-0.1	0.1	927
17250.4	15974.7	16442.2	15808.0	-0.1	0.0	750
14184.2	14177.4	13893.4	13606.0	-0.1	0.2	607
74896.5	60833.3	67282.9	65851.0	-0.1	0.3	46
36670.5	34435.3	32652.4	33310.0	-0.1	0.1	73
658630.1	637525.6	641346.6	648600.0	-0.1	0.0	134
21943.3	19246.0	19482.4	19713.0	-0.1	0.1	1115
7868.7	7858.3	6548.4	8218.1	-0.1	0.4	55
374817.9	299695.0	318979.5	327570.0	-0.1	0.4	522;522

Ap3d1	0.997842	4.47E-31	91.238	NAET(0.002)VKS(0.998)PEKEGVPC	4	0.24534	176993.6	170844.5
Mapt	0.999936	3.60E-15	87.088	T(1)PPGSASK	2	-0.22169	73477.4	73673.2
Mybbp1a	1	5.69E-27	113.33	AEPAS(1)PAEAPQGDRR	3	-0.5172	77546.8	79075.5
Rps2	0.982379	0.022331	45.653	T(0.001)HT(0.017)RVS(0.982)VQR	2	0.76841	3932.7	4006.6
Anapc1	0.702797	7.05E-05	77.597	S(0.09)AS(0.703)S(0.207)PSLHSR	3	0.47708	9888.6	12542.1
Cdk12	0.742734	1.73E-06	41.65	RT(0.743)PT(0.257)MPQEEAAACP	4	0.92559	9906.8	10941.3
Larp7	0.786934	9.07E-20	75.773	T(0.169)AS(0.787)EGS(0.044)EAET	4	0.28337	24235.2	26069.3
Ube4b	0.669281	7.91E-111	150.73	S(0.071)QS(0.428)S(0.498)EGVS(0	3	-0.71909	25790.5	22837.8
Pgd	0.996595	4.04E-22	84.249	GILFVGS(0.003)GVS(0.997)GGEEG	3	-0.26559	15042.1	15093.5
Wnk1	0.507159	2.17E-94	157.75	EKPELAEPS(0.051)HLNGPS(0.507)!	3	1.9046	53034.9	53085.2
Kdm2b	0.680122	2.77E-09	70.089	VIS(0.002)RPPPS(0.159)T(0.68)S(0	3	0.30015	16552.0	18453.4
Plcl2	1	0.000999531	67.385	S(1)LEVIPEK	2	-0.3236	13335.3	13466.8
Adam22	0.55942	1.32E-32	97.388	TLS(0.004)PAKS(0.559)PS(0.135)Si	3	0.20153	46717.3	53187.2
Prrc2a	0.527682	2.39E-32	96.591	T(0.005)AS(0.127)ET(0.528)RS(0.3	4	0.19777	15532.3	22459.3
Ahnak	0.870913	0.000500024	57.175	MPS(0.12)MS(0.871)IQT(0.009)HK	3	0.14078	10972.1	10123.6
Rps6	0.752979	3.41E-10	99.927	AST(0.002)S(0.084)KS(0.619)ES(0.	3	-0.25919	395242.0	389986.1
Fam117a	0.573661	1.66E-07	57.106	VS(0.003)LPS(0.574)LPAGS(0.423)	3	0.70487	2130.7	1776.6
Rbm15	0.971772	0.0684997	44.614	KNS(0.972)AS(0.028)AER	2	0.59666	8006.5	5939.1
Rbm15b	0.799694	1.24E-05	77.22	S(0.8)LS(0.2)PVAAPPLR	2	0.56764	9209.2	8505.6
Armcx2	0.999619	9.46E-05	80.312	NRAS(1)VGTGTR	3	-0.53716	6016.9	6940.3
Gphn	0.997064	0.000212715	56.569	MS(0.997)PFPLT(0.002)S(0.001)M	3	-0.17593	35568.1	36519.6
Usp24	0.977203	2.74E-65	151.3	T(0.02)IS(0.977)AQDT(0.003)LAYA	3	1.2253	80020.4	85265.4
Ssx2ip	0.989541	7.58E-07	43.903	ERAEDS(0.002)T(0.002)GT(0.005)\	3	2.3908	5523.3	5904.1
Arhgap35	0.863475	1.33E-05	53.395	NQKNS(0.137)LS(0.863)DPNIDR	3	-0.4808	19549.2	20858.9
Ddt	0.999951	3.01E-07	76.01	FLTEELS(1)LDQDR	3	-0.20519	12022.2	12609.0
Mllt3	0.977059	0.00121435	105.2	S(0.977)S(0.019)KDS(0.003)SK	2	-0.31644	742478.7	690847.9
Top2b	0.998164	1.60E-42	80.729	ASPITNDGEDEFVPS(0.998)DGIDKE	4	0.70521	41027.0	39304.7
Atp1a3	1	0.00858587	66.603	MS(1)VEEVCR	2	-1.3049	17565.8	17604.4
Abcf1	1	4.10E-65	149.84	KGAEQGS(1)EEEEKEEK	3	0.33486	376421.6	362453.6
Fxyd7	0.904635	0.000783199	71.085	KADS(0.059)S(0.905)PT(0.037)CK	2	0.28265	45133.4	40885.3
Pogz	0.504586	4.78E-06	43.349	S(0.002)FLVAS(0.505)VLPGPDGNV	3	-1.3303	7266.8	6570.6
Evi5l	0.836909	7.23E-30	117.07	IQQQLNHS(0.034)DS(0.837)S(0.12	3	0.59416	26221.1	27869.3
Zc3h13	0.998493	5.50E-05	71.806	S(0.998)PERPT(0.002)GDLR	3	0.49182	17116.1	17113.0
Ncor2	0.887949	1.05E-25	75.193	VGECSPAAVNNNS(0.037)S(0.037)I	3	-0.0035769	7110.9	7996.4

171662.9	157943.2	165490.2	163470.0	-0.1	0.0	825
73944.7	67847.7	67830.0	71555.0	-0.1	0.0	492
73880.8	70127.9	70311.4	75617.0	-0.1	0.1	14
3359.1	3718.1	3359.9	3512.4	-0.1	0.4	281
9894.4	9968.7	9943.2	10388.0	-0.1	0.5	333
10467.2	9539.1	9461.5	10353.0	-0.1	0.2	1239
22571.5	21800.1	24368.3	22143.0	-0.1	0.3	254
32268.2	24255.2	23540.1	28036.0	-0.1	0.6	88
14479.1	13431.6	14547.4	13843.0	-0.1	0.1	129
53758.0	46409.5	53772.0	49689.0	-0.1	0.2	2254
16338.0	15950.5	16037.1	16142.0	-0.1	0.2	999
14425.9	13570.2	11937.8	13140.0	-0.1	0.2	987
46524.9	43271.3	44559.2	49436.0	-0.1	0.3	912
15457.5	19617.8	15232.5	15255.0	-0.1	0.7	1090
8990.0	9395.7	9099.6	9708.5	-0.1	0.4	1687
337821.5	342604.4	348014.6	362280.0	-0.1	0.3	247
1722.2	1974.6	1850.1	1453.1	-0.1	0.6	164
6124.6	6357.1	5622.2	6837.9	-0.1	0.6	723
9626.7	8678.6	8106.6	8849.6	-0.1	0.2	261
7169.9	6381.5	6658.2	5831.7	-0.1	0.4	46
33769.4	32468.6	34250.0	32546.0	-0.1	0.1	319
77218.5	72300.4	75298.8	79803.0	-0.1	0.2	2557
6043.3	4755.6	5648.0	5979.4	-0.1	0.4	287
19720.4	17865.5	20541.5	17979.0	-0.1	0.3	591
12383.9	11414.3	12395.2	10902.0	-0.1	0.2	90
646897.8	632839.8	630361.0	687560.0	-0.1	0.3	29
40834.3	37801.2	38988.4	36838.0	-0.1	0.0	1400
17536.8	16256.3	15958.1	17214.0	-0.1	0.0	37
365693.9	341185.5	322698.4	371990.0	-0.1	0.2	227
35918.9	37246.8	38531.0	38578.0	-0.1	0.4	57
6852.5	6715.0	5742.5	6946.0	-0.1	0.4	1218
26059.2	23775.6	23402.2	27990.0	-0.1	0.4	643
17746.5	15815.2	16561.8	16368.0	-0.1	0.0	77
7498.9	6542.9	7221.1	7437.1	-0.1	0.3	750

Fam171a2	0.952569	1.59E-19	65.795	RDS(0.953)LT(0.038)S(0.009)PEDE	4	-0.23556	66645.7	66644.2
Hnrnpc	0.801042	1.50E-14	77.08	SEEEQS(0.007)S(0.801)AS(0.192)V	3	-0.27341	13688.4	14248.9
Sdc2	0.920804	1.64E-05	96.067	KPS(0.06)S(0.921)AAY(0.019)QK	3	-0.044292	122714.8	101455.8
Slc12a7	0.622997	0.0064511	89.08	VQMT(0.377)WT(0.623)K	2	-0.38618	31892.2	29489.5
Chic1	1	0.00268511	98.73	VVS(1)EENLR	2	0.79438	22988.9	18993.1
Brsk1	0.651891	1.02E-38	90.464	MQVPTAEEMS(0.037)S(0.153)LT(C	3	1.0122	35403.5	38127.7
Hcn2	0.999983	4.84E-05	89.827	TAAPS(1)PDRR	3	-1.7323	40446.1	39688.6
Mta1	0.771205	0.000668956	63.185	DIS(0.114)S(0.114)S(0.771)LIALAD	3	-0.88498	3126.5	2941.0
Fam160a2	0.918715	0.00323444	41.513	S(0.006)PGLT(0.055)AS(0.816)PT(I	2	0.64583	8422.2	8715.0
Nnat	0.985111	0.000112219	78.324	SEVFRY(0.015)S(0.985)LQK	3	0.18525	10764.1	8472.8
Pcyt1a	0.98021	3.46E-13	106.55	QS(0.98)PS(0.019)SSPTHER	3	0.20554	10273.6	12289.8
Tmem115	0.999061	1.60E-21	74.324	RVEDQS(0.001)AWPS(0.999)MDD	3	0.75612	46878.3	45267.5
Rapgef2	0.581132	1.42E-19	63.967	QAEDT(0.001)IS(0.007)NAS(0.192	3	1.1106	12414.6	11661.3
Rapgef2	0.599398	1.42E-19	63.967	QAEDT(0.001)IS(0.007)NAS(0.192	3	1.1106	12414.6	11661.3
R3hdm2	0.743496	1.82E-10	90.434	QS(0.014)S(0.743)T(0.052)DS(0.19	3	1.3451	13937.7	11631.7
Gpbp1l1	0.984244	3.50E-05	84.352	HDS(0.984)VDS(0.016)GVSK	3	0.29754	14142.8	14706.3
Rcsd1	0.951889	2.80E-07	71.08	S(0.048)QS(0.952)DCGDLR	2	-0.59119	63146.4	60268.9
Kif21b	0.600935	0.0642572	51.415	T(0.008)VS(0.601)LPT(0.392)R	2	0.23454	14210.8	14524.2
Mff	1	9.63E-05	78.529	ERS(1)MS(1)ENAVR	2	-0.33673	15442.8	15801.1
Wdr47	0.5	0.00257668	49.081	LDT(0.5)S(0.5)AHDGPK	3	0.72725	11991.2	10586.2
Wdr47	0.5	0.00257668	49.081	LDT(0.5)S(0.5)AHDGPK	3	0.72725	11991.2	10586.2
Ptgfrn	1	0.0366259	52.49	RLMS(1)MEMD	2	-0.18607	10477.1	9674.1
Pogz	1	0.0218763	50.473	KMS(1)VMGR	3	-0.20227	14779.7	13142.1
Kdm2b	0.713158	3.84E-07	62.861	T(0.139)PT(0.139)GS(0.713)PAT(0	3	0.706	15098.1	14801.8
Ttyh2	0.999998	9.16E-14	107.46	GS(1)PPPTYSPSMR	2	-0.39721	12349.0	11025.1
Rem1	0.983976	1.42E-06	80.738	QDNAAPET(0.016)PS(0.984)PR	3	0.78503	13306.7	13962.6
Olfml1	0.8582	2.40E-42	134.32	ESDFCVES(0.002)EEKT(0.858)S(0.1	3	-0.58712	352663.4	351736.7
Srrm2	0.979376	0.0222622	50.786	T(0.11)KS(0.979)RT(0.91)PPR	3	-0.00028527	335846.6	348906.7
Srrm2	0.979112	0.0222622	50.786	T(0.06)KS(0.961)RT(0.979)PPR	2	-0.014519	335846.6	348906.7
Rbm15	1	8.17E-07	81.805	LLLLRPS(1)PVRDR	4	-0.59242	21685.3	20381.8
Cblb	0.794437	5.83E-14	122.64	SPCGS(0.103)PT(0.103)GS(0.794)F	2	0.50933	26284.3	24500.7
Zfp280c	0.850928	9.18E-15	67.785	S(0.074)S(0.074)S(0.851)PPS(0.00	4	-0.4777	2325.1	2643.6
Map2	0.766123	2.33E-29	77.899	APHWT(0.006)S(0.025)AS(0.116)L	5	0.27792	7773.5	8474.7
Cux1	0.722848	0.000784249	50.088	AY(0.006)QQQPY(0.271)PS(0.723)	3	0.66684	44547.8	46584.9

73930.9	62265.4	62447.3	69629.0	-0.1	0.3	738
16476.4	13510.8	13181.7	14961.0	-0.1	0.4	247
124318.2	95291.7	109610.8	121930.0	-0.1	0.5	198
30277.4	27189.9	27821.1	30955.0	-0.1	0.2	982
21330.1	18612.4	20057.4	20710.0	-0.1	0.4	79
36586.4	34305.5	35504.6	33469.0	-0.1	0.1	493
36371.4	35172.3	38434.8	35664.0	-0.1	0.2	834
2943.1	2718.6	2704.5	3028.3	-0.1	0.2	54
8561.9	8137.8	8083.1	7883.6	-0.1	0.0	547
9618.8	10109.0	8141.8	8815.0	-0.1	0.5	56
10817.8	10647.8	8870.0	11793.0	-0.1	0.5	319
49244.0	43966.5	44158.5	44496.0	-0.1	0.1	306
11469.4	10831.6	11958.1	10553.0	-0.1	0.2	909;1266
11469.4	10831.6	11958.1	10553.0	-0.1	0.2	917;1274
13763.7	11544.1	14448.1	10904.0	-0.1	0.6	329
15956.9	13781.4	15912.1	12338.0	-0.1	0.5	76
63653.9	56382.8	59228.5	59882.0	-0.1	0.1	149
15014.6	13123.6	13345.2	14574.0	-0.1	0.2	1193
16740.4	15272.9	15190.8	14552.0	-0.1	0.1	131;157;131
12425.4	9454.9	11092.5	12290.0	-0.1	0.5	643
12425.4	9454.9	11092.5	12290.0	-0.1	0.5	642
9587.1	9372.6	9828.2	8698.1	-0.1	0.2	875
13799.9	13095.0	12548.0	13499.0	-0.1	0.2	636
13909.5	13040.0	13816.5	14246.0	-0.1	0.1	466
12703.3	11571.6	11264.6	11013.0	-0.1	0.2	423
13150.5	12408.6	12373.8	13141.0	-0.1	0.1	256
424824.1	352625.1	341271.4	365590.0	-0.1	0.4	118
297886.8	309704.7	310045.7	302220.0	-0.1	0.3	1641
297886.8	309704.7	310045.7	302220.0	-0.1	0.3	1643
21386.5	20338.3	19807.3	19392.0	-0.1	0.1	701
22519.3	23101.4	22900.0	22781.0	-0.1	0.2	529
2269.0	2231.8	2175.2	2384.2	-0.1	0.3	512
7872.7	7098.1	7981.8	7553.2	-0.1	0.2	20;20
44818.2	41221.0	42364.2	43983.0	-0.1	0.1	1176

Slc12a2	0.844404	5.01E-52	113.13	LKEGLDISHLQGQEELLS(0.844)S(0.	4	-0.19754	13235.2	12541.0
Map1b	0.898803	6.02E-84	128.71	T(0.01)LEVVS(0.899)PS(0.085)QS(i	5	0.23123	59786.6	67018.2
Gab1	0.999779	1.35E-11	67.685	GDKQVEY(1)LDLDLESGK	3	0.71337	15924.7	12652.9
Rbmxrtl	0.583693	6.97E-15	79.089	DVYLS(0.049)PRDDGY(0.233)S(0.5	4	0.5015	33199.4	34602.2
Phf6	0.773976	4.54E-33	79.784	TAHNSEADLEES(0.02)FNEHELEPS(	3	0.99025	12752.1	12538.8
Ttc7b	0.996961	0.0103206	100.98	GS(0.003)S(0.997)LLDR	2	-0.30092	12994.2	13816.7
Rps6	0.996868	1.30E-23	104.17	LSSLRAS(0.997)T(0.003)SK	2	-0.0073371	485957.2	492108.9
Kcnh2	0.57744	1.64E-14	79.875	SGLLNS(0.116)T(0.577)S(0.301)DS	3	0.21918	8844.4	8204.8
Serbp1	0.978118	3.97E-55	134.47	S(0.018)KS(0.978)EEAHAEDS(0.00	3	0.11097	74030.8	69753.9
RGD13071	0.992852	8.56E-32	92.264	SSETFGPAGVRS(0.993)PT(0.007)EI	3	-0.81743	6115.0	6869.8
Gbf1	0.789029	3.69E-76	110.47	ADAPDAGAQS(0.789)DS(0.201)EL	3	0.050257	14909.7	14471.6
Sparcl1	0.984842	1.06E-66	126.75	AEKPS(0.002)ALNS(0.985)EEEAHE	4	-0.40655	32120.1	29125.3
Axin1	0.996151	1.42E-31	86.987	T(0.001)GS(0.003)ES(0.996)PK	2	-0.99988	42732.5	45818.1
Casp12	0.999378	3.93E-08	56.339	QLS(0.001)LQFPS(0.999)DDEEDEL	3	-0.60905	21978.7	21279.1
Rock1	0.999451	0.00156566	59.35	STANQS(0.999)FRK	3	0.55864	11307.1	7936.0
Chd3	0.789258	1.69E-41	113.28	EIQGDGPPS(0.209)S(0.789)PT(0.0	3	0.96659	33214.9	32101.2
Yeats2	0.524101	7.61E-06	50.305	LPVASQAS(0.096)QGT(0.379)GS(0	3	-1.0739	27407.8	28671.2
Dhx9	0.998074	1.13E-05	61.409	Y(0.002)QILPLHS(0.998)QIPR	3	0.17157	2804.1	3035.1
Specc1l	0.778714	0.000992875	72.607	T(0.779)PLS(0.193)PS(0.028)PMK	2	3.3497	24480.9	22857.5
Scel	1	0.00247968	49.632	HNS(1)HDALDR	3	0.34403	2627.7	2865.4
Fkbp3	0.94809	1.32E-21	105.99	FLQDHGS(0.948)DS(0.052)FLAEHK	3	0.35361	28840.2	32066.1
Rplp2	0.764901	3.47E-13	57.712	LASVPAGGAVAVS(0.02)AAPGS(0.2	5	1.0036	10437.7	9146.7
LOC10255	1	0.00497419	88.37	VVGS(1)PNK	2	1.2494	42646.6	44424.0
Cttn	0.723685	4.01E-17	60.649	KQT(0.008)PPAS(0.09)PS(0.118)PC	4	-0.11174	137814.1	126869.2
Sntb2	0.742191	2.79E-91	108.85	KPSLVSDLPWEGASPQSPSFS(0.001	5	0.67889	60953.1	59234.5
LOC68003	0.594132	3.77E-24	92.932	KLEGS(0.406)PS(0.594)PEAELSPTA	4	0.27063	33694.4	31080.0
Numb1	0.881325	1.54E-18	61.519	AEEAAAPAVAPGPAQPGHVS(0.88	4	-0.028864	50951.3	50538.2
Dok3	0.806077	7.28E-13	73.833	ALS(0.194)LPS(0.806)LEPPGELR	3	0.53177	2425.6	2085.1
Caprin2	0.951171	1.01E-54	88.567	ALS(0.951)PLQS(0.043)T(0.006)LS	3	-2.3294	35174.5	37035.1
Fnbp1l	0.797176	0.00110378	49.097	T(0.028)VS(0.143)DGT(0.797)IS(0.	3	0.24084	12987.1	13394.4
Utrn	0.696279	0.0300972	63.534	MLS(0.304)ES(0.696)EK	2	0.020554	17413.1	17368.5
Tle4	0.982673	1.77E-44	162.65	S(0.001)S(0.001)S(0.013)VS(0.983	2	-0.1188	13483.2	11120.5
Prx	0.650584	5.46E-66	95.198	VGFS(0.003)QS(0.04)ES(0.651)AS(	3	0.032674	4324.2	4420.2
Ahnak	0.984047	8.92E-120	161.38	S(0.004)NS(0.012)FS(0.984)DER	2	1.1778	7450.2	6967.2

15372.4	12624.2	12869.7	13118.0	-0.1	0.4	930
67158.7	57591.7	61101.9	63315.0	-0.1	0.2	1315;1189
16492.4	14526.1	14356.2	13410.0	-0.1	0.5	627
25059.5	30680.1	30919.1	25539.0	-0.1	0.6	212;215
12856.6	12728.7	11053.0	12015.0	-0.1	0.2	74
12758.7	12976.2	11824.5	12331.0	-0.1	0.2	588
427677.3	443459.8	405358.0	470320.0	-0.1	0.4	240
7687.9	7872.6	7744.5	7596.1	-0.1	0.2	321
67164.0	63037.6	69586.9	65329.0	-0.1	0.2	329
5967.5	5806.5	5837.1	6141.4	-0.1	0.3	2737
15512.9	13729.7	13187.1	15215.0	-0.1	0.2	1299
35879.5	27875.2	27795.4	35482.0	-0.1	0.6	68
41557.2	38522.8	41516.8	42070.0	-0.1	0.2	222
22254.2	21004.8	20916.6	19564.0	-0.1	0.1	90
6186.7	7693.8	8908.5	7264.8	-0.1	0.8	1341
33253.0	32369.6	27551.8	32591.0	-0.1	0.3	822
27167.5	25793.0	25400.6	26942.0	-0.1	0.1	534
2799.4	2576.8	3010.9	2520.5	-0.1	0.4	691;690
25746.2	22619.6	20671.8	25307.0	-0.1	0.4	866
2765.1	2654.9	2776.9	2319.6	-0.1	0.3	67
27780.8	26551.9	28600.1	28093.0	-0.1	0.3	34
8753.7	8569.5	9065.5	8964.7	-0.1	0.3	86
42168.3	39291.7	39699.1	42320.0	-0.1	0.1	155
155288.7	131764.2	120115.6	142350.0	-0.1	0.5	418;381
60654.8	55730.6	55809.9	58221.0	-0.1	0.0	213
31168.5	27768.5	31824.2	30475.0	-0.1	0.3	37
50634.4	46860.5	46695.5	49256.0	-0.1	0.0	222
2326.7	2180.2	2094.9	2143.9	-0.1	0.3	277
34527.4	30014.6	34436.0	35756.0	-0.1	0.3	72
13525.2	12630.8	12573.7	12261.0	-0.1	0.0	298
17286.6	15214.6	16633.4	17035.0	-0.1	0.1	926
12430.8	11338.4	11642.9	11790.0	-0.1	0.3	183
4993.1	4064.6	4293.3	4540.2	-0.1	0.3	1269;1269
7474.6	6009.2	7362.4	7183.2	-0.1	0.4	5472



Ehbp1	0.837736	2.20E-49	119.38	S(0.002)AS(0.027)S(0.133)S(0.838	3	-0.24083	11842.8	11633.9
Fam126b	0.976393	4.64E-21	79.676	ALPDTQIT(0.019)S(0.004)YAAT(0.9	3	0.087311	13733.7	14504.5
Plp1	0.87515	4.02E-27	146.67	GLS(0.875)AT(0.096)VT(0.028)GGI	2	-0.0096371	46495.4	45701.9
Trerf1	0.883659	6.57E-12	97.235	AQPGS(0.884)PES(0.115)S(0.002)(	3	0.93741	21733.0	20494.8
Scrib	0.8129	1.33E-162	194.77	LS(0.813)PS(0.187)LLATALEGYPYV	3	0.57233	47517.5	45378.3
Mylk	0.910906	2.63E-17	73.688	S(0.033)S(0.033)LT(0.911)PVLGT(C	3	-1.0736	45426.8	39322.2
Dennd4a	0.740046	0.00152219	52.821	RS(0.26)S(0.74)LPNSPR	3	-0.078489	5355.6	5723.6
Syne2	0.928646	6.09E-19	71.735	SISEGHPWHVPDS(0.929)PS(0.067)	4	-0.49114	7019.8	6912.2
Epb41l2	0.81069	2.55E-22	91.076	VRPGELEQFES(0.811)T(0.189)IGFK	3	-0.17304	9971.8	9595.3
Hnrnpul2	0.999998	1.87E-06	81.128	SKPAGS(1)DGERR	4	-0.00070919	181060.7	189042.3
Ssbp4	0.997378	0.000172444	40.396	NS(0.997)PGAVGGLNNAPGT(0.00	3	0.28711	6997.3	7866.3
Gtf3c4	0.553543	6.34E-24	82.59	ADEPS(0.554)S(0.446)PAEEKDEGC	4	0.62423	39815.2	40998.3
Sphkap	0.664441	1.20E-10	89.358	QS(0.091)S(0.664)T(0.236)ES(0.00	3	0.71053	10578.8	10671.4
Nckap5l	0.585007	1.86E-08	41.889	GS(0.004)S(0.007)T(0.015)EPPPS((	4	0.087866	3212.7	2459.4
Bcorl1	0.943411	5.36E-13	65.231	SSKSPT(0.001)PVKPT(0.001)EPCT(	5	0.48021	21050.8	21179.2
Slc16a2	0.835395	0.00010338	71.176	EQRES(0.835)S(0.165)KDK	4	0.24508	37118.6	36322.1
Map7d2	0.708859	3.86E-46	102.98	SNSLDDST(0.001)EEVQS(0.709)MI	3	1.0066	31176.6	30120.2
LOC100911	1	3.22E-43	132.83	DKS(1)PVREPIDNLTPEER	3	-0.57794	40796.8	38745.2
Cdc26	0.812506	1.44E-53	96.505	QKEDVEGVGT(0.187)S(0.813)DGE	4	0.73222	41686.5	39046.9
Cobll1	0.918814	9.77E-41	107.92	S(0.011)T(0.014)S(0.919)VDDT(0.(	3	0.30006	47294.5	47056.5
Sptbn1	0.996895	0.0614376	49.149	DQNT(0.003)VET(0.997)LQR	2	-1.6062	3371.1	2933.2
Tbc1d22a	0.932659	1.76E-29	78.758	S(0.933)VS(0.038)ES(0.02)HT(0.00	3	-0.59812	8740.6	8819.7
Dock7	0.652942	0.000280438	54.276	GS(0.653)WACS(0.347)IFDLK	3	0.732	3471.2	2789.5
Glyr1	0.736355	0.00254188	67.385	KLS(0.264)LS(0.736)EGK	2	-0.032666	108928.6	93625.0
Mpz	1	6.68E-11	117.02	RLS(1)AMEK	3	-0.35026	2894156.0	2859327.9
Rnps1	0.99999	0.000456261	65.043	RS(1)PS(0.998)PKPT(0.002)K	4	-0.55706	730623.5	734121.2
LOC10255	0.953118	1.12E-09	94.717	T(0.047)HS(0.953)PEFETQSSK	3	-0.11092	9473.7	9646.3
Arhgap35	0.697376	8.18E-23	66.604	NIIETHMYDNVAEACS(0.146)T(0.1	3	0.29134	10502.5	9508.3
Eif3b	0.656687	3.85E-130	152.77	AKPAAQSEEET(0.062)AAS(0.622)P	3	0.26744	120937.7	126781.4
Atrx	0.687138	4.29E-13	75.018	KEELS(0.313)DS(0.687)VDRLPVK	4	-1.2004	7594.3	8049.4
Akap12	0.878379	6.90E-13	40.788	S(0.878)PEQPAGS(0.025)DT(0.06)	4	-0.82408	10712.8	10293.7
Lrrtm4	1	0.000877358	59.198	QLQQHS(1)LMK	3	-0.043474	16771.5	19038.1
Fam160a2	0.815749	2.60E-16	94.569	S(0.006)PGLT(0.055)AS(0.816)PT((	2	0.64583	16759.5	16936.4
Nucks1	0.978601	1.63E-32	94.019	EKT(0.905)PS(0.979)PKEEDEEAES(	5	-0.48131	144028.0	135063.1

11622.7	10066.2	11171.6	11718.0	-0.1	0.2	245;245
14063.9	13007.0	13763.1	12949.0	-0.1	0.1	30
48306.0	40151.8	42073.6	49699.0	-0.1	0.4	114
20794.6	18424.3	19704.7	21047.0	-0.1	0.2	497
44930.0	42705.9	45237.8	41473.0	-0.1	0.1	972;972;972
44020.8	39345.6	36867.1	44703.0	-0.1	0.4	1245
4417.0	4938.5	4817.7	4795.1	-0.1	0.5	1252
7202.1	6649.3	6754.0	6442.1	-0.1	0.0	6334
11068.0	9774.4	9512.3	9481.0	-0.1	0.2	464;464;464
171226.4	165609.9	168685.4	174040.0	-0.1	0.1	191
7562.2	6580.9	7447.4	7030.7	-0.1	0.3	321
37596.8	36263.5	36167.2	38764.0	-0.1	0.1	17
9559.7	8985.0	9731.9	10216.0	-0.1	0.3	1211
3443.3	2702.9	2919.5	2937.7	-0.1	0.6	575
19337.1	19453.9	19533.7	18830.0	-0.1	0.1	1466
39245.9	31114.6	33760.6	40950.0	-0.1	0.5	518
37247.6	29890.3	29134.4	33522.0	-0.1	0.5	677
40689.6	36568.2	38689.2	37659.0	-0.1	0.1	110
42972.1	36012.7	42021.2	38151.0	-0.1	0.3	42
43416.1	42658.6	42684.8	44051.0	-0.1	0.1	354
3305.8	2791.0	2957.4	3277.8	-0.1	0.4	1828
8115.3	8548.2	7841.2	7726.4	-0.1	0.2	140
3551.0	3016.7	2897.4	3301.5	-0.1	0.5	190
99798.5	97129.7	90855.0	96003.0	-0.1	0.3	132
2629452.8	2580505.5	2578424.0	2714900.0	-0.1	0.1	195
692996.8	668412.5	675062.3	683290.0	-0.1	0.0	132
9026.0	8368.7	9417.0	8651.9	-0.1	0.2	187
9403.7	9155.8	9167.7	9305.7	-0.1	0.2	970
111766.1	109026.9	112293.1	116350.0	-0.1	0.2	79
8903.3	7953.6	7028.4	8075.5	-0.1	0.4	1044
13689.2	10724.9	10148.5	11717.0	-0.1	0.6	11
18534.4	17295.8	16934.8	16816.0	-0.1	0.2	461
15803.5	15222.3	16341.7	14933.0	-0.1	0.1	543
153713.0	132105.2	134713.2	139760.0	-0.1	0.2	204

RGD13045	0.998067	0.000270743	66.056	HS(0.002)DFS(0.998)PCYK	3	-0.0061707	22350.8	21340.5
Cltc	0.912368	6.96E-21	109.45	RPIS(0.912)ADS(0.088)AIMNPASK	3	1.2537	18376.8	18733.1
Ralgps2	0.631028	3.57E-16	138.63	S(0.004)S(0.004)S(0.087)S(0.025)E	2	-2.3654	44729.1	44360.3
Bap1	0.724154	3.67E-28	105.06	SANPT(0.001)RPS(0.161)S(0.724)F	4	-0.33975	15265.1	13643.4
Ahnak2	0.984746	0	306.35	DLS(0.985)PT(0.014)S(0.001)TDTE	2	0.067751	410508.3	415248.1
Brms1	1	0.0103381	51.276	AAVS(1)PQKR	3	-0.06698	13449.8	12896.4
Ptbp2	0.999995	1.85E-78	101.21	ETSL LAVPGALS(1)PLAIPNAAAAAA	3	-1.2745	52138.0	53566.7
Phb2	0.99745	0.00578994	83.783	GS(0.003)DS(0.997)LIK	2	3.4843	79009.1	78420.6
Slc16a4	0.780787	1.06E-13	69.256	NKGS(0.004)JLS(0.171)AT(0.781)G	4	1.7695	14095.1	11370.6
LOC100361	0.636346	3.42E-13	65.855	QLSSPNHS(0.007)PS(0.009)QS(0.6	3	-2.4053	2367.8	2485.7
Srsf11	0.998512	0.000194235	72.29	KS(0.001)ES(0.999)DKDKVK	3	-0.19346	76038.1	68739.3
Erbp3	0.999421	1.04E-17	110.44	YLERGES(0.999)IEPLDPS(0.001)EK	3	-1.385	103176.3	97682.5
Bcl2l13	0.858576	1.04E-11	95.195	KS(0.141)HT(0.859)GEAIAAR	3	-0.88864	27057.1	27125.6
Hacd3	0.982869	1.60E-15	85.563	LRLES(0.983)EGS(0.017)PETLTNLK	3	0.19611	18632.0	19598.6
Clgn	0.833464	2.98E-67	129.72	S(0.167)GS(0.833)EDEMCK	2	-1.6433	437618.0	414875.1
RGD13099	0.99999	3.59E-05	84.169	EHLS(1)EPLSLR	3	-1.0704	3223.6	3329.0
Dock10	0.966233	2.98E-15	79.837	ASLAS(0.028)LDS(0.966)NPS(0.005	3	1.3451	13867.3	13655.5
Fam169a	0.951598	2.65E-51	110.06	VVECEDGS(0.048)S(0.952)DKDARI	3	-0.13811	34554.3	35767.1
Srrm2	0.667541	6.70E-10	118.9	EIS(0.373)S(0.668)S(0.796)PT(0.07	2	-1.8154	80098.0	75302.1
Akap10	0.985468	4.30E-14	108.18	QSSLAEPVS(0.985)PS(0.015)KK	3	0.66066	87438.9	87817.9
Otud7a	0.645741	3.20E-22	74.516	T(0.047)VNT(0.646)VES(0.308)LAF	4	0.29784	11534.9	11075.5
Eil	0.712375	3.44E-07	59.252	LCQPQS(0.001)AT(0.016)T(0.044)I	2	0.18065	4685.7	4871.1
Cys1	0.68768	1.83E-09	58.373	VTGNPDS(0.008)CAS(0.109)EAPC	4	0.034613	16531.7	16527.2
Stard13	0.77276	0.00268943	42.633	DRT(0.219)S(0.773)LNES(0.006)DT	2	-1.2942	2150.2	1835.1
Fam169a	0.55627	4.47E-79	149.07	VVECEDGS(0.556)S(0.444)DKDARI	4	-1.0054	79340.6	84903.4
Dlgap1	0.692858	7.67E-07	69.92	GCS(0.307)QDDECVS(0.693)LR	2	-0.24178	3841.1	3413.1
Mcm3	1	0.00615722	47.712	EMPQVHT(1)PK	3	0.79206	23547.1	21893.3
Prkar2b	0.643226	6.87E-33	97.713	AS(0.357)VCAEAY(0.643)NPDEEEC	3	-0.73436	7575.1	7235.6
Kcna2	0.56769	0.00498886	93.598	S(0.003)AS(0.213)T(0.568)IS(0.216	2	0.096846	40221.9	37850.1
Nsun2	0.992618	6.21E-69	132.14	EGVILTNES(0.007)VAS(0.993)PEQI	3	-0.053036	39476.5	36759.8
Hmgcs1	0.999213	2.98E-146	175.34	RPSTNDHS(0.999)LDEGVGLVHSNT	5	-0.067489	59158.1	50677.5
Ttbk1	0.5	0.00236724	97.284	VNS(0.5)PES(0.5)ER	2	-0.098679	11543.0	13487.7
Ttbk1	0.5	0.00236724	97.284	VNS(0.5)PES(0.5)ER	2	-0.098679	11543.0	13487.7
Gipc1	0.738307	9.12E-23	91.647	S(0.245)S(0.738)GGHPGS(0.016)G	2	-0.16642	6335.2	5845.2

21325.8	19865.3	21120.7	20092.0	-0.1	0.1	232
20153.7	16595.1	18582.6	18617.0	-0.1	0.3	67
40838.6	40508.2	40344.5	41210.0	-0.1	0.1	26
15190.3	14207.1	13081.3	14141.0	-0.1	0.2	519
411005.0	377407.2	397279.1	387210.0	-0.1	0.0	265;265
13910.6	12832.1	12292.6	12696.0	-0.1	0.1	237
48317.7	53576.8	40555.0	50573.0	-0.1	0.5	308
75344.7	71845.0	74615.9	72235.0	-0.1	0.0	293
14074.6	10949.5	13442.5	12759.0	-0.1	0.5	218
2567.2	1943.0	2241.5	2787.9	-0.1	0.6	420
68992.0	66263.8	66809.5	67783.0	-0.1	0.2	414
103600.3	94453.5	94022.5	97592.0	-0.1	0.1	684
26396.7	25976.6	23426.8	26309.0	-0.1	0.2	389
20469.9	17323.3	19020.8	18811.0	-0.1	0.2	135
395695.5	388109.8	398486.6	386230.0	-0.1	0.1	582
3085.7	2821.7	3423.8	2810.9	-0.1	0.4	1966
14050.1	12928.9	12922.0	13214.0	-0.1	0.0	1176
27731.8	31510.5	29249.9	31379.0	-0.1	0.5	397
80614.7	70426.0	76997.9	74358.0	-0.1	0.1	452
90231.6	80942.7	84375.8	84164.0	-0.1	0.0	172
11539.7	10301.2	11679.2	10111.0	-0.1	0.3	839
5025.5	4405.3	4273.1	5024.9	-0.1	0.3	167
17398.4	15533.6	15670.6	16212.0	-0.1	0.0	116
2001.7	1907.6	2023.2	1695.6	-0.1	0.4	438
71606.8	74407.9	72973.4	74261.0	-0.1	0.3	396
4715.4	4005.7	3680.7	3562.1	-0.1	0.6	516
23529.7	22153.2	20288.2	22375.0	-0.1	0.2	720
6885.3	6721.9	6776.1	6892.2	-0.1	0.1	118
32740.9	32705.1	36883.2	34561.0	-0.1	0.4	452
38663.5	34994.1	34804.7	38193.0	-0.1	0.2	724
49249.3	47156.4	50760.6	51604.0	-0.1	0.4	476
10256.4	10437.4	12035.1	10695.0	-0.1	0.5	456
10256.4	10437.4	12035.1	10695.0	-0.1	0.5	459
5877.5	5312.4	5978.2	5682.9	-0.1	0.2	226

Pnlsr	0.725245	0.0091259	97.635	S(0.015)GS(0.26)IS(0.725)VK	2	0.35553	16342.1	15253.7
Usp20	1	1.15E-53	101.34	EAQPPS(1)PR	2	-0.85475	17439.4	18825.3
Ank3	0.904719	0.00475368	91.265	S(0.905)LEET(0.081)S(0.014)K	2	0.27968	35840.0	26749.4
Fndc3a	0.808586	2.53E-10	85.909	CPS(0.191)PIS(0.809)EHNGLIK	3	-0.86756	10426.9	10528.8
Kcnd1	0.506842	0.00018717	57.434	S(0.507)GT(0.415)T(0.078)NAFLQ'	3	-1.0835	2327.0	2137.1
Rab11fip1	0.817256	0.00179762	71.524	RLS(0.179)DS(0.817)S(0.003)T(0.0	3	-0.49882	20808.7	19056.7
Akap12	0.87087	8.02E-30	82.302	S(0.065)GGMGS(0.871)AS(0.065)E	3	0.98262	14705.7	15226.3
Myo18a	0.678875	3.77E-72	105.3	RVS(0.679)S(0.233)S(0.081)S(0.00	4	-0.41859	11624.0	11164.4
Nbeal2	0.616285	1.09E-19	54.214	S(0.232)QS(0.616)VPAS(0.104)T(0	4	-1.3474	3191.1	2821.3
Abi3bp	0.99774	5.51E-63	109.14	KQPT(0.002)APAS(0.998)EEEFNGT	5	-1.4712	82415.3	86331.6
Scaf11	0.985921	0.00202976	90.15	RAQS(0.986)PS(0.014)PK	2	0.41204	27277.8	27191.4
Map1b	0.859984	2.60E-10	98.337	S(0.002)LMS(0.86)S(0.138)PEDLTK	3	-1.2479	106707.8	108452.0
Crk	0.523425	4.40E-59	140.63	DS(0.523)S(0.399)T(0.072)S(0.006	3	-0.31639	33780.3	32814.2
Cnp	0.999576	0.00725555	96.311	SSET(1)LRK	2	-0.53313	43944.3	47145.4
Frs2	1	0.000740472	42.947	KLS(1)RDEDDNLGPK	3	1.42	8637.4	10253.7
Tmem229;	1	0.0258159	69.375	RGPQS(1)PK	2	0.7019	10514.3	8776.9
Ktn1	0.983061	2.90E-66	150.36	EIQNGTLHES(0.017)DS(0.983)EHV	3	-0.30917	129918.6	126737.5
Rusc2	0.986	4.82E-05	57.796	LS(0.001)S(0.013)DES(0.986)PRHP	3	0.12003	4706.4	5002.2
Selm	1	0.0166928	54.539	KS(1)APEAK	3	0.24898	20359.0	17532.0
Mreg	0.999624	0.0049179	43.897	KLPYLPFPS(1)P	3	0.9268	1495.5	1459.4
Thrap3	0.877219	0.0197222	59.908	KS(0.017)S(0.877)T(0.908)S(0.198	3	-0.32656	56593.8	55264.8
Sec23ip	0.957757	0.00595299	83.499	QVS(0.958)EES(0.042)K	3	-1.1106	51250.6	54813.9
Prpf3	1	1.06E-84	137.9	GDDDEES(1)DEEAVKK	3	-0.80447	94138.2	103773.6
Camsap3	1	4.83E-17	134.92	DLPDGHAVS(1)PR	2	0.60309	38025.0	36646.8
LOC10369	0.762282	6.03E-27	82.635	EEDS(0.185)GS(0.762)GEAHS(0.04	3	0.43365	7744.1	6749.5
Prkab2	0.985882	4.62E-59	140.35	DLS(0.005)S(0.009)S(0.986)PPGPY	2	-1.094	35711.2	36170.8
Cap2	0.895778	0.0019393	89.355	T(0.896)PS(0.048)PT(0.041)S(0.00	2	-0.41222	82294.9	78443.7
Ttc7b	0.999399	6.71E-63	110.17	S(0.999)PKPGPAPHDQELGFFLET(0	5	-1.8907	29621.4	34013.1
RGD15622	1	2.40E-09	80.719	AAEPLPLPAS(1)PGR	2	-1.5935	22306.7	22577.8
Ranbp2	0.701442	1.54E-21	76.889	HS(0.013)S(0.055)S(0.191)S(0.701	3	2.381	85301.6	86920.6
Lym7	0.5	0.0155451	75.509	NET(0.5)S(0.5)PEK	2	-0.92938	8577.0	8430.8
Lym7	0.5	0.0155451	75.509	NET(0.5)S(0.5)PEK	2	-0.92938	8577.0	8430.8
Nhsl2	0.996766	0.00149558	89.08	S(0.997)PS(0.003)FPVGR	2	-0.0044497	12216.6	10364.9
Rock2	0.73509	0.0292486	51.276	RGS(0.265)DT(0.735)DVR	3	1.687	2586.6	2357.2

14758.1	14255.5	14649.0	14666.0	-0.1	0.1	728
17372.8	16320.1	17149.6	16948.0	-0.1	0.1	351
35230.1	26010.7	37454.9	28483.0	-0.1	0.7	1838;2552
11378.9	9631.6	10664.9	10098.0	-0.1	0.2	160
1475.7	1819.2	1948.9	1815.4	-0.1	0.7	440
22720.5	19182.2	20719.9	18931.0	-0.1	0.4	388
15451.1	14132.3	14420.3	14110.0	-0.1	0.0	1580
10024.8	9873.8	10497.4	10476.0	-0.1	0.3	1067
3296.9	3128.9	2832.5	2790.3	-0.1	0.4	733
101791.5	83142.7	86102.8	85093.0	-0.1	0.4	809
25947.5	24546.7	24922.9	26133.0	-0.1	0.1	802
111723.5	106128.5	98783.3	102410.0	-0.1	0.1	824;698
34057.9	32089.1	29566.2	32978.0	-0.1	0.1	40
46272.5	39939.5	43414.7	45794.0	-0.1	0.2	200
9762.8	9172.0	9037.1	8732.1	-0.1	0.3	365
9200.7	8642.1	9006.7	9140.3	-0.1	0.4	215
129918.3	115715.8	123449.7	124310.0	-0.1	0.1	77
4912.6	4188.2	4849.6	4709.7	-0.1	0.3	242
23969.3	17990.9	20259.4	19914.0	-0.1	0.6	118
1431.4	1396.0	1427.6	1300.9	-0.1	0.1	196
51623.4	51011.7	48940.7	53771.0	-0.1	0.2	913
52059.9	47420.4	48938.5	52329.0	-0.1	0.2	341
90545.7	89119.8	81873.1	100250.0	-0.1	0.4	484
39323.6	36567.1	33821.5	36805.0	-0.1	0.1	334
7128.9	6115.1	6812.5	7405.0	-0.1	0.4	147
32734.5	33076.9	33974.3	31327.0	-0.1	0.2	183
79961.0	75818.0	74181.0	76349.0	-0.1	0.0	307
32078.7	30572.3	27107.2	32327.0	-0.1	0.4	160
19857.7	20723.2	18799.6	21361.0	-0.1	0.3	67
88995.6	76571.5	78961.0	90120.0	-0.1	0.3	2676
8073.9	7587.7	7359.5	8640.1	-0.1	0.3	48
8073.9	7587.7	7359.5	8640.1	-0.1	0.3	47
12662.9	10491.6	11111.8	11542.0	-0.1	0.4	951
2412.6	2374.6	2528.7	2014.9	-0.1	0.4	1054

Srp19	0.998342	2.14E-07	53.958	SGGADPS(0.002)LQQGEGS(0.998)	3	0.613	49437.8	43301.8
Nefm	1	1.61E-107	143.37	EGSSEKDEGEQEET(1)EAEGEGE	7	-1.5339	167631.1	151835.0
Olfml1	0.995835	2.40E-42	134.32	ESDFCVES(0.996)Eekt(0.502)S(0.5	3	-0.37647	175634.0	173115.1
Sorbs1	0.704662	0.000107032	88.075	S(0.705)AES(0.003)LLES(0.02)T(0.	2	-1.2131	16227.6	17196.3
Akap9	0.954208	1.85E-17	71.969	GSSIS(0.001)DLADS(0.045)VAYQS(	3	0.19634	7306.5	8116.2
Mpzl1	0.753527	0.000105405	62.287	KCPS(0.754)DT(0.246)EGLVK	3	-0.65705	12772.4	12854.7
Tns1	0.653163	1.77E-07	54.225	AINPT(0.653)MAAPGS(0.305)PS(0	3	-1.5018	26280.7	23629.7
Mical3	0.999825	3.50E-07	91.006	GRS(1)EEEELEASK	3	-0.09296	47516.4	47232.1
Prkg2	0.946161	0.0255219	44.863	KDS(0.946)S(0.054)EKK	3	-0.1298	20188.5	22082.0
Cldn11	0.684813	9.66E-21	102.64	FYY(0.001)S(0.223)S(0.685)GS(0.0	3	3.2677	80730.1	79674.4
Dleu7	1	0.00119673	44.406	S(1)PDHVPIAQR	3	0.14544	13435.5	13033.5
Dnajb2	0.787076	5.05E-10	84.653	GEAAKVS(0.787)PS(0.173)S(0.04)E	3	-0.13107	33577.5	31719.5
Utp14a	1	0.0189013	51.445	QKES(1)PAK	3	-0.34365	10406.6	10227.7
Nfia	0.843731	4.03E-24	69.215	S(0.767)PGS(0.203)GS(0.016)QS(0	4	0.84427	33837.5	33942.9
Iqsec1	0.544244	7.82E-96	166.6	S(0.228)S(0.228)AGS(0.544)LESNV	3	-0.20342	8882.0	8230.6
Basp1	1	2.89E-71	95.053	AEPEKS(1)EGAAEEQPEPAPAPEQE/	4	0.49164	86500.3	79059.0
Pag1	0.852255	1.83E-59	143.91	DS(0.024)S(0.124)S(0.852)QENMV	3	0.29383	57672.0	55122.2
Rars	0.973116	3.21E-07	49.266	NCSYLEAS(0.026)PS(0.973)LEQLRE	3	-0.82207	11819.8	11949.8
Phf2	0.927108	2.73E-19	74.657	ES(0.013)AS(0.927)PT(0.06)IPNLD	4	0.042738	8861.0	9498.8
RGD13071	1	0.00056901	46.88	AGMPVKES(1)PRK	4	0.63511	10524.4	9948.6
Pex16	0.998969	4.74E-14	116.63	TLQNS(0.999)PS(0.001)LHSR	3	0.8213	8928.4	9241.9
Tsnax	0.857344	1.65E-08	69.92	DAS(0.003)S(0.019)S(0.121)S(0.85	2	-0.015966	7209.9	7392.8
Fhod3	0.730127	1.47E-08	54.764	RAS(0.73)MCS(0.258)GGT(0.012)\	3	-0.16497	4513.6	4495.8
Vim	0.999581	3.24E-106	170.1	EEAESTLQS(1)FRQDVNASLAR	4	-1.066	32865.5	34669.1
Dlg1	0.975862	0.019656	42.426	IIS(0.024)VNS(0.976)VDLR	2	-0.85706	9264.5	8322.6
Gemin5	0.776783	5.92E-19	76.817	QDS(0.223)S(0.777)IGNEDESVR	2	0.0088063	6301.0	5740.5
Srpk1	0.922891	8.39E-106	179.5	Qees(0.055)ES(0.923)PVERPLT(0.(	3	-0.18622	110486.2	113508.7
Ptrf	0.988495	1.08E-183	190.82	ATEEPSGT(0.011)GS(0.988)DELIK	2	0.076475	489308.7	473143.2
Suds3	0.917221	6.40E-39	89.345	RPAS(0.157)PS(0.917)S(0.897)PEH	3	-0.33313	61696.1	55067.3
LOC10091	0.635895	0.000151967	58.626	S(0.001)S(0.001)QCHS(0.636)GS(0	3	-0.97536	11455.1	12048.5
Etl4	0.944329	1.10E-22	91.317	AGGDCKPT(0.054)S(0.944)PS(0.00	3	0.11033	53575.2	46355.6
Scyl2	0.5	0.00248364	97.813	GS(0.5)LT(0.5)LEEK	2	0.35121	44668.2	41646.6
Sri	0.999614	0.000111064	70.552	ALTDS(1)FRR	3	-0.35844	9254.6	8776.2
G6pd	0.799667	0.000144166	66.267	VQPNEAVY(0.8)T(0.2)K	2	-1.0744	16519.8	16685.2



45577.3	40005.5	41762.6	48312.0	-0.1	0.4	135
187015.0	159868.1	137555.8	178900.0	-0.1	0.6	563
208446.3	174508.6	170940.3	178580.0	-0.1	0.4	114
16459.4	15142.0	15899.3	15877.0	-0.1	0.1	1167
7175.6	6887.0	6701.9	7667.7	-0.1	0.3	2772
12973.7	10977.7	13199.9	12132.0	-0.1	0.3	221
33036.9	23924.1	26590.0	27510.0	-0.1	0.6	1355
48894.7	43540.8	45697.4	45881.0	-0.1	0.0	976
24609.2	20942.1	18264.2	23705.0	-0.1	0.5	153
88312.1	71108.0	76177.2	86675.0	-0.1	0.4	194
15090.2	11431.9	14009.9	13652.0	-0.1	0.5	42
31657.1	29272.1	32076.4	29857.0	-0.1	0.1	293
9771.6	9197.0	9417.6	9988.8	-0.1	0.1	477
32441.8	31841.6	32014.4	30425.0	-0.1	0.0	319
9051.1	7866.9	8284.8	8462.8	-0.1	0.2	942
90643.6	79453.4	78386.1	83199.0	-0.1	0.2	91
63000.2	55078.3	55192.3	55122.0	-0.1	0.2	173
11586.5	10741.3	11944.2	10579.0	-0.1	0.2	40
9447.2	8319.1	8970.5	8872.5	-0.1	0.1	419
7856.4	9273.1	9599.3	7781.6	-0.1	0.6	2287
8005.1	8258.7	8579.9	7788.9	-0.1	0.3	157
8211.3	7292.7	6647.3	7524.8	-0.1	0.3	33
4261.5	4491.6	3845.8	4149.5	-0.1	0.3	345
34213.3	29701.1	32117.0	33922.0	-0.1	0.2	205
9343.1	8282.5	8949.4	8109.0	-0.1	0.3	516
5670.7	5652.6	5350.6	5663.8	-0.1	0.2	757;757
110360.8	104916.4	93829.1	115880.0	-0.1	0.4	311
495026.6	422736.5	410615.7	538130.0	-0.1	0.5	42
63370.7	53804.5	54739.1	60964.0	-0.1	0.4	236
9684.2	10208.2	10407.0	10615.0	-0.1	0.4	522
56830.6	47293.9	50477.4	49744.0	-0.1	0.4	1641
46191.6	41139.6	39451.1	44101.0	-0.1	0.2	679
8086.0	7405.5	8561.5	8609.9	-0.1	0.4	157
15088.1	15194.8	14980.3	15271.0	-0.1	0.1	401

Lap3	0.543202	2.18E-30	86.557	T(0.543)KS(0.457)WIEEQEMGSFLS	4	-0.99941	4752.1	5114.4
LOC10036	0.787993	0.00674881	60.398	T(0.788)T(0.029)S(0.183)PNKGGK	3	-0.084429	127700.2	116777.6
Gda	1	0.00123784	78.964	T(1)PQLALIFR	2	0.62371	19505.1	18191.2
Gprin3	0.739637	1.07E-07	58.723	S(0.004)VS(0.039)T(0.163)S(0.74)I	3	-1.2806	4013.7	4014.8
Phactr4	0.530313	4.01E-29	80.102	AHLLFES(0.221)S(0.221)DS(0.53)	3	1.2778	9005.7	9119.3
Ctnn	0.806304	7.14E-17	58.349	KQT(0.374)PPAS(0.706)PS(0.328)F	4	0.33739	114480.5	104317.7
Ccdc132	0.99497	1.48E-29	117.3	S(0.995)PS(0.624)VS(0.371)PS(0.0	2	-0.3298	416638.7	392454.2
Grip1	1	1.05E-18	105.36	RQS(1)IPEEFK	2	1.1894	52053.3	47920.9
Pcyt1a	0.781543	6.14E-07	88.122	QSPS(0.011)S(0.188)S(0.782)PT(0.	2	0.90237	10151.6	10964.5
Hdgfrp3	0.658621	0.0562864	41.689	NT(0.044)T(0.659)S(0.297)DLQK	2	-0.050297	21400.2	20534.2
Tfpt	0.973382	8.70E-21	102.29	AAS(0.004)S(0.023)LT(0.973)PELA	3	1.2032	7660.0	8505.1
Map2k5	0.990085	0.00757089	79.427	KS(0.01)S(0.99)AELR	2	0.48063	105288.6	96047.0
Bclaf1	0.999839	2.87E-08	127.83	IDIS(1)PSALR	3	-1.0461	60139.7	60324.8
Nalcn	1	0.000603253	59.227	NAQREDS(1)EIK	3	-1.6175	25386.2	26886.5
Polr3g	0.999987	8.82E-25	98.543	GEGERS(1)DEENDEKEGSK	4	-0.15225	17072.0	15957.9
Snx7	0.876403	1.18E-30	124.46	LAS(0.876)GS(0.045)S(0.079)ELAV	2	0.86001	20113.3	18252.7
Gdf3	0.972872	0.00868836	46.159	PS(0.973)QDGS(0.027)CLQK	2	1.1448	6006.0	5396.2
Got2	1	0.0288216	52.705	VGAS(1)FLQR	2	-0.35926	3696.1	4315.6
Epb41l3	0.978113	2.44E-18	99.344	VES(0.002)IS(0.017)VGS(0.978)VS	3	1.8358	7736.3	8316.7
lws1	0.937863	1.87E-09	60.472	T(0.081)VAS(0.938)DS(0.981)EEEEV	4	-0.16861	25166.7	26627.6
lws1	0.985128	1.87E-09	60.472	T(0.076)VAS(0.932)DS(0.985)EEEEV	3	0.72929	25166.7	26627.6
Phldb1	1	0.0221545	68.456	LWES(1)MER	2	-0.20915	9004.1	9861.3
Gnl1	0.972813	8.10E-41	123.42	EEQTD(0.027)S(0.973)DGESVTHH	3	-0.087854	13743.2	14470.5
Myo9a	0.998134	0.0719244	50.805	T(0.002)RLS(0.998)LIR	2	0.42733	6713.6	7500.8
Tp53bp1	0.503929	5.01E-29	78.942	S(0.504)NIS(0.283)S(0.182)PAT(0.1	3	-1.4197	8412.6	8238.6
LOC67912	1	3.76E-05	104.9	S(1)QEIEELER	2	-0.056752	12719.9	11705.2
Pak1	0.98558	0.00664946	82.287	Y(0.004)MS(0.986)FT(0.01)DK	3	0.084558	27643.9	30129.0
Spp1	0.99678	7.15E-06	71.98	S(0.001)DAIDS(0.997)QAS(0.002)S	3	-0.43481	19538.5	17954.3
Mtmr7	0.944824	7.28E-122	173.4	S(0.001)FPS(0.045)RS(0.945)PS(0.1	4	-0.6426	11756.7	11615.2
Zranb2	1	5.00E-94	173.35	EVEDKES(1)EGEEDEDEDLSK	4	-0.024619	440790.5	442791.6
Snip1	1	0.00242372	67.032	GAS(1)RS(1)PAK	2	0.10962	24962.8	24331.8
Zfp638	1	3.90E-07	61.821	NDPELGKES(1)PDLK	3	-0.030758	66417.9	69730.9
Tmub1	0.981035	5.00E-05	58.079	AWPQDT(0.019)IGS(0.981)LKR	3	1.2076	13491.6	12603.6
Hnrnpc	0.904673	2.62E-26	81.574	NEKSEEEQS(0.022)S(0.074)AS(0.91	4	0.26918	78892.2	87930.9

4904.1	4091.9	5177.2	4630.9	-0.1	0.4	236
106804.9	111832.9	113864.0	104880.0	-0.1	0.4	443
20274.0	17025.2	18331.5	19198.0	-0.1	0.3	6
3717.0	4024.8	3656.0	3372.8	-0.1	0.3	331
8868.3	8256.3	8219.9	8927.2	-0.1	0.1	450
126202.7	108603.4	97748.9	118340.0	-0.1	0.5	417;380
361754.7	366781.6	347063.5	388090.0	-0.1	0.3	492
48863.9	46049.8	46925.2	47103.0	-0.1	0.1	43
9068.3	9606.1	9019.5	9783.4	-0.1	0.4	323
19947.1	19180.0	19488.9	19573.0	-0.1	0.1	192
8701.3	8091.5	8052.0	7260.7	-0.1	0.3	203
91860.5	90930.4	88559.6	96467.0	-0.1	0.3	60
57533.3	55982.4	54079.8	57470.0	-0.1	0.1	656
26127.4	26027.2	23714.3	24049.0	-0.1	0.1	803
17716.7	14463.4	14509.0	18791.0	-0.1	0.5	158
18469.4	16902.0	18029.1	18564.0	-0.1	0.2	121
4928.2	7689.8	3101.0	4579.8	-0.1	0.8	100
3436.6	3294.2	3862.8	3618.5	-0.1	0.5	143
7826.5	6317.6	8090.8	8068.2	-0.1	0.5	978;960;1297;743
25129.8	23293.8	23825.4	25286.0	-0.1	0.1	383;382
25129.8	23293.8	23825.4	25286.0	-0.1	0.1	385;384
9959.1	8885.6	8688.7	9557.0	-0.1	0.2	682;739
14898.6	12551.6	13441.4	14587.0	-0.1	0.3	51
7409.2	6381.3	7315.1	6657.2	-0.1	0.3	2341
9007.1	7566.2	7838.8	8746.9	-0.1	0.3	1591
14133.1	11720.1	12020.1	12556.0	-0.1	0.4	18
33765.1	28164.5	26993.9	31010.0	-0.1	0.5	144
21621.8	17727.0	17387.9	20533.0	-0.1	0.5	266
11899.5	10323.7	11636.5	11243.0	-0.1	0.2	593
461075.1	434858.1	379785.4	451180.0	-0.1	0.3	153
20775.4	21257.8	21472.3	23232.0	-0.1	0.4	72
67796.4	60742.0	63844.0	67406.0	-0.1	0.1	1049
12179.5	11854.3	11993.4	12184.0	-0.1	0.1	126
79966.3	77283.2	75115.0	79934.0	-0.1	0.2	249

Pfas	0.74497	4.44E-10	49.967	S(0.01)GQGDAPPT(0.745)PPT(0.24	3	1.9273	11268.6	11369.5
Pdcd4	0.999984	4.77E-109	191.65	DSGRGDS(1)VSDNGSEAVR	3	-0.56747	19138.9	19589.8
Mprlp	1	9.74E-05	84.892	S(1)NPDFLKK	3	-0.34897	282975.1	283311.2
Srrm2	0.922597	0.0662467	55.112	T(0.923)S(0.077)PAPWK	2	-0.58788	9196.3	10343.0
Srsf11	0.999986	3.03E-05	91.093	RPTEAVS(1)PK	3	0.6935	169420.1	169254.0
Srrm2	0.781265	9.82E-36	103.92	S(0.039)GS(0.168)S(0.781)QELDGI	3	0.39993	77525.4	76111.6
Stat5b	0.819036	1.63E-27	84.156	EANNGS(0.179)S(0.819)PAGS(0.00	3	0.7547	17861.6	18050.8
Ccp1	0.898596	1.04E-38	89.721	T(0.011)VS(0.042)IS(0.899)ES(0.04	3	-0.30405	6305.6	5842.1
Map1a	0.862537	1.09E-16	92.319	ET(0.007)S(0.13)PT(0.863)RGEPVC	3	0.19869	14367.0	11559.3
Slc35a5	0.784503	0.0167796	43.405	S(0.785)S(0.215)GDGEELER	2	-0.24344	8092.0	8387.9
Srrm1	0.999981	1.85E-09	123.26	RLS(0.352)PS(0.648)AS(1)PPR	2	-0.69606	49610.7	55419.4
Otud5	0.765853	0.000256971	43.442	AT(0.211)S(0.766)PLVS(0.017)LY(C	3	-1.0498	2731.5	3033.4
Usp8	0.860089	1.35E-70	167.14	S(0.045)YS(0.86)S(0.094)PDIT(0.00	4	0.204	55934.3	55853.8
Ttc7a	0.931139	1.00E-06	96.82	DGS(0.069)FEGLT(0.931)VK	3	0.5395	41940.6	37334.6
Rnmt	0.854443	4.22E-55	131.33	TQDDLVEQNS(0.04)S(0.854)Y(0.00	3	-0.16358	78239.8	75023.5
Pnkd	0.999974	8.35E-11	63.46	EEPEPLS(1)PELEYIPR	3	-0.42194	13482.0	12679.2
Srrm2	0.845222	0.00719356	43.761	S(0.155)RHS(0.845)PRLS(1)R	3	-0.14675	7465.5	7140.9
Srrm2	0.999705	0.00719356	43.761	S(0.155)RHS(0.845)PRLS(1)R	3	-0.14675	7465.5	7140.9
Ociad1	0.977036	5.72E-20	59.122	YEPIPFSASMNES(0.006)T(0.006)PT	4	0.47699	7630.0	7963.9
Tpm1	1	4.97E-09	70.47	ETAADVAS(1)LNRR	3	0.30417	12390.7	11661.3
Cetn2	0.99175	2.67E-22	127.3	RMS(0.992)PKPELT(0.008)EEQK	4	0.17012	74127.4	72118.9
Sec61b	0.999404	0.00145931	74.962	KNAS(0.999)CGT(0.001)R	3	-0.11084	20007.2	23925.9
Spata6	0.968359	0.000565915	61.344	S(0.001)HS(0.031)PS(0.968)PYTK	3	1.0166	15105.3	13942.9
Dnm3	0.981477	0.00119993	46.249	RPPPS(0.981)PT(0.017)RPT(0.002)	3	1.1182	14772.5	15277.8
Srgap2	0.795611	0.000195302	42.863	KQDS(0.203)S(0.796)QAIPLVVS(C	3	0.86619	5750.5	6281.0
RGD13046	0.971937	1.20E-09	96.673	NNRPAFFS(0.972)PS(0.028)LK	3	1.5875	28692.3	27858.3
Rab33b	0.991338	0.00149265	66.683	S(0.991)MVQHY(0.007)Y(0.001)R	3	0.46513	16383.8	14698.7
Nefh	1	8.81E-30	120.9	PPAEVKS(1)PEK	4	-0.76647	649163.5	643538.0
Itsn1	0.982005	0.00182212	94.804	LLS(0.982)PGT(0.009)S(0.009)K	2	0.75737	31886.3	29140.6
Dcaf8	0.499972	4.49E-15	58.581	DQDS(0.5)S(0.5)DDERALEDWVSSE	3	0.81668	12822.5	12117.6
Dcaf8	0.499972	4.49E-15	58.581	DQDS(0.5)S(0.5)DDERALEDWVSSE	3	0.81668	12822.5	12117.6
Irf9	1	0.0354095	41.502	NQKS(1)PFK	3	-0.1788	17018.3	17232.5
Ddx23	1	1.63E-07	89.858	DRDAS(1)PKEER	3	0.54715	121045.0	121154.2
Map3k9	0.586302	1.43E-09	93.228	S(0.413)S(0.586)PPASPTIIPR	3	-0.30789	1608.0	1677.3

10776.3	9899.2	10547.6	11012.0	-0.1	0.2	548
18257.5	17851.2	18538.8	17262.0	-0.1	0.1	76
306936.3	267444.2	272386.6	282320.0	-0.1	0.1	2360;2383
9819.7	9164.1	8614.1	9864.6	-0.1	0.3	1815
163710.0	153334.4	164624.6	155060.0	-0.1	0.1	449
78098.9	69476.8	71147.1	77568.0	-0.1	0.1	1501
16079.3	16297.0	15666.3	16991.0	-0.1	0.2	128
6597.9	5504.6	6230.4	5916.4	-0.1	0.3	185
14771.9	12283.2	13471.3	12569.0	-0.1	0.5	1862
8386.4	7210.2	7958.5	8246.7	-0.1	0.2	415
48844.7	46989.2	48238.6	49670.0	-0.1	0.2	308
2907.3	2527.6	2679.6	2959.1	-0.1	0.3	575
55043.1	48657.8	52620.0	55826.0	-0.1	0.2	681
47967.4	35635.4	41035.9	43153.0	-0.1	0.6	318
74471.7	67820.2	72562.0	74081.0	-0.1	0.1	53
12602.2	12466.9	11889.7	12148.0	-0.1	0.1	57
6869.4	7219.7	6347.7	6657.2	-0.1	0.2	1551
6869.4	7219.7	6347.7	6657.2	-0.1	0.2	1555
8733.7	7466.2	7374.1	8070.3	-0.1	0.3	193
13394.3	11667.3	12189.0	11409.0	-0.1	0.3	51
79437.2	69725.3	67280.8	75534.0	-0.1	0.3	26
23515.8	19617.8	23668.3	20236.0	-0.1	0.5	38
13600.8	13337.0	13659.4	13170.0	-0.1	0.2	219
14781.5	13187.4	13910.5	15125.0	-0.1	0.2	843
6192.8	5442.1	5697.4	6024.6	-0.1	0.2	348
28677.2	24647.9	26874.3	28747.0	-0.1	0.2	304
14216.2	14294.0	13894.5	14475.0	-0.1	0.3	98
716461.5	684614.9	528209.3	679470.0	-0.1	0.5	794;764
30296.5	28624.3	27626.6	29761.0	-0.1	0.2	1134
12141.2	11647.5	10942.9	12335.0	-0.1	0.2	123
12141.2	11647.5	10942.9	12335.0	-0.1	0.2	124
16636.1	16570.9	15843.7	15516.0	-0.1	0.1	129
119495.4	112613.9	115018.1	113050.0	-0.1	0.0	14
1606.9	1536.3	1383.6	1688.1	-0.1	0.4	541

Map4	0.60363	9.75E-118	136.61	VT(0.002)EFNNVT(0.107)PLS(0.61	4	-0.47135	118739.6	111665.9
Prkca	1	0.0205188	41.164	LKPS(1)DKDR	3	-0.41451	21568.4	19860.7
Hrc	0.938141	1.65E-43	98.98	SVQEDIGHQLQPT(0.006)GPGS(0.	4	1.256	15354.6	22416.6
Jmjd1c	0.74694	4.01E-17	71.929	TSACPPES(0.004)QQQS(0.249)T(0	3	1.3475	5862.6	6052.8
Sf3b1	0.986939	1.43E-20	104.26	DTPGHGS(0.013)GWAET(0.987)PF	3	-0.44676	38208.7	38307.6
Prkacb	0.969333	7.35E-53	128.67	TWT(0.002)LCGT(0.969)PEY(0.029	2	0.0024325	170684.4	164328.8
Dmxl2	1	3.06E-71	104.4	MKLDHEL(1)LDR	4	-2.4214	76618.9	80817.4
Dmtn	1	9.63E-09	133.42	HLS(1)AEDFSR	3	-1.037	37970.1	39614.0
Map3k9	0.975666	0.0161131	45.207	ELT(0.002)S(0.022)GDEGS(0.976)F	2	0.29402	2181.5	2541.3
Dnajc21	0.999995	1.49E-14	67.217	YEKEFGDGS(1)DENEVEEQEAK	4	-1.1034	25871.6	24935.1
Gap43	0.985941	0.000110988	67.019	AGSAET(0.014)ES(0.986)AAK	2	0.57141	8296.2	7918.4
Pnn	0.999503	3.40E-94	151.37	QES(1)DPEDDDVKKPALQSSVATS	4	-0.2384	134546.2	135611.6
Uhrf1bp1l	0.948508	2.20E-25	75.064	DHNLGS(0.009)PPKS(0.091)PT(0.9	4	-0.45802	22845.8	22956.2
Crybg3	0.975818	4.36E-19	62.052	DDQDKPEKDPQT(0.976)PT(0.024)	4	-0.64962	11714.1	9325.8
Ccdc132	0.812717	8.09E-26	108.14	FLEQS(0.002)RS(0.746)PS(0.43)VS	4	-0.33058	75624.2	70122.5
Pacsin1	0.996575	1.66E-09	99.941	TEQS(0.003)VT(0.997)PEQQK	3	-0.44298	54900.2	54229.3
Fbn1	0.997689	1.32E-51	110.06	GFS(0.002)LDQS(0.998)GASCEDV	3	0.82232	15712.4	18735.3
Ggnbp2	1	2.34E-09	71.601	LEQLCEEFS(1)EEER	3	1.0099	4563.1	4880.1
Cep170b	0.694658	1.69E-05	77.192	SNS(0.006)LS(0.112)T(0.695)PRPT	2	-0.15729	5149.8	4230.9
Slc25a4	0.99477	0.000175618	66.19	AAY(0.995)FGVY(0.005)DTAK	3	-0.77939	5799.9	5937.8
Drp2	0.98372	2.41E-10	62.203	S(0.016)QDVS(0.984)LCLEDIMEK	3	-1.4464	20709.7	20910.5
Nefh	1	2.34E-28	117.37	S(1)PVKEEAKS(1)PAEAK	4	0.43928	1698614.1	1705921.9
Ccz1b	1	2.04E-12	71.685	HIEPELAGRDS(1)PVR	3	0.85131	10100.9	10719.1
Prrc2a	0.963013	2.66E-10	86.262	GT(0.026)S(0.963)PGS(0.011)ELPP	3	0.39063	100692.0	101951.7
Copg1	0.529791	0.00238451	63.473	TGS(0.006)ES(0.53)S(0.464)IDR	2	-1.0763	9188.5	9967.6
Taok3	1	0.0248531	51.066	QLHT(1)LQK	3	0.32349	4334.7	4719.5
Atrx	0.962588	1.02E-47	143.57	YVES(0.963)DDEKPT(0.037)DENVM	3	-2.4944	225583.4	221324.5
Tpr	0.982106	4.61E-157	158.02	AS(0.982)PCS(0.018)FASPSAAAAT	4	-1.0025	47379.2	47051.1
Slc2a1	1	0.0239129	53.756	AKS(1)VLKK	3	0.0052736	42918.6	37398.2
Dnajc2	0.812084	2.63E-14	109.79	NAS(0.094)T(0.094)S(0.812)FQELE	2	0.58217	13336.5	11524.2
Golim4	1	1.08E-21	80.387	EENLPEES(1)EERK	3	-0.31954	98071.6	103794.5
Brap	0.967256	6.41E-41	127.37	EQSESVNT(0.005)VPDS(0.967)PS(	2	0.1225	58052.5	52967.8
Cep162	1	0.0700235	50.04	S(1)APPLPR	2	0.054837	3155.1	3782.6
Flad1	0.999445	2.07E-06	76.326	CLS(0.999)PGGHPVY(0.001)R	3	-0.25946	11650.5	11529.7

125808.7	107020.6	114184.6	114330.0	-0.1	0.2	515;515
22657.7	19199.8	20264.7	20904.0	-0.1	0.3	234
22349.0	16597.3	19666.3	20370.0	-0.1	0.7	539
5217.2	4852.7	6254.3	5032.0	-0.1	0.5	1678
38852.0	36765.1	36738.9	35174.0	-0.1	0.0	313
155075.8	152289.4	155231.2	154150.0	-0.1	0.1	202;194
71786.7	71807.6	66771.0	77360.0	-0.1	0.3	433;451
36483.2	35735.5	36580.7	35143.0	-0.1	0.1	372
2216.3	2278.7	2056.0	2202.5	-0.1	0.4	609
25496.0	23935.1	25409.1	22539.0	-0.1	0.2	46
8514.9	7725.1	7733.1	7839.1	-0.1	0.1	133
137072.7	127221.3	120981.2	135450.0	-0.1	0.1	100
21163.0	20485.6	21571.6	21031.0	-0.1	0.1	423
12353.0	10289.2	8979.7	12191.0	-0.1	0.6	158
61566.1	65762.2	61147.8	68407.0	-0.1	0.4	496
51996.0	51781.7	50133.3	49888.0	-0.1	0.0	181
19158.2	15092.5	17216.9	18195.0	-0.1	0.5	2562
4019.0	4090.6	4272.3	4320.5	-0.1	0.4	360
4049.3	4179.5	4144.1	4329.8	-0.1	0.5	1132
6122.4	5934.5	5804.9	5088.1	-0.1	0.3	191
21136.3	19141.5	20707.1	19280.0	-0.1	0.1	849
1914545.7	1817243.4	1471950.1	1722400.0	-0.1	0.5	520;520
11000.9	9746.0	9980.5	10255.0	-0.1	0.1	264
94811.7	91657.4	93350.3	95257.0	-0.1	0.1	378
9129.7	8860.5	9057.7	8732.9	-0.1	0.1	355
4001.4	4002.4	3881.5	4417.4	-0.1	0.4	666
219965.7	201721.6	211783.8	214860.0	-0.1	0.0	89
51942.8	43192.1	43649.8	51080.0	-0.1	0.4	39
38337.8	34619.0	41182.3	36004.0	-0.1	0.4	226
12158.2	10787.4	11814.9	12280.0	-0.1	0.4	49
100861.0	91925.8	90813.4	102530.0	-0.1	0.2	538
57299.0	49535.6	55246.8	53832.0	-0.1	0.2	116
3656.5	3358.7	3027.5	3598.1	-0.1	0.5	267
10464.9	9790.4	10460.7	11457.0	-0.1	0.4	466



Pitpnc1	0.515029	1.24E-06	42.709	S(0.932)APS(0.515)S(0.473)APS(0.	3	-0.17418	8805.2	8998.2
Samd14	0.600136	2.16E-11	67.136	GSASS(0.002)GS(0.007)T(0.035)T(	2	0.81217	2564.9	2545.6
Rpap3	0.682906	0.000357786	56.569	IKS(0.683)FDY(0.317)DAWAK	3	0.19236	18598.6	19707.2
RGD15626	0.999831	1.85E-08	53.998	TPLENVPGNLS(1)PIKDPDR	3	1.7451	28841.4	26419.2
Sec23ip	0.95862	1.35E-12	103.01	KLS(0.959)VGAYVS(0.032)S(0.009)	2	-0.079898	32415.8	34255.6
Dennd4b	0.759344	0.000508292	60.971	SLREPS(0.241)S(0.759)PIGR	2	0.12761	10530.3	10478.5
Sptbn1	0.991177	4.65E-47	140.27	ES(0.007)S(0.991)PVPS(0.561)PT((	2	-0.13811	445370.4	430769.4
Anxa2	0.8346	0.000698045	60.255	S(0.029)LY(0.835)Y(0.136)FIQQDT	3	-1.2905	4574.5	4711.5
Zc3h13	0.849649	2.04E-17	93.753	GNPET(0.001)HEDS(0.85)QVFS(0.1	3	-0.046875	12686.5	11928.9
LOC50006	0.963258	3.96E-69	134.47	AAS(0.963)PPS(0.037)YTLDLGESQ	4	-0.75117	16763.1	16933.1
Gemin5	1	6.83E-11	64.537	VGPGAGAS(1)PGAPPFR	3	-0.14604	43435.0	38645.4
Stxbp5	0.734148	0.00550388	58.172	CKS(0.734)PT(0.254)S(0.012)AK	3	-2.0026	66565.8	63470.8
Rpo1-3	0.999851	0.00358877	60.91	GSVGCS(1)PPR	2	-0.80437	22460.5	20659.3
Itgb4	0.959064	2.90E-26	82.267	QLLVEAIDVPVGT(0.959)AT(0.041)	3	1.3434	6594.8	7628.2
Dmwd	0.668572	5.35E-08	46.145	LGDPDGT(0.007)GEPPS(0.247)T(0	3	0.3063	13705.1	13857.3
RGD13096	0.850854	3.61E-11	66.826	S(0.029)FS(0.851)ADEFET(0.12)LQ	3	-0.27914	7744.8	7120.6
Apba1	1	1.43E-85	103.1	APT(1)PGGGHPDS(1)PGLPAPAGQ(	3	-0.43328	108588.7	107136.8
Cbx5	0.79537	6.47E-19	136.39	KS(0.097)S(0.795)FS(0.095)NS(0.0	3	-0.80224	92804.8	89214.3
Trim28	0.993102	1.01E-29	84.024	LQEKLS(0.993)PPY(0.001)S(0.006)	3	0.73803	22860.1	23033.0
Srrm2	0.998426	2.77E-06	75.764	DKS(0.998)HS(0.869)HT(0.12)PS(0	3	-0.14432	5486.2	6299.6
Lmo7	0.793286	0.00846461	79.128	S(0.793)GS(0.178)PET(0.029)K	2	-0.38662	42802.9	40336.8
Eif3b	0.953914	3.85E-130	152.77	AKPAAQSEET(0.013)AAS(0.954)P	4	0.022331	168764.1	175473.5
Ei24	0.99495	0.00159499	111.31	AS(0.005)S(0.995)LLAQR	2	-0.22281	16610.4	17388.3
LOC10254	0.973927	1.73E-22	75.868	SVTSNQSDGT(0.007)QES(0.019)CF	3	-1.3254	9140.9	9106.5
Cdk13	0.681668	0.000627954	69.346	ASS(0.004)VS(0.256)T(0.682)PT(0.	3	0.70853	55800.7	51636.2
Usp6nl	1	0.000560224	84.896	REDGS(1)PHK	3	0.32739	39835.5	37377.4
Mapk9	0.822726	1.20E-05	77.746	DQPSDAAVS(0.823)S(0.177)K	2	0.94772	7509.0	7032.2
Tpd52l1	0.904387	7.14E-17	55.682	VGGT(0.003)NHS(0.076)GGS(0.90	4	0.41835	23683.0	20629.7
Atxn2l	0.751883	3.98E-18	72.568	EVDGLLT(0.137)S(0.752)DPMGS(0	2	0.010605	14222.7	13284.7
Nucks1	0.994796	8.71E-13	62.193	EKT(0.995)PS(0.005)PK	3	1.3573	114997.0	111622.1
Dst	0.557318	7.07E-15	120.21	S(0.002)LS(0.143)GT(0.557)LT(0.2	2	-3.054	29152.7	30346.1
MAST1	0.996947	0.0252016	66.568	S(0.997)PT(0.002)HSYR	2	-1.2802	8906.9	8496.5
Hnrnpa3	0.940558	8.45E-38	87.208	S(0.001)S(0.001)GS(0.051)PY(0.00	3	0.55167	21694.8	24079.5
Vps13d	0.944377	2.63E-22	91.276	S(0.003)YPQT(0.996)PPPS(0.944)F	3	-0.098192	48666.1	57170.1

8542.8	8254.2	8853.2	7722.3	-0.1	0.2	273
2619.4	2509.0	2388.7	2387.3	-0.1	0.0	258
18466.2	18785.1	17959.6	16760.0	-0.1	0.2	87
28127.8	26815.9	26585.7	25190.0	-0.1	0.1	1028
32777.1	30442.5	30048.1	33242.0	-0.1	0.2	467
10488.3	9776.0	9928.4	9982.5	-0.1	0.0	916
437866.0	401441.3	414569.7	422480.0	-0.1	0.0	2151
4855.4	4421.8	4576.8	4330.3	-0.1	0.1	316
12548.9	11275.7	11903.6	11850.0	-0.1	0.1	1063
17892.4	15430.2	17734.1	15462.0	-0.1	0.3	328
43260.7	38384.2	38690.3	41072.0	-0.1	0.2	48;48
57748.3	57756.7	62057.2	57198.0	-0.1	0.3	713
22657.7	20774.9	19783.8	21446.0	-0.1	0.2	105
6226.7	5954.2	6808.3	6514.3	-0.1	0.5	973
15352.1	12672.6	13555.7	14226.0	-0.1	0.3	112
7070.8	6928.2	7016.4	6735.9	-0.1	0.1	1470
112309.1	100760.7	101119.4	107380.0	-0.1	0.1	316
92599.4	82168.1	82792.1	93944.0	-0.1	0.3	93
23009.0	20614.3	22786.7	21560.0	-0.1	0.1	753
5835.4	5302.8	5888.4	5422.6	-0.1	0.3	469
47727.9	39420.4	42798.1	41168.0	-0.1	0.4	820
156566.2	154225.3	156246.4	161720.0	-0.1	0.2	75
14128.9	16556.6	14223.7	14598.0	-0.1	0.5	47
8984.5	7583.0	9538.0	8555.8	-0.1	0.4	192
53057.5	50723.5	48490.8	52117.0	-0.1	0.1	495
43656.7	35507.8	38845.2	39617.0	-0.1	0.4	324
7031.3	7178.8	6153.3	7009.3	-0.1	0.3	355
24055.6	21376.6	20808.6	22283.0	-0.1	0.3	179
14288.6	12807.9	12310.8	14294.0	-0.1	0.3	586
117089.3	103934.1	113799.9	106380.0	-0.1	0.1	202
30043.1	28562.7	27166.0	28709.0	-0.1	0.0	4782;4845
7349.3	7492.6	7887.9	7961.4	-0.1	0.4	1138
21670.8	20386.7	22390.2	20824.0	-0.1	0.3	343
54193.5	49476.2	49052.9	52380.0	-0.1	0.3	1766

Baz2b	0.512743	1.49E-08	47.806	T(0.001)PGS(0.001)QAPALPS(0.47	3	-0.13849	4546.3	4331.2
Rgs3	0.802346	1.31E-25	109.5	KMS(0.802)GT(0.198)DLADDVEAS	2	0.43174	26588.4	24690.5
Arhgap32	0.803859	7.35E-49	121.25	SAKS(0.002)EES(0.078)LT(0.804)S(	4	-0.0018051	51868.4	49131.9
Plekha5	0.798086	0.00286991	80.755	HSCLS(0.202)S(0.798)PK	3	0.66245	18477.0	14880.7
Bclaf1	1	6.37E-33	131.09	KAEGEPQEEES(1)PLK	2	0.80422	437057.4	444250.5
Zfp423	0.901324	0.0209804	45.603	GAQT(0.099)S(0.901)PVPR	2	-0.26524	16975.4	14255.5
Stim2	0.960189	3.08E-20	75.695	RAS(0.96)GS(0.039)AGAAASPSAA/	2	0.80736	24494.1	26930.4
Pbxip1	0.956912	3.26E-07	81.185	NIHPQNLPS(0.043)S(0.957)PR	3	-0.30775	44888.9	44327.4
Mprip	0.549682	1.81E-07	57.366	S(0.55)ERLS(0.354)T(0.096)HELT(C	3	0.28481	9358.5	8899.4
Acox3	0.997413	2.61E-06	72.898	RDS(0.997)VLWS(0.003)DIPK	3	-0.3438	31295.9	33550.2
Map2	0.999874	4.06E-135	138.29	VADVVPSEATTVLGDVHS(1)PAVEG	4	-0.31077	40751.5	41191.3
Prph	0.999667	1.65E-36	101.3	T(1)FGPPPSLSPGAFSYSSSSR	3	0.13931	3226.4	3211.5
Cstf3	1	5.37E-07	78.69	RPNEDS(1)DEDEEK	3	0.48276	13847.0	13825.5
Smarca2	1	8.00E-11	66.826	GRPPAEKLS(1)PNPPK	4	-0.99614	29515.2	29843.8
Ptprc	1	5.40E-34	114.63	KANS(1)QDKIEFHNEVDGAK	4	0.082782	207084.9	191422.6
Casc3	1	0.000541307	104.82	VES(1)GGAK	2	0.37367	77198.6	77302.9
Add2	0.999908	1.13E-05	61.409	EEEPS(1)VEEVLSK	3	-0.3572	8001.0	6622.0
Abca2	0.771146	1.30E-15	63.625	KDALPGAEGTL(0.229)AVES(0.771)	3	0.62326	6255.1	5765.3
Mapt	0.840638	5.43E-17	95.5	VAVVRT(0.944)PPKS(0.841)PS(0.1	2	0.1273	119840.4	114221.7
Arfgef1	0.654072	6.56E-33	78.976	ACEVALEEIKVET(0.654)EKQS(0.34)	4	-0.36352	17884.2	18746.3
Stim2	0.820578	6.83E-07	43.841	GDS(0.16)PVT(0.218)ADVS(0.821)	3	1.8411	24075.4	22474.7
Scn11a	0.99081	6.15E-102	160.07	TAQASAS(0.008)DS(0.991)EDDAS(	4	-0.57081	90427.8	83298.6
Arfgef2	0.801509	0.000106712	45.82	PQS(0.006)PVIQAT(0.193)AGS(0.8	3	0.1397	12204.7	11949.8
Prx	0.699042	7.90E-09	48.614	MPTVTVPQLELDVGLGHEAQAGET(	4	-1.5802	7640.5	6878.4
Rtn4	0.885356	0.000811475	42.58	RGS(0.885)GS(0.114)VVDLLY(0.0	3	-0.64789	2964.3	3344.7
Whsc111	0.963368	0.0260176	67.207	T(0.016)RS(0.963)ES(0.02)EK	2	0.18829	12891.7	12333.7
Polr2a	0.741851	0.0377077	59.931	Y(0.089)S(0.742)PT(0.154)S(0.016	2	-0.647	32225.0	31735.9
Pde2a	0.999496	3.63E-05	42.185	RLS(0.999)CDGLGPS(0.001)DLLGK	3	1.9032	13365.2	13022.6
Exoc8	0.999278	4.20E-09	49.66	GS(0.001)NPFEDAEELAT(0.999)	4	0.53883	4826.4	5484.9
Rilpl1	0.814853	0.000188211	84.734	T(0.185)S(0.815)PQPESGIK	2	-0.64019	51071.7	51258.8
Bclaf1	0.993613	1.56E-09	78.324	ELFDY(0.006)S(0.994)PPLHK	3	-0.0149	95550.3	94460.8
Slc4a7	1	0.0189857	70.552	S(1)FADIGK	2	0.042327	28915.3	28062.4
Slc16a7	0.958324	0.022037	57.532	QDS(0.958)S(0.039)T(0.002)KR	3	-0.96994	4617.3	4487.4
Ppapdc3	0.999952	3.85E-27	83.992	RQS(1)QQLPEEDCMQLNPSFK	3	0.45683	49077.6	45958.5

3930.9	3876.4	3857.8	4344.2	-0.1	0.4	569
23171.9	24070.4	21561.0	24577.0	-0.1	0.4	777
52421.9	45907.9	50291.5	48483.0	-0.1	0.1	362
17744.4	15773.4	15470.8	16947.0	-0.1	0.5	304
436439.3	403410.2	409974.5	429300.0	-0.1	0.0	175
16740.4	14055.3	15435.5	15748.0	-0.1	0.4	1187
25252.2	24430.1	23850.0	24029.0	-0.1	0.1	28
41284.7	38839.6	45079.7	39149.0	-0.1	0.3	145
8953.3	8626.0	8487.3	8548.1	-0.1	0.0	766;789
32424.7	29669.2	32350.0	29713.0	-0.1	0.2	10
43203.2	40251.9	37382.2	40387.0	-0.1	0.1	479;393
3101.7	3032.8	3053.0	2910.9	-0.1	0.0	26
14484.5	12480.1	13049.2	14229.0	-0.1	0.2	743
29102.0	26115.2	28014.5	29299.0	-0.1	0.2	1268
203697.9	184386.2	196470.2	187130.0	-0.1	0.1	1077
78164.9	71418.2	69542.0	78487.0	-0.1	0.2	65
7997.8	6962.1	7324.2	7050.5	-0.1	0.4	656
6004.5	5840.8	5541.2	5619.8	-0.1	0.1	1285
116184.4	115275.8	104565.7	110530.0	-0.1	0.1	480;564
16415.7	15601.8	16973.3	17461.0	-0.1	0.3	48
24350.5	22257.7	21917.9	22702.0	-0.1	0.1	644
76203.9	79120.1	80829.0	75802.0	-0.1	0.3	479
12564.9	10879.9	11921.8	11835.0	-0.1	0.1	227
7089.8	6253.7	6854.1	7275.4	-0.1	0.3	1167;1167
2448.8	2840.9	2924.7	2496.0	-0.1	0.6	315
12058.1	11077.7	11439.8	12654.0	-0.1	0.3	592
29927.1	29554.8	28705.9	30311.0	-0.1	0.1	1833
13514.6	12756.2	12175.1	12712.0	-0.1	0.0	97
5105.0	5029.2	4902.8	4611.7	-0.1	0.3	313
53981.6	48152.9	45118.1	54199.0	-0.1	0.4	349
92459.9	89113.2	87416.1	89967.0	-0.1	0.0	510
30916.1	26559.6	28329.7	28034.0	-0.1	0.2	238
4892.9	4810.5	3877.0	4518.7	-0.1	0.4	223
46519.5	44999.4	45039.1	43517.0	-0.1	0.1	62

Trpm3	0.772264	1.34E-08	131.42	AT(0.002)S(0.772)S(0.223)HS(0.00	2	0.47383	15297.3	14742.5
Map1a	1	4.55E-71	104.39	EES(1)EAEVKEDVIEK	3	-1.3576	116011.9	113179.7
Vwa5a	0.97833	0.0042806	54.784	S(0.022)NS(0.978)QNEHK	3	-0.5292	5057.1	4164.9
Cdk13	0.990162	3.24E-23	130.47	LYSSEES(0.01)RPYT(0.99)NK	4	0.74822	58119.3	58625.7
Prpf4b	0.986972	0.00171235	50.897	S(0.987)PS(0.012)KDAS(0.001)SGK	3	-0.60142	24114.8	25226.8
Braf	0.843948	3.72E-08	54.834	AGFQT(0.001)EDFS(0.108)LY(0.04	4	-0.30542	4802.2	4529.1
Zdhhc5	0.505742	0.007011	47.429	T(0.506)S(0.465)S(0.027)S(0.002)S	3	0.50171	9876.3	8545.4
Map3k8	0.996199	0.00585726	58.172	S(0.004)IGS(0.996)GFVPR	2	0.64569	17050.5	15161.6
Zfpm1	0.557521	5.07E-06	41.672	APAGVAAEPDPPRS(0.558)S(0.442	3	0.78945	5409.6	5549.7
Osbp2	0.923238	1.96E-06	78.705	IVHS(0.07)S(0.923)PS(0.005)S(0.0	3	0.96121	10758.7	9963.2
Stmn2	1	4.99E-05	84.753	RKS(1)QEAQVLK	4	0.53006	49720.4	45474.8
Pex5l	0.991213	1.63E-15	106.29	S(0.991)PVDS(0.004)S(0.004)VLEC	2	1.5058	88932.1	88732.7
RGD13099	0.788393	2.84E-12	60.621	SDVS(0.003)DIGS(0.788)DNCS(0.2	3	-1.4423	5145.5	3911.3
Inpp5j	0.994604	0.0002019	65.043	APSGGPS(0.995)PS(0.005)GR	2	0.17364	3503.9	3629.5
Scn9a	0.961332	9.83E-11	66.152	AS(0.009)ILT(0.961)NT(0.03)VEELI	3	0.16086	1945.0	1812.2
Hsd17b4	0.593388	9.70E-09	45.941	IDS(0.001)EGIS(0.021)QNHT(0.59	5	-0.58963	1243.0	1162.7
Srrm2	0.986728	1.57E-43	134.32	NSGPVLEVNT(0.013)DFS(0.987)PE	4	-0.70138	37762.6	37687.8
Abcf1	0.985501	5.30E-26	78.976	NKPS(0.001)AT(0.013)DS(0.986)E	3	0.69659	67883.7	68716.2
Prph	0.879446	6.47E-05	72.928	SSISS(0.001)T(0.004)S(0.116)Y(0.8	2	0.99953	6472.8	7144.0
Ap3b2	0.988917	0.00138535	81.017	KKT(0.989)PPS(0.011)SK	3	0.72639	46383.3	44540.2
Cdk14	0.999803	6.10E-05	97.463	ADS(1)YEKLEK	2	-0.20608	231916.5	215390.2
Ndrp4	0.97874	2.89E-07	65.773	LS(0.002)GGAVPS(0.979)AS(0.018	2	-0.6859	15842.4	13963.7
Snrnp70	0.999957	6.05E-19	69.704	GGGGS(1)GQDNGLEGLGSDGR	3	0.19852	19148.5	18788.0
Rtn4	0.858798	5.51E-43	96.793	AS(0.001)IS(0.129)PS(0.859)NVS(C	2	0.086865	139197.6	146602.7
Cir1	0.851275	2.64E-10	98.654	SRPHQS(0.149)PS(0.851)EEQK	4	0.89302	17755.4	18285.6
Mad1l1	0.974385	2.65E-29	78.098	AILGSYDSELTQAEYS(0.974)PQLT(C	3	0.58714	5510.2	5595.7
Mapk8ip2	1	0.0226925	55.806	S(1)PVQEPLK	2	1.1319	15854.3	15402.9
Camkk2	0.718347	1.03E-35	100.39	CICPS(0.006)LS(0.234)Y(0.066)S(0	3	1.708	23445.7	22239.9
Cbl	0.999738	2.51E-34	100.44	ELTNRHS(1)LPFSLPSQMEPR	3	0.20782	20808.7	21958.0
Sec16a	0.968474	1.58E-13	109	APS(0.968)LT(0.032)PDSEGK	3	0.33965	29970.8	28003.1
Sdc2	0.982416	5.20E-05	104.24	KPS(0.982)S(0.018)AAYQK	2	-0.30566	155084.1	133461.6
Herc1	0.865954	0.00381162	60.641	TALS(0.866)DPS(0.13)S(0.004)R	2	-0.7374	20142.0	19979.2
Chga	1	8.35E-10	78.249	QQEEEEEEERLS(1)R	3	1.2346	5860.7	5563.1
Spire1	0.953028	4.38E-13	75.911	LDVT(0.008)T(0.039)PES(0.953)PK	3	1.7448	38442.4	39245.4

13632.7	12771.6	13744.9	14688.0	-0.1	0.3	1383
124712.2	112558.9	107505.6	113850.0	-0.1	0.2	881
4495.7	4543.3	4247.1	4152.5	-0.1	0.4	679
53944.3	53188.6	51122.9	56739.0	-0.1	0.2	871
23631.9	22583.3	22019.4	24251.0	-0.1	0.2	328
4767.4	4543.1	3991.8	4767.8	-0.1	0.3	740;728
9254.0	8520.4	9052.3	8540.6	-0.1	0.3	583
17147.1	15001.3	16169.7	15403.0	-0.1	0.3	141
4942.1	4499.4	4965.2	5539.5	-0.1	0.4	501
8983.7	9858.5	9017.2	9154.4	-0.1	0.4	748
46612.2	47479.8	43786.6	42547.0	-0.1	0.2	97
87545.5	81750.1	83463.2	85047.0	-0.1	0.0	423
4401.3	3760.5	4358.8	4580.8	-0.1	0.6	628
3737.3	3190.4	3599.8	3468.2	-0.1	0.2	682
1899.3	1795.5	1881.2	1661.5	-0.1	0.2	696
926.6	897.7	1272.9	974.4	-0.1	0.7	312
41829.8	34755.4	35321.9	40614.0	-0.1	0.4	1306
60917.7	62116.9	60507.7	63799.0	-0.1	0.2	197
6454.8	6130.2	6523.3	6290.9	-0.1	0.2	23
41340.0	39545.8	44252.5	41038.0	-0.1	0.3	836
223691.9	204350.5	213429.6	215610.0	-0.1	0.1	134
16393.4	13726.4	14433.1	15452.0	-0.1	0.4	304
16869.3	17175.9	17418.9	17141.0	-0.1	0.2	411
153138.1	139309.9	142482.3	132560.0	-0.1	0.2	924
20062.1	16679.8	16302.2	19979.0	-0.1	0.5	428
5935.2	5212.9	5825.0	5049.2	-0.1	0.3	428
20042.9	16345.4	14567.8	17516.0	-0.1	0.6	176
22284.0	21641.7	21033.0	21492.0	-0.1	0.0	131
20842.5	19675.0	20587.4	19791.0	-0.1	0.1	618
28049.1	25911.8	27167.1	28136.0	-0.1	0.2	2089
151754.1	127661.3	138421.4	149610.0	-0.1	0.4	197
19728.9	17909.5	20188.8	18407.0	-0.1	0.2	2736
7075.8	5546.8	5960.0	5959.5	-0.1	0.5	352
38763.6	37060.9	36561.5	36328.0	-0.1	0.0	387



Tjp2	0.999742	0.00480427	90.601	SFS(1)PEER	2	0.27607	50870.2	53318.8
Larp7	0.972102	7.15E-36	102.43	T(0.005)AS(0.016)EGS(0.972)EAET	4	-1.8631	44931.8	44229.8
Taf6	0.991697	1.50E-17	95.429	QET(0.008)GDS(0.992)PPPAPGTP†	3	0.44212	17812.7	16303.4
Spata6	1	0.0156959	44.863	VIRS(1)PHGR	3	0.46206	14336.0	15532.3
Als2	0.992418	2.36E-06	82.578	QHKDS(0.992)PEILS(0.008)R	3	-0.24179	21228.5	21513.8
Ccdc141	0.5	0.00520051	72.478	KNS(0.5)S(0.5)AEK	3	1.9676	25148.8	23494.8
Dab2ip	0.940428	0.000498647	69.276	LPS(0.94)PT(0.06)PENK	2	-0.17079	22061.0	20948.9
Zfpm1	0.768292	0.000110201	47.548	AS(0.151)S(0.768)PVS(0.067)AT(0	3	-0.509	36086.9	35000.4
Map7d2	0.999758	9.39E-09	92.773	TVKPTYIGS(1)PVK	4	-1.0723	56587.9	55660.7
Clip2	0.798874	5.59E-05	70.942	IGFPS(0.088)T(0.799)S(0.113)PAK	3	-0.62582	33520.3	32393.0
Efcc1	0.89537	0.0010851	44.252	LGEQLQT(0.895)LGCS(0.105)R	3	-0.2007	2472.1	2204.0
Map1b	0.548647	2.24E-101	136.24	T(0.002)LEVVS(0.387)PS(0.549)QS	3	-0.95875	56810.9	61131.1
Mast3	0.949039	4.76E-05	115.65	S(0.004)LS(0.046)S(0.949)NPS(0.0	2	-0.15009	23027.1	24001.6
Brsk2	0.949032	1.24E-54	88.454	GT(0.001)PVHT(0.03)PKES(0.949)†	4	0.38601	10846.9	11264.2
Akap12	0.998105	7.82E-29	141.86	RPS(0.998)ES(0.002)DKEEELEK	4	0.13389	175765.2	165447.7
Wfs1	0.519549	0.00234266	53.448	S(0.24)AGEAT(0.52)T(0.241)PEPR	2	0.63451	3840.0	4277.6
Fam110a	0.953794	0.0163063	44.543	S(0.044)KS(0.954)DLS(0.002)ER	2	0.3154	45333.7	46368.8
Gpr153	0.886906	5.79E-07	52.769	S(0.887)AES(0.113)LLSLQPSSLDGC	3	0.77414	7937.6	8584.0
Vcl	0.758903	1.08E-05	79.16	S(0.073)LGEIAALT(0.168)S(0.759)†	2	0.56444	46398.8	44785.9
Trim9	0.564671	3.26E-05	48.528	NILVQT(0.211)PES(0.204)ES(0.565	3	0.62477	4197.3	4710.0
Hspa4	0.996201	1.82E-10	63.185	ELT(0.001)NICS(0.996)PIIS(0.003)†	4	1.3822	4255.2	4124.2
Akirin1	0.94655	8.43E-05	43.463	RPMEFEAALLS(0.053)PGS(0.947)P	4	-0.30454	3490.6	4061.5
Akap12	0.998236	1.01E-30	89.831	T(0.002)EPAS(0.998)EEQEPAEDTD	3	0.82254	7682.3	7060.0
Arvcf	0.87975	5.46E-05	74.611	AHFQS(0.02)AS(0.88)T(0.1)AK	3	0.35657	15178.0	13404.3
Potef	0.529973	7.01E-09	46.953	HQGVMMVGMGQKDS(0.53)Y(0.468	4	-0.93069	13898.3	15309.6
RGD13072	0.988488	1.54E-20	106.35	AGSIS(0.001)T(0.011)LDS(0.988)LI	2	-1.4683	27913.5	26800.9
Hic1	0.999975	1.11E-12	62.589	ELPPRPDS(1)PPGAGPAVYK	3	-1.683	42390.2	42161.0
Kctd1	0.578927	3.32E-15	58.373	S(0.006)T(0.006)NS(0.075)PT(0.29	3	2.6502	14305.0	14625.2
Ppp1r7	1	2.72E-71	164.53	RVES(1)EES(1)GDEEGKK	4	-1.0702	754167.0	743828.9
Ulk3	0.574819	2.39E-13	64.069	ESHWEAES(0.002)LDKEGLS(0.575)	4	0.93643	10086.3	10672.9
Arhgef26	0.55508	8.27E-107	123.35	TDSSGPVS(0.018)QT(0.555)GQS(0	4	1.4042	11401.5	11113.9
Rbbp5	0.781793	5.86E-05	62.162	QS(0.216)S(0.782)ADGS(0.003)QP	3	-2.1555	6145.6	5966.2
Sh3kbp1	0.999293	1.91E-13	69.979	ELSGES(0.001)DELGIS(0.999)QDEC	3	4.0199	12570.8	11647.0
Hoxc10	0.985559	3.70E-05	70.438	AS(0.986)PS(0.014)ESEKER	3	-2.7057	7842.1	7737.7



49942.4	47630.5	49265.6	48631.0	-0.1	0.1	395;422
40835.4	39590.8	43405.1	39746.0	-0.1	0.2	257
18419.4	15973.6	16783.1	16850.0	-0.1	0.2	653
13900.0	14004.7	12903.9	14420.0	-0.1	0.3	307
22501.2	20321.8	20214.5	21071.0	-0.1	0.1	1329
25903.8	25431.1	22816.6	22145.0	-0.1	0.3	1092
21411.0	19273.5	20156.8	21401.0	-0.1	0.2	674
32979.4	32328.9	31698.1	34244.0	-0.1	0.2	131
52021.6	50668.5	54118.3	50338.0	-0.1	0.2	341
28273.7	30110.3	28897.2	29936.0	-0.1	0.3	294
2023.9	2325.1	1890.3	2111.6	-0.1	0.5	443
63126.9	56750.2	56423.3	57816.0	-0.1	0.2	1317;1191
20760.5	19928.0	22231.0	21859.0	-0.1	0.4	921;946
10148.4	9702.9	10209.5	10554.0	-0.1	0.2	615
203453.1	161199.1	172019.6	181180.0	-0.1	0.5	614
4254.6	3939.4	3876.4	3868.9	-0.1	0.2	60
43595.0	42958.9	41343.7	43479.0	-0.1	0.1	190
8303.4	7478.2	7793.9	8174.4	-0.1	0.2	417
45643.3	40354.2	41750.8	47126.0	-0.1	0.3	443
4666.8	4165.9	4825.5	3829.1	-0.1	0.5	46
4314.4	4441.4	4064.2	3483.7	-0.1	0.5	780
3674.5	3483.2	3372.0	3748.4	-0.1	0.4	22
8005.7	6730.9	7500.0	7255.0	-0.1	0.3	335
15123.2	14171.9	13491.6	13618.0	-0.1	0.3	784
14901.8	13719.8	14454.5	13489.0	-0.1	0.2	52;54
26017.7	25296.9	26363.4	24595.0	-0.1	0.1	186
47939.8	42205.5	39382.7	43560.0	-0.1	0.3	223
15987.7	13687.9	14069.8	14671.0	-0.1	0.2	591
746090.5	673362.3	703050.1	743320.0	-0.1	0.1	27
10997.8	9384.5	10289.9	10323.0	-0.1	0.2	462
13818.0	10386.1	12538.4	11396.0	-0.1	0.6	187
5654.2	5202.5	5672.3	5907.2	-0.1	0.3	441
12147.6	10513.3	11579.8	12258.0	-0.1	0.3	115
8187.0	6849.7	7184.7	8416.5	-0.1	0.4	226

Zfp354c	1	2.78E-05	71.176	AHEPGAAS(1)PK	3	-0.42536	14692.6	13940.7
Parp4	0.776202	6.77E-07	50.358	DVNEVPLANAPS(0.776)IS(0.224)E	3	-0.68751	14562.6	14333.4
Snap47	0.99663	2.97E-09	78.69	GRAS(0.997)PAEGGCS(0.003)IR	2	0.50937	3697.3	3701.1
Ppp6r2	0.715495	8.28E-17	92.38	NVPGLAT(0.023)PS(0.715)S(0.251	3	0.71263	4997.2	4262.4
Srrm2	0.995603	0.000310993	82.705	RVPS(0.996)PT(0.004)PVPK	2	-0.55042	22733.7	20840.3
Itsn1	0.5	2.26E-05	48.907	LPEEPS(0.5)S(0.5)EDEQQVEKK	4	-0.30463	29386.4	28575.7
Cacul1	0.966546	3.57E-12	63.606	AGDELAY(0.012)NS(0.967)PS(0.02	3	-0.32226	13073.0	13203.6
Eef1d	0.999725	0.0137081	57.174	S(1)RNTVGNK	2	0.1747	19415.6	20332.4
Sdpr	0.993874	1.94E-87	107.72	LEEQVQDDHEEGS(0.994)FT(0.005	4	0.29605	68435.9	58375.6
Dkc1	0.996558	2.90E-30	86.946	KRDS(0.999)DS(0.997)DADEAT(0.(	3	0.81987	50713.9	48099.7
Dido1	0.953043	1.22E-12	68.41	LGPVS(0.953)PAPS(0.047)QPNSQI	3	0.11867	13175.5	13824.4
Rictor	0.828589	2.32E-17	70.538	SNSVS(0.002)LVPPGS(0.098)S(0.0	3	0.16489	2358.2	3085.1
Leo1	0.672174	0.00803026	46.88	GS(0.672)DS(0.328)EDEVLR	2	-0.78193	9382.1	8916.2
Ssfa2	0.75703	7.73E-05	89.301	EGS(0.243)GES(0.757)DMDK	2	-1.5688	12263.1	11778.7
Bcr	0.868861	9.67E-05	88.075	S(0.008)QS(0.093)T(0.869)S(0.03)	2	0.54742	5131.9	2732.7
Phactr2	0.782492	1.20E-09	66.809	ASIANS(0.005)DGPPAGS(0.782)QT	2	-0.21035	6597.4	6421.4
Baz1b	1	1.97E-17	152.04	RQS(1)LELQK	2	-0.157	55320.1	57767.9
Acin1	1	4.00E-41	126.91	GES(1)DDEKPR	3	0.3195	97288.1	95879.1
Raver1	1	2.05E-21	88	T(1)PEQELPLDPEEIRK	4	0.026277	37066.1	36927.6
Srrm2	0.78162	5.27E-07	96.135	REIS(0.782)S(0.354)S(0.621)PT(0.2	2	0.017114	130300.2	124730.2
Itpkb	0.989294	5.98E-06	73.219	VLAPCS(0.989)PS(0.011)EER	3	0.79462	69969.7	69384.3
Hs1bp3	0.996488	0.00324586	56.177	S(0.996)PGAT(0.002)GFAT(0.001)I	2	-0.53463	26019.5	28089.8
Alad	0.5	0.00139484	40.724	DAAQS(0.5)S(0.5)PAFGDRR	3	0.40062	28973.8	25213.7
Alad	0.5	0.00139484	40.724	DAAQS(0.5)S(0.5)PAFGDRR	3	0.40062	28973.8	25213.7
Scaf1	1	0.0041018	49.842	S(1)PFLKPDER	3	0.31185	18900.4	16880.4
Sptb	0.991955	1.95E-52	124.2	ELPEDVGLDAS(0.004)T(0.004)AES	3	-0.028326	7052.2	7719.4
Cdkn2aip	0.853488	1.49E-29	118.55	GIS(0.123)S(0.853)S(0.024)NEGVE	3	-0.31699	9176.5	8672.8
Tanc2	0.720571	3.43E-08	59.728	DCS(0.001)Y(0.005)GAVT(0.721)S(	3	-0.42812	25070.1	21398.6
Immt	0.519047	0.00615089	60.91	AHS(0.465)S(0.519)T(0.016)LK	3	0.75358	3250.6	3507.9
Pde4b	0.939868	4.68E-05	54.023	QNDVEIPS(0.94)PT(0.06)QK	3	-0.22097	6690.6	7750.5
Map1a	0.63817	1.68E-17	59.793	DLWPMVS(0.001)PEDT(0.012)QS(	4	0.24977	7938.2	8266.9
Tjap1	0.890019	0.000301547	80.96	SGQEVAS(0.89)PS(0.11)R	2	-0.16506	4301.0	4147.9
Cobl	0.938411	1.46E-29	81.06	SASGGDLNGCVT(0.026)T(0.012)PI	3	0.91202	12867.8	12420.4
Cabin1	0.662777	5.54E-15	87.676	GKT(0.002)EES(0.301)LES(0.663)T	3	-1.3798	19767.5	20252.3

14555.8	13255.6	13127.2	14415.0	-0.1	0.2	151
14696.3	12906.9	13846.4	14426.0	-0.1	0.2	1202
4174.7	3583.6	3898.2	3450.8	-0.1	0.4	318
4465.0	4308.2	4494.8	4162.0	-0.1	0.3	668
21606.9	19215.2	21520.4	20839.0	-0.1	0.2	2538
30883.1	26986.4	28049.8	28894.0	-0.1	0.1	334
12505.3	11852.1	11917.5	12867.0	-0.1	0.1	336
26198.7	19599.1	22556.9	20144.0	-0.1	0.6	284;289
71062.7	59705.8	59189.0	68038.0	-0.1	0.5	326
50639.7	45607.6	51104.7	44483.0	-0.1	0.3	454
14194.9	11967.6	14466.2	12486.0	-0.1	0.4	620
2834.5	2709.6	2703.5	2407.6	-0.1	0.6	1242
10240.3	7984.1	9963.5	9015.5	-0.1	0.5	289
11924.0	11501.2	10111.3	12369.0	-0.1	0.4	644
2805.3	2598.7	4923.7	2559.5	-0.1	0.9	235
7609.8	6507.6	6209.7	6774.7	-0.1	0.4	34
53640.9	51407.7	54864.2	51273.0	-0.1	0.1	1335
100331.9	92179.9	91262.2	93901.0	-0.1	0.0	110;216;216
37401.9	34165.8	33836.5	37262.0	-0.1	0.1	31
126564.6	116518.7	121804.0	122270.0	-0.1	0.0	451
70353.7	64850.3	66481.4	66840.0	-0.1	0.0	200
27656.2	25489.4	26320.7	25460.0	-0.1	0.1	139
25150.0	25938.1	26011.9	23026.0	-0.1	0.4	214
25150.0	25938.1	26011.9	23026.0	-0.1	0.4	215
18982.6	17118.7	17443.5	17191.0	-0.1	0.2	823
6812.5	6810.1	7380.6	6207.4	-0.1	0.4	1833
7461.8	7878.9	7832.3	8208.9	-0.1	0.4	125
26426.5	22811.0	22469.3	23611.0	-0.1	0.4	242
4111.0	3161.6	3482.6	3628.5	-0.1	0.5	175
7740.3	7379.2	6906.9	6677.9	-0.1	0.4	275
8909.9	8015.1	7822.0	7900.0	-0.1	0.2	1429
4292.6	3679.9	4266.5	4096.2	-0.1	0.3	163
14067.1	11816.9	11871.6	13508.0	-0.1	0.4	278
20611.5	19673.9	19190.7	18441.0	-0.1	0.1	1442

Hid1	1	1.89E-28	143.43	AGS(1)QEGASMEGSR	3	0.71801	19047.1	20683.4
Tmx1	0.845958	2.56E-07	67.707	EGES(0.149)KDT(0.846)PQS(0.005	3	-0.69001	30282.1	27549.0
Tbc1d13	0.983059	5.16E-12	104.41	SGVTNMS(0.017)S(0.983)PHK	2	-0.84477	66428.7	64155.3
Ralgps2	0.528371	8.81E-06	45.14	KS(0.472)S(0.528)AAEGALLPQT(0.	3	1.9603	7125.4	7225.6
Map1b	0.59941	2.61E-107	128.03	TPGDFNYAYQKPES(0.202)T(0.599)	4	-0.032078	84334.4	76751.1
Map1b	0.599383	2.61E-107	128.03	TPGDFNYAYQKPES(0.202)T(0.599)	4	-0.032078	84334.4	76751.1
Ep400	0.917611	7.07E-14	68.528	LKGFDT(0.082)S(0.918)PEHSMDLC	3	-2.2294	17025.5	15927.2
Zmynd8	0.563824	0.00141311	92.943	S(0.436)NS(0.564)PVGEK	2	0.4876	45661.7	46985.2
Kif1a	0.923226	3.40E-15	54.003	DPS(0.073)MS(0.923)PLGAAT(0.0	3	0.021084	16210.9	16506.4
C2cd5	0.822782	1.91E-21	80.585	LS(0.177)S(0.823)PAAFLPACNSPSK	3	-1.1379	6818.0	6734.4
Eps15l1	0.905638	7.28E-08	52.185	GTPIPDS(0.001)S(0.001)S(0.004)A	3	0.90506	16040.3	15538.9
Kctd18	0.826245	5.59E-20	60.288	AAQCSVATGAS(0.001)GHAPAS(0.0	5	1.0503	11235.8	9595.5
Rgs7	0.568746	7.76E-80	153.1	S(0.059)HS(0.356)PT(0.569)HT(0.0	5	-0.069367	18342.2	18284.5
Camlg	0.757494	0.000120666	47.506	SATPS(0.002)GLS(0.24)AS(0.757)C	3	0.56074	2467.1	4687.6
Smg9	0.769938	3.57E-18	76.051	AGPGS(0.23)S(0.77)PLFSLPGYR	3	2.3901	3673.7	3415.5
Gcn1l1	0.999247	3.31E-07	62.861	SIQS(0.001)AQQDS(0.999)IKK	4	-0.37668	9237.5	10786.7
Stat2	0.910944	1.78E-07	71.502	T(0.044)S(0.044)S(0.911)LDPHQ(S	3	-0.58677	24170.8	22005.2
Sox6	0.5	0.00108787	61.958	T(0.5)S(0.5)PVNLPNK	3	-0.46913	6168.5	5331.8
Sox6	0.5	0.00108787	61.958	T(0.5)S(0.5)PVNLPNK	3	-0.46913	6168.5	5331.8
Hdac1	1	1.09E-107	124.19	MLPHAPGVQMQAIPEDAIPES(1)C	6	-0.057313	283010.9	273219.5
Anapc1	0.90399	3.27E-05	48.527	SFDFEGS(0.096)LS(0.904)PVIAPK	3	-0.2061	5192.4	4209.2
Brsk1	0.577071	4.35E-07	61.276	S(0.512)S(0.577)GGT(0.785)PLHS(	2	1.8569	9370.0	8531.4
Uhrf1bp1	0.998525	1.14E-12	61.477	DSS(0.001)AENLDAS(0.999)QER	2	-1.4896	14393.3	12557.5
Klhl22	0.996387	5.70E-11	90.793	S(0.996)LLHEQPRGT(0.004)PNR	4	-0.98388	4987.0	6206.5
Tex2	0.963969	2.26E-08	91.032	HS(0.013)S(0.964)PS(0.015)GHLS(	2	-0.5228	4279.8	5420.3
Srrm2	0.691804	7.79E-05	80.905	S(0.305)S(0.692)RS(0.635)S(0.367	2	-0.31569	22934.0	27067.5
Sec31a	0.999997	4.66E-66	148.2	VAQSDGEES(1)PAEEGQLLGER	3	-1.0004	65380.3	61624.7
Cep170	0.539298	1.93E-58	116.05	S(0.44)S(0.539)PVNNHS(0.545)S(C	3	-0.53138	23907.3	23841.4
Pdia4	0.95541	9.50E-22	71.06	DLGLS(0.044)ES(0.955)GEDVNAAI	3	0.147	45202.6	43881.0
Emd	0.741017	0.00053348	43.794	DDIFS(0.053)S(0.206)S(0.741)EEE(	3	-0.048494	48373.9	44190.3
Zfhx3	0.962669	1.73E-21	71.678	AS(0.012)GAS(0.963)PGENDS(0.02	3	-0.36099	2221.2	2567.7
Kdm5b	0.505546	0.00746358	40.496	S(0.234)S(0.099)PVRPS(0.506)S(0.	3	-2.8277	21932.2	22434.1
Acin1	0.869523	0.0166454	59.367	IS(0.87)VVS(0.121)AT(0.01)K	2	-0.89836	15261.5	15151.7
Thrap3	0.812736	0.000592381	70.675	AS(0.163)VS(0.813)DLS(0.024)PR	2	-0.15653	14873.9	12905.2

19019.8	17811.6	17803.6	19913.0	-0.1	0.3	592
29575.8	26667.4	29172.9	26774.0	-0.1	0.2	259
60809.2	57161.6	61127.5	62612.0	-0.1	0.2	184
7820.8	7271.1	7036.5	6648.9	-0.1	0.2	316
92169.3	80501.7	77890.2	80983.0	-0.1	0.4	1871;1745
92169.3	80501.7	77890.2	80983.0	-0.1	0.4	1872;1746
15978.1	15572.1	15949.5	14729.0	-0.1	0.2	850
51887.5	42867.6	41787.2	51967.0	-0.1	0.5	649
16410.4	16653.4	14877.7	14908.0	-0.1	0.2	1503
6311.2	6137.3	6386.9	6252.3	-0.1	0.1	250;250
16311.4	16228.8	14628.7	14414.0	-0.1	0.2	377
11162.8	9567.9	11027.3	9649.2	-0.1	0.5	348
13566.7	16502.7	15135.2	15812.0	-0.1	0.6	243
4495.5	2369.5	3778.1	4865.8	-0.1	0.8	23
3475.3	3548.6	3649.3	2789.3	-0.1	0.5	451
9750.5	8658.7	9160.5	10329.0	-0.1	0.5	786
25333.2	20968.5	23684.4	22950.0	-0.1	0.4	192
6190.0	5567.0	5568.3	5588.8	-0.1	0.3	414
6190.0	5567.0	5568.3	5588.8	-0.1	0.3	413
294096.7	255443.6	263185.6	285260.0	-0.1	0.2	393
4791.5	4328.8	4585.4	4504.3	-0.1	0.4	688
8580.2	8505.3	8070.1	8460.9	-0.1	0.2	422
15047.6	12183.2	14269.6	13254.0	-0.1	0.5	942
4892.5	5261.2	4988.8	4958.2	-0.1	0.5	596
5282.3	4847.9	4684.3	4632.9	-0.1	0.5	733
23574.4	23586.4	22246.0	23731.0	-0.1	0.4	1650
59829.7	59752.0	59794.9	57099.0	-0.1	0.1	531
23026.1	23363.1	22063.2	21489.0	-0.1	0.1	1557
42090.6	38663.6	42466.8	42893.0	-0.1	0.2	468
46798.5	44128.2	40931.2	46707.0	-0.1	0.3	144
2340.8	2421.7	2321.8	1997.7	-0.1	0.5	2616
24184.4	20591.2	19557.3	24668.0	-0.1	0.5	1383
16869.3	14214.8	15074.3	15420.0	-0.1	0.3	720;826
16958.7	13548.2	13804.7	14950.0	-0.1	0.6	240

Syt9	1	3.32E-05	48.034	QLNLS(1)NPDFNIQQLQR	3	0.43469	8555.9	10487.8
Srrm1	0.999988	2.93E-16	140	KAAS(1)PS(1)PQSVR	3	-0.89041	284537.5	295629.5
Rims1	0.999333	2.22E-42	85.337	RHS(0.999)DVALPHT(0.001)EAAA/	5	-0.037598	17892.6	18187.9
Des	0.998966	1.44E-106	171.84	TFGGAPGFSLGS(0.999)PLS(0.001)!	3	0.12088	28867.6	31372.9
Synm	0.856843	0.00517406	72.928	GVFS(0.143)S(0.857)EPR	2	0.53614	6469.5	6628.7
Sntb1	0.959887	5.19E-120	189.84	LGS(0.036)GS(0.96)ADPLS(0.004)S	4	-0.22599	15294.9	15976.6
Nefh	0.999988	1.56E-14	111.64	EEAKS(1)PEKEETR	2	0.1085	592225.0	590732.5
Hbp1	0.771347	3.97E-12	60.687	RAS(0.771)LS(0.216)CGGPGT(0.01	3	-0.34094	22980.5	22514.2
Spp1	0.522965	0.00561401	46.462	S(0.477)KEDDRY(0.523)LK	4	0.51108	25380.2	27677.4
Mef2a	0.723461	4.29E-07	43.841	GDFHSPIVLGRPPNAEDRES(0.723)I	4	0.89356	10773.1	10879.6
Olfml1	0.828552	2.40E-42	134.32	ESDFCVES(0.003)EEKT(0.168)S(0.8	4	1.3888	184781.8	181012.9
Pkn3	0.677462	1.03E-32	81.346	T(0.161)S(0.161)T(0.677)FCGT(0.0	3	-0.43663	7130.2	8010.1
Dact3	0.782409	6.18E-10	46.412	VPCGS(0.782)PDGAAS(0.217)RPLL	3	-3.5251	12939.4	12248.2
Pi4kb	0.528836	3.75E-54	84.889	T(0.529)AS(0.469)NPKVENEDEELS	4	-2.402	8227.2	6687.8
Lysmd1	0.973664	2.95E-14	84.94	SYGSLVQS(0.001)S(0.025)CS(0.974	2	0.12969	57525.3	46695.7
Depdc5	0.986376	2.44E-24	69.244	KAS(0.986)VDQT(0.014)APLVLDST	4	-0.52716	14920.4	14590.1
Hecw2	0.839298	0.0118148	62.78	CS(0.098)S(0.839)LES(0.062)AR	2	0.17714	8225.8	8722.0
Atad1	0.992899	1.45E-76	113.23	EYVNSTS(0.007)EES(0.993)HDEDE	4	0.57539	16852.6	18125.4
RGD13071	0.962368	9.80E-22	128.74	YTAGS(0.024)AS(0.962)PT(0.014)F	3	0.15066	14326.5	15300.9
Crk	1	0.00172627	70.929	QEEAEY(1)VR	2	-2.0146	12303.7	11061.3
Nucks1	0.9177	0.0170699	48.998	VGRPT(0.918)AS(0.082)K	3	1.3519	23755.8	24100.3
Runx1	0.986278	1.62E-07	70.942	FTPPS(0.002)T(0.012)ALS(0.986)P	3	1.1238	10425.3	9305.0
Flna	0.687421	2.63E-06	41.69	DGT(0.004)VT(0.025)VRY(0.029)S	4	-0.91808	3606.7	3923.3
Son	0.855038	1.96E-38	89.272	DVEDSLPIKES(0.002)DET(0.026)VT	3	-0.66936	77012.5	73086.3
Camsap2	0.836676	2.56E-07	79.036	S(0.163)ES(0.837)VEGFLSPSR	3	0.046885	3096.6	3357.9
Mapt	0.932211	4.79E-09	99.498	SPVVS GDT(0.068)S(0.932)PR	2	-1.5771	122524.0	128712.0
Aco1	1	0.00232121	81.263	RADS(1)LQK	3	-0.10835	24643.1	26106.6
Tp53bp1	0.967641	1.12E-32	76.97	DEPVRPDQELQQPQVQEKES(0.968	4	-2.4599	32262.0	31467.2
Epb41l2	0.796095	4.01E-46	155.56	VTPLLAEGKS(0.201)S(0.796)HET(0	4	0.66299	46076.8	49711.1
Cdc23	0.998274	0.00010636	53.3	RVS(0.998)PLNLS(0.001)SVTP	3	0.49472	13973.4	15619.0
Cgnl1	0.752566	4.41E-94	152.1	S(0.244)RS(0.753)VDS(0.003)AFPF	3	0.47453	19156.8	17755.8
Ap3d1	0.999672	1.77E-22	63.203	VDIITEEMPENALPS(1)DEDDKDPNI	4	0.13394	31077.6	32172.5
Eif4h	0.999736	2.71E-07	70.889	AYSSFGGGRGS(1)R	2	-1.0597	18083.4	19751.0
Eif2ak3	0.993832	5.00E-22	140.27	KES(0.006)ET(0.994)QCQTESK	3	-0.31986	57346.4	57137.2

8646.6	9880.4	8826.3	7476.7	-0.1	0.6	177
273953.7	262571.4	271232.5	273840.0	-0.1	0.1	672
15123.2	16303.6	14502.6	17614.0	-0.1	0.5	413
33507.5	31891.1	29200.7	27561.0	-0.1	0.4	28
5631.3	5640.8	5774.3	6296.4	-0.1	0.4	941;941
16249.6	14706.5	14482.3	15750.0	-0.1	0.1	227
726671.4	618892.3	493104.4	693860.0	-0.1	0.7	852;822
23351.9	21302.9	20053.1	23750.0	-0.1	0.3	388
26121.0	24807.4	27824.3	22245.0	-0.1	0.5	300
10827.4	10932.7	9824.0	9959.0	-0.1	0.2	454
218102.6	183363.3	181017.6	187800.0	-0.1	0.4	119
6939.3	6349.8	7161.6	7369.0	-0.1	0.4	807
13275.0	11853.2	12276.6	12245.0	-0.1	0.1	237
6525.0	6225.7	7412.9	6637.7	-0.1	0.6	292
58114.5	47132.2	52870.1	53522.0	-0.1	0.5	33
16366.7	14235.7	13687.2	15466.0	-0.1	0.3	966
8737.6	7386.6	8635.0	8271.0	-0.1	0.3	663
15132.8	15935.1	15331.8	16127.0	-0.1	0.4	322
14251.3	12779.3	14191.6	14529.0	-0.1	0.3	2603
12696.9	11645.3	11432.4	11030.0	-0.1	0.3	136
26258.3	21959.6	24524.3	23616.0	-0.1	0.3	193
9421.8	9766.0	8498.9	9308.7	-0.1	0.4	21
3087.5	3210.6	3187.0	3645.0	-0.1	0.5	1825
77930.7	70357.8	69189.3	76143.0	-0.1	0.2	1714
2895.5	2855.4	3142.2	2846.6	-0.1	0.4	1283
118590.5	113427.8	121344.5	115060.0	-0.1	0.2	618;733
21604.8	19484.7	25504.3	23454.0	-0.1	0.6	138
29129.7	27079.9	29908.1	30852.0	-0.1	0.3	860
53978.4	43428.6	47990.7	50253.0	-0.1	0.4	605
15685.4	14583.3	13446.7	14801.0	-0.1	0.3	588
19517.0	17327.7	19267.6	16786.0	-0.1	0.3	387
32997.5	31384.1	30147.5	29518.0	-0.1	0.1	784
18998.5	15730.5	19413.0	18622.0	-0.1	0.4	21
57518.3	54763.7	52232.1	55724.0	-0.1	0.0	403



Sipa1l2	0.729227	5.86E-55	90.182	S(0.236)NS(0.729)DIT(0.032)IS(0.0	4	-1.123	8005.1	9493.6
Mtmr10	0.808418	0.000431872	84.169	S(0.808)ILGT(0.181)PLS(0.01)K	2	-1.052	35337.9	29951.3
Reps2	1	0.000156346	63.181	LNS(1)ELQQQLK	3	0.46859	7918.2	6565.6
Arhgap32	0.999632	0.00153064	88.495	VVYAFS(1)PK	2	-0.21179	8050.3	7802.5
Elf1	0.77332	3.27E-26	80.236	TKPPRPDS(0.069)PAT(0.773)T(0.1	5	-0.012002	11510.7	11822.5
Lmnbl1	0.996693	2.18E-05	89.433	LKLS(0.997)PS(0.003)PSSR	3	0.3917	43889.4	43493.8
Tns3	0.713145	1.67E-15	55.051	WDS(0.07)Y(0.003)ENMS(0.713)A	3	1.7147	8129.5	6847.3
Cobll1	0.786241	3.19E-05	107.03	ST(0.001)S(0.213)VDDT(0.786)DK	2	0.57738	33754.0	32429.2
Dbn1	0.633713	6.89E-71	105.05	MAPT(0.007)PIPT(0.634)RS(0.109)	3	0.16719	30505.2	31669.0
Sfpq	1	0.0050712	46.88	WKS(1)LDEMEK	3	1.549	6439.6	6707.4
Mtmr7	0.754071	1.95E-32	93.371	S(0.246)PS(0.754)QGDDEDSALILTQI	3	2.1469	6297.9	6715.3
Hsbp1	0.544669	5.91E-07	43.501	NIADLMT(0.001)QAGVEELDAENKI	4	1.9578	5037.0	6344.7
Svil	0.512567	0.00321368	61.363	S(0.033)T(0.009)S(0.513)FS(0.446)	2	0.93813	19372.7	19437.3
Ahnak2	0.945712	6.39E-17	57.613	VEGDVALPS(0.021)VQGLKT(0.94	4	-0.64077	4054.9	5004.2
Jam3	0.964119	1.09E-05	74.789	QDGES(0.964)Y(0.024)KS(0.012)P	3	-0.015641	72930.0	72271.3
Foxp4	0.676914	1.83E-29	78.583	RDS(0.677)S(0.251)S(0.062)HEET(	5	-0.54443	14553.1	15216.4
Cdk7	0.998698	0.000205135	83.045	AY(0.001)T(0.999)HQVVTR	3	0.58775	10860.9	10551.8
Ywhaz	0.936076	1.75E-17	151.83	VVS(0.064)S(0.936)IEQK	2	1.8148	44937.8	43645.1
Gpr116	0.583605	2.79E-05	41.446	S(0.584)T(0.17)S(0.187)LGS(0.024	3	3.2431	2677.1	3647.4
Tmem184l	0.915629	0.0290744	52.6	GGT(0.002)HS(0.916)LS(0.083)R	2	1.036	9086.9	9578.8
Ybx3	0.993981	4.36E-13	68.639	S(0.994)VGDGET(0.006)VEFDVVE	3	1.2055	10069.7	9724.3
Rbm26	0.999903	3.53E-08	95.66	RLNHS(1)PPQSSSR	3	-1.7934	24169.6	25593.2
Txlna	0.620548	5.50E-12	65.149	EQGVESPGAQPS(0.22)S(0.621)S(0	2	-1.2872	21185.6	21396.4
Pabpn1	1	3.62E-66	125.19	QMNMS(1)PPPGNAGPVIMSLEEK	3	-0.96372	286577.0	304481.6
S1pr2	0.994694	0.00597136	96.936	SSS(0.005)S(0.995)LER	2	0.04665	27605.8	26487.2
Ank2	0.992058	6.19E-05	53.554	DS(0.004)LEAS(0.992)PVLEDNS(0.1	3	-1.1252	35316.4	32463.2
Rtn3	0.962739	8.89E-60	122.79	KAEHICT(0.001)HS(0.027)LS(0.963	5	-0.61374	28019.6	26486.1
Pard3	0.985123	7.98E-08	57.484	ETKAEDEDIVLT(0.985)PDGT(0.015	3	0.81526	16832.3	15911.8
Ifit2	0.612264	1.89E-09	74.89	RLS(0.388)RDES(0.612)DPEALR	3	-0.51557	19994.1	15817.5
Phf2	1	0.00263827	46.069	LEKS(1)PLAGNK	3	0.37157	21774.7	19598.6
L1cam	0.994226	0.0342571	62.463	GGKY(0.006)S(0.994)VK	2	-0.25986	30629.2	31005.4
Tgs1	0.917224	1.29E-05	56.527	ECPAS(0.001)GGS(0.063)DS(0.917	3	0.826	4036.1	4348.2
Hirip3	0.784969	4.30E-05	54.812	EVS(0.785)DS(0.215)QAGQNTK	3	3.5798	14910.9	14944.4
RGD15598	0.943042	1.02E-10	65.085	GRGS(0.943)T(0.057)ISEAECHQAR	3	-0.48118	2687.7	2737.1

9154.6	9049.4	8571.6	7595.1	-0.1	0.5	163
30548.8	31177.3	31620.1	27873.0	-0.1	0.5	663
6944.3	6938.8	7057.8	6276.6	-0.1	0.5	493;619;462
7600.9	8138.4	7857.6	6193.6	-0.1	0.5	543
11613.1	10728.9	11536.0	10798.0	-0.1	0.1	153
43433.1	40645.7	39306.9	43814.0	-0.1	0.2	391;401
7295.8	6719.4	6913.0	7440.7	-0.1	0.4	337
35754.9	30382.0	30261.9	35805.0	-0.1	0.4	358
33274.3	27838.9	30167.8	32303.0	-0.1	0.3	381;381;331
6469.3	6310.5	6133.2	6116.8	-0.1	0.0	488
6601.3	5740.6	6135.1	6683.5	-0.1	0.3	595
6150.4	4714.2	5804.8	6069.9	-0.1	0.6	72
21076.7	17920.5	19402.3	19343.0	-0.1	0.2	219;219
4758.2	4036.4	4989.3	4048.8	-0.1	0.6	4946;6312
70273.8	64733.7	65235.4	73923.0	-0.1	0.3	281
13562.5	11890.6	14557.1	14555.0	-0.1	0.5	219
9797.3	9267.6	9375.4	10890.0	-0.1	0.4	170
44760.7	40331.1	41755.1	44093.0	-0.1	0.1	64
3390.1	3216.4	3114.1	2862.1	-0.1	0.6	1296
9954.1	8491.4	10314.8	8276.6	-0.1	0.5	382
10450.7	8815.0	10183.2	9622.2	-0.1	0.3	126;100
24202.5	24196.9	22088.9	23708.0	-0.1	0.2	127
20468.8	19040.3	19071.0	21554.0	-0.1	0.3	525
272633.5	270975.1	270377.6	275970.0	-0.1	0.2	146
31646.5	25816.1	29253.1	26069.0	-0.1	0.5	332
37398.7	28465.9	37532.9	33537.0	-0.1	0.6	2430
28183.2	24287.1	25638.9	28327.0	-0.1	0.3	196
17938.2	15194.8	15267.7	17501.0	-0.1	0.4	579;579
17351.5	18279.1	15513.5	16519.0	-0.1	0.6	424
19967.4	18118.5	19445.0	20488.0	-0.1	0.3	505
31921.2	27412.1	30196.7	30931.0	-0.1	0.2	1149;1149
4343.0	3594.7	4227.6	4222.8	-0.1	0.4	359
14964.6	13572.4	13884.9	14960.0	-0.1	0.1	309
2987.2	2543.1	3029.6	2388.4	-0.1	0.5	309

Tmem11	0.981717	0.000127044	77.813	RLGPGGGS(0.982)S(0.018)R	2	-0.33091	66610.0	69022.3
Tns1	0.992927	6.88E-15	129.54	Y(0.002)S(0.002)MPDNS(0.993)PE	2	0.31152	15441.6	15559.7
Lmnb2	0.990256	3.37E-08	96.866	AGS(0.006)AT(0.99)PLS(0.003)PTF	2	0.039324	30050.8	31847.8
Abca8a	0.990516	2.38E-07	83.883	LS(0.009)AES(0.991)EGK	2	-0.22941	29058.4	28111.7
Rragc	0.728412	1.73E-05	63.29	SCS(0.007)HQT(0.728)S(0.264)AP	3	-0.8614	27293.3	24568.7
Tjp1	0.565517	2.17E-08	53.444	SEPSDHS(0.014)T(0.055)QS(0.013	3	0.39847	1672.6	1841.4
Dnajb12	0.653623	3.60E-15	62.032	KT(0.03)S(0.12)GT(0.046)ET(0.151	3	-0.27752	11512.9	9711.3
Ppp1r12a	1	0.00140737	43.03	IS(1)PKEEER	3	0.23694	45761.9	44530.4
Gjc3	0.652387	2.97E-05	101.54	NLS(0.652)T(0.031)S(0.317)ERS(1)	2	0.45461	77301.1	69293.2
Kif1b	0.998129	0.00643342	57.477	LS(0.002)DIS(0.998)PIGR	2	0.71443	12306.1	12179.0
Cnst	1	9.51E-07	85.837	IVPVEQS(1)PGKK	4	0.4875	73127.9	74097.7
Mical3	0.99234	0.00638214	59.367	CDYCAT(0.008)T(0.992)LR	2	-0.37601	20096.6	21161.7
Iws1	0.981534	2.43E-16	105.99	ISDS(0.018)ES(0.982)EELPKPR	3	-0.75092	19706.6	20531.0
Bod111	0.718267	3.03E-15	57.613	KDS(0.718)T(0.229)EALS(0.047)GC	4	0.35212	10702.5	11784.2
Pgm1	1	0.0041615	76.228	VDLS(1)VLGK	2	2.0658	5402.0	5540.6
Nphp4	0.734225	1.62E-11	62.002	IFGNKPES(0.734)PT(0.217)S(0.049	3	0.10969	27053.5	28694.2
Apba1	0.985726	0.00483004	90.263	QDIS(0.986)PT(0.014)R	2	-1.9849	11034.6	13425.1
Nmt2	0.789398	4.73E-28	83.602	EKPNS(0.007)GGT(0.037)KS(0.144	5	0.45252	12384.8	12797.7
Tns1	0.99167	1.48E-08	41.514	AAS(0.992)QQEIEQS(0.005)IET(0.0	5	-1.5983	850.9	679.2
Pacsin3	0.999991	6.48E-141	176.9	DGTAPPPQSPSSPGSGQDEDWS(1)I	4	0.18396	29335.1	29163.7
Cacna1h	1	1.09E-05	68.262	RPS(1)PEPGAGDNR	3	0.39462	6663.1	6367.2
Dock11	1	0.00265969	103.21	RQS(1)NADIK	2	0.27552	70278.6	65921.3
Necab1	0.516965	1.61E-08	47.331	ET(0.153)S(0.517)PS(0.148)S(0.13	3	-0.42404	9499.2	10429.7
Rnf219	1	3.55E-07	80.632	LKAEVDNRS(1)PQK	3	1.1124	48441.9	47981.2
Tgoln2	0.839959	2.39E-138	171.02	VLGPS(0.133)S(0.84)S(0.027)ENQI	5	0.40419	268686.8	258433.1
Igsf11	1	2.00E-09	72.615	IGAVPVMVPAQS(1)R	3	0.94341	1381.2	1375.6
Camk2g	0.969834	4.55E-41	119.8	GS(0.001)T(0.026)ES(0.97)CNT(0.0	4	-0.15671	61254.8	69900.9
Srrm3	0.643382	1.43E-11	54.834	SGAHGGRPGS(0.144)AHS(0.523)P	4	0.061843	11265.2	13690.6
Etl4	1	2.61E-12	70.167	LGGKS(1)PPPPPPPR	3	-0.32582	47200.3	44472.2
Herpud2	0.502333	0.0349651	54.486	S(0.995)PPS(0.502)S(0.502)PK	2	-0.060402	23669.9	21584.0
Herpud2	0.502333	0.0349651	54.486	S(0.995)PPS(0.502)S(0.502)PK	2	-0.060402	23669.9	21584.0
Sun2	0.95748	1.05E-111	151.23	LT(0.014)RYS(0.957)QDDNDGS(0.0	3	0.64345	70153.4	68481.5
Srsf4	0.919998	1.13E-12	73.448	S(0.736)T(0.32)S(0.92)KS(0.021)KF	3	-0.98863	27883.7	24396.5
Srf	0.529951	9.82E-58	90.698	S(0.53)LS(0.47)EMELGVVVGPEA	4	1.4497	37581.3	37988.4

65426.5	64903.1	63281.9	62099.0	-0.1	0.1	15
13309.1	14192.8	13639.1	14104.0	-0.1	0.4	1599
32035.1	28229.4	30034.2	30641.0	-0.1	0.2	30
31650.7	28694.6	25643.2	29729.0	-0.1	0.4	737
23339.1	23783.3	23554.0	23842.0	-0.1	0.3	380
1948.3	1533.9	1717.7	1918.7	-0.1	0.5	480
10534.6	9976.7	10287.4	9797.3	-0.1	0.4	81
48516.8	42736.7	42746.8	45908.0	-0.1	0.2	422
71888.9	65832.6	73568.7	67410.0	-0.1	0.3	233
13385.7	11495.7	12177.2	12176.0	-0.1	0.2	1555
66681.7	69080.8	67385.5	66026.0	-0.1	0.2	273
19851.3	17758.8	20182.4	19909.0	-0.1	0.3	797
20317.6	19203.1	19151.2	18973.0	-0.1	0.0	187;187
10511.6	9620.9	9936.0	11683.0	-0.1	0.5	2688
5765.2	5154.0	5726.2	4937.5	-0.1	0.3	168
27456.1	25136.3	25975.5	27659.0	-0.1	0.2	145
13110.0	11048.0	10000.4	14520.0	-0.1	0.7	390
12240.2	11368.1	12154.8	11907.0	-0.1	0.1	68
1217.3	1177.4	728.2	695.6	-0.1	0.8	886
27902.1	25756.7	27518.6	28525.0	-0.1	0.2	354
6671.0	6101.7	6821.7	5729.0	-0.1	0.4	541
63525.1	62476.6	64071.6	62544.0	-0.1	0.2	797
9012.3	8814.2	9640.2	8946.5	-0.1	0.4	8
43888.8	45035.6	42744.7	45065.0	-0.1	0.2	210
262583.3	242981.1	243918.0	260790.0	-0.1	0.1	271
1470.9	1289.9	1410.3	1302.8	-0.1	0.2	422
60357.7	60221.7	61704.6	59410.0	-0.1	0.3	382
9168.8	11379.1	10042.4	10890.0	-0.1	0.7	339
47127.4	40162.8	43657.3	47605.0	-0.1	0.4	897
22437.3	20817.8	21583.4	21694.0	-0.1	0.1	13
22437.3	20817.8	21583.4	21694.0	-0.1	0.1	14
65056.0	63945.1	64560.0	64366.0	-0.1	0.1	12
25206.5	24710.6	24253.9	24409.0	-0.1	0.3	442
37685.1	36699.1	35184.0	35363.0	-0.1	0.0	97

Ube4b	0.504453	7.73E-83	116.62	S(0.107)QS(0.383)S(0.504)EGVS(0	3	-0.058637	7840.1	8113.7
Srrm1	0.998465	1.07E-222	237.15	KET(0.002)ES(0.998)EAEDDNLDDL	3	-0.18129	96081.1	95213.3
Srrm2	0.558097	6.85E-09	59.557	S(0.147)GS(0.558)VT(0.295)NMQ/	3	-0.49609	2474.0	2641.4
Tango6	0.999994	3.53E-26	110.97	EALS(1)DDEDEALYQK	3	0.57904	57056.6	55260.4
Srsf10	0.856908	0.0012177	60.255	S(0.857)HS(0.143)DNDRFK	3	0.57346	15074.3	14299.4
Larp1	0.700679	8.42E-14	68.481	GLS(0.006)AS(0.133)LPDLDS(0.70:	3	0.30324	4830.7	4219.0
Ccdc120	0.979425	1.20E-05	77.72	NSVAS(0.001)PT(0.019)S(0.979)PT	2	-0.50767	11334.2	11659.1
C2cd2l	0.98374	1.97E-22	91.166	S(0.984)PS(0.014)KVEVT(0.002)EK	3	0.45428	176003.7	172742.1
Slc4a4	0.978802	6.97E-119	139.69	IS(0.004)ENYS(0.979)DKS(0.018)D	5	-0.57205	50451.5	48442.0
Ncl	0.784345	3.05E-08	99.5	S(0.784)VS(0.213)LY(0.002)YTGEK	3	1.5002	8276.0	7857.0
Inpp5d	1	8.61E-10	77.746	LFDQQLS(1)PGLRPR	3	-0.39375	6457.3	5980.4
Lmna	0.999797	3.06E-10	84.479	IDSLSAQLS(1)QLQK	3	0.41326	9608.6	9333.3
Htatsf1	0.998861	3.10E-08	57.142	KDDDAS(0.999)DKVFDNS(0.001)l	4	0.26406	23258.4	26419.2
Vcl	0.899238	0.000254648	44.543	ALAS(0.101)IDS(0.899)KLNQAK	4	0.22009	11968.5	12421.5
Eno1	0.996666	2.23E-10	89.041	Y(0.003)DLDFKS(0.997)PDDASR	3	0.11984	68335.8	61400.9
Pcm1	0.997672	2.90E-21	103.83	YMT(0.002)QMS(0.998)VPEQAELE	3	0.45223	10668.0	9989.8
Hspa4l	0.999998	1.20E-23	92.39	CHAEHT(1)PEEIDHTGAK	3	0.34143	39023.3	37487.1
RGD13079	0.564983	5.23E-05	102.53	HSGT(0.435)IS(0.565)QPR	2	0.24762	5831.1	6052.2
Sec23ip	0.5	0.00595299	83.499	QVS(0.5)EES(0.5)K	2	-1.2525	23227.4	22140.1
Caskin1	0.916535	1.87E-42	89.096	SVS(0.001)ES(0.006)S(0.077)PGDS	4	-0.67729	46004.0	45644.8
Neo1	0.999765	0.00953912	53.756	SVNGS(1)HK	3	0.078437	21480.2	20852.4
Atp1a1	0.885509	9.23E-06	73.927	IVEIPFNS(0.886)T(0.114)NK	2	-0.23987	20815.8	19559.1
Abcc10	0.993881	1.85E-17	73.984	EPWTHDPFLS(0.994)PES(0.006)QE	3	0.52966	7195.1	8909.0
Rabgap1	0.994661	0.00027364	125.18	T(0.001)T(0.001)AS(0.995)PS(0.00	2	0.41334	19014.9	17302.7
Rtn4	0.913282	4.00E-15	119.96	S(0.913)LS(0.085)AVLS(0.001)AEL'	2	0.10081	18895.6	16429.6
Nek1	0.984131	2.56E-05	109.39	T(0.016)CS(0.984)LPDLSK	3	-1.3999	59062.7	61609.3
Ndrg1	0.522243	7.86E-21	82.609	YFVQGMGYMPS(0.12)AS(0.358)M	2	-1.8076	7645.6	7560.8
Fam131b	1	0.000660162	40.493	APAIQPQHS(1)HEAVR	3	2.7416	4045.1	4099.2
Sptan1	0.5	8.42E-33	78.319	KLDPAQS(0.5)AS(0.5)RENLLLEEQS	4	0.16757	55240.1	50292.4
Helb	0.952085	1.37E-36	103.28	KLSSCASSEGLPS(0.006)QPS(0.04:	3	-0.21352	49311.3	50399.9
Epc1	0.82437	1.20E-10	65.423	T(0.824)PS(0.175)LPDS(0.001)DSC	3	1.2925	15847.1	16665.4
Sqrdl	0.564709	8.38E-19	71.148	KYPNVFGIGDCT(0.025)NLPT(0.565	4	-1.1878	7804.1	7829.2
Zc3h18	1	0.00479089	90.777	S(1)PQPPSR	2	-0.14282	16135.8	15121.0
Reps1	0.78786	1.10E-42	89.721	S(0.006)S(0.006)GDHT(0.055)NPT	3	0.77419	16579.4	17370.7

9216.3	8418.0	7881.5	7535.7	-0.1	0.4	79
87416.7	89754.5	86558.0	87618.0	-0.1	0.2	808
2816.6	2572.7	2377.6	2561.0	-0.1	0.3	828
57082.9	52636.4	54497.6	53285.0	-0.1	0.0	559
14402.5	13614.2	14079.4	13762.0	-0.1	0.1	157
4255.1	4169.2	4547.3	3883.0	-0.1	0.4	423
12089.0	11345.0	11318.0	10561.0	-0.1	0.1	283
172929.8	165587.9	155989.9	172470.0	-0.1	0.1	468
43032.8	44395.5	43126.2	46891.0	-0.1	0.4	65;65
7235.3	7122.7	7418.7	7591.1	-0.1	0.3	463
6551.6	6198.8	5454.6	6331.8	-0.1	0.4	245
9624.9	8445.5	9476.9	9134.4	-0.1	0.2	307
23846.9	22784.6	23946.2	22908.0	-0.1	0.3	716
12002.8	10374.0	12298.0	11798.0	-0.1	0.3	275
67048.0	59045.8	61006.7	66336.0	-0.1	0.3	263
9624.7	9480.0	10319.5	8884.0	-0.1	0.4	93
36059.4	35662.9	37089.4	33875.0	-0.1	0.2	545
6264.6	5499.4	5876.5	5814.4	-0.1	0.1	1271
23141.1	20253.6	21251.1	23393.0	-0.1	0.3	344
39750.5	41193.5	41354.4	41927.0	-0.1	0.3	432
23170.9	20281.1	18837.0	22934.0	-0.1	0.5	1151
17467.6	18633.3	18306.9	17855.0	-0.1	0.4	484
7959.9	7074.5	8149.5	7572.3	-0.1	0.5	206
18368.3	16722.7	18795.3	16287.0	-0.1	0.4	487
18558.8	17008.7	16531.9	17509.0	-0.1	0.3	962
59855.2	56621.5	57487.7	56925.0	-0.1	0.0	994
7269.5	7065.2	7328.5	6900.4	-0.1	0.1	321
4117.2	3753.1	3820.9	4042.8	-0.1	0.1	130
57714.2	46131.2	57904.5	50631.0	-0.1	0.5	1029
50732.3	47601.9	47421.1	47515.0	-0.1	0.0	752
15274.4	14430.4	15608.6	15237.0	-0.1	0.2	482
6910.6	6959.1	7527.5	6873.1	-0.1	0.3	342
15781.2	14457.9	15113.8	14997.0	-0.1	0.1	506
17814.7	15919.7	16177.1	16952.0	-0.1	0.1	481

Phrf1	0.569625	1.29E-19	65.207	TVTCVTVVEEPS(0.429)VPS(0.57)PD.	3	1.2482	4559.1	5637.0
LOC10091	0.972574	2.86E-09	59.339	S(0.027)LDGVS(0.973)ENHDAGPD	4	-0.73843	11319.7	10253.0
Glod4	0.517616	2.25E-17	69.979	FYLQDRS(0.361)PS(0.518)QS(0.12	4	0.95556	7602.4	8366.6
LOC10255	0.912721	0.00928164	50.484	PLQVS(0.023)S(0.064)IS(0.913)K	2	-0.48327	15693.3	16178.4
Crocc	0.956277	5.63E-15	84.046	SSAS(0.042)MS(0.956)PPS(0.001)(	3	0.53247	7369.0	8159.8
Pa2g4	0.965192	8.15E-06	81.92	ALLQS(0.001)S(0.034)AS(0.965)R	2	0.12528	2735.6	3245.8
Ahnak	1	0.0100175	77.662	AEVKS(1)PK	3	0.43789	29609.5	30602.8
Prpf4b	1	6.76E-41	128.01	EVLDS(1)DKEGLS(1)PAKR	4	-0.97539	152591.4	153952.0
Fbn1	0.706625	2.37E-33	78.272	GGPEPPAS(0.096)GEMDDNS(0.70	3	-0.50646	43970.5	43300.7
Lgals1	0.999997	1.08E-20	76.049	SFVLNLGKDS(1)NNLCLHFNPR	4	0.451	7685.3	7013.0
Lmf1	0.993453	5.90E-05	45.707	VGGAEHS(0.993)PAS(0.004)PS(0.C	3	0.39278	11504.1	11918.0
LOC10036	0.999946	0.0047511	74.306	SLESINS(1)R	2	-1.7374	18558.1	18891.1
Lsp1	0.578028	3.34E-57	100.24	T(0.42)PS(0.578)PLALEDT(0.002)A	3	-0.11936	27609.3	25484.6
Syt11	1	2.70E-07	78.814	EVCE(1)PRKPVAK	4	-0.6346	62711.1	60354.4
Tdrd7	0.991437	3.56E-27	102.39	NAS(0.001)T(0.008)PAPGS(0.991)I	3	0.25971	45049.9	43066.0
Ahnak2	0.826806	9.91E-07	71.354	S(0.827)T(0.173)EDVEGQAEHK	2	1.5618	39661.4	34932.3
Plxnb2	0.99999	4.31E-05	51.593	SQLEGLEES(1)VRDR	3	-1.2899	28415.6	25354.1
Cbx5	0.767502	4.28E-15	110.35	KS(0.004)S(0.198)FS(0.768)NS(0.0	3	-0.47361	78896.9	71876.4
Hsp90ab1	0.769971	0.00107158	57.225	LGIHEDS(0.23)T(0.77)NR	3	-0.08728	6271.7	6713.3
Ankrd17	0.755861	1.89E-46	103.53	EHY(0.002)PVS(0.08)S(0.261)PS(0.	3	-0.12696	45692.7	45796.2
Golgb1	0.695662	9.06E-54	126.9	S(0.138)DS(0.696)S(0.138)T(0.028	4	-0.49707	43995.6	42380.4
Srrm1	0.997599	1.25E-12	105.03	QS(0.998)PS(0.002)PSTRPIR	3	0.69411	25485.2	25055.7
Srrm1	0.773492	0.000148815	55.546	HRPS(0.773)S(0.249)PAT(0.977)PF	3	-0.97432	14841.7	14688.8
Myo18a	0.994405	0.00117491	57.149	APS(0.994)DDGS(0.006)LK	3	1.3131	16349.3	15631.0
Prkca	0.997195	0.000197284	70.942	VIS(0.003)PS(0.997)EDRK	3	0.49158	41699.7	39229.0
Chd4	0.982467	7.67E-08	99.941	MSQPGS(0.982)PS(0.017)PK	3	1.6252	117929.8	113388.1
Shroom2	1	1.88E-07	67.646	KAPS(1)PPPLGLPLR	3	1.904	16449.4	16205.8
Itgb4	1	1.32E-06	72.321	QVEQGS(1)FHELK	3	-0.95053	27912.3	29568.4
Mcm4	0.952871	0.00309225	115.82	VT(0.953)PT(0.045)QS(0.002)LR	2	0.30511	7634.7	7664.5
Lsg1	0.745023	0.00180984	43.958	AS(0.028)PENS(0.745)QMS(0.227)	2	0.33233	5582.3	4750.1
LOC10036	0.998788	4.11E-33	136.85	S(0.001)RDS(0.999)GDENEPIQER	3	-0.59157	12154.6	11404.6
Arhgef16	0.999985	0.000355046	52.527	HQS(1)FGAAVLSK	3	1.9154	1272.5	1801.9
Tmbim1	0.969253	1.86E-16	96.143	AGS(0.969)DS(0.031)FGPGEWDDF	2	-0.23938	18810.9	20565.0
Prx	0.996324	0.00189556	90.263	VGLAS(0.996)PS(0.004)K	2	0.48319	28699.4	29108.8



5349.6	4668.8	4901.8	5160.7	-0.1	0.5	772
10794.4	9667.2	10518.1	10487.0	-0.1	0.2	435
6619.3	7275.7	7167.4	6964.0	-0.1	0.5	133
17745.5	14236.8	16251.9	16534.0	-0.1	0.4	126
6660.8	6551.9	6894.6	7583.0	-0.1	0.5	1838
3781.2	2862.6	3281.2	3108.4	-0.1	0.6	363
30531.8	25799.6	29163.3	31038.0	-0.1	0.4	4772
156225.6	146338.6	139543.5	152700.0	-0.1	0.1	88
55329.4	39904.3	48061.2	47183.0	-0.1	0.6	2710
7784.2	6731.0	7657.7	6919.1	-0.1	0.4	39
11807.9	11416.5	10135.0	11838.0	-0.1	0.3	39
17516.6	16419.1	16801.2	18875.0	-0.1	0.3	16
28354.6	25923.9	25360.0	25912.0	-0.1	0.2	167
56829.5	56317.9	56470.3	57714.0	-0.1	0.2	415
32710.1	35692.6	34945.7	43881.0	-0.1	0.7	860
40027.3	34264.8	40146.8	34228.0	-0.1	0.5	6072;7443
28484.5	24762.3	26704.3	26496.0	-0.1	0.3	1247
79043.3	67788.3	75349.0	74690.0	-0.1	0.3	95
6225.1	5256.2	6388.8	6563.1	-0.1	0.5	446
47151.9	42996.3	42780.0	45633.0	-0.1	0.1	1779
42774.1	38949.6	41944.3	41522.0	-0.1	0.1	498;498
23525.4	23368.6	23083.8	23753.0	-0.1	0.1	647
14296.0	13376.6	13768.4	14397.0	-0.1	0.1	317
15685.4	15261.9	14720.6	15199.0	-0.1	0.0	1998
33473.4	34646.5	38271.3	35522.0	-0.1	0.5	321
113959.3	106728.0	105631.2	114930.0	-0.1	0.1	1522
18695.1	15255.3	17013.9	16406.0	-0.1	0.4	274
33085.9	27770.7	27376.5	30703.0	-0.1	0.4	912
8719.4	8024.2	6968.5	7775.1	-0.1	0.4	19
4698.4	4874.8	4880.8	4492.5	-0.1	0.5	352
9077.7	10982.7	8714.1	11241.0	-0.1	0.7	418
1715.8	1671.6	1381.6	1487.7	-0.1	0.7	109
21860.3	19944.5	18049.4	20058.0	-0.1	0.4	19
32291.7	28077.6	28662.1	28677.0	-0.1	0.2	1307;1307

Atf7ip	0.977021	2.68E-13	103.79	S(0.001)KS(0.021)EDMDS(0.977)V	3	-1.1339	195969.2	183119.0
Pabpc1l2a	0.997156	3.12E-21	71.295	QSTSADFKDFDDDS(0.997)DDEAT(	3	-0.018305	69143.2	64750.9
Sugp2	0.944992	3.53E-77	114.79	VLELCPSISFQS(0.002)T(0.002)GEA	3	-0.14294	67302.9	70272.8
Eif5b	0.919847	1.58E-38	85.376	KPARPNSEVLLS(0.92)GS(0.08)EDA	4	0.43971	48836.6	51491.4
Ssh2	0.750937	2.86E-19	62.032	S(0.195)HS(0.751)DS(0.053)DLS(0	5	0.4515	4724.7	4781.1
Nefh	0.999593	1.14E-52	128.07	S(1)PVT(0.977)VKS(0.023)PAEAK	3	0.33759	2671602.0	2650475.3
Ergic2	1	0.016195	54.343	RKT(1)LS(1)LVK	3	0.027739	18160.9	16877.1
Ergic2	1	0.016195	54.343	RKT(1)LS(1)LVK	3	0.027739	18160.9	16877.1
Rpl17	0.846021	4.75E-41	108.08	INPYMS(0.154)S(0.846)PCHIEMILT	3	1.0271	25831.1	30710.3
Rhbdf2	0.741132	4.39E-05	103.89	QAS(0.259)LS(0.741)QSIR	2	0.065397	22987.7	24964.7
Dffa	1	1.34E-05	62.68	RKPLPGDPQS(1)PK	3	0.56674	36244.3	32578.4
Kif1b	0.999945	5.06E-09	95.854	EDGGTLGVFS(1)PK	3	0.31539	23036.6	23395.0
Kank2	0.961528	1.28E-14	45.767	MADPPPS(0.962)PAEPS(0.01)PS(0	5	0.25391	17019.5	17965.3
LOC50095	1	0.00603961	48.284	FHGKVS(1)PK	4	-1.7506	5120.4	5276.5
Tmem45al	1	3.28E-05	59.709	HVDREQES(1)EEEEV	2	0.64099	12934.6	13561.2
Arhgap23	0.9249	1.64E-24	99.343	S(0.071)KS(0.925)CDDGLNT(0.004	3	-0.98597	67822.9	70579.9
Add2	0.994233	4.21E-73	139.9	DKTESVTS(0.002)GPLS(0.994)PEG!	4	0.84241	115703.0	118247.4
Limk1	0.552808	1.65E-75	98.22	LLQLT(0.001)LEHDPHDS(0.32)LGH	6	-2.4324	3802.5	3586.1
Ccdc86	0.72151	5.39E-12	44.6	SPEPCPGQQAPGPEPS(0.007)QPAC	3	-1.0195	2646.0	2839.4
Tle3	0.847644	7.02E-84	178.57	ESSTNNS(0.105)VS(0.848)PS(0.04!	3	0.20094	14852.4	14235.8
Mex3d	0.812762	5.58E-36	100.76	HS(0.813)PT(0.187)LPEPGGLSLELP	3	0.80961	8701.7	8677.4
Tmem51	0.559799	1.69E-10	50.493	LS(0.435)IS(0.56)LPS(0.004)Y(0.00	3	-0.079786	6480.8	6767.1
Sfswap	0.727697	0.0171766	54.486	S(0.004)QS(0.074)T(0.124)S(0.728	2	1.1535	4715.1	5023.4
Ttc7b	0.936533	7.22E-34	138.05	LPVS(0.001)S(0.024)S(0.937)T(0.0	3	0.86959	12374.0	12692.4
Dock8	0.641768	9.65E-33	74.654	S(0.13)RAS(0.642)GS(0.228)Y(0.00	4	-3.1944	9243.1	8490.2
LOC10036	0.973571	3.66E-21	140.33	S(0.003)IQT(0.015)S(0.974)PT(0.0!	2	-0.083707	21704.4	20188.7
Csnk2b	0.57629	6.29E-06	40.968	IHPMAY(0.576)QLQLQAAS(0.206)	4	1.8796	10435.1	9167.9
C2cd5	0.999269	1.14E-10	51.557	NKELY(0.001)EINPPEVCEEMIGS(0.	4	1.0051	10302.4	9889.5
Taf3	0.999646	9.29E-08	57.366	RPLDS(1)PEVEEMPSMK	4	1.9989	24089.7	22825.7
Nefm	0.801104	4.87E-08	95.428	GS(0.004)PS(0.174)T(0.801)VS(0.C	3	0.16469	23078.3	22626.1
Nefh	1	9.98E-57	138.49	SPAT(0.001)VKS(0.999)PVEAKS(1)	5	0.16453	2325367.2	2309773.6
Vim	0.763186	3.47E-29	127.2	ISLPLPNFS(0.763)S(0.237)LNLR	2	2.344	46233.0	40237.0
Samd14	0.944436	1.18E-20	119.77	SAPSS(0.001)DS(0.036)S(0.944)PS	2	-0.69144	19465.7	22577.8
Akap12	0.554607	6.48E-13	67.928	HPEGIVS(0.001)EVEMLS(0.555)S(C	3	0.22964	11737.9	12594.8

191997.5	172924.7	179361.2	189120.0	-0.1	0.2	586
72534.1	65136.3	65716.3	64852.0	-0.1	0.2	222
65052.8	62156.5	62898.2	67048.0	-0.1	0.2	758
53664.3	47771.2	43903.1	54320.0	-0.1	0.5	137
5403.1	4432.7	4780.2	4922.1	-0.1	0.4	461
2926381.4	2577865.6	2546578.4	2695900.0	-0.1	0.2	658;628
17886.0	16685.3	16332.1	17160.0	-0.1	0.1	11
17886.0	16685.3	16332.1	17160.0	-0.1	0.1	9
24890.3	25777.6	25199.7	26229.0	-0.1	0.5	142
22009.3	22159.8	21666.8	22506.0	-0.1	0.3	85
33391.4	31388.4	31067.6	34457.0	-0.1	0.3	322
20470.9	21387.6	22533.4	19512.0	-0.1	0.4	447;487
20142.0	16171.6	16383.4	19713.0	-0.1	0.6	424
4134.0	5103.2	5058.3	3615.9	-0.1	0.7	24
15558.7	12872.8	13858.2	13143.0	-0.1	0.4	269
69710.6	63208.1	65298.4	68819.0	-0.1	0.1	415
114161.6	106887.5	106699.8	116480.0	-0.1	0.2	692
3368.7	3369.0	3337.6	3493.3	-0.1	0.2	234
3231.0	2477.7	3071.7	2715.3	-0.1	0.6	170
16480.7	13791.3	15024.1	14393.0	-0.1	0.4	202
8974.1	8236.3	8536.6	8216.0	-0.1	0.0	464
6240.7	5997.0	6106.6	6376.3	-0.1	0.2	153
4102.2	4278.1	4216.8	4630.1	-0.1	0.5	713
12021.9	11947.8	11875.8	11347.0	-0.1	0.1	118
8905.1	8427.6	8221.7	8611.8	-0.1	0.1	1175
22080.7	19292.2	19181.1	22193.0	-0.1	0.4	727
9897.1	9198.1	9134.6	9642.5	-0.1	0.3	197
10182.9	9012.0	10360.8	9431.8	-0.1	0.3	609;634
21965.7	20974.0	22760.0	21588.0	-0.1	0.2	183
20035.5	20404.3	22672.3	19267.0	-0.1	0.5	47
2495414.3	2186719.9	2250884.6	2324900.0	-0.1	0.2	652;622
38464.5	40609.4	38993.7	38885.0	-0.1	0.4	419
20855.3	19584.8	19796.6	20272.0	-0.1	0.3	151
11748.3	11139.3	11671.7	11409.0	-0.1	0.1	490

Srsf2	0.821733	1.89E-17	73.294	S(0.006)KS(0.172)PPKS(0.822)PEE	3	0.16322	29227.8	30906.7
Srsf2	0.54062	1.89E-17	73.294	S(0.006)KS(0.172)PPKS(0.822)PEE	3	0.16322	29227.8	30906.7
Rps6ka4	0.999629	2.73E-06	73.245	RGS(1)PVPASSGR	3	0.15097	21370.4	20198.6
Arhgap1	0.945077	9.61E-17	131.32	S(0.027)S(0.027)S(0.945)PEPVTHL	3	0.064008	51873.2	50964.9
Arhgef11	0.788455	3.32E-31	84.68	SLGGES(0.002)S(0.009)GGT(0.788	3	-1.0282	3771.5	4182.6
Vim	0.961017	2.21E-14	126.56	EEAES(0.961)T(0.039)LQSFR	3	-0.29657	9650.9	8918.1
Add3	1	6.71E-07	87.719	VTQILQS(1)PAFR	2	1.4422	15447.6	14562.6
Bcas3	0.671095	1.57E-13	67.194	CS(0.671)PVPGLS(0.263)S(0.327)S	4	-1.9161	8577.9	9123.3
Mios	0.996511	2.68E-12	69.979	QYT(0.003)EEMDQKS(0.997)PGNK	3	0.23709	25489.9	24977.8
Clip2	0.797218	5.55E-05	97.163	ESVLNS(0.203)S(0.797)VK	2	0.28822	36562.8	36157.6
Rsrp1	0.666761	1.50E-14	121.45	AAVEET(0.153)S(0.153)S(0.667)GS	2	0.40338	7567.9	7106.6
Grin1	0.791519	0.00613918	40.941	AITs(0.001)T(0.004)LAS(0.203)S(0	3	-2.7508	7233.1	6797.0
Vps26a	0.982285	7.03E-07	56.746	FESPES(0.017)QAS(0.982)AEQPEN	3	0.31079	26074.4	25504.4
Zfp280d	0.97694	1.85E-27	68.636	ASVAPLQSGSSVT(0.001)PSISAST(0	5	-0.48568	4631.9	4325.4
Kif21b	0.863914	0.00110905	77.288	S(0.136)LAS(0.864)LVEIK	2	-0.23077	3284.6	3303.7
Tbc1d13	0.583406	2.76E-05	66.004	SGVT(0.001)NMS(0.583)S(0.416)P	3	-0.85286	11573.6	12238.3
RGD13055	1	2.60E-06	44.683	KLAGLPEDDPDT(1)DDEQEPR	3	-0.47312	25417.2	25857.6
Sept9	0.996057	5.38E-05	96.756	S(0.996)VQPIS(0.004)EER	2	0.31707	49768.1	51098.7
Tmem230	0.518944	5.90E-71	174.21	LS(0.069)S(0.412)T(0.519)DDGYID	3	0.47704	17781.7	16869.5
Arhgap44	0.693442	3.62E-13	44.903	GSPGSIQGT(0.013)T(0.032)CPGT((	4	0.041235	4453.1	4474.0
Nefm	0.82208	1.49E-47	143.43	FST(0.016)FS(0.822)GS(0.161)ITGI	3	0.24256	29452.0	30186.0
Vapb	0.950491	1.74E-05	51.591	ALPS(0.049)NS(0.95)PMAALAASGI	3	-0.2924	33924.6	33823.4
Lap3	1	0.000127631	49.149	LHGS(1)GDLEAWEK	3	0.047816	7645.9	7283.5
Vps13d	0.86055	9.35E-06	91.28	RS(0.139)S(0.861)LPVS(0.001)NER	3	0.07731	9490.5	9491.2
Fbln2	1	5.75E-09	120.63	RVSETEMGS(1)R	2	0.082109	43139.2	45367.3
Zfp592	0.96509	8.25E-18	69.248	VLHSSNPVPLY(0.03)APNLS(0.965)	4	0.22945	22301.9	25810.4
Serpinh1	0.931444	1.45E-15	87.088	LYGPS(0.017)S(0.052)VS(0.931)FA	2	-0.11888	13708.7	14139.2
Safb	0.99872	0.00624089	55.353	AS(0.001)KS(0.999)QDR	2	0.50169	28969.0	28825.8
Ap3b2	0.999999	2.97E-254	216.52	AFYGS(1)EEDEAK	2	0.086471	228636.7	224165.5
Sars	0.998505	1.04E-05	74.987	LEAVSS(0.001)LFS(0.999)PK	2	2.0965	9853.1	9896.8
Iscu	1	0.0260277	66.056	NVGS(1)LDK	2	-0.29323	23794.0	22685.3
Lpin2	0.595272	0.0320495	60.828	VDS(0.405)PT(0.595)KR	3	1.1214	22515.4	22153.3
Nck1	0.691713	8.74E-22	71.882	RKPS(0.692)VPDT(0.252)AS(0.056	4	-0.030551	54951.5	54486.0
Eif3b	0.99305	1.83E-33	112.96	AEEEGGS(0.007)DGS(0.993)AAEAI	3	0.34856	20949.4	20334.6

26950.3	27723.4	25316.2	29554.0	-0.1	0.4	212
26950.3	27723.4	25316.2	29554.0	-0.1	0.4	220
19857.7	19270.2	20562.8	18428.0	-0.1	0.2	745
51898.1	47508.4	47527.9	51726.0	-0.1	0.1	51
4216.6	3547.0	3716.4	4280.2	-0.1	0.5	1500;1489
9738.2	9188.6	8100.3	9560.1	-0.1	0.4	201
15742.9	14833.0	13893.4	14670.0	-0.1	0.2	64
9357.5	8295.5	8070.3	9299.4	-0.1	0.4	480
23222.0	22274.2	22682.0	24941.0	-0.1	0.3	444
39640.9	34999.6	36723.9	34855.0	-0.1	0.2	196
7413.8	6948.9	7535.9	6467.1	-0.1	0.3	282
5996.5	6209.7	5947.8	6838.8	-0.1	0.5	890
25956.0	23993.4	24552.1	25000.0	-0.1	0.0	321
3702.2	3626.2	4260.4	4121.5	-0.1	0.6	545
2978.5	3099.4	2681.5	3293.9	-0.1	0.5	1166
11228.8	9892.8	10819.0	12527.0	-0.1	0.5	183
26128.4	23432.4	24909.0	25084.0	-0.1	0.1	303
48937.3	47747.1	47098.3	47263.0	-0.1	0.0	307
16291.2	16130.9	16068.1	16128.0	-0.1	0.1	25
4466.2	4028.9	4279.0	4398.7	-0.1	0.1	536
24327.1	26204.3	27017.5	26439.0	-0.1	0.5	414
30505.2	30471.1	29913.5	32832.0	-0.1	0.3	206
7432.6	7256.2	6774.5	7185.1	-0.1	0.1	180
9387.1	8023.4	9345.6	9546.5	-0.1	0.4	2455
48560.4	42589.3	42150.5	45306.0	-0.1	0.3	574
23115.5	23287.2	21470.1	22823.0	-0.1	0.4	571
14271.5	12171.1	13784.4	14008.0	-0.1	0.3	140
28444.0	28140.3	27144.6	26540.0	-0.1	0.0	612
218602.9	211082.3	214893.6	211080.0	-0.1	0.0	315
9105.5	8816.6	9518.8	9044.4	-0.1	0.2	440
21042.6	20372.4	21579.1	22118.0	-0.1	0.3	51
19195.5	20515.3	19563.7	20520.0	-0.1	0.4	422
54940.8	50733.4	53572.2	51672.0	-0.1	0.0	85
19446.8	18883.0	19574.4	19170.0	-0.1	0.1	117

Herpud2	0.999221	0.00615949	74.464	S(0.999)PPS(0.001)SPK	2	1.3927	112557.9	111084.6
Glcci1	0.760157	1.54E-53	130.36	T(0.117)S(0.117)S(0.76)LDT(0.005	3	-2.1985	18882.5	18181.4
LOC10036	0.727943	5.18E-36	104.35	GHSET(0.009)S(0.044)T(0.044)LS(	3	-0.57687	14470.8	14404.7
Mex3c	0.642797	0.000124272	45.221	LS(0.643)PT(0.354)FPES(0.003)IEH	3	0.27825	5151.4	5888.5
Wasf2	0.818392	0.000427544	85.963	S(0.147)S(0.818)T(0.034)IQDQK	2	0.35293	16021.3	17251.2
Snap91	0.997811	1.81E-32	109.65	KPGNNEGS(1)GAPS(0.998)PLS(0.0	3	1.1862	241291.0	242385.3
Afap1l2	1	4.24E-11	67.227	EQNPAS(1)PDKVPEEK	3	-0.068171	27893.2	27587.4
Snip1	1	0.0113083	46.352	GAS(1)RS(1)PAK	2	0.10962	6072.3	5180.3
RGD15602	0.52518	0.000497495	42.059	VEELEENIS(0.475)HLS(0.525)EK	3	-0.70881	3629.9	3689.6
Atat1	0.994273	0.013739	74.2	S(0.994)PT(0.006)PSLR	2	-0.10239	15015.8	17372.9
Nfat5	0.810493	4.85E-05	41.912	HT(0.002)VLY(0.187)IS(0.81)PPPEI	3	0.19249	15444.0	15383.1
Map1s	0.99863	2.33E-70	121.09	ANS(0.999)QDS(0.001)LASR	2	-0.52904	69220.7	74313.8
Tln1	0.577037	4.73E-10	48.18	SKDHFGLEGDEES(0.577)T(0.188)M	3	-0.8076	18224.1	17845.7
Sptan1	0.49998	4.10E-06	55.755	CTELNQAWT(0.5)S(0.5)LGK	3	-1.8798	11451.6	11968.4
Sptan1	0.49998	4.10E-06	55.755	CTELNQAWT(0.5)S(0.5)LGK	3	-1.8798	11451.6	11968.4
Srrm1	0.999901	0.000528928	79.659	RS(1)PSLSSK	3	0.92475	196470.1	208249.3
Plekhn3	0.994206	1.18E-14	89.484	S(0.001)S(0.001)GLLAS(0.994)PVL	3	-0.21556	19837.8	18293.2
Ctnnd2	0.999997	0.00095012	78.903	SASAPAS(1)PR	2	0.34565	15908.0	14771.1
Lmo7	0.991597	1.24E-14	88.137	REDS(0.992)FES(0.005)LDS(0.002)	2	1.4891	45604.5	46021.1
Tacc2	0.803011	0.0152176	46.129	T(0.111)PS(0.803)S(0.085)PS(0.00	3	-0.73897	33263.8	30490.9
Akap12	0.75751	7.94E-84	134.91	GPLEAPQDGEAEEGT(0.143)T(0.75	3	-0.18283	178353.3	184972.7
Nfic	0.49999	4.13E-17	70.837	NWTEDMEGGIS(0.5)S(0.5)PVKK	3	-0.63955	33923.4	33435.1
Map4	0.69534	1.51E-27	100.41	T(0.695)S(0.188)PS(0.1)KPS(0.011	4	-0.28386	54679.6	52560.9
Stx4	1	8.95E-05	74.537	HS(1)EIQQLER	3	0.62929	22074.1	21907.6
Chodl	0.693761	1.36E-10	66.977	T(0.005)KT(0.047)S(0.209)PNQS(0	3	0.15148	14466.0	15096.8
Cenpf	0.994032	0.017215	74.165	RS(0.006)S(0.994)EEMK	2	0.6489	6212.2	5438.9
Stx16	0.769358	2.28E-48	117.35	QLLAEQVSS(0.006)HT(0.006)T(0.0	3	-0.28208	26363.0	25200.5
Ppp1r12a	0.63008	1.03E-17	70.831	T(0.067)PPGS(0.298)S(0.63)PAGT(	3	0.18738	4591.9	4333.0
H3f3c	0.820332	0.00879649	118.33	S(0.18)T(0.82)ELLIR	2	0.20253	1997.3	2281.5
Clip2	0.977089	5.66E-22	87.138	TGNESGSNLS(0.977)DS(0.021)GS(i	3	-0.42921	60968.6	70473.5
Doc2a	0.988148	3.41E-15	80.316	QVPLPS(0.988)PS(0.009)S(0.002)M	2	0.60967	10172.8	10708.4
Tmtc1	0.998066	2.25E-27	101.53	QPGS(0.998)PQPS(0.002)SQQAHP	4	0.273	5271.3	5514.0
LOC68359	1	0.00259803	42.242	GPES(1)PLRS(1)PVR	3	0.92368	19911.8	18432.6
Pik3c2a	1	5.26E-08	93.478	ASVCNLQIS(1)PK	2	1.1219	30551.7	29535.5

106538.7	102008.1	105611.9	105690.0	-0.1	0.1	10
21110.8	17725.9	18772.9	18704.0	-0.1	0.4	56
13759.4	13588.9	13802.6	13066.0	-0.1	0.1	1768
5914.5	5585.2	5713.5	4790.1	-0.1	0.5	350
16676.6	16199.1	14927.9	16272.0	-0.1	0.2	103
220721.6	224633.8	220279.6	223550.0	-0.1	0.2	300
28725.1	25841.4	27882.0	26190.0	-0.1	0.1	88
5230.5	5014.4	5303.9	5324.6	-0.1	0.4	70
4064.9	3203.7	3752.3	3848.3	-0.1	0.5	406
16184.7	15048.5	15412.0	15639.0	-0.1	0.3	196
14859.2	14867.1	14612.6	13880.0	-0.1	0.1	69
75155.2	69114.9	67974.3	70465.0	-0.1	0.1	353
20364.5	16755.7	18690.6	18116.0	-0.1	0.4	417
11672.7	10355.6	10538.4	12414.0	-0.1	0.4	1303
11672.7	10355.6	10538.4	12414.0	-0.1	0.4	1302
200493.4	188467.1	186991.3	198980.0	-0.1	0.1	588
18747.3	17891.9	18890.4	17204.0	-0.1	0.2	350
14570.7	13324.9	16296.8	13328.0	-0.1	0.5	1059
45141.9	42978.7	43490.6	43348.0	-0.1	0.0	194;194
35900.8	30947.4	29193.2	34451.0	-0.1	0.5	2279
208882.8	169514.8	172682.2	200940.0	-0.1	0.5	584
32727.1	32457.6	31246.1	31298.0	-0.1	0.0	323
57716.4	49672.0	53006.9	53901.0	-0.1	0.2	1836;760
21715.5	19781.7	21019.2	21561.0	-0.1	0.1	208
13814.8	13498.7	13353.8	14323.0	-0.1	0.2	257
6077.2	5144.2	5530.6	6153.6	-0.1	0.5	476
26022.0	23488.5	24448.4	25710.0	-0.1	0.1	35
4536.0	4016.8	4396.2	4364.9	-0.1	0.2	601
1994.5	1866.4	1858.8	2229.9	-0.1	0.5	59;59
66461.3	62252.2	60957.6	64660.0	-0.1	0.3	208
10101.9	9683.5	9896.8	9833.0	-0.1	0.1	224
5635.0	5481.9	5285.1	4821.4	-0.1	0.3	258
18220.3	17095.6	19029.3	17574.0	-0.1	0.3	129
28046.9	27334.0	28946.4	27389.0	-0.1	0.2	261



Clip2	0.580396	5.11E-22	87.668	TGNESGSNLS(0.068)DS(0.58)GS(0	3	-0.24686	9242.0	7851.4
Med13	0.983752	0.0430796	55.37	VGAT(0.016)AS(0.984)K	2	-1.2233	4221.0	4430.7
Prpf4b	1	6.76E-41	128.01	EVLDS(1)DKEGLS(1)PAKR	4	-0.97539	180535.9	177546.6
Hspa8	1	0.00443875	107.57	DIS(1)ENKR	2	-0.67383	43089.1	42446.2
Tcof1	0.960003	1.08E-29	126.84	KQQLAAGT(0.002)S(0.038)AGS(0.!	4	0.974	56950.4	58196.8
Osbpl5	0.999838	3.34E-70	162.43	KTNESGSDLLDS(1)PGGPR	3	-0.92737	44769.6	47684.0
Syne1	1	2.80E-29	151.99	LPLPDDHDLS(1)DR	2	-0.42381	53981.9	55103.5
Ctu2	0.814173	1.03E-07	44.708	GS(0.814)VS(0.186)EEIQEYLIEEEEE	4	-0.82816	4911.0	4846.5
Ksr1	1	6.84E-05	70.816	T(1)PPPPSR	2	0.29637	20577.3	19432.9
Nes	0.997451	2.13E-12	70.986	VPLVAS(0.997)PVHLGPS(0.003)QF	3	-0.15567	35163.8	34126.1
Rala	1	0.00215781	51.286	GQNS(1)LALHK	3	-1.5557	4877.1	4857.2
Stau2	0.999517	4.36E-13	68.639	GILHLS(1)PDVYQEMEASR	3	0.45365	11097.4	11479.2
Dlg4	1	0.0110063	76.1	EAGS(1)IVR	2	0.13081	21929.8	20869.9
Map2	0.997931	6.45E-35	71.267	GHDLS(0.998)PLAS(0.001)DILTNTS	7	1.4522	14380.1	14440.9
Zbtb38	0.964112	1.22E-17	73.688	NFS(0.036)NS(0.964)PGPYVVCITEI	4	-0.48779	14399.2	14599.9
Rab2a	0.999985	0.000166417	61.161	YIIIGDT(1)GVGK	3	0.83763	27555.7	27311.0
Chgb	0.656563	6.51E-07	45.069	EAVDDQES(0.017)LHPS(0.657)NQ	5	1.4635	5922.5	6961.6
Sf3b2	0.764256	1.04E-15	126.25	AAS(0.01)S(0.041)ES(0.764)S(0.18	2	-0.49403	34328.9	32235.0
Ahnak2	0.906274	0.0007579	42.958	DT(0.003)T(0.008)QRS(0.083)PVH	3	0.70985	6505.7	6629.2
Pinx1	1	3.63E-26	110.84	EAAGTDIENS(1)PQHK	3	0.078922	65083.3	68004.3
Thrap3	0.999946	1.34E-12	72.772	TDTEKPFGRGS(1)QS(1)PK	4	0.011112	123657.0	131059.4
Slco2b1	0.9971	2.31E-12	106.32	VLGGAS(0.997)IGS(0.003)K	2	0.71229	29307.7	30120.2
Usp20	0.528275	6.45E-34	84.156	EAQPPS(0.415)PRPT(0.528)S(0.52	4	-1.5807	3264.2	3556.2
Usp20	0.528275	8.01E-15	54.869	EAQPPS(0.415)PRPT(0.528)S(0.52	4	-1.5807	3264.2	3556.2
Ttbk2	0.856757	2.22E-07	67.646	DQS(0.005)AT(0.138)T(0.857)EPLI	3	0.50084	7194.5	6813.3
Mlip	0.665121	0.0505251	55.112	QT(0.014)PS(0.665)T(0.321)PK	2	-0.90518	7528.7	7653.6
Mcmbp	0.983872	0.00204195	41.577	VHS(0.984)PPAS(0.016)LVPR	3	0.94379	1239.3	1214.6
Epb41l3	0.825943	4.92E-12	67.136	S(0.002)LDGAS(0.172)VNENHEIY((	2	-0.73705	10414.5	10566.9
Clmn	0.963875	0.029774	63.734	S(0.036)NS(0.964)LPVK	2	-0.87343	46249.7	48293.9
Zfp609	0.582336	0.0182042	50.354	S(0.004)KS(0.386)PT(0.582)IS(0.02	2	-0.8984	5752.3	5906.1
Nup98	1	3.65E-43	134.33	YGLQDS(1)DEEEEEHPPK	3	-0.066371	198056.4	194417.2
Akap12	0.795777	5.81E-24	94.569	ALGS(0.006)LGGS(0.796)PS(0.198)	3	2.989	13068.2	13551.3
Ddx23	0.857291	0.00663228	54.486	KS(0.006)S(0.857)PS(0.137)KDR	3	-0.64155	97985.8	102355.3
Sccpdh	1	1.00E-30	128.59	SAIYGFQDKGS(1)LRK	4	1.3019	81881.0	78722.3

8597.1	6593.6	9247.1	8549.6	-0.1	0.7	210
4244.2	4287.1	3586.2	4370.2	-0.1	0.4	1291
183480.4	168271.8	165607.7	180290.0	-0.1	0.1	94
39314.0	38680.1	40681.1	39174.0	-0.1	0.2	254
54511.8	55853.8	54739.1	50489.0	-0.1	0.2	1254
44654.3	43338.4	42863.3	43975.0	-0.1	0.1	332
54801.4	52132.6	52003.4	51466.0	-0.1	0.0	2444;8227
4974.8	4507.5	4255.4	5224.6	-0.1	0.4	492
19855.6	17497.1	20771.2	18572.0	-0.1	0.4	276
37180.5	34138.3	33177.1	33775.0	-0.1	0.1	1866
4808.0	4704.0	4709.8	4393.9	-0.1	0.1	11
9694.8	10007.0	11956.0	8678.2	-0.1	0.6	384
21996.6	20637.4	20910.2	19976.0	-0.1	0.1	82
14257.7	13069.7	13710.7	14123.0	-0.1	0.1	810
14460.0	13152.2	14174.5	13938.0	-0.1	0.1	130
27299.5	25280.4	26413.7	26327.0	-0.1	0.0	15
6718.4	5665.7	6191.3	6756.6	-0.1	0.5	142
30696.8	30415.0	31052.7	30887.0	-0.1	0.2	328
6344.8	6630.2	6431.6	5435.3	-0.1	0.4	6038;7409
61643.8	60777.2	63446.5	60686.0	-0.1	0.2	233
136763.9	121677.5	121312.5	128750.0	-0.1	0.2	403
33172.1	30110.3	27472.7	30348.0	-0.1	0.4	311
3523.1	3350.3	3093.7	3378.3	-0.1	0.3	355
3523.1	3350.3	3093.7	3378.3	-0.1	0.3	360
7154.7	6580.9	6923.4	6592.3	-0.1	0.1	750
7876.8	7109.7	7798.9	6989.2	-0.1	0.2	341
1284.1	1324.2	1124.3	1101.2	-0.1	0.4	298
11509.8	10822.2	9832.0	10201.0	-0.1	0.3	459;459;459
50361.8	41617.0	46606.8	49385.0	-0.1	0.4	474
6574.7	5650.4	6294.5	5370.2	-0.1	0.5	1315
211448.5	185695.2	180622.2	207200.0	-0.1	0.4	841
15696.0	12594.5	13408.3	14183.0	-0.1	0.5	1352
97919.4	94342.4	95464.1	93445.0	-0.1	0.0	38
76759.6	73589.5	76085.3	75748.0	-0.1	0.1	209

Map1a	0.838394	1.22E-71	106.6	FTDQSLSPEDAES(0.009)LS(0.009)\	4	1.5316	101576.9	104359.4
Eif2b5	1	1.30E-09	127.78	AGS(1)PQLDDIR	2	-1.1392	206953.7	207986.0
Ahnak2	0.98878	1.48E-233	219.04	RDS(0.989)GES(0.009)T(0.002)AF/	5	0.76423	169408.2	178281.6
Pura	0.788848	0.00176653	91.549	NS(0.211)IT(0.789)VPY(0.001)K	2	0.99649	31903.0	29999.5
Fam195a	0.805822	1.31E-25	73.016	RPLT(0.054)T(0.054)S(0.054)PS(0.	3	0.64095	5628.0	5911.3
Dennd4b	0.985533	0.000734463	72.34	S(0.986)APS(0.012)S(0.003)PAPR	2	-0.71194	3126.4	3612.6
Kmt2c	0.939844	2.40E-16	68.445	S(0.004)DPLES(0.94)PDT(0.055)VC	3	0.81598	9678.1	9671.2
Arhgef12	0.999069	4.12E-44	95.519	YRPAS(0.999)EEAQADS(0.001)GIP	4	1.1894	33430.8	34409.1
Golga3	0.971116	0.000983664	48.527	RLGS(0.971)DLT(0.023)S(0.006)AC	3	2.2635	6232.5	7483.6
Phactr4	0.652538	1.12E-21	73.574	LGS(0.036)T(0.151)GS(0.653)QPS(	3	-0.713	6357.3	6591.6
lws1	0.942078	2.05E-12	68.41	AAVLS(0.056)DS(0.942)EDEDKAS(i	3	0.35333	26304.5	26059.4
Anxa4	0.931898	0.000123899	50.358	AAS(0.932)GFNAT(0.068)EDAQVLI	2	1.5503	17187.7	18160.5
Dnal1	0.824109	0.00064704	55.04	LS(0.025)LS(0.824)T(0.151)NCIEK	2	-0.38037	4244.6	4951.9
Gnl3	0.999311	8.27E-30	119.5	EMS(0.999)PGQSTASKPSDR	3	-1.1637	25172.7	26968.7
Map2	0.638052	3.52E-66	93.492	EES(0.638)T(0.18)ET(0.18)PDIPAIF	4	-0.059641	20040.6	19959.5
C2cd2l	0.508974	3.05E-26	81.884	NLGT(0.965)PT(0.409)S(0.509)S(0	4	-0.50957	36121.5	33987.9
Hmgn3	1	4.74E-09	106.32	S(1)PENAEKG	3	0.77603	334415.4	328975.7
Gemin5	0.942731	3.02E-05	52.372	APSQPPS(0.943)PT(0.057)REER	3	-1.1973	15693.3	15433.6
Ndrg1	0.903184	1.33E-166	218.34	T(0.009)AS(0.044)GS(0.046)S(0.90	2	2.1081	120961.6	127329.9
Scn7a	0.749575	1.26E-53	137.43	ENIS(0.75)GHT(0.25)LS(0.001)ELSI	3	-0.4589	24751.7	25290.5
Pld1	0.794503	7.13E-34	83.944	VT(0.19)S(0.795)GQS(0.015)LGSLT	3	-0.43855	5790.1	5412.1
Srsf1	0.999823	2.00E-05	58.885	VDGPRS(0.998)PS(1)Y(0.003)GR	3	0.33976	118326.9	121944.0
Plec	0.900547	0.000853197	41.257	YAS(0.901)GPS(0.093)AS(0.006)LC	2	0.8943	13935.3	12373.2
Lyst	0.963702	7.15E-08	60.489	LLT(0.036)ES(0.964)PKEDHFVAK	3	2.6416	31996.0	28686.5
Msl1	0.985366	1.28E-27	84.276	S(0.985)PLGGGGGS(0.014)GASSQ	3	-0.39776	10804.1	12402.8
Slu7	1	3.29E-05	118.31	LVEQANS(1)PK	2	1.1351	46525.2	44877.0
Smim13	0.957083	5.08E-118	137.35	ELVGDGTGSQEGDNEQPSGSEAEEDP	4	-0.13797	74247.9	79855.4
Specc1	0.732771	1.31E-78	102.47	ASLSPDASDFEHIT(0.001)ADT(0.00	4	-0.10175	13369.9	12932.6
Map2	0.92142	8.16E-41	110.56	S(0.006)PAS(0.024)PFAQT(0.921)F	2	-0.039821	40863.6	40821.7
Myo6	0.91776	1.57E-13	76.378	VMLT(0.001)T(0.01)AGGT(0.072)k	3	0.12763	12842.8	14048.2
Pex14	0.987003	0.00583997	49.159	VRQS(0.987)PLAT(0.013)R	2	-0.95635	34854.9	34942.2
Atp2b1	0.999833	7.20E-56	133.61	NS(1)LKEANHDGDFGITLAELR	3	-0.010381	59319.1	63539.9
Srrm2	0.595239	2.97E-05	118.9	EIS(0.098)S(0.533)S(0.608)PT(0.50	2	-3.4899	15887.7	15953.5
Dpysl2	1	0.00566615	83.998	TIEAHS(1)R	2	0.5464	10339.7	10873.1

107677.9	94547.0	100278.3	103020.0	-0.1	0.2	1386
190996.8	188269.1	189630.9	197570.0	-0.1	0.2	539
171481.9	160902.1	158629.5	173540.0	-0.1	0.2	66;66
30400.9	28794.7	28805.3	30063.0	-0.1	0.1	255
6859.7	4966.5	6425.4	6082.1	-0.1	0.6	82
3442.6	3114.0	3356.3	3199.8	-0.1	0.3	693
10040.6	9423.0	9640.2	8850.8	-0.1	0.1	596
32091.5	31147.6	30946.9	32819.0	-0.1	0.1	1290
8181.7	6675.1	6792.1	7331.4	-0.1	0.6	939
7133.3	6627.4	6502.9	5944.0	-0.1	0.3	148
26155.1	25009.8	23945.1	25626.0	-0.1	0.1	344
17712.4	16876.7	16442.2	17081.0	-0.1	0.1	12
5180.8	4155.2	4761.2	4739.9	-0.1	0.5	56
24788.1	22841.8	24320.2	25910.0	-0.1	0.3	505
19612.8	19250.4	19882.1	17492.0	-0.1	0.2	1293;1207
32660.0	32652.3	34153.9	30812.0	-0.1	0.3	420;420
373678.7	335003.7	347330.6	302770.0	-0.1	0.4	6
16031.4	14646.0	15487.9	14663.0	-0.1	0.1	1407
118995.0	107488.1	119741.5	121680.0	-0.1	0.3	333
26749.1	23671.1	24707.0	24572.0	-0.1	0.1	789
6298.3	5541.6	5607.0	5476.8	-0.1	0.3	505
128055.1	113592.8	112432.0	123900.0	-0.1	0.3	201
15555.5	12675.9	12305.4	14792.0	-0.1	0.6	4673;4559;4530
27459.2	26947.9	27715.3	29081.0	-0.1	0.4	195
13168.6	11246.0	11570.2	11745.0	-0.1	0.4	206
49181.1	41342.0	45362.9	46868.0	-0.1	0.3	215
69425.3	69336.0	65673.5	77374.0	-0.1	0.5	70
13357.0	12771.6	12897.5	12014.0	-0.1	0.1	343
42626.1	39408.3	37956.1	40754.0	-0.1	0.1	311;225
12032.6	12009.4	13012.9	11964.0	-0.1	0.4	405
31886.0	31492.9	32066.8	33063.0	-0.1	0.2	44
61222.2	57390.4	58432.4	59101.0	-0.1	0.1	17
15619.4	14152.1	16805.5	14142.0	-0.1	0.4	455
10135.4	9575.5	10627.6	9585.8	-0.1	0.3	62;163

Pvalb	0.920456	0.0225295	68.224	GFS(0.08)S(0.92)DAR	2	-0.37849	20764.5	27187.0
Gpr158	0.776513	5.23E-09	57.484	VKEDS(0.006)EAES(0.777)T(0.214)	4	0.67181	14722.4	16333.1
Ppp1r1b	0.855049	2.94E-59	96.903	IAESHLQTIS(0.012)NLS(0.133)ENC	3	1.159	10696.2	11131.5
Cobl	0.947552	8.05E-12	92.264	KS(0.03)S(0.948)LGNDDET(0.023)DI	4	0.67718	73277.0	77374.2
Ints6	0.999889	2.06E-05	87.641	S(1)HEEVNTELK	3	-0.33549	44984.3	40057.1
Msn	0.866763	0.0783864	52.482	AFS(0.133)T(0.867)WLK	2	-1.2201	8066.8	9473.2
LOC50068	0.507998	0.00501951	54.205	REKS(0.492)PT(0.508)K	4	1.0093	13959.1	14490.2
Pcyt1b	0.746004	7.08E-28	83.064	S(0.05)PS(0.064)PT(0.265)FS(0.12)	3	0.20748	37969.0	36980.3
Dcaf5	0.980362	5.58E-11	65.423	S(0.98)QDQS(0.019)PEGCS(0.001)	3	-0.29382	3767.8	3852.5
Tpd52l2	0.999881	1.58E-07	86.497	S(1)WHDVQGSTAYK	3	-0.39128	45555.6	45808.3
Acsl4	0.996144	6.39E-07	62.237	AKPT(0.002)S(0.002)DKPGS(0.996)	3	0.049871	47942.1	50161.9
Sec16a	0.825251	1.51E-42	91.503	FT(0.009)GS(0.166)FDDDT(0.825)I	3	-0.062498	46258.1	45000.9
Ube2o	0.99975	5.79E-09	50.957	GSSGCSEAGGAGHEEGRAS(1)PLR	3	0.29018	1762.8	1571.9
Whsc1	0.920419	6.54E-31	127.32	S(0.035)S(0.044)S(0.92)AENQEGD	2	1.079	19930.9	21355.8
LOC10369	1	1.06E-09	122.33	LS(1)PAEEAHQR	3	0.79893	21754.5	22850.9
Ralgps1	0.946685	0.00781733	55.806	IEPGS(0.006)S(0.047)S(0.947)PR	2	0.78748	7978.9	10289.4
Fam21c	0.743106	1.90E-17	94.188	S(0.743)T(0.199)GVFQDEELLS(0.0	3	1.0986	28830.6	25399.1
Cic	0.799293	9.16E-43	80.098	GEPPT(0.197)PPS(0.799)PAPAPAT	3	0.51935	44789.9	46556.4
C2cd2l	0.98374	3.04E-22	87.652	S(0.984)PS(0.014)KVEVT(0.002)EK	3	0.45428	185580.9	177184.7
Pitpnm2	0.828893	0.00429233	44.847	WS(0.829)S(0.171)NDLMDK	3	-0.19121	2036.1	1975.3
Gsk3a	0.694833	1.42E-91	108.23	TSSFAEPGGGGGGGGGGPGRS(0.2)	4	-0.54676	43293.1	41544.6
Nefm	0.999981	3.23E-148	197.4	AEEEGGSEEEVGDKS(1)PQESK	4	0.4159	9276780.2	9275950.6
St5	0.559937	3.85E-37	104.52	T(0.031)LS(0.161)ECS(0.56)Y(0.24)	3	0.95299	10524.0	12261.3
Pkn3	0.49996	1.86E-05	52.576	VEVTEFEDIKS(0.5)GY(0.5)R	3	2.0883	12178.5	12792.2
Pkn3	0.49996	1.86E-05	52.576	VEVTEFEDIKS(0.5)GY(0.5)R	3	2.0883	12178.5	12792.2
Tmem55a	0.626434	2.65E-83	119.97	SPLLSASHS(0.021)GNVT(0.352)PT(	4	0.33137	5920.6	5671.0
lws1	0.726802	7.44E-15	56.57	VSDSESDPQKGPAS(0.727)DS(0.2	3	1.2207	4079.4	3889.0
Fubp3	1	3.04E-06	56.121	IQFKPDDGIS(1)PER	3	-0.027848	25801.2	25843.3
Vps13d	0.995734	2.63E-22	91.276	S(0.003)YPQT(0.996)PPPS(0.944)F	3	-0.098192	58175.3	67090.6
Tmpo	0.829529	1.00E-11	56.854	QNGS(0.001)NDS(0.018)DRY(0.11	4	-0.35683	35571.7	33468.0
Ralbp1	1	5.10E-12	65.16	AKS(1)EQQLQEEEEPERR	4	-0.75205	14575.7	14447.5
Ccdc132	0.69645	1.48E-29	80.729	FLEQS(0.008)RS(0.68)PS(0.337)VS	4	1.0267	16267.0	15220.8
Utrn	0.995691	3.60E-11	61.345	YGHLEAS(0.996)PDDGQNQFS(0.00	3	-0.7445	13717.0	13650.0
Syne2	0.61947	1.23E-06	86.944	T(0.006)NS(0.374)MS(0.619)FLPA'	2	0.29271	19042.3	18454.5

21025.6	22575.6	22836.9	20134.0	-0.1	0.6	73
16360.4	15071.6	14871.2	15115.0	-0.1	0.2	443
11870.8	10938.1	10412.5	10672.0	-0.1	0.2	102
71935.7	68814.6	68774.7	73931.0	-0.1	0.2	219;219
40388.3	38982.6	41043.4	39168.0	-0.1	0.3	790
8849.3	8003.7	8812.0	8261.6	-0.1	0.4	57
13678.5	12135.9	13404.0	14494.0	-0.1	0.4	876
35420.6	33874.4	34692.5	36317.0	-0.1	0.2	307
4449.0	3825.7	3725.6	3918.5	-0.1	0.4	637
44378.5	40214.5	42597.2	46188.0	-0.1	0.3	96
43967.6	48957.0	42248.8	43809.0	-0.1	0.4	16
47822.7	45433.8	42403.8	44338.0	-0.1	0.1	1335
1727.7	1747.6	1447.9	1615.5	-0.1	0.5	73
17919.0	18587.1	18044.1	19637.0	-0.1	0.4	408
21579.2	20276.7	20665.4	21959.0	-0.1	0.2	333
8710.5	10059.8	8559.5	7022.1	-0.1	0.7	292
29572.6	26289.0	28932.5	24430.0	-0.1	0.5	829;795
48731.9	43368.1	42676.3	47097.0	-0.1	0.3	2194
178434.0	172198.7	169561.7	172640.0	-0.1	0.0	469
2096.1	1702.5	2052.2	2050.4	-0.1	0.5	364;340
45548.6	40358.6	39638.1	43934.0	-0.1	0.3	41
10208532.5	8664602.5	8289898.1	10383000.0	-0.1	0.5	720
9961.0	10247.7	10309.7	10568.0	-0.1	0.5	250
12130.5	11433.0	12077.8	11754.0	-0.1	0.1	264;132
12130.5	11433.0	12077.8	11754.0	-0.1	0.1	266;134
5918.5	5168.1	5689.8	5785.8	-0.1	0.2	24
3928.4	3467.3	3840.2	4000.9	-0.1	0.3	261;261
22995.2	23764.6	23359.5	23824.0	-0.1	0.3	296
63682.6	58660.9	58436.7	62507.0	-0.1	0.3	1762
38120.6	32759.0	32111.7	36991.0	-0.1	0.4	183
14745.3	13755.0	13786.6	14063.0	-0.1	0.0	600
14014.9	13297.4	14837.1	15119.0	-0.1	0.4	498
14155.5	13582.3	12675.2	13213.0	-0.1	0.1	10
19126.3	18213.1	16762.7	18850.0	-0.1	0.2	4107

Tln2	0.806764	3.30E-42	93.949	DRFGLEGDEES(0.004)T(0.018)MLE	3	0.62603	36474.5	38739.7
Lrba	0.881872	6.20E-06	46.273	S(0.009)AAKS(0.882)PVDIVT(0.09)	3	-2.1505	7266.0	6875.9
Emcn	0.894983	5.33E-15	80.632	TIS(0.003)HES(0.895)GEHS(0.101)	4	-0.059009	10181.5	11178.7
Plcb1	0.542384	1.31E-101	137.5	S(0.011)EPS(0.542)S(0.447)PDHGS	4	-1.4862	19843.8	19063.3
Rab3il1	0.751065	3.44E-09	76.82	TLVIT(0.005)S(0.134)T(0.11)PAS(0	2	-1.535	5709.2	5438.5
Cwc25	0.998478	0.0064007	70.412	ERDS(0.998)PS(0.002)PK	2	1.1023	4212.5	3917.5
Atp2a2	0.999594	1.90E-35	164.68	EFDELSPS(1)AQR	2	-0.45061	41990.7	40523.3
Akap11	0.996156	2.35E-12	102.52	S(0.001)LYRS(0.996)PS(0.003)ASD	3	-0.066363	49261.2	44006.0
Golgb1	0.949839	6.47E-129	200.69	EQVEDSGAES(0.05)S(0.95)PK	2	0.42726	54878.8	54354.3
Jun	0.620604	6.64E-09	44.953	LQALKEEPQT(0.003)VPEMPGET(0.	4	2.3022	2508.4	3136.0
Bag6	0.816293	1.94E-42	89.659	T(0.227)S(0.816)PEPQREDAS(0.94	3	-0.87565	17872.3	17151.4
Kif21a	1	0.0118801	47.894	QVRPMS(1)DK	2	0.34296	35917.5	38012.5
Acin1	0.499952	2.49E-15	58.712	APVVLQPEQIVS(0.5)EEET(0.5)PPPI	4	0.12887	60548.8	60618.8
Acin1	0.499952	2.49E-15	58.712	APVVLQPEQIVS(0.5)EEET(0.5)PPPI	4	0.12887	60548.8	60618.8
Mettl10	0.999992	2.76E-28	106	EGS(1)PVADDFVPSALGTR	3	-0.16243	53037.3	54624.2
Akap13	1	6.89E-16	90.434	LEPDQVS(1)PR	2	-0.19415	70111.7	72105.7
Wipf3	0.878052	4.64E-83	166.91	GGG(0.122)T(0.878)PPALGDLFAGC	3	0.03633	50057.9	48456.2
Fbn2	0.953503	1.71E-22	63.706	GQYLS(0.019)VDS(0.954)EAEDDEN	3	-0.7103	35082.7	36664.4
Aup1	0.939371	5.21E-31	72.214	LRPQS(0.939)VQS(0.029)S(0.029)F	4	-0.028915	2669.7	2946.9
Pgls	0.847247	0.000112409	44.132	FALGLS(0.064)GGG(0.847)LVS(0.0)	3	-1.9782	727.6	879.8
Mon2	1	3.92E-10	85.563	SFQEILQIVS(1)PAR	2	0.42301	13587.0	13992.2
Nefh	1	2.34E-28	117.37	S(1)PVKEEAKS(1)PAEAK	4	0.43928	2083134.0	2100591.9
Smarca4	0.999998	2.72E-33	111.45	GRPPAEKLS(1)PNPPNLTK	5	0.066512	165746.7	169275.9
LOC100361	0.995672	0.000277633	83.948	IS(0.003)GLIY(0.001)EET(0.996)R	2	0.19144	18083.4	18936.0
Maoa	0.591056	2.60E-17	75.968	VLGS(0.405)QEALY(0.591)PVHY(0.	3	-1.1144	4972.4	5359.9
Wdr44	0.955337	2.58E-67	153.57	YNTEGRVS(0.955)PS(0.043)PS(0.0	3	-0.23919	160021.8	167049.2
Tfeb	0.78144	3.21E-43	91.733	VHGLPT(0.031)T(0.151)S(0.781)PS	4	0.59337	18316.0	18870.2
Dennd5b	0.994021	3.11E-10	83.54	RKS(0.994)DS(0.006)GVMLPTLR	4	-0.6668	33638.3	32854.8
Hdgfrp3	1	3.65E-06	53.033	S(1)PGDEDDKDCKEENK	4	-0.95532	73473.8	80032.0
Dtna	0.707082	9.38E-06	56.793	S(0.213)APDVS(0.707)FT(0.079)ID	2	0.88673	16235.9	17548.4
Syne1	0.537753	6.55E-05	42.947	LLGECG(0.538)GS(0.452)IDS(0.01)	3	0.40001	5470.8	5480.0
Ankrd11	0.585121	6.31E-29	77.445	QQS(0.246)VPAAS(0.585)S(0.155)	3	0.38569	12319.2	12749.4
Fkbp3	0.980874	1.50E-39	137.45	QKDS(0.001)KS(0.018)EET(0.981)L	4	2.1233	49605.9	52852.6
Sp2	0.999984	4.40E-29	78.78	IGPPAVEAAVT(1)PPAPPQPTPR	4	-0.16739	14191.7	11915.8



36246.8	36138.1	35187.2	34630.0	-0.1	0.1	428
6765.6	6802.5	6469.2	6603.4	-0.1	0.1	1430
9688.7	10243.5	9689.2	9583.1	-0.1	0.4	239
19042.2	17133.0	19219.6	18736.0	-0.1	0.2	981
5908.1	5389.3	5281.9	5542.8	-0.1	0.1	169
4029.9	3492.4	4585.2	3482.1	-0.1	0.6	306
43277.7	41646.7	38625.1	39311.0	-0.1	0.2	663
47469.2	44638.6	46654.9	42497.0	-0.1	0.3	348
48951.2	49624.7	49784.9	50971.0	-0.1	0.3	908
3302.8	3329.1	2586.3	2590.4	-0.1	0.7	246
18518.4	16898.7	14925.7	19077.0	-0.1	0.5	978
35469.6	34340.7	31989.9	37674.0	-0.1	0.4	843;830;830
62625.4	57036.2	55075.8	62625.0	-0.1	0.3	305;411;411
62625.4	57036.2	55075.8	62625.0	-0.1	0.3	309;415;415
55807.5	49267.2	52246.0	53903.0	-0.1	0.2	21
72988.7	67876.3	66016.5	70715.0	-0.1	0.1	765
47930.2	45330.4	45741.2	48162.0	-0.1	0.1	95
40814.1	34859.9	34244.7	37916.0	-0.1	0.4	2741
3166.8	3011.4	2584.0	2755.8	-0.1	0.5	280
698.0	628.6	763.4	800.0	-0.1	0.6	83
16479.6	12881.6	13279.0	15732.0	-0.1	0.6	1174
2188371.6	2214988.8	1781750.0	2062100.0	-0.1	0.5	512;512
155501.6	157250.2	156919.7	152240.0	-0.1	0.1	1419
19308.3	17657.7	17691.4	18210.0	-0.1	0.1	55;393
4487.7	4467.2	4766.4	4858.0	-0.1	0.4	388
151285.6	150353.5	149984.2	154520.0	-0.1	0.2	563;567
17244.0	17164.9	17788.6	16803.0	-0.1	0.2	332
32501.4	30166.4	31101.8	32864.0	-0.1	0.1	833
88229.0	75816.9	70498.4	83550.0	-0.1	0.5	161
17837.0	16093.5	16374.8	16619.0	-0.1	0.2	480
5223.8	4714.1	5733.9	4932.6	-0.1	0.5	2601;8407
12717.1	11638.7	11562.7	12730.0	-0.1	0.2	1766
49923.2	46687.8	46481.7	51735.0	-0.1	0.3	103
13921.3	12085.3	13273.6	12706.0	-0.1	0.5	55

Rb1cc1	0.999961	8.37E-41	118.96	S(1)VEHVAPDVTDAEQGK	3	0.19453	100501.1	104510.8
Ybx1	0.987852	7.95E-18	97.631	NEGS(0.012)ES(0.988)APEGQAQQ	3	0.35803	4856.6	5675.1
Ercc5	0.999994	1.81E-07	74.094	ETLEEGS(1)PR	2	0.73576	24690.9	25713.9
Scaf4	0.88482	4.59E-15	51.229	IEIIQLLDMAAGT(0.038)S(0.038)N	5	0.33217	21252.4	21669.6
Hspa4l	1	2.29E-08	97.223	S(1)FDDPIVQTER	2	-0.54929	66187.7	65958.6
Slc3a2	0.988483	0.00233692	43.761	FT(0.012)GLS(0.988)KEELLK	3	0.54815	9794.9	10553.2
Tmem245	0.994117	9.15E-46	167.01	SSPS(0.001)S(0.005)PS(0.994)PTLC	2	0.13558	30605.3	30375.8
Sept9	0.999989	4.16E-10	79.837	KSVQPIS(1)EERIPK	4	0.17146	33974.7	35009.1
Fam134c	0.69378	0.0204125	57.149	AMS(0.694)GS(0.306)WER	2	-0.65184	10517.4	10520.4
Map1a	0.91783	2.53E-53	130.37	GFKS(0.007)PPCEDFS(0.918)VT(0.1	3	-0.50095	64194.8	63241.5
Add1	0.914155	3.36E-11	50.189	KY(0.001)S(0.914)DVEVPAS(0.043	4	0.97664	9489.4	9621.4
Map1b	0.993966	0.000631979	77.387	QPGVQS(0.994)PS(0.006)R	3	-1.3769	58298.2	53744.4
Map1b	0.993966	0.000631979	77.387	QPGVQS(0.994)PS(0.006)R	3	-1.3769	58298.2	53744.4
Recql	0.999999	2.97E-28	150.34	AAS(1)PEACEVDSK	3	0.08841	181239.6	187024.0
Ktn1	1	2.11E-06	71.98	QKPS(1)LEEHIK	3	0.34013	40821.8	38034.4
L1cam	0.964703	0.000199111	52.172	DKEDT(0.965)QVDS(0.035)EAR	3	0.41289	19251.0	15066.1
Exoc2	0.980237	7.81E-08	40.351	GNPGPHS(0.98)PMLDLNDARPS(0.9	5	-0.31976	5942.6	5554.8
Sugp1	0.999213	3.00E-84	122.57	ALQQHQHGYDS(0.999)DEEVDS(0.999	4	-0.92996	5299.1	5047.6
Top2b	0.788741	1.14E-06	58.268	AS(0.106)GS(0.106)ENEGDY(0.789	3	0.36404	8152.8	8435.2
Hdac7	0.994829	0.000256654	93.178	KT(0.005)VS(0.995)EPNLK	3	0.43682	63033.1	62079.9
Nefl	0.991593	9.78E-33	109.72	S(0.004)AY(0.004)S(0.992)GLQSSS	3	0.59199	15585.9	15013.5
Nefh	1	2.62E-49	122.79	S(0.001)PAEVKS(0.999)PAEAKS(1)	5	-0.35686	1508143.2	1630563.9
Arhgef1	0.793529	0.000693551	83.182	T(0.013)LT(0.794)PT(0.194)PDGK	2	1.7064	35637.3	34794.1
Sptan1	1	3.07E-15	128.85	WRS(1)LQQLAEER	3	-0.062966	49210.0	46321.6
Zfp639	0.824096	4.13E-06	47.68	YFDNKDDDS(0.176)DPET(0.824)AI	3	0.065675	17921.2	15953.5
Kctd15	0.952139	2.07E-26	77.576	S(0.952)PVS(0.048)PLAAQGIPLPAI	3	0.22534	4089.3	3792.5
Palm3	0.999503	6.30E-05	79.036	EAEGS(1)PETEK	3	0.80449	20586.8	22166.5
Cd5l	1	0.00948763	65.535	EES(1)LELCR	2	-1.0935	11541.1	9972.5
Nefm	0.921461	5.07E-23	93.869	FST(0.002)FS(0.022)GS(0.921)IT(0	3	-0.75678	29087.1	31175.4
Lars	0.993082	1.08E-13	121.24	S(0.007)LGLS(0.993)DEDIAK	2	0.89988	55457.2	53601.8
LOC103681	0.934976	1.02E-26	79.942	S(0.002)S(0.002)DAVS(0.935)ET(0	4	-0.20713	37625.5	40591.3
Atrx	0.999991	3.26E-25	137.61	LS(0.004)LS(0.996)DGES(1)GEEKK	3	1.1697	82735.0	85382.8
Hcn4	0.998682	2.30E-07	55.344	GGLS(0.999)PPGHS(0.001)PGPPR	3	0.72703	13186.3	14592.3
Sgip1	1	0.000516301	41.088	HVPS(1)PLNLEEVQKK	4	1.9731	1716.9	2015.1

106268.3	90252.8	94319.6	111440.0	-0.1	0.5	261
6044.8	5194.2	5244.5	5324.8	-0.1	0.5	174
25984.7	23322.4	23642.7	25678.0	-0.1	0.2	691
19374.4	20551.6	19345.7	19344.0	-0.1	0.3	154
66234.6	62240.1	60877.4	65538.0	-0.1	0.1	74
9998.7	9029.2	10462.7	9367.5	-0.1	0.4	58
27675.4	27360.4	28245.3	28711.0	-0.1	0.2	329
35231.1	32514.8	33369.5	33230.0	-0.1	0.0	312
9719.8	9124.5	9763.0	10365.0	-0.1	0.3	26
73304.9	58522.3	61811.4	70591.0	-0.1	0.5	1152
10628.3	9505.7	8925.1	9854.1	-0.1	0.3	408;408
66364.5	56392.7	55474.4	57818.0	-0.1	0.5	1070
66364.5	56392.7	55474.4	57818.0	-0.1	0.5	944
179136.7	170251.8	172799.7	177610.0	-0.1	0.0	499
36832.4	34982.0	37416.4	37643.0	-0.1	0.3	124
18410.9	15698.6	18241.8	16214.0	-0.1	0.6	1156;1156
6223.6	5726.5	5257.5	5872.2	-0.1	0.3	404
5383.5	4474.0	5361.7	5127.0	-0.1	0.4	484
9075.8	8119.8	7344.9	8947.1	-0.1	0.5	1547
62116.5	57443.2	59482.9	61174.0	-0.1	0.1	178
14976.3	13500.9	15095.7	14757.0	-0.1	0.2	426
1655518.3	1461406.5	1503047.6	1596100.0	-0.1	0.3	568;568
34247.4	33196.8	34194.5	32187.0	-0.1	0.1	693
53770.8	45782.5	45529.6	50716.0	-0.1	0.4	1197
17864.7	16184.8	15128.8	17905.0	-0.1	0.5	20
4335.8	3790.9	3872.6	3959.9	-0.1	0.3	35
19728.9	20358.1	16922.0	22164.0	-0.1	0.6	503
9344.5	9793.4	10611.4	8954.2	-0.1	0.6	319
27352.8	26660.8	28269.9	28429.0	-0.1	0.3	416
47467.1	49548.8	48766.5	50609.0	-0.1	0.4	169
42502.6	38053.1	37260.4	39545.0	-0.1	0.3	703
88617.6	79769.1	79460.1	85044.0	-0.1	0.2	1333
14273.7	12540.6	13072.7	14398.0	-0.1	0.4	1024
1647.6	1629.9	1868.2	1620.5	-0.1	0.6	399

Tbc1d10b	0.640203	8.98E-13	53.674	VTVTPAPET(0.012)T(0.037)ENFQC	3	-0.6602	5993.1	6724.5
Dopey2	0.509326	1.81E-07	58.304	LS(0.489)Y(0.001)T(0.509)QS(0.00	3	0.80365	7345.8	7650.1
Zzef1	0.889406	3.56E-118	157.64	LLPSSGSPSAAEVSTAEEPS(0.001)SPS	4	0.31377	13207.7	11073.4
Dock5	0.503185	9.03E-11	51.473	LT(0.001)PFHS(0.014)PS(0.174)PLI	5	0.36621	3227.7	2602.2
Nf1	0.987632	3.08E-60	140.41	KVS(0.988)VS(0.012)ESNVLLDEEVI	4	0.3608	36818.0	37820.5
LOC10255	0.951025	9.89E-05	60.157	T(0.022)PS(0.026)LS(0.951)PAS(0.	2	0.76152	3804.8	4170.5
Rgs7bp	0.91985	0.00144572	51.092	RGS(0.8)GS(0.28)ES(0.92)AHK	3	0.66885	9312.9	8740.5
Dgkh	0.782765	0.00053348	43.794	DQLVNDFGKPS(0.217)S(0.783)QK	3	-1.1747	11324.5	9161.2
H2afy	0.958373	3.14E-30	83.934	AAS(0.958)ADS(0.017)T(0.019)T(0	3	-0.072782	15805.4	14449.7
Foxc1	0.536088	9.44E-43	87.739	IESPDSSSSS(0.001)LS(0.011)S(0.05	3	0.50209	5289.1	4884.8
Trim9	0.694959	4.82E-09	42.791	VFPPAMPPPPT(0.305)HLS(0.695)F	4	0.36844	2733.1	2582.0
Bcor	1	0.00895142	97.431	AAS(1)PLQK	2	0.22882	16730.9	16163.0
Dbn1	0.978819	8.96E-73	140.03	KS(0.021)ES(0.979)EVEEAAIIAQR	4	0.0063775	32095.0	30754.2
Tbc1d5	0.983084	2.28E-22	61.725	GDVVVTGSDAQVS(0.001)VPVQALTI	3	-1.8961	4281.4	3639.9
Luc7l3	1	0.00560516	61.161	EQDRKS(1)K	4	-0.044903	29456.8	28640.4
Pds5b	0.706755	9.21E-59	140.8	AES(0.27)PET(0.707)S(0.024)AVES	3	-0.44126	75952.2	74108.7
Srrm2	0.653084	6.65E-09	58.361	S(0.05)GS(0.187)S(0.757)QELDGKI	3	0.080388	16303.9	17054.8
Taf3	1	0.0193015	70.332	AALS(1)PAR	2	0.76681	8145.4	9682.9
Eif4g1	0.99923	0.0186711	71.692	SSLS(0.999)RER	2	-0.30047	6299.6	5014.8
Erc1	0.966796	0.0198555	57.477	AS(0.967)PEMS(0.033)DR	2	-0.62916	17640.9	16938.6
Snap29	0.890201	0.000199208	84.365	S(0.08)LS(0.89)LMY(0.025)ES(0.00	2	-0.6158	9676.8	9279.4
Rnf219	1	0.015129	73.233	APS(1)ADGK	2	0.41575	11688.7	11871.9
Rabl6	0.831492	2.22E-110	147.64	LFGT(0.168)S(0.831)PAAEATISPPE	3	-0.50629	10417.0	10417.1
Clgn	0.947443	5.87E-73	141.36	SGS(0.002)EDEMKDADES(0.947)TI	3	-0.29365	245429.6	243240.9
Slbp	0.666899	0.00573446	43.03	KS(0.044)S(0.667)S(0.164)GS(0.04	3	-0.16196	11186.4	8229.3
RGD13115	0.795683	0.000565915	61.344	S(0.088)HPS(0.796)GGS(0.088)T(0	4	0.26719	28396.5	26294.1
Nefh	1	8.00E-09	106.58	S(1)PMKEEAKS(1)PEK	5	1.2225	2218383.8	2126040.3
Srsf5	0.706745	0.00610327	45.661	S(0.023)KS(0.27)PAS(0.707)VDR	3	-0.11286	23974.0	25124.8
Git2	0.780237	7.22E-05	97.749	RQQGS(0.22)PLS(0.78)R	2	-0.76594	6798.9	6358.9
Mycbp2	0.870115	8.64E-52	167.29	QVS(0.13)T(0.87)ENESTLVHR	3	-0.04587	31682.3	31959.7
Map1b	0.998492	1.22E-09	60.735	EVPS(0.998)KEEQS(0.002)PVK	3	-0.81884	54450.6	54781.0
Vapa	0.860562	0.000219165	44.238	VAHS(0.861)DKPGS(0.046)T(0.046	3	-0.15514	14976.5	14596.6
Ccne1	0.589972	1.37E-42	88.394	AILSEQNRIS(0.59)PPPS(0.387)GVL	5	-0.98044	4309.0	4627.9
Supt16h	0.993299	0.000255868	75.088	KAS(0.993)VHS(0.777)S(0.23)GR	2	0.22894	52704.5	51076.7

6836.0	6595.7	6354.6	5654.6	-0.1	0.5	231
8158.2	7470.6	6912.1	7648.2	-0.1	0.3	409
11012.7	10186.8	12237.0	11158.0	-0.1	0.6	1518
2637.1	2481.6	2838.3	2736.5	-0.1	0.6	1784
36260.6	34697.1	34779.0	36045.0	-0.1	0.0	2578
4135.9	3645.0	3929.7	3949.2	-0.1	0.3	838
8190.0	8486.2	8119.0	8365.9	-0.1	0.3	42
10283.7	9171.0	9438.2	10669.0	-0.1	0.6	604
14848.6	13760.5	14606.2	14551.0	-0.1	0.2	169
5494.1	4495.9	5166.1	5246.9	-0.1	0.4	273
2672.0	2512.7	2818.4	2269.1	-0.1	0.5	114
17762.5	15214.6	15565.9	17422.0	-0.1	0.4	1294
30393.4	28447.2	28719.8	31559.0	-0.1	0.3	274;274;270
4146.9	3880.5	3956.2	3647.2	-0.1	0.4	515
25910.2	26637.7	26333.5	26971.0	-0.1	0.3	376
72304.1	70067.4	71715.6	69822.0	-0.1	0.0	1326
15616.2	14853.9	16083.1	15670.0	-0.1	0.2	1511
9381.4	8333.8	9731.0	7829.3	-0.1	0.6	291
5340.8	4566.2	7107.6	4176.2	-0.1	0.8	1140
17054.5	15803.1	16275.4	17059.0	-0.1	0.1	702
8910.3	9528.1	8588.8	8403.0	-0.1	0.3	65
11153.2	13119.2	9686.2	10231.0	-0.1	0.6	276
11311.8	10873.3	10176.3	9543.2	-0.1	0.3	243
218453.9	222972.8	228689.8	221310.0	-0.1	0.3	592
8555.1	9263.9	8474.8	8881.6	-0.1	0.7	111
26175.3	22555.8	27860.6	26545.0	-0.1	0.5	324
2492752.7	2207839.1	2033201.9	2266300.0	-0.1	0.4	800;770
21351.4	21806.7	22113.4	23132.0	-0.1	0.4	250
4955.5	5343.7	7003.0	4893.4	-0.1	0.7	363
34330.4	29464.6	31284.5	32501.0	-0.1	0.3	1622
54018.9	49938.2	53382.0	52063.0	-0.1	0.1	609;483
14545.1	13670.3	13575.0	14747.0	-0.1	0.2	209
4251.1	4016.0	4564.4	3972.2	-0.1	0.4	388
47338.2	50747.7	46949.8	46141.0	-0.1	0.3	1023

Jph3	0.997945	5.89E-06	123.62	EFS(0.998)PS(0.002)FQHR	2	-1.8665	47710.8	47780.5
Safb	0.987073	0.000192519	81.92	S(0.013)VVS(0.987)FDKVK	3	0.16758	114076.2	127648.0
Prkce	0.998893	5.80E-32	132.4	S(0.001)KS(0.009)APT(0.992)S(0.9	3	-0.74759	108638.8	103653.0
Nefh	1	8.36E-54	126.27	S(1)PAEVKS(1)PVEAK	3	0.1261	1996903.2	1924975.8
Arfgef2	0.970598	1.07E-10	66.215	GQS(0.018)QLS(0.971)NPT(0.011)	3	-0.25298	9167.2	10663.5
Slc4a7	1	0.000476695	56.414	KHS(1)DPHLLER	4	-0.077637	45018.9	45676.6
Astn1	0.499998	5.07E-20	67.911	S(0.5)AS(0.5)AEAANEIHYIPSVLIGG	4	1.4866	1377.4	2481.3
Astn1	0.499998	5.07E-20	67.911	S(0.5)AS(0.5)AEAANEIHYIPSVLIGG	4	1.4866	1377.4	2481.3
Wdr4	0.892973	0.000122458	47.855	QRS(0.402)PHPGS(0.705)PEQT(0.8	4	-0.50758	20332.8	19703.9
Stx1a	0.957864	0.0181763	69.825	AVS(0.042)DT(0.958)KK	3	1.1088	20268.4	19878.3
Dync1i2	0.804456	3.51E-95	163.67	S(0.005)VS(0.141)T(0.804)PS(0.05	3	0.35527	15132.7	15208.7
Zfr	1	6.52E-30	117.29	RRDS(1)DGVDGFEAEGK	3	-1.0915	232489.0	238864.2
Srrm1	1	7.72E-05	70.628	RGAS(1)AS(1)PQGR	2	-0.13571	9247.6	9185.8
Srrm1	1	7.72E-05	70.628	RGAS(1)AS(1)PQGR	2	-0.13571	9247.6	9185.8
Slc16a1	0.566273	1.21E-11	69.361	DGKEDET(0.566)S(0.407)T(0.027)I	4	0.56118	36184.7	32107.8
Eif4g3	1	1.05E-29	120.42	T(1)PDEVLEAEAEPK	3	-0.64832	190673.7	193824.9
Acaca	0.997255	1.41E-53	124.68	FIIGSVSEDNS(0.997)EDEIS(0.003)I	3	-0.94029	34035.5	36361.6
Vrk3	0.999974	5.34E-05	65.495	GSPLANRLS(1)PR	3	0.6932	7182.2	7149.6
Epn3	0.660804	3.00E-21	106.19	GS(0.329)PS(0.661)S(0.011)YTSAS	3	0.5825	9120.9	10385.5
Irf2bpl	0.558464	1.83E-17	93.495	KAS(0.441)PEPPDS(0.558)AESALK	4	-0.32567	14140.4	13024.8
Zcchc11	1	0.00236675	50.966	VPKS(1)PNLPAVK	3	1.1046	33565.6	31756.8
Setd2	0.921192	2.49E-25	70.145	AHT(0.921)PLNT(0.068)PDPS(0.00	4	-0.57691	18059.6	19129.1
Abi1	0.767999	2.46E-05	50.831	HNS(0.768)T(0.201)T(0.018)S(0.00	3	0.32108	1812.9	2064.6
Lpin1	0.999868	0.00956311	56.548	SADRLT(1)PK	3	0.0035782	31949.5	29641.9
Rbmxml	0.9756	2.45E-10	62.088	GFAFVT(0.024)FES(0.976)PADAK	3	1.1464	7256.6	7500.7
Arhgef6	0.952624	0.0013025	77.318	MS(0.047)GFMV(0.953)QGK	2	1.5557	53922.2	53705.0
Itn1	1	0.00867704	54.066	REDS(1)VKK	4	-0.73166	45183.5	38526.9
Irs2	0.751015	1.23E-07	60.09	S(0.138)NT(0.751)PES(0.111)IAETI	3	1.87	12043.7	11592.2
LOC68482	0.966239	3.55E-21	109.07	KAS(0.032)GPPVS(0.966)ELIT(0.00	3	-1.6688	48766.3	46320.5
Dennd4a	0.787888	1.62E-14	80.585	ASLGS(0.038)S(0.17)AS(0.788)LEG	2	-0.61343	11109.2	11061.3
Nefh	1	3.56E-22	104.59	SPVEVKS(1)PEK	4	0.14263	1654604.2	1696159.4
Apba1	0.860142	7.46E-71	103.03	S(0.86)DGES(0.114)DS(0.026)PEKE	3	0.9019	99122.4	96007.5
Eef1g	1	0.00382982	55.314	EKGS(1)REEK	3	-1.2176	102205.5	90359.5
Kdm2b	0.562089	1.12E-05	44.541	S(0.187)S(0.187)S(0.562)PT(0.058	3	0.08589	6168.8	6926.2

44474.4	44242.6	45772.2	43217.0	-0.1	0.2	420
118409.5	117673.7	114366.3	110770.0	-0.1	0.3	627
113842.2	101086.3	100212.1	109150.0	-0.1	0.3	350
2038682.9	1777314.9	1910414.7	1986300.0	-0.1	0.2	598
10052.3	10155.8	9028.3	9262.8	-0.1	0.4	1534
46836.8	40630.3	44416.0	45877.0	-0.1	0.3	247
2224.3	1980.4	1810.8	1999.6	-0.1	0.8	192
2224.3	1980.4	1810.8	1999.6	-0.1	0.8	194
21824.1	19143.7	19408.7	20337.0	-0.1	0.2	253
18895.3	17794.0	19117.0	19297.0	-0.1	0.2	251;250
15387.3	14908.9	13327.1	15298.0	-0.1	0.3	89
223031.8	223907.8	215256.9	221900.0	-0.1	0.1	990
8409.2	8498.6	8424.5	8631.8	-0.1	0.2	639
8409.2	8498.6	8424.5	8631.8	-0.1	0.2	641
38730.6	33787.5	32787.1	35318.0	-0.1	0.5	459
188739.7	181438.4	180194.7	184130.0	-0.1	0.0	550
33422.3	32028.6	33506.3	33309.0	-0.1	0.2	29
6748.0	6437.4	7243.1	6389.2	-0.1	0.3	124
9891.2	9282.9	8875.6	9830.4	-0.1	0.4	177
12815.1	12543.9	12185.7	13335.0	-0.1	0.3	540
32261.8	31568.8	31162.7	30178.0	-0.1	0.1	133
17677.3	17045.0	15907.8	19285.0	-0.1	0.5	1810
1245.6	1698.4	1557.9	1621.4	-0.1	0.8	296;290
30938.5	27235.0	29548.0	31317.0	-0.1	0.3	298
7294.8	6812.5	7020.9	7163.5	-0.1	0.1	58;58
52937.2	49537.8	52825.2	50522.0	-0.1	0.1	338;516;516
42465.4	38539.3	41078.7	40526.0	-0.1	0.4	685
11566.3	10585.0	12086.4	10848.0	-0.1	0.3	518
43626.9	44563.8	43477.8	44042.0	-0.1	0.2	42;41;41
11491.7	10932.1	10844.6	10277.0	-0.1	0.1	1411
1705237.1	1618480.7	1510848.7	1685100.0	-0.1	0.2	754;724
99346.0	96623.8	90710.8	93072.0	-0.1	0.1	245
92597.2	88087.0	99359.3	84092.0	-0.1	0.5	237
6623.1	5713.1	6394.8	6668.5	-0.1	0.4	883



Bod111	0.817071	7.34E-18	74.859	KLS(0.004)S(0.009)QPS(0.154)T(0.	3	-0.12532	11467.9	12267.9
Kcnq5	0.966933	0.0660922	50.978	S(0.033)WS(0.967)FNDR	2	-0.90727	14664.0	14687.7
Telo2	0.983287	2.08E-19	75.224	GPS(0.983)PAPVAT(0.017)EPPVET	4	0.5328	32884.6	36590.9
Birc6	0.918034	2.01E-42	92.886	VSMTTNT(0.001)T(0.024)DS(0.05;	4	2.0388	5855.7	6598.2
Wdr24	0.807021	4.30E-14	63.979	IYCS(0.001)PGLVS(0.096)S(0.096)	4	-0.84204	18566.4	18807.7
Nacad	0.961012	1.98E-76	112.74	APGSGQHS(0.039)ES(0.961)HGES(	4	-0.5248	25497.1	25373.8
Kif13b	0.992427	1.34E-08	71.601	QELSPS(0.003)HS(0.992)LS(0.003)	2	-0.52581	6677.6	6912.9
Mecp2	0.967634	4.44E-05	82.489	SSS(0.001)AS(0.031)S(0.968)PPKK	3	0.17371	61425.4	59834.5
Sort1	0.99999	1.91E-88	144.4	YS(1)VLQQHAEADGVEALDTASHAK	4	0.8669	61903.6	66322.8
Plec	0.984848	2.03E-26	81.017	GYSPYSVSGSGS(0.001)T(0.013)A	3	-0.25181	39724.6	44522.7
Nes	1	5.53E-05	46.892	EAGALDS(1)GILELPK	3	0.95932	5110.9	4661.3
Arfgef1	0.976796	0.000158891	86.405	EGS(0.977)LT(0.023)GTK	2	0.29317	21384.7	19364.9
C2cd2l	0.613363	1.81E-21	88.09	LDS(0.451)PS(0.613)RS(0.745)PS(C	3	0.76317	123633.2	122679.0
Eif3f	0.999439	0.015129	73.233	T(0.001)CFS(0.999)PNR	2	-1.0032	15110.1	13842.0
Api5	0.88423	1.71E-32	105.19	T(0.001)S(0.001)EDT(0.884)S(0.10	4	0.016317	60307.8	62811.5
Grsf1	0.882261	0.00079067	79.16	MVS(0.882)S(0.116)PT(0.001)TK	2	-0.83055	48030.4	42759.9
Cep170b	0.756132	1.96E-10	62.94	NGPS(0.18)PT(0.756)T(0.062)PQT	2	0.16022	39075.8	41532.5
P2ry2	0.855572	8.69E-17	95.988	DAKPAT(0.856)EPT(0.149)PS(0.99	3	0.13315	25932.4	22605.2
Coasy	1	0.0165718	72.23	PAS(1)PVAR	2	0.78749	9325.4	8891.0
Srrm2	0.666108	0.000394994	85.45	RGS(0.486)RS(0.666)S(0.848)VEPK	3	-0.9638	119840.4	119322.4
Stmn3	0.999458	4.26E-07	89.46	AS(0.001)GQS(0.999)FEVILK	3	-0.99387	22321.0	22411.1
Rrbp1	0.807748	1.21E-21	77.08	VPAVAVAPTSVHS(0.192)S(0.808)V	3	0.75367	3986.3	3948.0
Map1b	0.999206	1.76E-07	75.682	SKPS(0.001)AAS(0.999)PK	2	0.85782	73812.5	80289.8
Med26	0.528763	0.0207456	45.653	AGLS(0.322)PDS(0.529)S(0.149)K	2	1.2423	36740.5	38269.2
Bod111	0.864043	0.000387561	48.616	KLS(0.864)S(0.073)QPS(0.048)T(0.	3	-0.30373	10332.5	10730.7
Usp10	0.989906	4.61E-10	79.394	CS(0.99)PPVPS(0.01)PLASEK	2	-0.44765	76166.9	77958.8
Use1	0.801095	7.68E-22	81.016	SELLGT(0.009)ES(0.801)S(0.19)GE	3	-0.24087	3779.6	3462.3
Aak1	0.820073	0.00429933	47.712	S(0.002)AT(0.03)T(0.131)T(0.82)P	2	0.48755	6058.8	5315.1
Git1	0.982894	5.49E-134	179.86	ARS(0.983)MDS(0.007)S(0.011)DL	3	-0.48213	271382.3	273735.1
Ahnak2	0.813157	1.57E-29	121.77	T(0.02)VS(0.813)PS(0.167)QPFGEI	2	-0.45674	94726.2	99051.4
Cul9	0.989694	2.96E-13	115.91	VGLQS(0.99)PS(0.01)VETR	3	0.87628	43182.2	42933.2
Axin1	0.909131	0.000125042	72.096	S(0.909)PDS(0.091)GHVAK	2	0.5157	22863.7	22525.1
Emc4	0.739507	1.91E-27	84.327	S(0.022)DRGS(0.205)GQGDS(0.74	3	-0.34362	26057.7	24182.6
Smtnl2	0.868645	8.12E-13	99.747	S(0.003)QS(0.125)FGVAS(0.869)A	2	-0.25264	12019.8	14099.7

11809.0	11019.4	11747.6	11080.0	-0.1	0.2	242
13254.8	12635.2	14645.8	13291.0	-0.1	0.4	484
34332.6	31188.3	32350.0	35313.0	-0.1	0.4	457
5869.6	5517.1	5966.3	5965.1	-0.1	0.4	2961
19787.4	18105.3	17405.0	18923.0	-0.1	0.2	470
24191.9	23245.4	23411.9	24824.0	-0.1	0.1	1227
6503.0	6032.2	6453.8	6648.9	-0.1	0.2	1473
67552.6	57504.8	57257.9	65044.0	-0.1	0.4	360
66195.2	61597.7	61940.7	61611.0	-0.1	0.1	791
42849.7	40034.1	41200.5	39808.0	-0.1	0.2	4629;4515;4486
4637.0	4153.8	5034.5	4535.2	-0.1	0.5	1436
18621.7	18650.9	18926.8	18970.0	-0.1	0.3	1076
118100.7	115858.8	109963.5	121260.0	-0.1	0.2	466
13382.5	13874.9	13355.9	13091.0	-0.1	0.3	262
58529.8	56227.7	57016.4	59772.0	-0.1	0.2	460
42995.6	40759.0	43263.0	43406.0	-0.1	0.3	225
39723.9	34186.7	41435.6	38996.0	-0.1	0.4	995
23037.8	20801.3	22467.2	24909.0	-0.1	0.5	323
10442.2	9112.6	8536.4	9649.4	-0.1	0.5	177
110829.2	108260.2	113062.5	112060.0	-0.1	0.2	1633
22415.0	18770.8	23193.8	21999.0	-0.1	0.5	53
3967.0	3780.1	3838.0	3719.1	-0.1	0.0	115
75059.4	73314.5	72661.4	72326.0	-0.1	0.1	2264;2138
39354.5	34660.8	36502.7	37781.0	-0.1	0.2	354
10606.8	9751.4	10370.1	10048.0	-0.1	0.1	237
74942.3	73340.9	71579.9	73296.0	-0.1	0.0	361
3061.5	3336.9	2960.0	3518.4	-0.1	0.6	141
6396.0	5274.4	5948.5	5705.5	-0.1	0.5	675
269865.4	255564.6	261775.0	259050.0	-0.1	0.0	419
100447.9	87246.6	100057.1	92991.0	-0.1	0.3	5515;6886
40672.5	38065.2	41899.4	40821.0	-0.1	0.2	2429
26218.9	21572.4	22109.2	24538.0	-0.1	0.5	497
22924.9	23320.2	23993.2	22390.0	-0.1	0.3	41
11656.8	12523.0	12244.5	11222.0	-0.1	0.5	344

Arhgef7	1	9.62E-13	74.732	KES(1)APQVLLPEEEK	3	1.1179	28322.6	27703.7
Srpk2	0.838331	4.83E-07	75.483	S(0.005)S(0.006)S(0.151)S(0.838)E	3	-0.18608	28616.0	25772.0
Tceb3	0.989835	3.68E-08	56.488	S(0.99)PEMDQEPIVS(0.01)HPKPGI	4	-0.94164	41116.4	35404.0
Tuba1b	0.771099	2.10E-05	48.907	IHFPLAT(0.123)Y(0.106)APVIS(0.7	3	1.4361	4460.7	4747.4
Iqsec3	0.896619	2.57E-14	65.677	Y(0.001)HCENPAS(0.897)CRS(0.08	3	0.62986	26528.8	26204.2
Nmt2	1	0.000401182	77.644	GS(1)PGGDLGAK	2	-0.73422	30716.3	28734.8
Poldip3	0.901307	1.30E-10	60.472	RS(0.901)PAT(0.068)FT(0.022)S(0.	3	1.116	22002.6	19544.8
Matr3	0.999997	2.61E-15	81.854	GPSLNPVLDYDHGS(1)R	3	0.76249	21103.3	21276.9
Srrm2	0.540963	3.09E-05	44.164	DGS(0.061)GT(0.675)PS(0.257)RH	3	0.036197	22533.3	22560.2
Mrgprd	1	6.88E-06	71.726	LQES(1)LGAVLGR	2	0.19223	23857.2	24706.9
Psip1	0.910223	0.00385102	64.711	AADIT(0.09)T(0.91)PK	2	0.32589	39443.1	37342.3
Gypc	0.997189	5.15E-48	82.726	GT(0.001)EFAES(0.997)ADAALQS(I	4	-0.45623	26569.3	27992.2
RGD13075	0.982166	0.000518097	66.004	NLS(0.982)PPS(0.015)T(0.003)DFK	2	1.6321	12173.7	11746.9
Usp31	0.624853	0.000523272	42.716	SSSMAS(0.007)LRS(0.625)PS(0.20.	3	0.12705	19419.2	19179.6
Lima1	0.992751	1.19E-251	216	GENEETLGRPAQPPSAGET(0.007)P	4	0.031935	169360.5	201810.4
Sh3pxd2a	0.995948	0.000161593	127.51	AES(0.996)QS(0.004)QEK	3	0.30168	78074.0	66963.4
Lpin2	0.867049	0.0539579	57.859	VDS(0.867)PT(0.133)KR	2	0.44205	16120.3	15684.8
Mbp	0.999998	0.000205092	84.169	DTGILDS(1)JGR	2	1.1476	38497.3	36545.9
Lima1	0.983292	4.68E-05	66.104	S(0.004)PKPLS(0.983)PS(0.013)LRI	4	1.0128	61421.8	63357.8
Sufu	0.819316	6.94E-56	137.9	KDS(0.18)LGS(0.819)DIS(0.001)TA	3	0.041492	20472.3	18540.1
Hey2	0.566231	1.48E-20	118.55	S(0.415)NS(0.566)PT(0.012)T(0.0C	2	-0.027039	14084.4	15933.8
Nhsl2	0.569015	6.64E-25	67.262	DQGHS(0.154)S(0.569)S(0.187)PT	5	-1.237	10771.1	9958.6
Pnlsr	1	5.50E-05	71.806	S(1)PIALPVK	2	1.8726	27986.2	28606.4
Gigyf1	0.868981	8.94E-105	139.72	IS(0.131)S(0.869)PPAGPPADLEDEF	3	-0.058733	34499.4	36174.1
Akap12	0.990905	6.10E-15	113.76	KAS(0.041)S(0.968)S(0.991)DDEG(	3	-0.32309	55532.3	53516.3
Cxadr	0.830026	1.19E-05	77.776	APQS(0.83)PT(0.17)LAPAK	2	0.66907	21685.3	17367.5
Myo5a	0.962799	8.74E-70	117.8	AIS(0.963)PT(0.031)S(0.006)ATSSC	2	-0.54195	61374.1	68947.7
Stk38	0.773093	9.59E-26	71.67	QLAFS(0.773)T(0.224)VGT(0.002)F	3	1.6629	37459.7	35681.5
Plekha4	0.966176	1.39E-14	84.375	QPPHT(0.017)EPKS(0.966)PS(0.01	4	0.1027	21457.5	20193.1
Nucks1	1	1.63E-32	96.708	EEDEEAES(1)PPEKK	2	0.81136	407812.9	400768.8
Tacc1	1	0.000124464	85.813	DGHAT(1)DEEK	2	-0.0093163	15038.5	13749.8
Fbn1	0.999576	1.77E-70	120.13	GGPEPPAS(1)GEMDDNSLSPEACYE	4	-0.30226	749074.3	747273.2
Hmga1	0.932605	2.37E-24	98.175	KQPS(0.022)VS(0.933)PGT(0.046),	4	-0.019797	73247.2	76009.6
Vps13d	1	0.018065	74.173	QNVNT(1)PAR	2	-0.42403	5266.4	6045.6

29104.1	27034.8	26097.4	27977.0	-0.1	0.1	657
29368.1	26179.0	26512.0	27110.0	-0.1	0.3	11
43643.9	35291.1	37459.2	41740.0	-0.1	0.6	195
4087.8	4560.7	4081.9	4026.4	-0.1	0.5	277;277;277;262
26239.2	22567.9	28339.4	24341.0	-0.1	0.5	641
28980.6	25826.0	27664.0	30772.0	-0.1	0.4	38
20835.0	20898.1	18858.4	19685.0	-0.1	0.3	127
23016.5	21902.4	19339.2	21072.0	-0.1	0.3	206
26039.0	21686.8	22887.1	23206.0	-0.1	0.4	1421
22919.6	22486.5	23545.4	22085.0	-0.1	0.2	292
38054.6	36188.7	35822.0	37421.0	-0.1	0.1	141
27741.4	25578.5	26582.5	26266.0	-0.1	0.1	68
11688.7	11235.0	11645.0	11053.0	-0.1	0.1	48
21345.0	18094.3	20198.4	18830.0	-0.1	0.4	943
189538.2	150078.5	178004.0	206240.0	-0.1	0.7	488
65691.6	63196.0	68901.9	68718.0	-0.1	0.5	713
14300.3	15681.0	14084.7	14171.0	-0.1	0.4	420
32572.7	34583.8	35545.2	32428.0	-0.1	0.4	41;41;41;41
65560.7	56803.0	60898.8	63691.0	-0.1	0.3	608
19768.3	18820.3	19032.5	18165.0	-0.1	0.2	347
14814.5	14312.7	13748.1	14665.0	-0.1	0.3	39
8854.8	8999.2	9826.1	9369.5	-0.1	0.5	323
27986.2	26501.3	26180.7	27924.0	-0.1	0.1	211
35415.3	34088.9	32487.8	34534.0	-0.1	0.1	408
53351.3	50194.5	52501.4	52084.0	-0.1	0.1	685
20723.3	18504.6	20834.3	17635.0	-0.1	0.6	332
73727.5	58956.7	65027.0	70501.0	-0.1	0.6	600
36607.7	33592.8	36387.3	34625.0	-0.1	0.1	20
20420.9	18877.5	20505.1	19780.0	-0.1	0.2	511;439;511
426804.3	387669.8	377252.7	412580.0	-0.1	0.2	214
18787.7	14262.1	13638.0	17447.0	-0.1	0.7	500
934585.3	755441.3	754537.4	807070.0	-0.1	0.6	2703
74106.5	72018.8	77355.9	63525.0	-0.1	0.4	36
5000.4	5420.3	5104.6	5023.7	-0.1	0.5	2427

LOC67915	0.828049	6.63E-22	86.222	S(0.002)EPS(0.169)S(0.828)PPPAl/	3	-0.66372	9345.4	10682.9
Cdh5	1	0.0143668	47.187	QAHAAHS(1)K	3	0.040454	12155.8	12816.4
Kcnh7	0.636421	0.000111989	40.968	HFKS(0.067)PT(0.636)KES(0.636)C	4	-0.72713	8872.6	7598.5
Kcnh7	0.636421	0.000111989	49.149	HFKS(0.067)PT(0.636)KES(0.636)C	4	-0.72713	8872.6	7598.5
Kcnh7	0.636421	0.000111989	40.968	HFKS(0.067)PT(0.636)KES(0.636)C	4	-0.72713	8872.6	7598.5
Srrm2	0.970229	0.000394994	85.45	RGS(0.807)RS(0.223)S(0.97)VEPK	4	-0.42256	133759.0	133154.5
Prkd1	0.932057	9.96E-39	75.539	TASAEFST(0.001)S(0.002)APDEPLL	3	1.0776	6948.1	6420.8
Ablim1	0.7526	0.00348445	62.633	HS(0.217)Y(0.007)T(0.753)PT(0.02	2	0.76737	6179.5	5163.3
Rreb1	0.745124	7.75E-76	109.23	DKEQPTSEGAS(0.002)ELS(0.745)P	3	2.3674	7882.2	8412.5
Dock9	0.606827	1.43E-08	55.988	S(0.001)NS(0.008)LDKQQS(0.607)	3	1.6439	40561.8	37789.8
Rpusd1	0.618233	2.52E-12	92.939	GPRPCS(0.37)PS(0.618)T(0.012)PC	4	0.40562	4060.1	4430.4
Srrm2	0.999331	0.00285526	53.377	GRS(0.999)RT(0.984)PLT(0.016)S(	3	0.37987	37584.9	38807.7
Srrm2	0.994806	0.00285526	53.377	GRS(0.999)RT(0.995)PLT(0.005)S(	3	-0.25072	37584.9	38807.7
Cdk12	0.922256	1.01E-08	72.797	RT(0.922)PT(0.078)MPQEEAAGK	3	0.72762	16261.0	14765.6
Hdlbp	0.983469	5.94E-28	106.14	VATLNS(0.001)EEES(0.983)DPPT(C	3	-0.42391	79518.3	77170.2
Map4	1	0.00030398	75.819	VKPMS(1)APCR	3	-0.49333	30010.2	31353.1
LOC10091	0.515782	0.000186655	58.32	VS(0.407)GGFPEDS(0.516)S(0.077	2	-1.8668	25976.6	22610.7
Ccar2	0.999997	1.02E-213	210.81	VSKDEVQNEGTAAEADS(1)PLKEDG	5	-0.084287	242137.8	240586.3
Ablim2	0.999925	0.0364655	60.398	S(1)PQHYSR	2	0.44099	3551.7	3710.1
Gtf2f1	0.981277	0.00108639	49.333	ERKPS(0.981)GGS(0.015)S(0.004)	4	0.30661	42597.7	43226.1
Map7	0.887228	1.50E-71	101.86	GVLAGEDEV(0.001)ALPGVNS(0.8	4	0.43205	17063.7	17634.0
Trpc3	0.882859	0.000253623	41.695	VFES(0.049)HS(0.883)FNS(0.068)H	3	2.7531	1238.7	1264.9
Pcbp3	0.940804	2.03E-19	64.16	FEEDIINS(0.018)MS(0.021)NS(0.9	5	0.1298	19798.5	18570.8
Acin1	1	3.17E-08	102.73	HMS(1)QPEPEQK	3	-0.46878	83073.7	73541.6
Cd44	0.993132	1.68E-06	85.976	KPS(0.993)ELNGEAS(0.007)K	3	0.48311	17413.1	13919.8
Slc27a1	0.941458	2.11E-20	108.34	FDGYVS(0.941)DS(0.058)ATNKK	3	-1.614	111032.5	107447.2
Zbtb1	0.953999	9.30E-31	91.166	EDASQAPDDS(0.028)AS(0.954)PT(	3	0.38513	6848.1	6931.3
Fasn	0.878961	4.48E-07	89.301	AGS(0.879)DT(0.121)ELAAPK	3	-0.44191	10178.9	8928.6
Scyl1	0.531654	4.03E-11	53.197	AT(0.532)GS(0.427)AVS(0.041)IFV	4	-1.1091	4200.1	5441.2
Cic	0.907955	2.17E-05	108.35	TQS(0.092)LS(0.908)ALPK	2	0.057523	47838.4	46779.0
Ptpn23	0.592296	2.77E-26	64.645	GAAAADLLS(0.165)S(0.592)S(0.18	4	-0.33274	15451.2	15337.1
Psmg1	0.634624	1.55E-05	52.576	AGT(0.365)EEEEEEEQS(0.635)RR	3	-0.93795	3006.1	2883.0
Vps13b	0.893709	7.30E-63	110.78	GHLSPSS(0.002)VY(0.05)S(0.023)C	3	1.2632	21892.8	23102.1
Ahnak	0.954634	2.16E-55	134.86	LPS(0.955)GS(0.045)GAASPTTGSA	3	-0.92029	138028.8	135447.0

8541.5	10648.2	8314.7	8269.0	-0.1	0.7	271
11752.6	10781.5	10558.8	13665.0	-0.1	0.6	624
7653.4	6926.6	8367.6	7701.2	-0.1	0.6	207
7653.4	6926.6	8367.6	7701.2	-0.1	0.6	209
7653.4	6926.6	8367.6	7701.2	-0.1	0.6	204
123998.9	121314.6	126623.6	124680.0	-0.1	0.2	1634
6882.3	6874.4	6438.0	5991.0	-0.1	0.4	231
6191.1	5140.4	5589.6	5983.5	-0.1	0.5	494;395
8029.1	7141.4	7352.4	8692.3	-0.1	0.5	1278
39031.9	34770.8	37966.8	39160.0	-0.1	0.3	1278
4205.0	4186.4	4068.4	3847.4	-0.1	0.2	273
35796.5	33962.4	38305.5	34679.0	-0.1	0.3	1801
35796.5	33962.4	38305.5	34679.0	-0.1	0.3	1803
14355.6	13844.1	14967.4	14453.0	-0.1	0.3	1240
82014.7	73294.7	74374.4	79898.0	-0.1	0.2	35
33463.8	29651.6	30326.0	30427.0	-0.1	0.2	1943;867
27993.7	22813.2	22812.3	27384.0	-0.1	0.6	130
226651.6	216032.1	228989.0	231290.0	-0.1	0.2	612
3635.9	3403.7	3479.1	3506.9	-0.1	0.0	413
38712.5	37981.6	40479.2	40271.0	-0.1	0.3	377
17598.5	16414.7	17276.8	16168.0	-0.1	0.1	651
1290.1	1229.5	1349.5	1038.0	-0.1	0.6	825
18932.5	18231.8	17861.3	18541.0	-0.1	0.1	122
71645.1	73889.8	72739.4	71005.0	-0.1	0.4	605;711;711
19800.2	15912.0	16918.8	15923.0	-0.1	0.7	319
99130.9	97998.7	105484.8	99349.0	-0.1	0.3	468
6253.0	5978.2	6700.8	6421.3	-0.1	0.4	298
9715.6	8650.1	9777.1	9054.8	-0.1	0.4	2191
4626.0	4536.9	4422.2	4644.5	-0.1	0.6	39
48103.7	42641.0	45961.3	47484.0	-0.1	0.2	1081
15282.9	14688.9	14472.6	14768.0	-0.1	0.0	1152
2804.6	2964.1	2493.9	2831.8	-0.1	0.4	28
22003.0	21555.9	21353.6	20975.0	-0.1	0.1	1262
137924.4	124856.4	133270.6	134160.0	-0.1	0.1	211



Sybu	0.896512	1.42E-33	76.573	LILRPHLPQQQQQQQNKVS(0.897)I	5	-0.88296	4860.2	4725.0
Srrm2	0.80796	1.40E-08	55.844	S(0.003)GS(0.009)S(0.032)QELDGI	3	-0.80815	8316.0	9094.0
Srrm2	0.816076	0.00865185	51.346	HRS(0.816)ES(0.182)ES(0.002)K	3	-0.50399	31412.8	27301.1
Tjp2	0.995668	1.34E-47	140.35	MSYLTAMGADYLS(0.996)CDS(0.00	3	-0.83703	26038.6	27115.7
Ankzf1	0.99996	4.32E-16	65.855	LAAQLGAPS(1)PPVPDSAVVNAGR	3	0.76258	10649.2	9628.5
Slc46a1	0.999069	3.01E-06	127.17	VS(0.999)PVGS(0.001)SHR	3	3.1744	12240.5	11977.2
RGD13054	0.978041	5.34E-09	119.16	KS(0.004)S(0.978)PS(0.017)S(0.00	2	-0.42807	67375.7	66565.2
Mecp2	1	1.64E-30	70.57	MPFQAS(1)PGGK	3	0.4471	49446.1	52871.3
Tgfb1i1	0.736412	3.06E-10	59.07	VQNHLPAS(0.004)GPPQPPAVS(0.7	3	-0.21465	8452.3	9392.6
Scn9a	0.687197	2.69E-06	44.712	EQEEAEIAAAAAAFT(0.313)S(0.68	3	2.035	4061.1	4150.6
Itgb4	0.726763	3.15E-13	63.272	MTAANVAY(0.004)GT(0.233)HLS(0	3	-1.1442	19938.0	20121.8
Yap1	0.5	1.84E-07	47.806	QS(0.5)S(0.5)FEIPDDVPLPAGWEM	4	-0.382	3206.6	3910.4
Zfp608	0.999434	0.00197245	57.164	DRHS(0.999)PFS(0.001)QR	3	-0.032897	8679.8	7435.7
Luc7l	1	0.00611315	41.293	RS(1)EEKEAGEI	3	0.10226	15611.0	14364.1
Caprin2	0.73757	2.15E-31	72.687	S(0.194)MT(0.738)PVDVPVT(0.034	4	-1.9701	6228.5	6115.3
Gfpt1	0.830639	1.31E-20	120.54	VDS(0.138)T(0.831)T(0.032)CLFPV	3	-1.0407	133484.7	132178.2
Hivep3	0.940882	0.0284298	64.567	S(0.941)PAEAS(0.059)K	2	-0.017236	26012.3	25033.8
Fam117a	0.635819	1.69E-10	50.226	AAS(0.364)VPCS(0.636)VAPEKPVC	4	0.22656	22746.8	22769.8
Epb41l2	1	1.22E-40	122.83	GTAEQDMS(1)EEAEEDQHR	3	-0.60628	20258.9	18812.1
Mecp2	0.871537	2.56E-66	126.86	AETSESSGSAPAVPEAS(0.128)AS(0.0	3	-0.99647	160403.5	160522.5
Gfpt2	0.735965	3.15E-07	64.04	LDS(0.121)S(0.736)T(0.143)CLHAV	2	-0.73216	15882.9	14343.3
Golgb1	0.93244	7.98E-16	73.632	S(0.001)QEQDS(0.067)LS(0.932)E	2	-1.2172	16350.4	17528.7
Sde2	0.999602	3.98E-66	167.71	ETES(1)PEPTEK	2	0.08214	115570.6	113519.7
Clta	0.998515	0.000539248	60.157	LQS(0.999)EPES(0.001)IRK	3	-1.4075	19542.1	21390.9
Plec	0.981315	3.36E-27	83.251	GYG(0.003)S(0.981)PY(0.005)S(0.0	3	1.2996	126137.8	131300.7
Lst1	0.957915	2.83E-39	122.33	NAQVSGQELHY(0.958)AS(0.042)LI	3	0.11086	23477.9	24664.1
Spp1	0.99946	0.00177776	57.175	S(0.999)KEDDRY(0.001)LK	2	0.15688	78985.2	89634.4
Cacna1h	0.999909	2.48E-13	117.27	ASPAS(1)PGAPGR	2	0.68174	18146.6	19210.3
Map4	0.643817	1.21E-14	86.453	ATSPSTLVS(0.007)T(0.023)GS(0.64	3	0.1359	17247.3	18601.5
Rlf	0.542467	9.08E-24	93.201	S(0.412)PT(0.542)GS(0.046)LEQNF	3	-0.56699	35444.0	35010.2
Hnrnpa2b1	1	0.000219373	43.946	GGGGNFGPGPGS(1)NFR	3	0.31604	9667.4	8485.8
Ncoa5	0.999962	0.0223869	55.721	YRDS(1)FDGR	2	-0.35366	34030.7	31050.4
Zfc3h1	0.757893	1.24E-12	73.802	S(0.009)FLES(0.09)NS(0.758)FT(0.	3	0.17624	14740.3	13302.3
Fcho1	0.999545	7.17E-07	42.319	VPS(1)PGPWGPEAGAGADSLTLADP	3	1.2313	11737.3	11277.4



4201.1	4071.2	4592.4	4482.7	-0.1	0.5	46
8854.3	7813.8	8237.1	8994.3	-0.1	0.4	1509
27714.8	25532.3	31690.6	25195.0	-0.1	0.6	220
25421.5	24409.2	25470.1	25051.0	-0.1	0.1	893;920
10672.0	9972.3	9649.4	9893.3	-0.1	0.3	644
12122.0	10877.9	11265.6	12512.0	-0.1	0.3	6
61687.5	62410.6	60284.3	63874.0	-0.1	0.2	495
49405.8	45847.4	46922.0	51930.0	-0.1	0.3	229
10958.4	8678.5	8342.5	10449.0	-0.1	0.7	147
4114.5	3508.3	4359.7	3887.8	-0.1	0.5	449
18365.1	19488.0	17448.8	18785.0	-0.1	0.3	1405
3609.6	3428.7	3284.9	3516.8	-0.1	0.5	145
8156.8	7998.5	7969.4	7181.8	-0.1	0.5	1454
17376.0	15378.5	15035.8	14747.0	-0.1	0.5	310
6831.8	6011.7	6739.8	5537.4	-0.1	0.5	882
127725.1	123767.5	124550.4	126880.0	-0.1	0.0	244
25604.6	23123.4	26048.2	23935.0	-0.1	0.3	744
23440.2	21323.8	22812.3	21633.0	-0.1	0.1	71
22197.8	18406.7	20531.9	19500.0	-0.1	0.5	830;760;858
170555.6	150210.5	149855.9	168720.0	-0.1	0.3	80
16144.2	15479.7	13757.7	14992.0	-0.1	0.4	245
16146.4	15641.4	15392.7	16682.0	-0.1	0.3	1740;1740
113373.7	106333.1	104977.2	115350.0	-0.1	0.2	332
20617.9	18730.1	19825.5	20155.0	-0.1	0.2	105
129109.1	117332.7	121601.0	129780.0	-0.1	0.2	4616;4502;4473
24086.5	22725.2	21255.3	24916.0	-0.1	0.4	62
79592.6	78284.1	85114.3	73364.0	-0.1	0.5	294
18999.6	16292.6	19264.4	18202.0	-0.1	0.4	32
16085.7	16701.8	16383.4	16457.0	-0.1	0.3	1871;795
37860.8	30026.7	39478.9	33821.0	-0.1	0.6	633
8723.3	9179.3	8528.3	7931.1	-0.1	0.5	225
31379.3	31562.2	31032.3	29425.0	-0.1	0.3	150
13189.8	12328.3	13662.6	13344.0	-0.1	0.4	1057
10966.9	10985.3	10909.8	10523.0	-0.1	0.1	204

St5	0.723069	0.0721382	49.536	EGS(0.277)GS(0.723)MK	2	-0.22977	8954.5	7362.2
Map1a	0.836744	2.10E-13	102.5	S(0.837)T(0.139)PS(0.024)QVTSAE	3	-0.34067	34105.9	35521.4
Phyhipl	0.67978	6.66E-21	83.404	LDHALS(0.115)S(0.68)PS(0.175)S(	2	-0.94516	15624.1	11384.9
Ttc28	1	0.048127	56.013	QMS(1)PQAR	2	0.39775	19689.9	16814.6
Emcn	0.918082	5.02E-14	62.193	DPGTPES(0.007)GNDQPQS(0.075)	4	0.47993	26787.6	25712.8
Tab3	0.710437	1.17E-12	102.63	S(0.71)PS(0.286)PIS(0.004)NQSP	2	-0.25162	8474.2	7802.8
Tor1aip1	0.500068	0.00419647	42.818	SDFGNQS(0.009)PS(0.5)T(0.386)S(	2	0.27053	3959.2	4041.1
Clcn2	0.990581	3.40E-07	56.121	VRIS(0.991)LAS(0.004)DS(0.005)D	3	-0.24366	17739.9	16602.9
Srrm2	0.99696	3.24E-05	84.365	KPIDS(0.003)LRDS(0.997)R	3	-0.34294	69454.5	68311.5
Fbn1	0.996871	0.00853504	66.663	S(0.997)IQHCS(0.003)IR	2	-0.84969	9205.5	9536.1
Chd2	0.9789	0.000138684	86.772	GTVT(0.021)S(0.979)GEEAK	2	0.5544	11332.0	10614.2
Hecw1	0.987965	3.26E-30	72.687	SRPCSLPVSELET(0.006)VIAS(0.006	4	0.74241	19573.1	19487.8
Tmem55a	0.976179	8.90E-77	108.94	SPLLSASHS(0.006)GNVT(0.976)PT(	3	-1.3753	47436.4	50940.7
Camk2g	0.854211	2.62E-35	101.08	GSTESCNT(0.045)T(0.854)T(0.1)EC	3	-0.047778	48923.7	55114.5
Nefh	1	0.000288173	55.724	S(1)PVKEEIKPPAEVK	3	-1.1438	101202.4	97255.8
Srrm1	1	8.04E-14	122.33	RES(1)PS(1)PAPKPR	3	-1.8576	277703.5	287501.4
Fxr2	0.98226	1.79E-62	109.19	TGGPAYGPSSDPST(0.003)AS(0.98;	3	0.13484	34701.0	33255.2
Bnc2	0.997751	3.26E-58	102.72	T(0.001)EPACVS(0.998)PIQNS(0.0(	5	-0.26871	63819.1	60997.2
LOC10036	0.985729	6.24E-28	103.73	SPAAPGQS(0.986)PT(0.014)GS(0.(	3	-0.88804	12927.5	15504.9
Map1b	0.621076	2.28E-90	146.19	ESTAAYQT(0.033)S(0.198)S(0.148;	3	0.043107	55128.0	54153.6
Ehbp1	0.791521	0.00123118	53.6	S(0.792)DT(0.208)EPQK	2	-0.73736	47784.7	40649.5
Apba2	0.976344	4.39E-28	107.41	SAS(0.008)QDCIET(0.976)T(0.016)	2	0.24718	14519.7	13518.4
Limch1	0.527002	1.13E-05	73.36	LMS(0.465)GEDGT(0.527)S(0.008)	2	0.4362	20908.9	22001.9
Gc	1	1.73E-07	54.764	MPNAS(1)PEELADMVAK	3	-0.36385	7075.0	6667.4
Tomm34	0.998073	0.00116013	55.232	RAS(0.998)AY(0.002)EALEK	3	-0.09014	12006.7	12508.1
Usp34	0.77382	1.05E-41	113.89	RVS(0.774)S(0.226)DEEHTVDSCIG	4	-0.5425	23494.6	24325.2
Raly1	0.667273	8.81E-07	85.163	SSVGGGS(0.022)S(0.034)S(0.198)S(	2	-1.7849	10789.3	11606.5
Rem2	0.999995	2.81E-05	108.56	RGS(1)MPVPYK	2	-0.65223	81737.9	78111.3
Rpl18a	1	4.45E-73	160.57	SSGEIVYCGQVFEKS(1)PLR	3	0.67323	118992.4	119190.8
Drp2	0.966597	1.24E-06	92.19	LEAFS(0.967)DHS(0.033)GK	3	-0.49101	121808.4	102065.7
Snap23	0.745678	1.42E-24	97.767	ATWGDGGDS(0.127)S(0.746)PS(0.	2	-0.59748	45183.5	46773.5
Ankrd17	0.499949	1.84E-42	94.317	GASSSEQEAS(0.5)S(0.5)PPVVETTN	3	-1.3669	4722.7	4759.1
Ankrd17	0.499949	1.84E-42	94.317	GASSSEQEAS(0.5)S(0.5)PPVVETTN	3	-1.3669	4722.7	4759.1
Ubxn4	0.969576	3.84E-41	126.84	ATSTEPS(0.006)NS(0.97)AS(0.02)S	3	-0.59537	5356.4	5940.9

9595.5	7641.6	7932.3	9146.5	-0.1	0.6	373
34465.7	34375.9	32259.2	32673.0	-0.1	0.1	2860
15023.2	12965.2	14709.9	12425.0	-0.1	0.7	12
21883.7	19228.4	17531.1	18945.0	-0.1	0.6	2036
29581.1	24124.3	27465.2	26720.0	-0.1	0.5	226
7527.9	7445.8	7497.2	7768.0	-0.1	0.3	386
4258.8	3889.6	4514.1	3292.3	-0.1	0.6	318
15605.5	15715.1	16400.5	15538.0	-0.1	0.3	764
72051.8	67859.8	63386.6	68934.0	-0.1	0.2	2645
10429.0	8698.7	9819.6	9312.7	-0.1	0.4	115
11393.8	9297.4	11949.6	10562.0	-0.1	0.6	1310
19880.1	19117.3	18451.2	18666.0	-0.1	0.0	547
48617.9	47400.6	45654.6	47191.0	-0.1	0.1	22
45028.0	45344.7	49309.4	47569.0	-0.1	0.5	386
118271.1	95069.5	96840.5	110280.0	-0.1	0.6	780;750
266522.5	268214.2	261935.3	263400.0	-0.1	0.1	365
34905.4	33514.7	32103.1	32523.0	-0.1	0.1	455
63598.5	58888.5	55944.6	64935.0	-0.1	0.4	353
14914.6	13211.6	13753.4	14393.0	-0.1	0.5	123
61512.9	50486.0	56605.0	55869.0	-0.1	0.4	1812;1686
42223.7	37931.0	43103.8	43637.0	-0.1	0.5	627;627
12912.0	12252.5	13367.7	13455.0	-0.1	0.4	487
19365.8	16919.6	21774.7	20731.0	-0.1	0.6	243;234
7382.5	6594.9	6630.9	6932.4	-0.1	0.2	434
11772.8	10924.7	10931.2	12772.0	-0.1	0.4	93;93
24002.4	22941.9	21567.4	24028.0	-0.1	0.2	3399
10306.3	10632.9	10008.7	10565.0	-0.1	0.3	85
74578.2	73105.5	72731.9	77871.0	-0.1	0.2	69
111127.3	110436.0	112816.7	110090.0	-0.1	0.1	71
118132.7	96043.0	118363.0	111970.0	-0.1	0.6	23
49493.1	43369.2	45483.6	46133.0	-0.1	0.2	110
5566.2	5084.7	4048.7	5227.2	-0.1	0.6	1814
5566.2	5084.7	4048.7	5227.2	-0.1	0.6	1815
5072.6	4823.2	5647.0	5152.0	-0.1	0.5	452

LOC10036	0.997758	2.04E-07	56.819	QGNS(0.002)RLS(0.998)LEPGEDPF	3	2.1976	36354.1	34021.9
Syncrip	1	0.019762	57.532	LFVGS(1)IPK	2	0.76859	8120.7	8061.9
Nipbl	0.999905	5.51E-22	140.27	AITSLGGS(1)PK	3	-2.0966	92507.8	95722.3
Ksr1	0.999093	8.94E-20	58.325	T(0.001)DVLGVPEAEAEPEAGKS(C	4	1.5968	5035.7	4779.8
Ttbk1	0.586262	0.000531446	53.946	KES(0.586)S(0.194)S(0.194)PS(0.0	3	-0.8378	9257.7	8621.3
Mast3	0.847478	1.70E-09	89.911	S(0.847)S(0.047)ES(0.105)VVDED(C	2	0.83892	7187.1	7507.4
Lifr	1	0.000820479	42.947	QFLIPPKDEDS(1)PK	3	0.15436	7386.7	7639.5
Rgs3	0.585813	1.86E-59	97.352	GPCFAS(0.156)DT(0.586)T(0.156)I	3	-0.2277	12907.2	13368.1
Kiaa1671	0.99819	0.00787869	66.962	RS(0.002)HS(0.998)FCK	3	-0.23704	16282.5	14284.0
Nfia	0.937851	8.25E-31	74.321	S(0.938)PGS(0.045)GS(0.011)QS(0	3	-1.8808	62505.9	61719.0
Thra	0.99996	1.97E-10	91.592	VECGS(1)DPEENSAR	2	0.0022339	14350.3	13317.6
Emd	0.989142	2.12E-37	142.58	RLS(0.989)PPS(0.005)S(0.005)S(0.1	3	0.78867	14944.3	13715.8
Mprp	1	7.61E-15	79.837	QVPIAPLHLS(1)LEDNR	3	0.36065	15076.7	15479.7
Rb1cc1	0.960327	1.01E-17	133.48	S(0.96)T(0.039)ELVLSPPDMPR	2	-1.5251	20000.0	19696.2
LOC10091	0.870196	3.29E-43	103.91	YLS(0.87)FT(0.13)PPEK	3	-0.24617	124575.4	117841.6
Map1b	0.499981	3.10E-07	89.26	DLTGQVS(0.5)T(0.5)PPVK	3	0.16865	2903.9	3814.9
Caskin2	0.502038	0.000262027	42.947	GS(0.062)S(0.436)GEGLPFAEEGNL	2	0.086962	8336.2	7848.0
Pcnx13	0.909081	0.00945816	53.869	GS(0.066)LS(0.909)QELS(0.025)K	2	-0.99204	34210.8	33666.5
Phip	0.993482	0.00477694	78.516	DGPT(0.007)S(0.993)PKK	3	1.8904	46996.3	47030.2
Arhgef6	1	4.41E-15	88.969	KDS(1)VPQVLLPEEEK	4	-0.2313	36150.1	35322.9
LOC68372	0.555986	6.20E-31	74.81	EKGPTSVEGALDLS(0.008)DGHPPSI	5	0.15539	9227.0	10518.9
Arhgap27	0.949273	0.0178974	58.63	QPQVT(0.051)S(0.949)PR	2	0.38799	9451.1	9677.0
Glyr1	0.999947	0.000116073	90.793	SRPNS(1)GDEK	2	0.040341	33578.7	36819.0
Sptbn1	0.972987	4.65E-47	140.27	T(0.001)S(0.005)S(0.973)KES(0.25	2	0.68356	533521.3	541426.2
Hspa12b	0.791316	0.0222921	68.371	S(0.209)S(0.791)VNFVK	2	-0.012565	12146.2	11851.1
Akap12	0.939006	2.77E-43	114.96	S(0.001)PES(0.006)PS(0.045)S(0.9	2	0.01097	242042.4	235134.7
Ndr1	0.940837	3.41E-29	126.91	T(0.002)AS(0.006)GS(0.218)S(0.07	2	-0.019755	96756.1	99731.5
Cgn1	0.990842	1.30E-86	155.87	VLNKGS(0.991)QES(0.009)IGAGAF	4	-0.93608	25845.4	24206.7
Herc1	0.999843	1.30E-11	55.662	HES(1)EEKGDIEQKPESESILDVR	5	1.2123	27455.5	25370.5
Cbx3	0.974804	7.33E-17	133.04	SLSDS(0.001)ES(0.975)DDS(0.024)	2	1.0495	127402.0	130445.1
Tjp1	0.953826	1.28E-07	88.19	S(0.954)VAS(0.912)S(0.133)QPAKI	3	1.2599	87592.8	83837.2
Vhl	1	0.00337807	61.165	AAS(1)PEEAER	2	0.22328	7193.5	7626.4
Macf1	0.99668	8.84E-08	89.992	AFVES(0.003)QQKS(0.997)PGK	3	0.51028	37932.0	35137.5
ULK2	0.699667	2.78E-13	63.979	T(0.148)T(0.148)S(0.7)VGS(0.003)	3	-0.89508	5245.3	7124.1

37526.5	36005.0	33655.9	33314.0	-0.1	0.3	1005
7569.7	7928.4	7465.2	7274.0	-0.1	0.2	249
89193.6	86553.6	89139.9	89065.0	-0.1	0.1	2432
5525.4	5387.1	4902.9	4350.6	-0.1	0.6	534
7703.1	8600.4	7954.8	7859.2	-0.1	0.5	1246
6813.4	6857.0	6749.6	6920.3	-0.1	0.2	134
9346.2	7168.9	7584.7	8507.2	-0.1	0.6	1073
13448.6	12112.8	12927.4	12872.0	-0.1	0.1	730
14379.1	13170.9	15351.1	14374.0	-0.1	0.5	1467
63089.6	59329.6	61326.3	58120.0	-0.1	0.0	300
13869.1	12998.2	13404.0	13242.0	-0.1	0.1	12
13782.9	14426.0	13293.9	12789.0	-0.1	0.4	49
14705.9	13447.0	14277.1	15476.0	-0.1	0.3	761;784
18251.2	18533.2	18453.3	18321.0	-0.1	0.2	237
129194.3	113713.8	116001.3	124970.0	-0.1	0.3	141
3758.2	3387.7	3447.6	3164.7	-0.1	0.6	526;400
8443.2	7887.6	7785.9	7832.6	-0.1	0.1	955
35562.2	32452.1	33537.3	32741.0	-0.1	0.1	246
48729.7	44518.7	43409.4	48332.0	-0.1	0.2	883
39690.9	34213.1	34739.5	37153.0	-0.1	0.4	526;697;655
8090.2	8976.1	8604.1	8989.8	-0.1	0.6	158
9593.2	8487.3	9794.7	9133.1	-0.1	0.3	238
32120.2	31511.6	31079.4	35265.0	-0.1	0.5	122
522962.8	499161.7	511346.1	514740.0	-0.1	0.0	2147
11669.5	10070.7	11184.4	12790.0	-0.1	0.5	434
251979.5	227977.6	230175.2	237850.0	-0.1	0.1	274
91987.2	87786.7	92632.2	94948.0	-0.1	0.2	336
28079.9	23340.0	25671.0	25571.0	-0.1	0.4	467
27644.5	24552.2	24967.8	27295.0	-0.1	0.3	2420
129865.0	119158.6	120553.7	130390.0	-0.1	0.2	99
87748.9	79364.3	83648.1	84399.0	-0.1	0.1	321
8857.1	6809.9	7821.5	7972.3	-0.1	0.6	7
30507.3	35226.2	33553.3	30103.0	-0.1	0.6	1367;1309
5578.7	5176.6	6218.0	5740.4	-0.1	0.7	705

Xrn2	0.847427	1.28E-11	63.998	KAEDS(0.153)DS(0.847)EPEPEDNV	3	-0.36216	11686.2	12927.1
Dock7	0.980231	0.00831905	56.258	MNS(0.98)LT(0.02)FK	3	-1.3506	5849.5	5146.1
Plxdc2	0.999963	2.27E-41	129.74	RGS(1)GHPAYAEVEPVGEK	3	0.21729	157863.1	159908.2
Phka1	0.934212	1.77E-22	62.582	LFQPSRPSLNLLDS(0.065)PES(0.93)	4	0.84776	15595.5	16329.8
Sgpp1	0.949131	3.22E-09	92.952	NS(0.051)LT(0.949)GEEGELAK	2	0.41649	36981.4	36223.4
Usp24	0.93622	1.04E-53	130.49	TLLSETSS(0.001)PS(0.002)S(0.036)	3	0.54177	143765.6	149739.8
Oasl2	0.992982	4.09E-13	71.685	EEWILLT(0.007)NPHS(0.993)PIRK	4	0.81075	5602.4	5116.2
Aif1l	0.830943	7.02E-18	98.804	ANES(0.169)S(0.831)PKPAGPPPER	3	1.0066	8459.8	9493.6
Gapdh	0.499925	6.93E-22	80.632	IVSNASCT(0.5)T(0.5)NCLAPLAK	4	0.30129	3822.3	3626.7
Gapdh	0.499925	6.93E-22	80.632	IVSNASCT(0.5)T(0.5)NCLAPLAK	4	0.30129	3822.3	3626.7
Rbmxrtl	1	3.35E-20	100.04	DVYLS(1)PR	2	-1.1542	263260.1	263095.0
Myo18a	0.998885	3.68E-29	122.01	FSHNY(0.001)LS(0.999)DSDTEAK	3	0.62441	144278.4	150738.0
Pcm1	0.791888	9.30E-05	46.892	HIS(0.792)ES(0.208)DEKEGENIK	3	0.27225	26089.9	25248.8
Zfp628	0.776061	6.23E-43	90.922	T(0.122)HS(0.776)PAPS(0.101)PAF	3	0.029	6269.0	6737.6
Eea1	1	0.000152621	78.556	RVS(1)ELEK	3	0.21551	47859.8	41924.1
Fsd1l	0.834048	0.0253038	66.504	S(0.834)GT(0.161)PS(0.005)PK	2	-0.53135	22039.5	22644.7
LOC10091	0.600447	1.08E-17	71.781	DKS(0.4)PVREPIDNLT(0.6)PEER	4	0.12867	20511.7	21057.5
Cnp	0.999703	7.64E-15	68.97	FCDYGKAT(1)GAEEYAQQDVVR	3	-1.0676	11072.4	10963.7
Ick	0.97583	4.47E-05	50.131	S(0.007)RPPY(0.006)T(0.976)DY(0	3	0.048032	14753.4	16016.1
Ick	0.885409	4.47E-05	50.131	S(0.007)RPPY(0.006)T(0.976)DY(0	3	0.048032	14753.4	16016.1
Peg3	0.968245	7.63E-09	69.261	SVIHS(0.032)LGS(0.968)PEAQK	3	-0.43064	15650.3	13959.3
Cdc16	0.575842	1.03E-42	96.793	QNTEEAGLAPLENAT(0.576)KT(0.4	4	-1.195	8859.2	8624.2
Rb1cc1	0.950403	9.40E-07	45.735	AAQS(0.95)LDEMS(0.017)QT(0.01	4	0.46593	5881.2	6412.7
Nup160	0.500428	6.14E-71	103.05	LIRPEY(0.001)AWIVQPAS(0.056)G	4	-0.53634	22078.9	20651.6
Nefl	0.997282	6.10E-72	103.59	RSYSSSSGS(0.001)LMPS(0.997)LEM	4	0.40797	116894.5	121055.5
Gpr149	0.560064	0.00389069	56.793	GAS(0.359)T(0.56)PGT(0.081)PAA	2	0.027862	4149.6	4622.8
Map2	0.947711	3.54E-15	85.469	AGVIQT(0.022)S(0.001)T(0.006)EF	4	-0.79628	5959.5	5291.5
Nup93	0.950432	0.000355235	54.259	GT(0.003)S(0.017)PS(0.014)S(0.01	2	0.11667	9214.3	10139.2
Nfatc1	0.998355	7.11E-05	52.527	S(0.002)LGACHLLGS(0.998)PR	3	-0.53627	3139.5	2353.1
LOC10255	0.866052	0.00884944	94.85	IDS(0.134)T(0.866)PVK	2	-0.2073	60625.1	56861.9
Fam189b	0.970227	7.07E-28	103.2	S(0.018)HS(0.97)DPGIT(0.008)T(0.	2	-0.16254	72009.2	75281.3
Pdlim4	0.996432	4.37E-33	112.91	IHIDPEAQDGS(0.996)PAT(0.003)SI	3	0.26086	21808.1	23230.5
Amer2	0.927417	3.69E-39	83.944	AAGPGSLVLPGS(0.001)LT(0.071)A	4	0.79439	14504.2	14236.9
Pfkip	0.909976	0.0308402	63.073	QS(0.028)AS(0.91)GT(0.062)K	2	0.50256	7935.6	8833.8

11227.7	11473.7	11206.9	11537.0	-0.1	0.4	111
5734.8	4962.9	4685.0	6324.7	-0.1	0.7	1383
168330.5	152454.4	153136.7	158500.0	-0.1	0.1	507
14682.5	15426.9	14680.0	14391.0	-0.1	0.3	680
39112.8	35002.9	35280.2	36951.0	-0.1	0.2	103
149731.2	136714.0	139693.1	146770.0	-0.1	0.1	1137
4929.2	5275.7	4789.9	4874.1	-0.1	0.4	371
9692.6	8546.8	8556.5	9292.0	-0.1	0.4	134
3242.7	3354.4	3474.2	3379.6	-0.1	0.4	151
3242.7	3354.4	3474.2	3379.6	-0.1	0.4	152
232443.3	248282.9	246760.6	229440.0	-0.1	0.4	205;208
157194.4	137868.9	144384.5	149510.0	-0.1	0.2	2041
25777.1	24220.0	25611.1	23798.0	-0.1	0.1	1432
7156.5	6096.9	6402.0	6752.6	-0.1	0.4	143
42556.9	39298.3	42563.0	44498.0	-0.1	0.5	1265;771
22084.9	21257.8	20553.2	21942.0	-0.1	0.1	288
19092.2	17543.3	21408.1	18970.0	-0.1	0.5	120
10475.2	9965.0	11541.4	9537.7	-0.1	0.5	262
16268.8	13628.5	15305.1	15982.0	-0.1	0.4	157
16268.8	13628.5	15305.1	15982.0	-0.1	0.4	159
14533.4	12856.3	14908.7	14387.0	-0.1	0.4	674
10745.4	9394.0	7940.2	9621.8	-0.1	0.6	587
5672.3	5653.4	6115.7	5387.3	-0.1	0.4	623
21670.8	20189.8	20020.0	21289.0	-0.1	0.2	1094
123935.0	110743.9	116482.2	118360.0	-0.1	0.2	67
5122.5	4043.3	4822.6	4403.9	-0.1	0.6	237
5849.0	5345.4	5209.5	5775.9	-0.1	0.4	560;474
9846.0	9326.7	9022.8	9536.6	-0.1	0.2	772
3135.6	2485.0	2630.9	3124.2	-0.1	0.7	235
50893.1	54808.8	52233.2	53766.0	-0.1	0.4	191
75306.4	71931.9	66571.2	74090.0	-0.1	0.3	493
23636.1	20831.0	22156.2	22605.0	-0.1	0.3	52;111
14261.9	13550.4	13287.5	14235.0	-0.1	0.1	226
7706.8	8153.8	7540.0	7684.0	-0.1	0.4	571;560



Trim28	0.795644	2.70E-152	136.07	LAS(0.796)PS(0.204)GSTSSGLEVV/	5	-1.2723	25089.2	23455.3
Sfi1	0.998215	0.0134336	47.556	VQS(0.002)QRS(0.998)PER	2	0.35539	21260.7	21434.8
Top2b	0.901289	6.43E-07	41.933	KT(0.046)S(0.046)FDQDS(0.901)D'	4	-1.191	2585.5	2886.9
Nefh	1	4.08E-82	165.47	S(1)PAEAKS(1)PVEVK	3	0.44012	1949911.7	1949327.3
Ralgapb	0.859931	3.68E-12	105.4	S(0.132)DS(0.86)APPT(0.008)PVNI	2	0.10534	7467.8	8041.4
Snx17	0.999838	0.0194793	70.747	SGGS(1)IRK	2	0.34706	54425.5	57778.9
Brf1	0.568477	0.00143436	55.261	ECIS(0.057)S(0.374)PS(0.568)GDP	2	-0.29363	11138.7	10479.0
Pex5l	0.914924	1.72E-28	84.327	SALNS(0.042)ES(0.915)AS(0.042)E	3	0.85878	3639.2	3483.7
Larp7	0.877057	7.41E-08	56.081	DLEFCS(0.877)T(0.123)EEEKEPGDI	4	0.0058945	46305.8	50065.4
Ubr4	0.717567	0.019225	40.994	T(0.718)KEGVGS(0.282)PK	3	-0.19913	18131.1	19955.1
Zc3h18	1	2.57E-05	96.143	KANLS(1)PDR	2	0.25473	81257.3	79634.9
Ciz1	0.97979	0.0183923	46.159	QPS(0.98)PQDT(0.02)VK	2	1.0892	7018.0	6983.9
Tnip1	1	3.90E-06	68.044	VPEAGAFGT(1)AEK	3	-0.25385	8654.0	8096.4
Nsd1	0.6687	8.97E-27	66.893	GKS(0.321)PENLGLDFLS(0.669)GG	3	0.26756	13449.8	11409.0
Pbrm1	0.969014	0.0010243	78.149	T(0.003)YS(0.028)QDCS(0.969)FK	2	-0.27708	22386.6	23082.4
Ank3	0.999066	4.46E-10	79.885	AEEPVS(0.999)PLT(0.001)AYQK	3	0.59085	10851.8	10203.7
LOC10254	1	0.0295399	68.224	NIHLGT(1)P	2	-0.23682	9486.1	8396.7
Pragmin	0.795803	7.09E-15	69.256	AAS(0.204)S(0.796)PDGFFWTQGS	3	-0.71511	7328.7	6323.6
Smarca5	1	1.57E-07	57.936	VPRS(1)PDLPNAAQAQK	3	1.1746	9613.7	10766.3
Ppp1r12b	0.99984	2.76E-05	71.153	S(1)LDEEPIYHR	3	2.7051	8045.7	9348.9
Cdk13	0.923429	0.000972024	70.929	S(0.923)GS(0.038)EAS(0.038)K	2	-0.86919	35524.0	36056.7
Rbms3	0.647808	1.16E-65	92.865	QSYAPAPHPMAPP(0.648)PS(0.17	3	0.0020362	66909.3	63143.9
Map1b	0.935041	7.06E-31	88.945	SSIS(0.012)PMDEPVPDS(0.935)ES	2	0.21414	71098.0	75674.0
Mapk8ip2	0.96139	4.77E-23	152.67	MISEGS(0.039)S(0.961)PIR	2	-0.35507	41637.6	45491.3
Eml1	0.760946	1.51E-58	176.99	TGS(0.09)T(0.761)S(0.151)S(0.845	3	0.12634	70524.3	63815.2
Rsl1d1	0.896881	1.33E-42	77.995	CLAS(0.052)ES(0.897)PDAS(0.017)	4	-0.53484	8177.6	8565.9
Plekha6	0.967653	1.74E-129	150.11	MLSVQCAT(0.032)PS(0.968)PPTSF	4	0.097835	14788.0	13866.1
Itsn2	0.999463	0.00014326	48.216	QPPMFS(0.999)PLIS(0.001)AR	3	-0.273	5233.0	4574.0
Srsf7	0.990823	0.00160395	89.171	S(0.009)AS(0.991)PERMD	2	0.025225	74364.8	76456.1
Dcaf10	0.984135	0.00529427	45.347	GADAAS(0.984)PPPAT(0.57)GS(0.4	2	-0.0681	1509.3	1778.3
Dcaf10	0.570444	0.00529427	45.347	GADAAS(0.984)PPPAT(0.57)GS(0.4	2	-0.0681	1509.3	1778.3
Vps26b	0.998407	0.0181854	40.278	T(0.998)PGQLS(0.001)DNNSR	2	-0.24029	9705.0	10036.3
Map1a	0.999932	2.20E-49	118.85	DGHS(1)PMSK	2	-0.095118	374286.7	373806.6
Nfia	0.977676	9.14E-07	43.732	LKS(0.978)VEDEMDS(0.021)PGEEF	4	1.1391	8878.2	9797.1

22673.7	22857.2	23500.5	21665.0	-0.1	0.3	595
22211.6	19161.3	21468.0	21366.0	-0.1	0.3	835
2738.0	2498.1	2750.7	2593.3	-0.1	0.3	1570
2110120.4	1907440.1	1884126.0	1948300.0	-0.1	0.2	664;634
6596.2	7160.0	6792.5	7161.7	-0.1	0.5	293
55626.5	51546.3	53869.3	54893.0	-0.1	0.1	391
10954.1	10499.1	10247.9	10365.0	-0.1	0.1	230
3379.1	3332.4	3206.6	3492.5	-0.1	0.2	207
47981.3	47100.3	42493.6	48292.0	-0.1	0.4	335
15691.8	17313.4	17181.7	16874.0	-0.1	0.6	451
74890.1	76066.6	77753.5	71402.0	-0.1	0.3	870
7857.2	6408.9	6471.3	8000.1	-0.1	0.6	761
8707.7	8307.4	8303.1	7707.6	-0.1	0.2	259
13406.0	12761.7	11413.1	12377.0	-0.1	0.5	187
20835.0	22159.8	20267.9	20911.0	-0.1	0.3	988
10168.5	9484.1	10548.8	9795.6	-0.1	0.3	1830;2544
8503.1	9472.1	7570.5	8164.6	-0.1	0.6	976
5902.2	6216.0	5845.2	6619.8	-0.1	0.6	798
10462.6	10173.5	9311.9	9979.5	-0.1	0.3	802
9604.6	8544.4	8516.9	8732.8	-0.1	0.5	541
34906.4	33960.2	35169.1	32605.0	-0.1	0.1	224
63878.5	59335.1	61934.3	64007.0	-0.1	0.2	39
76226.2	72162.9	68896.5	71987.0	-0.1	0.2	1380;1254
42232.2	41481.7	40941.9	41165.0	-0.1	0.2	372
58288.1	60891.6	62984.8	60157.0	-0.1	0.5	129
9286.7	9391.9	7752.4	7724.8	-0.1	0.6	8
13957.5	12768.3	14238.6	13704.0	-0.1	0.3	1271
4191.4	4470.7	4394.6	4508.9	-0.1	0.5	110
65698.0	69763.8	66025.1	71078.0	-0.1	0.4	218
1647.7	1614.0	1493.2	1608.4	-0.1	0.4	50
1647.7	1614.0	1493.2	1608.4	-0.1	0.4	55
9420.1	9030.9	9619.5	9212.2	-0.1	0.2	325
346445.1	347037.3	349382.4	349380.0	-0.1	0.2	2875
8592.6	8547.0	8735.1	8771.7	-0.1	0.3	280

Arid4a	1	0.000999512	49.448	ILGQHS(1)PEKK	4	0.13194	9063.3	9874.5
Tusc5	0.97304	4.21E-12	62.589	RAS(0.985)S(0.973)VVT(0.017)T(0	3	1.0225	55503.7	52728.7
Pi4kb	0.588647	1.60E-40	111.45	ELPTLSPAPDT(0.589)GLS(0.389)PS	3	0.23661	15724.3	13924.2
Bclaf1	1	0.00292757	77.049	RRGS(1)QEK	2	-0.66988	75094.7	79266.4
Camsap2	0.993603	2.73E-07	68.576	EALS(0.994)PCPS(0.005)T(0.001)IS	3	0.26685	65382.7	61835.3
LOC68517	0.828465	3.82E-21	108.71	KRS(0.988)PS(0.183)PS(0.828)PT(0	4	0.34403	137659.1	140843.9
Ahnak	0.864726	7.45E-23	66.884	GGQIGLQGPGLS(0.135)VS(0.865)C	4	0.46387	8024.3	7436.6
Tcp11l1	0.992994	2.91E-08	116.06	VGRPHS(0.007)S(0.993)PPR	2	1.621	12584.0	11989.3
Copb1	0.904016	8.27E-05	47.68	T(0.091)NNVS(0.904)EHEDT(0.005	3	-0.80793	11053.8	10779.7
Htatsf1	0.999837	6.75E-31	90.464	ESEDNDLNRES(1)EGEDSPK	4	-0.056149	14404.0	13810.2
Usp1	0.535853	3.01E-07	46.558	GSEIDQVVPAAQS(0.536)S(0.428)F	3	-1.2427	5621.3	6092.4
Lrrfip2	0.998401	2.39E-05	51.611	DRFS(0.998)AEDEALS(0.002)NIAR	3	1.3563	10118.0	12130.8
Clmn	1	6.18E-71	101.9	HHS(1)EEEEGEAEGGLSAVGGEMPSM	4	0.67788	8009.6	8051.4
Vat1l	1	4.45E-63	112.39	ETSKEPAEGGDGS(1)HR	3	-0.066491	275079.6	245522.4
Ccnd3	0.976815	0.000131	57.414	EAAQT(0.023)APS(0.977)PVPK	3	0.88255	21828.4	22163.2
Hectd4	0.708036	2.02E-122	195.17	S(0.001)S(0.001)S(0.289)FT(0.708	2	0.97986	24130.3	24905.5
Tprg1l	0.895962	4.69E-26	76.807	DTVDS(0.001)AGT(0.048)S(0.896)	2	0.13176	52531.6	52344.8
Prph	0.862251	0.000742725	40.968	VVT(0.009)ES(0.129)QKEQHS(0.86	3	0.052782	11897.3	11337.7
LOC10035	0.947718	3.33E-15	101.05	NKS(0.948)T(0.052)ES(0.001)LQAI	2	-0.43082	13052.7	11835.7
Tjp1	0.77224	8.95E-21	69.052	AEAS(0.205)S(0.772)PVVPY(0.011)L	3	-0.015103	21085.4	20774.5
Sorbs1	1	6.30E-61	156.73	DIS(1)PEEIDLKNEPWYK	4	0.44727	445954.8	439599.6
Tp53bp1	0.759691	3.80E-38	85.17	CS(0.017)DS(0.76)QS(0.223)LEGA	3	-0.083997	4716.1	5653.5
Atp2b1	0.937003	4.94E-13	98.676	RQPS(0.063)IAS(0.937)QHHDIR	4	0.48439	8738.6	7951.6
Prkab1	0.990261	0.000513231	111.33	RDS(0.99)S(0.01)GGTK	3	0.98047	63325.3	64098.2
Prx	0.759108	1.76E-91	110.3	VGFSQS(0.004)ES(0.219)AS(0.759	3	3.8565	4046.5	3896.1
Bcas3	0.922682	3.36E-26	78.078	CSPVPGLS(0.054)S(0.923)S(0.923)	3	-2.6401	23684.2	23212.9
Dennd4c	0.908295	3.37E-17	69.045	RS(0.061)S(0.433)LPS(0.223)AQDS	3	-0.71378	11017.1	11757.8
Arhgdia	0.975917	0.0373891	60.799	YIQHT(0.024)Y(0.976)R	3	0.23043	21356.1	22227.9
Mpdz	0.750969	4.70E-24	64.612	QHAGS(0.751)PPT(0.248)DMS(0.0	5	2.2724	13944.8	12327.1
Srrm2	1	4.69E-06	91.093	GQRGDS(1)HS(1)PGHKR	3	-0.46131	239740.5	247836.9
Tmem117	0.971732	0.00554295	62.582	S(0.972)PS(0.023)EHS(0.005)K	3	0.58236	29423.4	26226.1
Cbarp	0.82363	0.000361057	55.097	AS(0.02)S(0.824)LDT(0.156)R	2	0.31729	30477.7	30884.7
Fxr2	0.998903	1.49E-37	107.03	T(0.015)DGS(0.986)IS(0.999)GDR	3	0.83013	71162.4	69168.2
Map4	0.987259	1.33E-79	107.01	VTEFNNVT(0.009)PLS(0.987)EEEV	2	0.92449	94349.3	91955.5

8692.3	8785.7	9010.7	8603.6	-0.1	0.3	593
49058.7	49389.3	50479.5	50421.0	-0.1	0.3	85
14579.2	13178.6	13551.5	15529.0	-0.1	0.5	263;263
68051.9	69964.0	74141.4	68408.0	-0.1	0.4	159
57416.1	59236.1	59409.1	57773.0	-0.1	0.3	645
133548.7	128750.3	131731.7	133240.0	-0.1	0.1	190
8217.7	7936.6	7326.0	7362.9	-0.1	0.3	5331
10460.9	11395.6	11716.6	10364.0	-0.1	0.5	56
10322.6	10096.6	10208.5	10421.0	-0.1	0.1	371
14896.5	13695.6	13026.8	14472.0	-0.1	0.3	546
5460.4	4884.2	5446.3	6080.7	-0.1	0.6	66
11699.4	9564.1	11797.8	11078.0	-0.1	0.6	18
7986.2	7655.9	7637.0	7686.0	-0.1	0.0	733
268864.7	238944.2	265664.9	249790.0	-0.1	0.4	31
23229.4	22387.5	19283.7	22564.0	-0.1	0.4	216
22397.9	22794.5	22118.8	23348.0	-0.1	0.3	1645
58441.4	51199.8	48821.0	56044.0	-0.1	0.5	14
10394.7	10922.2	10450.3	10764.0	-0.1	0.3	496
11625.9	10981.3	12068.2	11844.0	-0.1	0.4	106
24875.4	19730.0	22081.4	21962.0	-0.1	0.6	1073
485285.1	420657.6	421067.1	468310.0	-0.1	0.4	768;556;819
6069.5	4881.5	5278.8	5549.8	-0.1	0.6	785
8399.2	7713.7	7548.4	8715.0	-0.1	0.4	1142
68462.9	61317.3	62231.4	63654.0	-0.1	0.2	24
4384.3	3768.6	4416.0	3596.2	-0.1	0.6	1271;1271
25826.1	22432.6	23886.3	23182.0	-0.1	0.3	487
12238.1	10930.4	11417.4	11114.0	-0.1	0.2	1248
22712.0	20237.1	20519.0	22603.0	-0.1	0.3	133
14152.3	12079.8	12813.0	13741.0	-0.1	0.5	907
230463.0	226052.7	218345.3	241850.0	-0.1	0.3	2684
29300.0	24544.5	26058.9	30586.0	-0.1	0.6	438
30423.2	29239.1	29860.0	28624.0	-0.1	0.0	46
68310.6	67341.7	64686.1	67382.0	-0.1	0.1	605
103364.0	92320.7	95784.7	88749.0	-0.1	0.3	509;509

LOC10091	0.793987	3.62E-06	53.554	KKS(0.794)PS(0.349)S(0.739)PS(0.	3	-1.0584	16888.3	17465.1
Ankrd17	0.985555	5.83E-07	61.127	NSPLDCGS(0.014)AS(0.986)PNK	3	0.40047	15296.1	17979.5
Cog3	0.528501	2.60E-32	76.423	S(0.027)GS(0.097)T(0.027)DS(0.52	4	0.89013	4548.2	5655.3
Rexo1	0.914837	1.22E-06	70.942	S(0.085)LDEGAPQDT(0.915)PK	2	0.84813	16926.5	16731.2
Tcp1l1l	0.607249	3.70E-05	70.438	VKS(0.607)DS(0.41)PS(0.983)PLR	2	0.1846	14232.2	13880.4
Unkl	0.945419	9.41E-32	88.565	AAAAALS(0.053)GS(0.945)PPQT(0	4	0.28842	11157.4	10246.8
Trim28	0.99973	4.91E-34	146.33	S(1)GEGEVSGLMR	2	0.35779	85367.2	85422.2
Srrm2	0.810985	4.84E-05	68.676	SSRS(0.188)S(0.811)PELTR	3	0.57019	23018.7	23821.7
Chchd2	0.859029	2.58E-25	73.809	APAAQPPAT(0.859)AAAPS(0.134),	3	0.7715	13618.0	13082.9
Map4	0.996914	2.08E-14	127.79	LATT(0.003)VS(0.997)APDLK	3	0.38689	41796.3	37233.7
Dlg5	0.986132	0.030973	52.725	S(0.986)APS(0.014)FRPK	2	0.91045	8466.2	9517.6
Thrap3	0.657469	0.00733928	42.862	T(0.657)KKS(0.343)PEIHR	4	-0.56932	41688.9	39441.8
Tmem115	0.662691	7.42E-06	52.19	T(0.177)DS(0.663)PLPS(0.156)EQA	3	0.45798	9703.9	10108.6
Syt6	1	1.42E-17	95.5	S(1)VDGDEAK	2	-0.28217	413847.8	407767.1
Eprs	0.834873	0.000343271	42.716	GDVS(0.165)IS(0.835)VEEGKENLLF	3	-0.52261	13829.1	15253.7
Afap1l2	0.773433	3.05E-70	104.53	MAQQPLSLVGCVDLPDPS(0.007)PI	3	1.2186	26809.0	26138.4
Sybu	0.958292	9.34E-22	70.761	TPSDTGHSPIGFCPGS(0.958)DEDFI	3	0.0085976	21309.6	21930.6
Ppm1j	0.943818	0.00741802	47.987	AVQS(0.944)PPDT(0.056)GR	2	-0.64922	16484.0	16591.9
Fra10ac1	0.933733	2.18E-10	61.477	S(0.01)S(0.01)S(0.026)S(0.011)EEA	3	0.52438	10528.3	9524.2
Wdr4	0.995468	9.90E-07	88.092	SPHPGS(0.995)PEQT(0.004)K	3	0.27487	87747.8	84763.0
Mpzl1	0.95821	2.24E-15	82.121	DYT(0.001)GCS(0.958)T(0.039)S(0	2	0.39641	21525.5	24538.0
Srrm1	0.648148	1.85E-09	123.26	RLS(0.352)PS(0.648)AS(1)PPR	2	-0.69606	41656.7	46747.2
Hid1	0.999998	0.00658076	70.496	RTPEPLS(1)R	2	0.67022	29016.7	26731.8
Fkbp15	0.671942	1.09E-15	88.427	SSSVSEPLT(0.325)S(0.672)PDT(0.0	3	-0.20867	16475.7	17263.2
Scrib	0.841072	3.12E-31	86.18	NEAFVCKPDPS(0.142)PPS(0.841)P	3	-0.84842	69182.6	66242.7
Atxn2	0.702719	1.71E-17	69.704	T(0.063)NS(0.191)PS(0.799)AS(0.7	4	0.2313	9799.4	10795.6
Srsf10	0.999948	7.21E-05	92.838	S(1)RS(1)FDYNYR	2	-0.49646	98639.4	105309.3
Rbmxml	0.513146	0.0011152	40.475	EY(0.022)S(0.513)DHPS(0.316)GG	3	-0.20608	5073.8	5927.3
Rai14	0.973323	4.75E-15	110.22	ISQDADLKT(0.973)PT(0.027)K	4	0.71639	60084.8	60168.0
Srrm3	1	0.000527875	77.597	AAAAPT(1)PPAR	2	-0.91141	18050.0	19572.3
Dcaf10	0.780618	3.15E-12	70.802	GADAAS(0.009)PPPAT(0.21)GS(0.7	2	0.61931	7441.5	6379.9
Tbc1d8b	0.704267	0.00258006	43.308	KLHS(0.151)PAS(0.704)S(0.144)AK	4	0.70858	11142.7	12951.3
Zc3hav1	0.974925	1.86E-08	45.43	FLHNS(0.975)LEFLS(0.008)PVVS(0.	4	0.25479	3141.2	3362.7
Sh2d1a	1	0.000607751	94.82	RDS(1)DICLK	2	0.45132	73378.4	77308.4

16137.8	16485.1	16699.7	15074.0	-0.1	0.3	399
16915.0	15228.9	15414.1	17329.0	-0.1	0.5	1801
4608.2	4713.1	4748.1	4695.7	-0.1	0.6	536
18406.6	16322.3	16296.8	17144.0	-0.1	0.3	482
13853.1	12734.2	13951.1	13426.0	-0.1	0.2	42
10772.0	9760.1	10569.6	10425.0	-0.1	0.3	15
78417.3	79648.1	75522.1	83028.0	-0.1	0.3	474
21476.0	20936.6	21749.0	22613.0	-0.1	0.3	1653
13316.5	13022.4	12669.8	12558.0	-0.1	0.0	37
36663.1	36475.8	37833.2	36277.0	-0.1	0.4	1978;902
9352.1	8064.2	8941.6	9123.9	-0.1	0.4	1009
37133.6	36182.1	37553.2	39316.0	-0.1	0.3	666
9577.0	8862.7	9447.3	9784.1	-0.1	0.2	320
348989.6	392729.6	345214.7	381080.0	-0.1	0.5	217
13084.4	13649.4	13688.3	12972.0	-0.1	0.4	31
27646.6	25634.6	25339.7	26070.0	-0.1	0.1	432
23607.4	20152.4	21257.5	22495.0	-0.1	0.4	111
14782.6	15001.3	15668.5	15082.0	-0.1	0.3	110
10525.3	9241.9	10259.6	9732.8	-0.1	0.4	257
84428.2	80406.0	82060.1	83186.0	-0.1	0.0	249
24302.6	20905.8	22638.2	23732.0	-0.1	0.5	204
41149.5	40122.1	41065.8	42677.0	-0.1	0.4	306
24346.2	26616.8	24290.3	25673.0	-0.1	0.5	588
15572.5	15906.5	15082.8	16159.0	-0.1	0.3	353
76429.6	65945.9	63966.9	72650.0	-0.1	0.5	506;506;506
9966.5	9904.6	9277.9	10039.0	-0.1	0.3	636
98104.6	92821.2	96668.5	99319.0	-0.1	0.2	133
5353.7	4927.8	5295.6	5414.4	-0.1	0.5	270
60581.3	58638.9	57572.1	56704.0	-0.1	0.0	199;249
17211.0	18071.2	17261.8	17100.0	-0.1	0.3	352
6270.6	6120.4	6685.8	6406.4	-0.1	0.5	57
11665.3	10530.8	12350.3	11313.0	-0.1	0.5	1037
3071.9	3229.0	2883.8	3043.9	-0.1	0.4	257
71459.8	71589.8	62081.8	78758.0	-0.1	0.6	119



LOC10255	0.986947	0.0129306	101.43	ELS(0.013)GT(0.987)IK	2	-0.7784	23213.1	23560.6
Map1a	0.999501	8.56E-06	73.296	DFQEDS(1)WGETK	2	-0.15836	27290.9	27195.8
S100a13	0.62743	2.44E-08	103.97	KGS(0.076)LS(0.297)T(0.627)NEFK	3	-0.70274	42057.5	37227.1
Macf1	0.710639	1.07E-05	53.3	GMDAS(0.004)LS(0.061)PT(0.711)	3	-0.31108	16579.4	17745.9
Habp4	1	0.0208	50.034	RES(1)QKER	2	-0.6001	12053.2	12405.0
Uba5	0.897052	1.36E-13	60.029	KREDS(0.897)VS(0.088)EVT(0.014)	4	1.2314	19779.4	19776.3
Cope	1	3.14E-08	113.76	RDS(1)IVLELDR	2	-0.59529	7369.4	8027.1
LOC10369	0.999587	1.46E-44	164.92	RLS(1)QSDEDVIR	2	0.24623	75083.9	73355.1
Ahnak2	1	1.21E-117	134.74	S(1)PELEVALPGVEVDIQGPAAK	2	-0.018064	577936.7	588209.6
Rhbdf1	0.605849	0.000588137	75.819	RDS(0.12)T(0.606)S(0.204)S(0.07)	3	0.50091	14161.9	15972.2
Frmd8	0.897059	0.0430875	46.73	QGS(0.103)VVCS(0.897)R	2	0.10217	20691.8	16018.2
Osbpl11	0.77752	3.23E-21	103.39	S(0.035)FS(0.778)LAS(0.187)SGNS	3	0.5189	9535.1	9191.5
Peak1	0.999737	0.00158634	87.568	ANTLS(1)PVR	2	-0.2538	18716.7	21012.5
Rbm5	0.99997	0.000136188	75.819	DYDS(1)PERER	3	0.36667	18165.7	20242.5
Rab11a	1	0.0141912	73.885	S(1)IQVDGK	2	1.3979	21897.6	18126.5
Usp9x	0.706907	6.90E-13	62.303	EICSLFGEAPQNLS(0.707)QT(0.293	3	-0.27136	7827.9	6990.2
Arhgap39	0.986661	2.78E-05	50.305	RAELS(0.013)GNCS(0.987)PLLIQPF	3	0.26103	21691.3	22756.6
Rabl6	0.99992	3.50E-14	112.24	VS(1)PQQCSEPETK	3	1.1125	39150.9	41059.7
Prkaa1	0.55505	1.50E-84	135.64	DFY(0.002)LAT(0.555)S(0.443)PPC	5	0.037242	6341.1	7881.8
LOC10091	0.971759	0.00250855	63.091	S(0.972)APAT(0.028)GGVK	2	1.7698	21731.8	26466.4
Pnn	0.948251	0.00374203	48.532	KRS(0.948)IS(0.042)ES(0.876)S(0.1	3	0.01044	24231.7	23480.6
Casc3	0.705754	1.72E-08	46.862	GGGS(0.706)CS(0.226)GS(0.068)A	3	0.044215	5169.3	5359.5
Fam83h	0.927528	3.54E-39	116.04	GPKPGS(0.928)GS(0.065)GGGDS(C	3	0.48461	42757.6	40977.4
Scn11a	0.883433	2.78E-27	114.99	SSLNSLQAS(0.058)S(0.058)FS(0.88	3	-1.3501	56424.5	55479.8
Rasal2	0.999223	0.000176161	84.188	SSHS(0.999)EDFS(0.001)R	2	0.49286	9269.3	11344.3
Camta2	0.984851	1.10E-21	83.666	ES(0.002)APS(0.985)PS(0.013)GLP	3	-0.58541	34222.7	31974.0
Serpina1	0.999962	2.42E-29	78.674	GTEAAGATVVEAVPMS(1)LPPQVK	3	0.26298	12260.7	13122.4
Golgb1	0.551989	0.00112973	67.334	ET(0.001)S(0.007)VS(0.552)S(0.44	2	-0.79882	7296.8	7702.9
Incenp	0.998366	0.0136422	74.267	AT(0.002)PQS(0.998)PK	2	1.2643	16878.8	16880.4
Atp1a3	0.513359	6.81E-06	53.504	YNT(0.001)DCVQGLT(0.485)HS(0.!	3	0.41109	31380.6	34424.5
Mvb12a	0.990029	9.93E-12	53.674	RNDS(0.99)IY(0.003)EAS(0.003)S(C	4	-1.1707	5588.5	4489.6
Cacna1h	1	0.00227898	80.706	RAES(1)LDHR	2	1.0251	7270.3	7165.6
Bclaf1	0.62447	8.41E-22	91.166	NT(0.624)PS(0.374)QHS(0.001)HS	4	-0.35054	8127.8	7412.6
Apc	0.897288	6.57E-16	63.625	KLEES(0.055)AS(0.897)FES(0.046)I	4	2.4119	29709.6	30371.4



22773.8	20513.1	22545.2	23448.0	-0.1	0.3	128
28900.8	25338.7	25818.4	28586.0	-0.1	0.4	1260
35573.9	34515.6	38993.7	36332.0	-0.1	0.5	35
17070.5	17873.2	16403.7	14875.0	-0.1	0.5	4454;4396
12255.1	11459.4	11990.2	11661.0	-0.1	0.0	91
20073.8	18118.5	19487.8	19420.0	-0.1	0.1	380
7458.8	7813.9	7164.1	6879.6	-0.1	0.4	99
77646.5	70229.1	70861.8	75127.0	-0.1	0.2	81
618631.5	552949.7	574396.1	579540.0	-0.1	0.2	1793;1106
12852.4	14442.5	13292.9	13376.0	-0.1	0.6	9
17420.7	15741.5	18616.8	17412.0	-0.1	0.7	412
9330.4	8890.6	9543.6	8399.5	-0.1	0.3	185
19125.2	18148.2	17534.3	20606.0	-0.1	0.5	281
19256.2	17501.5	19325.4	18324.0	-0.1	0.4	59
21718.7	19899.4	20209.1	18944.0	-0.1	0.5	52;52
7571.1	7163.7	7044.0	7206.0	-0.1	0.3	588
22319.2	21007.0	22153.0	20699.0	-0.1	0.1	284
37567.0	35620.0	38339.7	38689.0	-0.1	0.3	363
6085.5	6352.3	6653.5	6418.4	-0.1	0.6	355
25261.8	23961.5	20256.1	26044.0	-0.1	0.7	29
21734.7	22111.4	23246.2	21066.0	-0.1	0.4	702
4668.2	4935.6	4962.0	4637.9	-0.1	0.4	34
40370.2	41730.3	37453.8	39519.0	-0.1	0.3	637
51713.9	52494.5	53427.9	50576.0	-0.1	0.2	449
9691.8	10192.7	8852.4	9941.6	-0.1	0.6	837
33896.1	30987.0	33139.7	31614.0	-0.1	0.2	909
12004.9	12454.8	11748.7	11559.0	-0.1	0.3	377
7657.1	7197.5	7259.1	7215.5	-0.1	0.1	1094;1094
15834.4	15536.9	15202.5	16700.0	-0.1	0.3	232
36979.3	29462.4	31360.4	37497.0	-0.1	0.6	56
4469.8	4716.2	5095.8	4104.2	-0.1	0.7	200
6881.4	7192.0	6791.8	6408.3	-0.1	0.3	1203
6869.0	6358.8	7678.2	7399.7	-0.1	0.6	254
29036.0	28192.0	28773.2	28284.0	-0.1	0.0	2360

Gbf1	0.980564	8.50E-16	59.226	ADAPDAGAQS(0.002)DS(0.006)EL	4	0.86286	11469.8	12292.0
Gorasp2	0.792251	1.22E-17	73.688	ADT(0.035)S(0.161)S(0.792)LT(0.0	3	0.23444	9172.9	8407.4
Map1a	0.578604	1.03E-16	62.213	APS(0.005)LDS(0.162)S(0.579)LPC	3	1.4614	1516.8	1307.2
Acbd5	0.999909	9.51E-05	83.045	MPHLS(1)EGTK	3	-0.31563	56172.8	56952.9
Vcl	0.967954	0.00499873	73.499	ALAS(0.968)IDS(0.032)K	2	-2.2504	13024.1	13465.7
Ahnak	1	0.0432192	57.859	IHMS(1)GPK	2	0.016952	5592.2	5939.0
Cacnb1	0.999102	0.00888638	53.557	RPT(0.999)PPAS(0.001)AK	3	0.47482	14856.0	16633.6
Kif19	1	0.00169851	72.531	REES(1)LEAK	3	0.20946	18851.5	18532.4
Dlg5	1	0.000515962	45.614	NLLQQS(1)WEDMKR	3	-0.23218	7262.0	8220.4
Srcin1	1	0.000351174	77.058	S(1)PPPPPPR	2	0.0052165	36608.1	34982.8
Zbed6	0.863376	1.81E-36	105.51	S(0.137)ES(0.863)PIPVAEQDNLAH	3	0.58282	11674.9	10127.4
LOC68482	0.999824	0.00178692	90.15	TSS(1)AAGKR	2	0.97354	91151.7	97173.5
Mapk3	0.988331	3.50E-59	141.08	IADPEHDHT(0.012)GFLT(0.988)EYI	4	-0.2581	57086.4	46600.2
Exoc2	0.859963	0.00569785	71.221	GS(0.123)S(0.86)FQS(0.017)GR	2	-0.6511	53447.5	56244.3
Prph	0.767083	9.76E-08	58.98	ISVPVHS(0.045)FAS(0.767)LS(0.18	3	0.051208	4173.8	3949.8
Myo1c	0.971614	0.00251817	82.008	DAES(0.972)PS(0.028)WR	2	-0.075242	22951.9	22388.0
Gjb1	1	0.0103914	58.699	S(1)NPPS(1)RK	2	0.55277	35677.8	34997.1
Hmgn1	0.947183	1.27E-92	112.74	QAEVADQQT(0.002)DLPAENGET	4	-1.2803	34909.7	29717.6
St5	0.72766	0.000103617	44.788	S(0.001)ET(0.002)PGNS(0.051)S(0	3	1.1389	14282.3	14923.5
Nfat5	0.836696	4.73E-18	75.548	EIS(0.162)S(0.837)PARPCS(0.002)f	4	-0.052808	32191.6	35630.0
Fkbp3	0.981706	2.25E-30	122.29	FLQDHGS(0.018)DS(0.982)FLAEHK	4	-1.1092	48272.5	53273.9
Esyt2	0.999994	3.41E-56	136.92	EPTPSIASDIS(1)LPIATQELR	3	-0.1962	12177.3	12423.7
Cds2	0.790309	2.49E-48	120.23	AETAPPPT(0.209)S(0.79)IDDTPEVI	2	0.057835	30042.4	28262.0
Pfkm	0.986034	6.42E-05	55.815	GRS(0.986)FMNNWEVY(0.014)K	3	1.3597	12745.0	12565.2
Sacs	1	2.05E-05	87.667	IADLQS(1)PLFR	3	-1.0027	2403.4	1992.3
Psmc1	0.999958	5.06E-22	88.176	TAGAVAGKT(1)PDAS(1)PEPK	4	-0.27672	222589.8	220962.5
Ahnak	1	2.83E-05	56.569	FGMPGFKAES(1)PEVEMNLPK	4	-0.1182	34873.9	34338.9
Tmem230	0.830098	4.28E-05	64.121	TNLAT(0.002)GIPS(0.83)S(0.168)K	3	0.87234	2061.3	2082.9
Gopc	1	0.00173451	44.543	AAHPHS(1)LHQK	4	0.74143	11632.7	9995.6
Ksr1	1	2.40E-07	81.185	FELPHGS(1)PQLVR	3	-0.29189	2572.4	2686.1
Kansl1	0.767161	7.40E-18	65.184	S(0.767)PIS(0.225)PELHS(0.008)Af	3	1.7374	10974.1	10960.4
Tbc1d9b	1	4.28E-10	95.264	VFQKNS(1)PMEDLGAK	3	0.25532	24804.2	24816.6
Lmna	1	8.22E-05	79.639	LDNARQS(1)AER	3	-0.067199	31903.0	31085.5
Gorasp1	0.999529	8.95E-10	84.653	KPPS(0.009)AS(0.132)S(0.86)PGT(	4	0.01503	186380.0	185773.5

13118.5	11174.5	12287.3	11818.0	-0.1	0.4	1312
7680.5	7841.3	9175.1	7148.8	-0.1	0.6	411
1342.1	1243.3	1276.0	1466.2	-0.1	0.6	2436
54523.5	54204.9	51833.5	54340.0	-0.1	0.1	341
13589.1	12284.3	13098.4	12958.0	-0.1	0.1	272
5208.8	5329.1	5613.9	5071.1	-0.1	0.4	4726
14534.5	14664.7	15594.7	13769.0	-0.1	0.5	205
18569.5	16403.7	18687.4	18436.0	-0.1	0.3	880
6486.8	7187.8	6191.3	7637.5	-0.1	0.7	154
37294.4	33576.3	35747.2	34843.0	-0.1	0.2	1037
12313.6	9729.7	10501.8	12406.0	-0.1	0.7	384
94946.9	86279.7	88031.7	96686.0	-0.1	0.3	29
55854.3	46042.1	52595.4	53991.0	-0.1	0.6	203
49435.6	49503.7	51176.3	51556.0	-0.1	0.3	432
3709.5	3745.5	3559.5	4015.7	-0.1	0.4	451
23404.0	19332.9	22969.4	23466.0	-0.1	0.5	389
33997.2	31387.4	33270.1	35486.0	-0.1	0.3	225
34625.4	31606.2	30742.7	32610.0	-0.1	0.5	87
16356.1	15975.8	13475.6	14140.0	-0.1	0.5	384
32314.0	31323.6	32649.2	31833.0	-0.1	0.3	484
48302.8	46705.4	49299.7	47366.0	-0.1	0.3	36
10956.2	12121.6	11046.6	10852.0	-0.1	0.4	691
31718.9	27672.8	28234.6	30226.0	-0.1	0.4	46
12914.1	11533.1	12580.1	12460.0	-0.1	0.2	377
2600.8	1922.4	2390.2	2381.7	-0.1	0.7	1740
210362.6	202370.6	210683.1	212620.0	-0.1	0.1	311
33049.7	30499.7	33793.7	33553.0	-0.1	0.3	889
2137.1	1998.8	2060.1	1951.2	-0.1	0.1	14
10276.9	9334.6	11559.5	9634.1	-0.1	0.6	301
2771.6	2388.2	2590.5	2705.1	-0.1	0.3	322
11809.0	11235.0	10052.9	11001.0	-0.1	0.3	923
24821.1	23629.3	24811.8	22792.0	-0.1	0.1	429
30448.8	28303.1	30691.5	30416.0	-0.1	0.2	277
180605.9	179370.4	172318.8	177250.0	-0.1	0.0	220

Scn9a	0.987335	6.13E-05	44.238	ASILT(0.001)NT(0.012)VEELES(0.!	4	0.74891	2398.2	2312.7
Cep170b	0.756918	8.82E-22	84.946	QES(0.128)FT(0.757)KEPT(0.095)S	3	0.48405	35197.2	36983.6
Stub1	0.55977	2.18E-14	75.064	LGTGGGGG(0.027)PDKS(0.413)PS(	2	0.64566	20331.6	19743.4
Map4	0.75483	4.34E-08	57.788	T(0.104)S(0.119)PS(0.755)KPS(0.0	3	-0.097644	48489.6	50111.5
U2surp	1	0.0114602	57.347	VKS(1)PS(1)PK	2	-1.664	107583.3	107989.1
U2surp	1	0.0114602	57.347	VKS(1)PS(1)PK	2	-1.664	107583.3	107989.1
RGD13105	0.993813	2.72E-09	70.47	S(0.994)PPLS(0.006)PVGTTTPVK	3	0.26104	7176.6	6461.8
Pds5b	0.881543	2.69E-05	53.453	T(0.882)PS(0.109)PS(0.01)QPK	2	0.29604	51701.5	52916.3
Mark2	0.549779	5.53E-06	51.31	SSDQAVPAIPT(0.202)S(0.202)NS(C	3	-0.74945	37635.0	34854.5
Srrm2	0.891112	6.82E-06	45.363	GPS(0.891)PEGS(0.093)S(0.008)S(	3	0.40734	4879.8	6415.4
Hmgxb4	0.659536	1.64E-13	76.341	S(0.66)PPT(0.209)T(0.131)MLLPA	3	-1.4143	4849.1	5506.7
Phka2	0.50981	9.39E-07	59.673	S(0.49)LNLVDS(0.51)PQPFLK	3	-0.10367	10598.3	9802.7
Aptx	0.818866	5.62E-92	128.07	KRPDCDSQEMEAEGAS(0.819)PS(	4	0.33682	9819.6	14123.9
Lmna	0.847239	0.000343374	99.855	S(0.847)S(0.137)FS(0.015)QHAR	3	0.87082	22576.2	24131.0
Sec24b	0.818728	1.10E-08	54.964	APEPNS(0.003)T(0.003)LVPT(0.81	3	-0.11826	20039.4	21484.2
Mical3	0.999995	0.00896088	78.264	SSLFS(1)PR	2	-0.096179	11489.0	10256.7
Stxbp5l	0.544007	3.47E-11	64.705	SLSGST(0.002)NT(0.033)VS(0.544)	3	2.123	40109.8	36686.3
Speg	0.781017	5.01E-22	83.393	AVS(0.781)PAAT(0.219)QPPPPSG/	3	0.29862	17996.3	19732.4
Fbxo42	0.889473	7.10E-15	51.954	GPS(0.005)AS(0.011)AALS(0.889)F	4	0.10181	10443.3	10270.7
Mknk2	0.853274	0.00153856	78.61	AT(0.001)DS(0.853)FS(0.146)GR	2	-0.020786	19846.2	18491.8
Serbp1	0.999957	5.33E-65	147.64	SKSEEHAEDS(1)VMDHHFR	5	0.41727	111237.6	108991.7
Trim28	0.870308	3.43E-27	68.666	QGS(0.87)GS(0.123)S(0.006)QPMI	5	-1.0193	21329.9	19538.2
Eprs	0.956179	0.00196705	49.333	EMPT(0.024)S(0.02)GS(0.956)KEK	3	0.86635	24603.8	23038.5
Tbc1d16	0.999859	0.00036336	78.903	YITPEGS(1)PVR	2	-0.27233	15023.0	13846.4
Plp1	0.687868	2.20E-08	92.792	GLS(0.038)AT(0.275)VT(0.688)GGI	3	0.017164	10575.0	10076.9
Ptpn11	0.596637	1.57E-07	57.973	IQNT(0.001)GDY(0.164)Y(0.597)D	2	-1.7437	18726.3	17657.0
Morc2	1	0.0115459	51.979	S(1)PPLPAVIK	2	0.94014	33001.4	31409.1
LOC10036	0.77511	5.04E-15	56.681	IMPDS(0.225)NDS(0.775)PPAEREF	3	-0.91134	13479.7	13624.8
Ncor2	0.640148	1.11E-62	108.32	VGECSGPAAVNNS(0.175)S(0.64)D	3	-1.549	5918.3	5735.8
Fam103a1	0.999641	5.83E-13	73.448	RPPES(1)PPIVEEWSNR	3	0.81467	11501.6	11866.4
Tanc2	0.797886	1.64E-38	82.988	ELPLTQAPSAHS(0.007)S(0.021)IAS	4	0.49642	45245.5	42402.3
Erg	1	0.00830081	96.668	ALQNS(1)PR	2	-1.1208	7667.3	6899.3
Gbf1	0.905958	3.50E-29	107.65	GYT(0.004)S(0.085)DS(0.906)EVY(	3	-0.43762	20555.8	21641.0
Macf1	0.994181	4.33E-21	101.05	GMDAS(0.001)LS(0.994)PT(0.005)	4	0.13608	64060.0	60517.9

2231.8	2276.8	2399.5	1967.3	-0.1	0.5	705
32034.0	32379.5	31574.2	35771.0	-0.1	0.5	892
19797.0	19235.0	18596.5	19461.0	-0.1	0.1	26
51897.0	47035.4	47911.6	49068.0	-0.1	0.1	1839;763
106069.2	104629.3	101018.9	102140.0	-0.1	0.0	945
106069.2	104629.3	101018.9	102140.0	-0.1	0.0	947
6940.3	6858.9	6194.7	6639.4	-0.1	0.4	189
52569.9	47497.4	52039.8	50886.0	-0.1	0.2	1346
40730.0	34238.4	35132.7	38977.0	-0.1	0.5	421
5750.8	5431.6	5262.2	5618.9	-0.1	0.6	1607
5262.2	4958.2	4666.3	5322.0	-0.1	0.5	495
10266.6	10227.5	9059.0	10063.0	-0.1	0.4	635
9539.2	9075.2	13855.0	9113.6	-0.1	0.8	71
23081.4	22068.5	20848.2	23874.0	-0.1	0.4	428
19543.6	18491.4	19484.6	20470.0	-0.1	0.3	341
9224.6	9496.6	10728.1	9416.7	-0.1	0.6	1698
41347.5	37762.7	35305.9	40007.0	-0.1	0.4	597
18226.7	16330.0	18076.1	19149.0	-0.1	0.5	471
10549.9	10436.5	10047.9	9438.9	-0.1	0.2	578
19389.3	16411.4	20737.0	18105.0	-0.1	0.6	27
107837.6	101011.5	105738.0	107260.0	-0.1	0.1	337
21576.0	19099.7	20297.8	20371.0	-0.1	0.3	439
18634.4	21707.7	21399.6	20330.0	-0.1	0.6	715
14711.2	13104.9	14273.9	14335.0	-0.1	0.3	102
10237.8	8775.1	9449.6	11342.0	-0.1	0.6	118
15919.6	16399.3	16466.7	17197.0	-0.1	0.4	63
31889.2	29870.5	31679.9	30626.0	-0.1	0.1	565
14226.8	12920.1	12710.5	13932.0	-0.1	0.3	199
6066.4	5491.9	5740.8	5729.6	-0.1	0.1	743
11163.8	10576.3	12119.5	10359.0	-0.1	0.5	36
47853.5	42737.8	43137.9	43830.0	-0.1	0.3	504
6820.5	6035.6	6533.7	7903.2	-0.1	0.6	215
18591.8	20827.7	18707.7	18655.0	-0.1	0.5	1321
64980.4	59290.0	59566.2	62609.0	-0.1	0.2	4452;4394

Tnrc18	0.999978	8.32E-16	103.79	GGATERPLT(1)PAPR	3	-0.065509	22533.3	23502.5
Tenc1	0.708113	1.79E-19	63.625	YSLPGPLT(0.001)S(0.001)AGPLAS(	3	0.60778	6442.0	7144.3
Snd1	0.999381	5.68E-88	142.55	VSVTVDYIRPAS(0.999)PATETVPAF	3	-0.26721	18255.2	20289.6
Zfp638	0.980924	2.11E-17	91.065	EALKIS(0.981)PS(0.019)PELNK	3	-0.54256	18232.5	19246.5
Map2	0.571144	3.14E-27	103.75	ET(0.571)S(0.429)PETS LIQDEVALK	3	0.59992	19538.5	20249.0
Sh3d19	0.807871	0.00111931	57.532	ES(0.096)FS(0.808)S(0.096)HCAK	3	1.6461	2511.9	2407.0
Map1a	0.793057	7.44E-63	111.66	KHS(0.02)PGEIT(0.012)GPGGHFM	4	0.27453	23539.9	23842.5
Prkce	0.984305	5.97E-21	105.9	S(0.984)APT(0.014)S(0.002)PCDQI	2	1.5696	38096.6	38833.0
Tmem245	0.726469	2.53E-45	162.96	S(0.726)S(0.215)PS(0.058)SPSPTL	3	0.52354	15856.7	16435.1
Rassf5	0.976039	1.91E-49	119.41	EGPALDRQS(0.976)PES(0.017)T(0.	3	-0.12895	37835.4	36955.1
Pgam1	1	3.71E-08	95.428	HGES(1)AWNLENR	2	-0.9716	28766.2	28361.8
Camta1	0.877556	0.00069886	64.64	EAVS(0.122)S(0.878)PEIPK	2	0.22336	13022.9	11936.6
Osbp110	1	0.00580983	72.2	HKS(1)PAAAR	3	-0.081192	27413.7	26510.2
Pi4kb	0.999178	1.14E-36	140.35	T(0.001)AS(0.999)NPKVENEDEPVF	2	-0.90428	208218.0	197378.9
Ptpn13	1	0.00504333	53.756	RACS(1)PDPLR	3	1.2318	29943.4	29252.5
Thrap3	1	2.96E-21	117.18	KHGLTHEELKS(1)PR	4	-0.086944	160308.0	165052.8
RGD15611	0.928949	3.45E-26	78.419	AES(0.929)LDAPS(0.052)T(0.019)M	3	0.41959	14800.0	13883.7
Syne1	0.509421	9.98E-18	56.754	S(0.509)PS(0.463)PVANT(0.026)E/	4	0.89888	8919.7	7819.9
Sun2	0.898213	3.57E-05	105.2	GTGGS(0.064)ES(0.898)S(0.038)K	2	-0.83922	42644.3	43885.4
Elac2	1	0.000255877	60.657	NMQAS(1)PAPAEKR	3	-1.0603	66817.5	66009.0
Rbm15	0.999993	1.73E-07	83.692	S(1)PESDRPR	3	1.2808	57163.9	56650.2
Plxna4a	0.97861	4.28E-05	104.07	YT(0.01)GS(0.979)PDS(0.011)LR	2	-1.2245	11494.6	13059.9
Dpp9	0.977832	3.61E-13	61.488	MS(0.022)GGVS(0.978)PVEQVAAC	3	0.91373	4285.2	4464.9
Cpd	0.91975	0.0225735	42.21	MMS(0.006)T(0.074)GS(0.92)KK	3	0.31406	18232.5	19898.0
Cep350	0.646671	1.64E-07	43.795	DS(0.004)LES(0.025)T(0.074)PS(0.	4	-0.45735	7751.6	8566.7
lqsec1	0.902148	1.33E-12	71.143	S(0.902)LHS(0.098)EEVPASDTAR	3	1.4051	7264.7	6969.2
Nefh	0.999118	7.38E-181	199.04	GAGAASSTDSLDT(0.001)LS(0.999)	4	0.2057	150253.8	152383.4
Ddx42	0.73124	1.84E-24	64.645	ANFDEENAYFEDEEEDS(0.009)S(0.(	3	-0.27905	8488.3	7121.0
Zc3h18	0.999781	9.23E-12	50.627	GPAGS(1)PCEEGDDAEEDGTSDLRD	4	1.3231	4605.9	3911.4
Srrm2	0.962107	4.91E-09	57.802	DGSGT(0.001)PS(0.002)RHS(0.962	3	0.65262	27914.7	26640.8
Arhgap17	1	0.027836	78.264	GGT(1)LNRK	2	0.25378	14282.3	12762.6
Caskin2	0.942098	7.36E-70	115.66	VGLS(0.008)PDS(0.04)PAGDRNS(0	4	0.84633	62863.7	54336.8
Ncor1	0.700158	0.00297779	41.825	S(0.079)PGS(0.022)IS(0.089)Y(0.0!	2	-0.53047	5534.2	5606.9
Tacc1	0.709589	2.45E-06	40.28	S(0.71)LS(0.268)FS(0.014)S(0.006)	3	1.0354	4474.3	4477.9

25277.8	21815.5	23158.6	23295.0	-0.1	0.3	2078
7450.9	6327.8	7066.8	6744.9	-0.1	0.5	851
18872.9	18215.3	17741.6	19011.0	-0.1	0.3	425
18736.6	17135.2	18718.4	17964.0	-0.1	0.2	1518
18893.1	19285.6	19577.6	17315.0	-0.1	0.4	1243;1157
2452.9	2583.9	2288.6	2185.0	-0.1	0.4	772
25042.5	23200.3	23144.7	22994.0	-0.1	0.1	1531
42199.2	37532.8	37151.4	39369.0	-0.1	0.3	346
16407.2	15239.9	16103.4	15282.0	-0.1	0.1	323
37891.7	34624.5	37562.8	35698.0	-0.1	0.2	177
28058.6	27414.3	26588.9	27558.0	-0.1	0.0	14
12144.4	11671.7	11601.2	12252.0	-0.1	0.3	1214
22680.1	24107.8	25491.4	23745.0	-0.1	0.5	225
192455.3	185453.2	197100.7	190050.0	-0.1	0.2	294
31315.4	28090.8	29336.4	29234.0	-0.1	0.2	2062
165051.4	151816.4	154867.9	162870.0	-0.1	0.1	695
16483.9	13595.5	15217.5	14434.0	-0.1	0.5	982
8757.6	8633.4	7559.9	8220.1	-0.1	0.5	103;5886
40814.1	38658.1	36939.8	46333.0	-0.1	0.6	121
60345.0	61406.4	64184.9	59373.0	-0.1	0.3	469
57905.9	53207.3	57586.0	53632.0	-0.1	0.2	655
11333.1	11530.9	10914.1	11919.0	-0.1	0.5	1254
3832.5	4316.0	3816.9	3915.5	-0.1	0.5	65
16696.8	16985.6	17255.4	18259.0	-0.1	0.5	1353
8630.6	7312.8	8973.9	7603.4	-0.1	0.6	2194
7450.4	6303.6	6611.1	7849.4	-0.1	0.6	261;260
144237.7	139397.9	142546.4	145970.0	-0.1	0.1	81;81
7330.7	6770.6	7164.8	8031.4	-0.1	0.6	96
4204.2	4035.1	3973.1	4173.9	-0.1	0.4	91
27067.5	26712.5	25353.6	26097.0	-0.1	0.1	1417
10261.1	11335.1	13230.9	11159.0	-0.1	0.7	513
65818.3	58538.8	57944.0	58780.0	-0.1	0.5	403
6121.4	5361.8	5844.6	5324.9	-0.1	0.4	2168
4332.3	3829.1	4784.6	4108.4	-0.1	0.6	51



Scrib	0.998915	1.25E-25	73.672	MTEAPSSPGS(0.001)QQPPS(0.999	3	1.1892	26916.4	24286.8
Srrm3	0.971029	8.22E-30	82.503	SGAHGGRPGS(0.028)AHS(0.971)P	4	-0.52457	23084.3	25809.3
Srrm3	0.752395	8.22E-30	82.503	SGAHGGRPGS(0.028)AHS(0.971)P	4	-0.52457	23084.3	25809.3
Brsk1	0.703875	2.59E-12	69.281	S(0.704)S(0.257)GGT(0.067)PLHS(	3	0.3035	18218.2	17759.1
Atat1	0.812429	1.67E-10	64.407	LLLAT(0.188)DPGGS(0.812)PAQR	3	-0.072285	2962.9	3588.9
Api5	0.999184	5.41E-70	182.02	TSEDTS(0.001)GS(0.999)PPKK	2	-0.21866	343837.6	340361.7
Rbm33	1	5.75E-06	85.837	AKPLS(1)PGAQPK	3	0.63791	63577.0	64863.9
Clcc1	0.995025	1.69E-05	61.725	FPS(0.005)GNKS(0.995)PEVLR	3	-0.40145	25759.5	22168.6
Arhgef10	0.51125	4.95E-05	63.292	S(0.387)S(0.102)S(0.511)ELQDEDF	3	1.1735	23184.5	26300.7
LOC68703	0.999992	1.75E-58	117.02	EPS(1)PILRPNLEGSGPLPR	4	0.0593	87876.6	85971.8
Cap2	0.999387	0.000103985	80.69	AQQQIRS(0.999)PT(0.001)K	2	-0.25963	70201.1	61771.7
Spen	0.962321	0.00162518	52.24	KT(0.037)S(0.962)PEAEDT(0.001)F	2	-0.097138	35705.2	35622.3
Tnks1bp1	0.771844	5.94E-10	62.002	VPS(0.228)S(0.772)DEEVVEEPQSR	2	0.98651	6918.4	7694.4
Prpf3	1	0.00231058	50.354	LGLT(1)PPPEPK	3	-0.30302	4407.7	4645.2
Oxr1	0.699845	1.84E-06	58.246	VVS(0.025)S(0.127)T(0.7)S(0.148)I	3	1.1611	27259.9	26876.6
Nedd4	0.971206	2.28E-20	67.827	EDENTMY(0.006)S(0.022)GQAVQ	3	1.9943	2974.5	3173.2
Map2	0.88185	1.12E-22	64.397	MQSKPGEDFEHAALVPQPDT(0.02	6	1.4927	8852.1	9205.4
Zfp532	1	0.0657316	51.064	EVNDS(1)PK	2	-0.2534	25839.4	22426.4
Mettl22	1	4.52E-07	81.632	AAS(1)DPNPAEPARDK	2	0.88959	66230.7	68172.2
Timm8a1	0.954944	5.32E-06	69.92	SKPVFS(0.001)ES(0.044)LS(0.955)I	2	0.4438	70289.4	72820.9
Cep164	0.747403	0.0208186	69.598	S(0.626)S(0.747)S(0.626)ELLK	2	1.8119	22247.1	20264.4
Cep164	0.626298	0.0208186	69.598	S(0.626)S(0.747)S(0.626)ELLK	2	1.8119	22247.1	20264.4
Bcas3	0.993407	2.09E-06	83.692	VKPPPQIS(0.993)PS(0.007)K	4	0.55295	30501.6	29403.9
Ablim1	0.651626	4.51E-63	108.9	T(0.004)S(0.022)S(0.008)ES(0.038	3	-0.13253	52306.2	53423.0
Phc1	0.89584	0.0111663	50.194	RS(0.04)S(0.896)S(0.064)DIAR	3	3.499	2933.6	2998.0
Tceb3	0.989663	0.0207307	69.338	S(0.99)PGS(0.01)LPK	2	1.5878	42906.6	37289.6
Kti12	0.99903	6.18E-18	75.334	AIS(0.999)PLANGGVPT(0.001)AVP	3	-0.38802	4872.3	4630.4
Drosha	0.990379	1.03E-10	51.473	S(0.008)YGLPVT(0.99)PEPAGCT(0.	4	0.88111	20716.8	20288.5
Irs1	0.999896	0.00130361	82.914	S(1)IPMPSSR	2	0.30603	15464.3	15658.5
Bclaf1	1	0.000282736	99.283	QKS(1)PEIHRR	4	-0.015126	108723.5	113508.7
Rtn1	0.999506	1.38E-76	180.84	GSVS(1)EDELIAAIK	2	-0.54834	306888.4	315659.2
Gpatch8	1	2.17E-07	76.228	GHLQS(1)PDPREPKN	4	0.091128	45981.4	42286.1
Fam57b	0.986236	1.09E-06	75.564	GS(0.986)PPRS(0.042)PCQT(0.971	2	-0.38401	67825.3	73703.9
Fam57b	0.998089	1.09E-06	75.564	GS(0.966)PPRS(0.036)PCQT(0.998	3	-0.38074	67825.3	73703.9

28167.2	25581.8	24875.9	25552.0	-0.1	0.4	1290
19585.2	22174.1	21166.6	22239.0	-0.1	0.6	333
19585.2	22174.1	21166.6	22239.0	-0.1	0.6	340
18506.7	17589.5	17095.1	17494.0	-0.1	0.0	421
2902.3	2824.1	3082.3	3147.6	-0.1	0.6	315
340131.8	320649.3	325273.8	335070.0	-0.1	0.0	464
63203.5	59084.3	60895.6	63559.0	-0.1	0.1	814
22374.5	22950.7	21425.2	22954.0	-0.1	0.5	404
19936.5	21403.0	26235.2	18848.0	-0.1	0.7	1214
82030.7	82227.5	82294.1	80538.0	-0.1	0.1	454
64590.8	61017.0	65297.3	61938.0	-0.1	0.4	301
32931.5	32480.7	34582.4	32792.0	-0.1	0.3	1003
8590.6	7612.1	7311.8	7299.6	-0.1	0.5	1597
4848.1	4433.1	4530.7	4350.1	-0.1	0.2	334
26236.0	24220.0	25941.3	26817.0	-0.1	0.2	203
2961.3	2768.6	2818.4	3137.3	-0.1	0.4	342
9102.1	9180.4	8188.3	8644.3	-0.1	0.3	288;202
25506.7	22250.0	23841.4	24569.0	-0.1	0.5	306
60633.5	65294.7	61999.5	59516.0	-0.1	0.4	120
66188.8	62657.0	66137.3	71678.0	-0.1	0.4	96
22689.6	18413.3	21112.1	22926.0	-0.1	0.6	235
22689.6	18413.3	21112.1	22926.0	-0.1	0.6	236
28420.6	28979.5	27411.8	28210.0	-0.1	0.2	570
49111.9	49576.3	49469.7	49272.0	-0.1	0.2	389;290
2820.1	2899.2	2530.4	2953.8	-0.1	0.4	851
43335.2	40980.1	38615.4	38739.0	-0.1	0.5	380
5007.5	4270.2	4674.6	4955.3	-0.1	0.4	156
19481.9	19231.7	19240.9	19471.0	-0.1	0.1	314
15899.4	15250.9	14518.6	15276.0	-0.1	0.1	369
98721.1	103549.1	101239.0	102690.0	-0.1	0.4	646
290807.0	288002.4	297264.7	289750.0	-0.1	0.2	350
41224.0	42262.7	40344.5	41453.0	-0.1	0.3	388
59052.5	60256.9	68557.8	63354.0	-0.1	0.6	215
59052.5	60256.9	68557.8	63354.0	-0.1	0.6	223

Trim28	0.796389	4.57E-12	93.342	S(0.796)RS(0.204)GEGEVSGLMR	3	-1.7327	25606.8	23981.8
Skp1	1	0.00216342	79.659	GKT(1)PEEIRK	3	1.3458	118997.2	127297.0
Garnl3	0.540913	6.48E-26	111.64	GAS(0.002)AHT(0.541)S(0.068)PQ	3	-1.1978	14860.8	15955.7
Cad	1	1.63E-17	98.676	IHRAS(1)DPGLPAEEP	4	0.25298	231117.4	228619.0
Synpo	0.628019	6.81E-06	40.086	SGPAAAEET(0.024)VPEWAS(0.628	3	0.65161	11928.0	12640.8
Srrm2	0.903885	1.80E-09	98.592	SHSGS(0.081)S(0.904)PEVDS(0.01	2	0.0030481	7052.1	6963.8
Blvra	0.985435	0.000305906	74.48	FT(0.015)AS(0.985)PLEEER	2	-0.40609	11368.6	12218.5
Ahctf1	0.861712	1.81E-13	103.23	VVAES(0.087)LDT(0.051)HS(0.862	2	1.3362	18146.6	16611.7
Cep131	1	0.000212715	60.937	LGS(1)GNLLDLHR	2	1.3071	9746.3	9996.7
Flna	0.880057	1.11E-10	50.865	FNEEHIPDS(0.04)PFVVPVAS(0.88)I	4	-1.2095	4686.0	5422.5
Bnip3l	0.975075	2.18E-46	102.69	DHS(0.004)S(0.021)QS(0.975)EEE\	3	-1.9785	35645.6	35498.4
Gramd1b	0.999921	6.47E-31	128.79	TESTYLAEIHRQS(1)PK	2	-1.0799	113345.1	122942.2
Mical1	0.713686	6.75E-17	55.084	T(0.271)CEAT(0.714)LRPGGY(0.00	4	2.4343	9039.2	9548.4
Elf1	0.998064	3.15E-55	135.49	TKPPRPDS(0.998)PAT(0.001)T(0.0	3	-0.50548	146866.5	138913.3
Nefh	0.999968	6.32E-47	116.74	SPAEAKS(1)PAEVKS(0.976)PAT(0.C	2	0.16062	871121.2	919499.8
Pank2	0.999953	1.29E-29	121.51	ERPGS(1)LGGSVSAAR	3	1.3696	41050.8	37850.1
Arhgef2	0.794156	2.05E-07	99.53	LES(0.794)FES(0.206)LR	2	1.0951	11419.0	9825.5
Hectd1	0.998313	4.67E-08	138.23	RLDS(0.998)S(0.002)GER	3	0.094213	80021.6	76207.1
Psd3	0.998754	0.00486406	80.455	T(0.001)AS(0.999)PVRK	2	-0.19274	28617.2	25278.4
Tcof1	1	4.18E-21	105.39	RKLS(1)GDQVEAGAPK	4	0.057468	32926.3	34298.3
Phf3	0.70374	0.00476322	74.267	T(0.009)S(0.009)S(0.278)S(0.704)F	2	0.2163	14388.5	13827.7
Ccdc86	0.57902	1.33E-30	88.872	EQS(0.002)S(0.006)KLS(0.405)PT(C	4	-1.0336	22875.6	23324.8
Clns1a	0.958444	1.83E-07	44.564	FGEES(0.041)KEPFS(0.958)DEDED	4	0.4789	4885.1	4375.5
Snip1	0.995659	6.24E-21	109.07	RS(0.004)S(0.996)DERPVSGQGR	3	-0.40625	19398.9	21333.9
Sptbn1	0.768018	3.84E-16	91.065	HDTAST(0.01)QS(0.768)T(0.22)P/	3	-0.1376	5132.8	5211.0
LOC10369	0.927676	0.000156545	44.788	S(0.072)QGS(0.928)IAPEEEQVANK	3	0.65795	17692.2	20986.2
Prrc2a	1	1.55E-08	52.019	AEPAAPPVT(1)PPAPALPPVVPK	4	0.17529	23114.1	22075.4
Katnb1	0.826369	0.0122163	44.318	NS(0.008)IS(0.166)RT(0.826)PPR	3	0.5104	5424.2	6471.6
Son	0.852053	0.00274285	77.662	SKS(0.148)S(0.852)EHK	3	0.40835	12517.2	12919.5
Hnrnpc	0.834521	1.06E-09	74.296	QADLS(0.025)FS(0.835)S(0.14)PVE	3	-0.28784	29252.8	32005.8
Hectd1	0.638516	3.98E-20	65.766	LS(0.639)VS(0.17)S(0.191)LLAAGA	4	0.6876	1978.2	1895.9
Dlg5	0.999874	1.27E-53	93.505	APS(1)PPPLLTEQQANDKVENLSIQL	4	-0.56908	26174.5	27077.3
Cdc42bpa	0.992653	0.0123144	51.286	S(0.993)PS(0.007)CTPAGK	2	1.1446	10491.2	10431.7
Wdr47	0.886868	4.43E-36	102.21	S(0.887)LLENT(0.107)ECHS(0.005	3	1.1151	30335.8	30300.1

22342.6	22331.4	25360.0	21223.0	-0.1	0.6	472
117738.8	113328.8	115060.9	120380.0	-0.1	0.2	131
13739.2	14940.8	14160.6	13587.0	-0.1	0.5	806
217059.2	209652.3	214519.6	224270.0	-0.1	0.2	1859
12825.7	12499.9	11989.1	11340.0	-0.1	0.3	448
6756.9	6041.6	7265.5	6596.4	-0.1	0.5	1541
12989.7	11598.0	11215.4	12234.0	-0.1	0.4	154
18005.2	15769.0	17335.5	17453.0	-0.1	0.4	1305
10144.1	9072.0	9629.9	9936.1	-0.1	0.2	304
4697.4	4937.6	4473.1	4776.4	-0.1	0.5	2319
36535.3	33763.3	34493.7	34922.0	-0.1	0.0	80
111297.7	104810.8	116375.3	111890.0	-0.1	0.4	544
9418.5	8447.1	9493.3	8896.8	-0.1	0.3	714
151104.6	135625.0	141616.7	141410.0	-0.1	0.2	150
1013986.3	997894.4	803267.6	886450.0	-0.1	0.6	574;574
43213.8	38946.3	38647.5	39429.0	-0.1	0.3	62
10679.4	10469.9	10290.9	9832.4	-0.1	0.4	839
73401.7	69671.4	78762.3	71625.0	-0.1	0.4	357
25826.1	28120.5	25675.2	22603.0	-0.1	0.6	575
29583.2	30070.7	32035.8	30668.0	-0.1	0.4	1228
14698.4	13370.0	13379.4	14379.0	-0.1	0.2	194
24739.1	22930.9	22204.3	22852.0	-0.1	0.2	126
4587.9	4659.4	4061.2	4551.9	-0.1	0.5	100
19373.3	19975.3	17402.9	20229.0	-0.1	0.5	149
5304.6	4198.4	5024.3	5775.1	-0.1	0.7	2305
19819.4	20058.9	16986.1	19022.0	-0.1	0.6	317
22884.5	21564.7	20126.8	23554.0	-0.1	0.4	513
5029.3	5171.7	5919.8	5130.4	-0.1	0.7	395
11367.2	11735.5	11291.3	12248.0	-0.1	0.4	1852
29623.7	29641.7	27743.1	29722.0	-0.1	0.3	231
1941.8	1859.4	1556.3	2158.7	-0.1	0.7	1399
26481.9	24392.7	25138.8	26891.0	-0.1	0.2	22
10031.5	9063.8	9575.3	11030.0	-0.1	0.5	970
27712.6	27101.9	31330.5	26248.0	-0.1	0.5	359

U2surp	0.983073	0.0105466	51.726	EKDECT(0.983)PT(0.017)R	2	-0.7076	86408.4	90381.4
Prkar1a	1	4.64E-52	128.29	EDEIS(1)PPPPNPVVK	2	1.1912	481997.6	473252.9
Rnf113a2	0.769785	3.41E-10	46.399	GAYCDLS(0.77)S(0.225)EEEEKAGN	4	0.79838	14265.6	13927.5
Atrx	0.979351	2.40E-06	72.898	VCDQT(0.005)S(0.016)KFS(0.979)F	3	0.52326	32605.5	30862.8
Eepd1	1	6.52E-43	168.67	S(1)VEDLVR	2	-0.10526	95146.0	100061.7
Tns1	0.99966	6.27E-93	171	RAASDGQYENQS(1)PEATSPR	3	0.038325	23628.2	27238.6
FAM120C	0.984696	6.34E-05	47.688	NQMGPI(0.985)PGKPMFS(0.015)	3	0.75193	29947.0	24937.3
Usp47	0.499991	2.60E-09	60.062	ELEQHIQT(0.5)S(0.5)DPENFQSEER	3	0.14851	5825.2	6197.5
Usp47	0.499991	2.60E-09	60.062	ELEQHIQT(0.5)S(0.5)DPENFQSEER	3	0.14851	5825.2	6197.5
Ryr2	0.999254	5.63E-55	135.76	ISQTS(0.001)QVS(0.999)IDAAHGY:	3	0.26256	42733.7	47568.8
Thoc2	0.957281	0.0487872	60.118	ASS(0.006)T(0.037)T(0.957)PK	2	-0.94948	16927.7	17294.0
Map1b	0.953881	1.22E-92	129.48	TLEVVSPSQSVTGSAGHTPYYS(0.9	4	0.13915	222816.4	228520.3
Skap2	0.886254	0.000440899	42.818	GS(0.099)RDS(0.886)VQHPS(0.014	4	-0.10925	10772.4	10943.9
Rph3a	0.5	0.000267003	49.448	WHQLQENHVS(0.5)S(0.5)D	2	-1.161	20257.7	19349.6
Polr2a	0.724889	2.56E-05	52.365	YS(0.012)PT(0.162)S(0.725)PT(0.0	3	0.74823	32269.1	30758.6
Polr2a	0.63933	2.56E-05	52.365	YS(0.012)PT(0.162)S(0.725)PT(0.0	3	0.74823	32269.1	30758.6
Cpox	0.960103	2.25E-21	82.765	S(0.04)PS(0.96)PGRLEEDGDELAR	3	1.3147	36423.2	36129.1
Dnajc5	0.851059	1.18E-21	81.656	SLSTS(0.002)GES(0.147)LY(0.851)F	2	-0.014479	22876.8	22066.6
Lmna	0.986271	9.05E-34	138.44	SGAQASST(0.001)PLS(0.986)PT(0.1	3	0.313	59959.6	62792.9
Cluh	0.987837	8.19E-45	102.73	SEDS(0.012)LGS(0.988)EAGCEEEG	3	-1.6843	16331.4	16505.3
Pard3b	0.969374	7.22E-06	51.611	ANS(0.969)PEGEES(0.024)PS(0.00	4	-0.17971	5464.4	5692.1
Dnajb2	0.999296	0.000911679	72.29	S(0.001)AS(0.999)PDDIKK	2	-0.047183	46279.5	42141.3
Wdr33	0.773481	8.48E-18	99.069	S(0.113)S(0.113)S(0.773)LDGDHH	3	0.61422	2283.0	2248.5
Nefh	0.99181	5.14E-15	124.16	TSVSS(0.002)VS(0.992)AS(0.006)P	2	-0.32417	15303.3	14326.8
Hnrnpa2b:	0.643644	0.0440176	46.34	S(0.644)GNFGGS(0.356)R	2	-0.22639	14274.0	13761.9
Pdcd4	0.599917	0.000301272	74.376	S(0.001)GVAVPT(0.399)S(0.6)PK	2	0.24258	46952.2	45062.4
Atp1a1	0.911403	5.01E-25	138.19	AVAGDAS(0.089)ES(0.911)ALLK	2	0.81246	29037.0	31875.2
Atp1a1	0.998031	6.41E-14	99.941	AVAGDAS(0.998)ES(0.002)ALLK	3	0.40986	8922.9	9401.3
Zc3h13	0.720671	7.72E-05	52.451	S(0.075)KGDS(0.203)DVS(0.721)D	3	-0.65284	9109.3	9412.5
Ccdc86	1	0.00138902	60.901	QDAGFGS(1)PQR	2	-0.58345	29022.7	32756.1
Srrm1	0.998306	0.00332087	79.148	VS(0.002)HS(0.998)PPPK	2	-0.19594	71825.5	72399.7
Lyst	0.97947	2.39E-13	112.44	LAGS(0.021)LVFS(0.979)VDK	3	-0.50021	45457.8	41315.3
Pds5b	0.985594	5.64E-41	108.14	AES(0.986)PET(0.014)S(0.001)AVE	4	0.46761	39643.5	37813.9
Map1a	0.827408	7.95E-33	95.344	QLS(0.157)PES(0.827)LGT(0.015)L	2	-1.5148	33049.1	32112.2

90067.6	83870.8	84896.3	87016.0	-0.1	0.1	918
488436.4	454250.4	464454.0	465080.0	-0.1	0.0	83
14037.3	12454.8	14221.5	13802.0	-0.1	0.3	84
32334.2	31479.7	29371.7	30979.0	-0.1	0.2	312
91924.4	90581.7	90041.8	94604.0	-0.1	0.2	173
27130.3	23611.7	26062.1	25090.0	-0.1	0.5	1081
25605.7	26699.3	24666.4	25788.0	-0.1	0.5	142
5892.9	5263.6	5826.9	6082.5	-0.1	0.4	913
5892.9	5263.6	5826.9	6082.5	-0.1	0.4	912
45212.2	44021.5	41969.9	43907.0	-0.1	0.3	2806
17998.8	17270.5	15463.3	17323.0	-0.1	0.4	1248
222467.6	213106.2	217597.3	215200.0	-0.1	0.0	1332;1206
11639.7	10217.9	10525.7	11232.0	-0.1	0.3	285
20436.9	19287.8	18150.9	20121.0	-0.1	0.3	680
26104.0	28121.6	29259.5	28063.0	-0.1	0.6	1913
26104.0	28121.6	29259.5	28063.0	-0.1	0.6	1919
36876.0	33696.2	34251.1	36956.0	-0.1	0.2	101
25204.3	21251.2	22840.1	23156.0	-0.1	0.4	17
61742.8	55315.9	61133.9	60418.0	-0.1	0.3	22
15112.6	16147.4	14506.8	15313.0	-0.1	0.4	666
5366.9	4718.9	5675.4	5446.2	-0.1	0.5	280
41840.4	38319.3	43873.2	42686.0	-0.1	0.5	15
2457.6	1892.4	2343.6	2464.3	-0.1	0.6	1274
13000.3	13649.4	14029.2	13193.0	-0.1	0.5	59;59
13608.3	12230.5	13238.4	14458.0	-0.1	0.4	318
42731.5	43231.7	41688.9	44272.0	-0.1	0.3	94
27850.0	27056.8	29896.4	28151.0	-0.1	0.4	454
8289.3	8589.6	8469.5	8457.9	-0.1	0.3	452
8010.5	8076.3	8415.3	8947.9	-0.1	0.5	1091
30041.0	28626.5	28018.8	31394.0	-0.1	0.5	81
68040.2	68303.1	67914.5	67311.0	-0.1	0.1	573
37483.9	40558.8	42331.1	36255.0	-0.1	0.6	2119
38568.8	36475.8	38298.1	36479.0	-0.1	0.1	1323
36843.0	31172.9	31542.1	35093.0	-0.1	0.5	1447



Add1	0.86492	2.47E-17	92.439	GDDASEEGQNGS(0.135)S(0.865)P	3	0.067842	41461.1	38387.6
Pgam1	0.954157	1.22E-29	83.317	S(0.954)Y(0.046)DVPPPPMEPDHP	4	-0.056646	94435.2	91379.6
Smg9	0.999998	1.81E-21	95.414	EPGSSGPQNL(1)GPGGR	2	-0.094316	12517.2	11312.5
Bicd2	1	0.000135963	83.783	S(1)PVLLPK	2	-1.4763	62139.8	60622.1
Sipa111	0.551532	1.59E-08	119.39	EYGS(0.291)T(0.552)S(0.134)S(0.0	2	0.99685	6370.6	5890.3
Clip2	0.839572	0.000146202	86.463	IGFPS(0.025)T(0.136)S(0.84)PAK	2	-0.56582	59746.1	57953.3
Rbm25l1	1	3.49E-59	141.45	QEPES(1)EEEEEEKQEKEEK	3	0.29339	275675.9	292887.2
Svil	0.793038	1.52E-47	86.434	HIPS(0.205)S(0.793)PLQQPAS(0.0	4	0.016534	30248.7	31977.3
Bmpr2	0.733284	2.47E-17	70.121	S(0.024)VS(0.243)PT(0.733)VNPM	3	-0.60448	20150.3	20326.9
Srrm2	0.658967	0.0245653	66.962	S(0.659)S(0.042)S(0.299)PQPK	2	-0.37299	15388.0	15294.3
Optn	0.882352	3.42E-08	90.707	KNS(0.045)AT(0.882)PS(0.073)ELN	4	1.2327	51516.6	45283.9
Rpl19	0.988644	3.41E-05	90.614	T(0.009)LS(0.989)KEEET(0.003)K	2	-0.64727	54407.7	49847.1
Mllt4	0.807499	2.74E-07	79.614	LQLS(0.807)VT(0.192)EVGTEK	3	0.53148	6799.2	6557.5
Map1s	1	2.33E-70	149.86	RPVVTTQDLEVPS(1)R	3	-0.16746	36047.5	35252.6
Rpl17	0.549637	4.75E-41	108.08	INPY(0.031)MS(0.55)S(0.419)PCHI	3	-1.6433	19263.0	23687.9
Irf2bpl	0.958229	2.52E-05	49.768	NS(0.003)S(0.008)S(0.029)PVS(0.9	3	-0.054835	21459.9	20416.9
Dock10	1	0.019148	70.439	NALS(1)NPK	3	-0.24948	45747.6	39695.2
Raf1	0.858654	5.61E-22	82.859	AAHTEDINACT(0.003)LT(0.068)T(C	3	0.66831	12402.7	13452.6
Gmip	0.928154	9.51E-09	55.02	T(0.045)QGS(0.928)PEDPPLQAS(0	3	1.1972	6097.7	6138.7
Abl2	0.594204	8.64E-27	103.58	S(0.169)NS(0.594)T(0.169)S(0.05):	3	-0.13257	19660.1	19123.6
Sox6	0.7143	0.00376963	54.309	RGT(0.285)S(0.714)PVT(0.001)QV	2	1.7776	11790.4	12103.4
Rtn4	0.747956	8.09E-17	60.288	ESETFSDS(0.003)S(0.012)PIEIIDEFI	4	1.9464	11736.7	11678.9
Zfyve28	0.711295	9.29E-06	42.863	VFFMDDVEVT(0.066)ES(0.223)PAI	3	-0.72559	7508.5	6448.5
Map1b	0.984985	3.58E-163	195.35	QGFS(0.009)DKES(0.985)PVS(0.00	5	0.19529	976721.0	1002152.4
Gnas	0.999532	3.37E-13	66.826	AHLRPPSPEIQVADPPT(1)PR	3	0.64297	20332.8	22751.1
Rbm15	1	2.16E-05	115.29	DRT(1)PPLLYR	3	0.13301	100618.0	102159.0
Sptbn1	0.972329	2.94E-43	132.83	T(0.016)S(0.018)S(0.024)KES(0.97	4	-1.1906	419393.8	421588.2
Gpatch8	0.937897	1.15E-23	95.307	GPKPEPPGS(0.062)GS(0.938)PAPP	4	0.07005	41372.9	45703.0
Kank1	0.922262	0.000180946	70.345	KT(0.076)S(0.922)PGPT(0.002)HR	3	-0.081817	9683.6	9934.0
Hdac5	0.693756	1.10E-06	78.673	T(0.027)QS(0.262)S(0.694)PAAPG:	3	-1.2667	79938.1	72576.3
Dgkb	0.864099	1.23E-105	132	ANS(0.864)VT(0.136)MDGQGLQIT	5	-0.734	11901.5	12584.9
Ncbp3	0.999485	1.10E-29	81.974	AEAPAGPALGLPS(0.999)PEVES(0.C	3	0.54001	13149.3	12405.0
Slc20a2	1	0.000855429	52.576	VQEAES(1)PVFK	3	1.5518	6065.7	6731.0
Brsk1	0.999971	2.19E-21	77.221	FQVDISSSEGPEPS(1)PRR	3	-1.0336	32584.0	35203.3



42003.3	37937.6	40785.9	38116.0	-0.1	0.3	465;465
91978.7	85471.3	90100.6	90808.0	-0.1	0.1	118
11069.1	11543.0	11029.5	10893.0	-0.1	0.4	32
58345.6	57350.8	58522.1	57797.0	-0.1	0.1	578
6636.7	6361.7	5657.9	6102.2	-0.1	0.4	209
51342.4	56216.7	54203.8	51689.0	-0.1	0.5	295
269854.8	273208.0	238585.4	292250.0	-0.1	0.5	556
32839.9	30331.4	29781.0	31056.0	-0.1	0.2	233;233
20331.5	17765.4	19359.6	21191.0	-0.1	0.4	517
15595.9	15371.9	15387.4	13622.0	-0.1	0.3	885
49075.7	47211.4	47322.8	45364.0	-0.1	0.4	348
63234.4	60787.1	64160.3	35678.0	-0.1	0.8	189
6867.6	6898.7	5987.2	6509.6	-0.1	0.4	424
37509.5	34206.5	34007.5	36137.0	-0.1	0.2	349
18697.2	18966.6	19491.0	20665.0	-0.1	0.6	141
24759.3	18976.5	20901.6	24029.0	-0.1	0.7	649
39738.8	41156.1	40282.5	38617.0	-0.1	0.5	1332
14579.2	12679.2	13646.6	12453.0	-0.1	0.5	642
6649.4	6110.2	6185.1	5817.4	-0.1	0.3	237
18563.1	17415.7	18660.7	18924.0	-0.1	0.2	769
12571.3	10695.7	11453.7	12824.0	-0.1	0.5	371
10825.3	12214.0	10769.8	9856.6	-0.1	0.6	850
7330.4	6604.3	6624.1	7188.5	-0.1	0.5	417
1122771.4	941455.5	981752.5	1051600.0	-0.1	0.5	1436;1310
23010.1	20999.3	19453.6	22939.0	-0.1	0.5	646
95376.0	94836.3	95318.8	95812.0	-0.1	0.1	567
416775.4	385458.9	406683.1	414230.0	-0.1	0.1	2150
42185.4	40547.8	42145.2	41288.0	-0.1	0.3	520
9551.4	9352.4	8963.4	9662.8	-0.1	0.2	1295
72800.2	67370.3	71908.0	76844.0	-0.1	0.4	651
11704.7	11831.2	11110.7	11773.0	-0.1	0.2	411
11608.9	11755.3	12586.5	11306.0	-0.1	0.4	25
6840.8	5928.5	6414.4	6493.9	-0.1	0.4	268
33356.3	31928.5	33033.9	32061.0	-0.1	0.2	586

Osbp16	0.997006	3.40E-36	102.21	TQS(0.003)APNFT(0.997)DMQAN(	3	0.49732	55869.9	52328.3
Map1a	0.555382	8.80E-24	97.713	T(0.328)S(0.104)T(0.555)EEAT(0.0	3	0.1038	57874.8	50922.1
Kat8	0.975244	0.00022869	47.082	S(0.975)PGRVS(0.788)PPT(0.237)F	3	-0.74486	25501.9	24980.0
Kat8	0.922422	0.00022869	47.082	S(0.944)PGRVS(0.922)PPT(0.134)F	3	-0.1111	25501.9	24980.0
Vash1	0.994794	6.38E-08	100.09	GTGPPS(0.995)PT(0.005)K	3	0.25337	139102.2	139736.0
Camk2g	0.999839	0.000399331	73.327	STVAS(1)MMHR	3	-0.52256	2593.4	2388.3
Stau2	0.869398	6.70E-06	71.558	AS(0.004)T(0.126)S(0.869)LQDQLI	2	-0.75864	10701.2	12151.6
Atp5b	1	0.0496491	55.441	LAEEHGS(1)	2	0.90649	17372.6	19245.4
Scn7a	0.999999	2.57E-07	133.44	TLS(1)EDDFRR	3	0.059241	579045.9	657381.1
Sobp	0.995721	1.85E-14	46.943	KAPS(0.996)PVAAAGQS(0.002)QG	5	0.70043	5216.5	4600.5
Smcr8	0.775305	2.08E-18	75.773	S(0.166)DS(0.775)QAS(0.058)LTVF	3	0.31083	9983.2	9729.3
Frmd8	0.716885	1.12E-11	56.688	QLS(0.717)S(0.216)S(0.067)HGSYT	3	-0.57814	11144.5	10502.5
Nhs12	0.499996	2.68E-08	59.975	T(0.5)S(0.5)PNQPIMPMVTQSDLR	3	1.9216	7481.6	6574.7
Nhs12	0.499996	2.68E-08	59.975	T(0.5)S(0.5)PNQPIMPMVTQSDLR	3	1.9216	7481.6	6574.7
Cd44	0.704957	1.10E-38	82.639	S(0.111)QEMVHLVNKEPT(0.705)E	4	-1.4706	8916.8	9379.2
Acin1	0.9838	1.01E-17	133.48	GLS(0.984)PLS(0.019)S(0.192)T(0.1	4	0.35442	123573.5	119750.2
Ptprz1	0.796113	3.42E-06	76.156	NRT(0.163)S(0.796)S(0.041)IIPVEF	3	0.15507	5646.5	5674.3
Sufu	0.932519	1.67E-49	122.68	KDS(0.933)LGS(0.067)DISTAVIPHE	4	-0.019391	12544.6	13159.7
Rbsn	0.890276	4.00E-29	76	RGS(0.89)IS(0.084)S(0.024)MS(0.0	4	0.42279	35434.5	33465.8
Tbc1d23	0.774094	3.14E-08	57.414	GS(0.006)IS(0.207)S(0.774)VDGES	3	1.0232	5042.8	5253.1
Cbarp	0.979869	8.34E-09	44.616	SGDS(0.001)S(0.001)GS(0.003)GS(	4	1.1342	17693.4	17324.7
Srsf10	0.912849	0.0203482	58.754	S(0.432)RS(0.567)AS(0.089)HT(0.9	3	0.24266	8448.7	9427.5
Tmcc1	0.499952	6.23E-10	76.759	ALGVISNFQS(0.5)S(0.5)PK	2	-0.0012734	22857.7	24485.3
Tmcc1	0.499952	6.23E-10	76.759	ALGVISNFQS(0.5)S(0.5)PK	2	-0.0012734	22857.7	24485.3
LOC100911	0.991374	2.45E-07	80.632	HAVS(0.008)EGT(0.991)KAVT(0.00	4	0.54925	19226.0	20472.8
Srsf4	0.588607	2.25E-05	58.723	KGDT(0.017)DHS(0.589)RS(0.384)	4	-0.011344	8477.4	8746.8
Dlgap2	1	0.013216	40.475	EKS(1)LDLPDR	3	-0.15663	10471.6	10826.0
Uvrag	0.940215	1.29E-26	79.837	GADVGLS(0.027)T(0.94)GVPS(0.09	4	-0.30346	24226.9	20731.7
Arcn1	0.999996	1.18E-05	76.358	VTQVDGNS(1)PVR	2	0.26808	6617.9	6915.5
Fam21c	0.996674	3.32E-68	130.83	GQPAQGPVS(0.147)EES(0.997)PPS	3	-0.1078	238929.5	258926.7
Cav1	0.98752	8.79E-17	100.58	YVDS(0.988)EGHLYT(0.012)VPIR	2	1.3442	45759.5	45800.6
Epb41l2	1	0.00233531	63.624	LVS(1)PEQPPK	2	-1.0955	13222.0	14185.3
Nefm	1	2.34E-169	209.41	VKEKAEEEGGS(1)EEEVGDK	3	-0.13674	3748472.3	3715689.3
Arhgef2	0.998364	0.0027092	60.064	LS(0.998)PPHS(0.002)PR	3	0.10381	3787.4	3865.4

51262.5	50486.0	50156.8	52323.0	-0.1	0.2	295
63213.1	50907.2	56774.9	57323.0	-0.1	0.6	1352
25603.6	23667.8	23219.5	26100.0	-0.1	0.3	37
25603.6	23667.8	23219.5	26100.0	-0.1	0.3	42
136519.0	126550.4	128215.9	143680.0	-0.1	0.4	328
2246.0	2326.0	2375.2	2232.3	-0.1	0.4	!80;280;280;280;280;280;280
10356.6	9979.5	10984.6	10894.0	-0.1	0.5	348
17838.1	16495.0	17989.6	17756.0	-0.1	0.4	529
676484.2	610895.6	659973.1	564290.0	-0.1	0.6	1474
5338.4	4568.9	4430.4	5540.2	-0.1	0.6	313
10082.1	9276.7	10382.0	8925.1	-0.1	0.4	488
11646.1	10782.6	10940.8	10217.0	-0.1	0.3	446
6689.1	7027.6	6466.0	6408.9	-0.1	0.5	836
6689.1	7027.6	6466.0	6408.9	-0.1	0.5	835
10137.9	8985.0	8083.1	10211.0	-0.1	0.6	340
127576.0	116100.7	117946.2	121790.0	-0.1	0.1	373;479;479
5291.0	5741.5	4998.0	5198.1	-0.1	0.4	1196
11883.5	11884.0	12011.6	12167.0	-0.1	0.2	344
34147.3	32745.8	31425.6	34695.0	-0.1	0.3	229
4792.1	5037.7	4815.7	4622.4	-0.1	0.3	469
19734.2	17287.0	17002.1	18242.0	-0.1	0.4	211
8698.2	8396.3	8111.9	8988.3	-0.1	0.4	202
22350.0	23171.8	20915.5	22779.0	-0.1	0.4	409
22350.0	23171.8	20915.5	22779.0	-0.1	0.4	410
19575.6	18308.8	19872.5	18689.0	-0.1	0.3	116;116
9032.8	8675.8	8312.0	8204.4	-0.1	0.2	398
9642.8	9279.8	11063.7	9342.5	-0.1	0.6	1012
24122.7	20629.7	23691.8	21959.0	-0.1	0.6	493
7450.7	6882.1	6441.9	6810.0	-0.1	0.4	493
247177.9	236788.3	238371.7	239720.0	-0.1	0.2	384;384
49426.0	43952.2	46379.1	44949.0	-0.1	0.2	9
13513.5	12370.1	13096.2	13799.0	-0.1	0.3	494;494;494
4018917.0	3675185.3	3337054.3	4006400.0	-0.1	0.5	712
3844.1	3846.2	3462.2	3723.5	-0.1	0.3	1148

Klc4	0.999978	2.30E-07	81.632	QYDEDGHS(1)MEEK	3	0.488	11770.3	12871.2
Epb4111	0.734947	3.96E-05	49.765	RLPS(0.009)S(0.008)PAS(0.816)PS	4	-0.92872	25203.7	25040.4
Pcnx13	1	3.15E-08	40.022	APLAGS(1)KAELEAQPMELAAGEP	4	0.98416	2488.8	2732.4
RGD13073	0.857372	8.96E-06	92.112	RVSSVT(0.006)PS(0.136)S(0.857)P	3	0.41584	19054.2	17062.5
Slc25a4	1	2.84E-07	64.565	DFLAGGIAAAVS(1)K	3	0.10072	4266.8	4490.9
Magi3	0.990795	0.00447783	75.197	GGPCS(0.991)PT(0.009)K	3	0.12549	150027.2	156288.4
Braf	0.675781	8.65E-32	92.41	S(0.162)S(0.162)S(0.676)APNVHIN	4	0.34623	30452.7	30165.2
Apc2	0.997662	2.41E-09	98.368	Y(0.001)AS(0.998)LPHIS(0.001)VSI	3	0.14644	3467.5	3646.9
Nup35	0.71052	2.30E-15	83.54	GVLS(0.113)S(0.711)PS(0.177)LAF	3	-0.72446	32865.5	31932.3
Cln6	0.994973	8.49E-164	202.43	T(0.995)PEELT(0.005)ILGETQEEED	3	-0.056281	98505.8	99095.3
Camk2g	0.770013	2.52E-46	105.17	QS(0.001)S(0.003)APAS(0.77)PAA:	3	0.4247	73034.9	68397.0
Dlg2	0.82947	1.08E-42	95.5	NLSQIENVHGY(0.006)VLQS(0.829)	3	-2.5917	26364.2	26137.3
Gjb1	1	0.000477903	89.171	KGS(1)GFGHR	2	-0.015932	79319.1	79117.2
Eif4b	0.999483	0.000540821	52.5	RGDDS(0.999)FGDKY(0.001)R	3	0.42963	15219.8	14976.2
Ablim3	0.928297	0.00823143	42.689	Y(0.001)T(0.071)S(0.928)DEMLER	2	0.56713	8366.6	7526.4
Ptpn6	1	0.00188285	63.073	QRS(1)ADKEK	4	-0.17488	16932.5	16799.3
Poll	1	0.0392531	59.35	AVS(1)PPPK	2	1.192	15758.9	15548.8
Tbc1d1	0.695606	9.64E-16	56.476	ANTLSHFVPECPAPPEPAQT(0.258):	4	0.64881	25407.7	25647.0
Dact3	0.733992	3.35E-11	58.479	S(0.011)FS(0.109)APY(0.146)PT(0.	3	0.48089	6667.4	6315.8
Nf2	1	0.000581814	94.767	RLS(1)MEIEK	2	1.4915	98557.1	97091.2
Dusp15	0.686383	1.09E-19	65.854	QGPGT(0.02)S(0.072)APS(0.686)A	3	0.83892	11186.1	11706.3
Map4	0.873657	5.34E-60	165.44	AT(0.003)S(0.874)PS(0.121)T(0.00	2	-0.76981	71107.5	76229.0
Stard8	0.833013	3.62E-16	103.3	S(0.003)LS(0.164)IES(0.833)LCPDC	3	0.19712	2936.4	3019.8
Tpi1	1	1.27E-07	67.234	HIFGES(1)DELIGQK	3	2.7203	4858.0	5101.9
Tom1	0.876996	1.72E-13	62.658	KGLEFPMT(0.877)DLDMLS(0.119)I	3	-0.087243	14173.8	13138.8
Cnksr2	0.77249	6.80E-27	83.436	S(0.772)PT(0.224)S(0.001)S(0.002	4	-0.17976	38224.2	37308.3
LOC100911	0.633793	2.34E-14	107.99	QVHPDT(0.034)GIS(0.634)S(0.332	3	-0.24756	42695.5	45986.0
Med13	0.713738	1.65E-15	104.2	GAGGPAS(0.714)AQGS(0.286)VK	2	-2.5347	22479.6	23329.2
Plekhg1	0.825077	0.000152791	73.951	S(0.825)T(0.175)PELAFSK	3	1.3478	12267.9	11323.5
Lrp1	0.999858	1.99E-11	62.303	MT(1)NGAMNVEIGNPTYK	3	-1.5275	27154.9	28556.0
Dld	0.997543	4.26E-05	54.898	IDVS(0.002)VEAAS(0.998)GGK	3	-1.2981	3972.0	4699.2
Nars	0.966897	0.000668956	63.185	S(0.033)WDS(0.967)EEILEGYK	3	-2.0291	5119.5	5066.2
Dstn	0.93337	0.000391879	84.169	KCS(0.067)T(0.933)PEEIK	3	0.53742	28491.9	26599.1
Usp34	0.910776	1.19E-11	55.453	DS(0.006)S(0.006)IIDPGT(0.911)E(	3	1.6535	9775.4	9102.1

11680.2	10981.7	12145.1	11726.0	-0.1	0.4	162
25702.6	24080.3	25238.2	23557.0	-0.1	0.1	550;542
2618.2	2515.2	2470.7	2536.5	-0.1	0.2	521
18723.9	16750.2	18511.0	17365.0	-0.1	0.4	235
4671.5	4013.6	4569.6	4303.8	-0.1	0.4	22
140202.7	142257.8	151020.8	135220.0	-0.1	0.4	662
31698.7	30815.4	27952.5	29825.0	-0.1	0.3	340
3314.1	3466.3	3114.6	3427.1	-0.1	0.4	2078
30431.7	30258.8	30491.6	30640.0	-0.1	0.1	241
95728.3	91929.1	94222.3	95354.0	-0.1	0.1	25
66399.6	66523.4	65243.9	67687.0	-0.1	0.3	325;325;325;325
25660.0	25636.8	25150.5	24226.0	-0.1	0.1	62
77406.9	74253.9	73749.3	78342.0	-0.1	0.1	233
13897.8	14022.3	14649.0	13647.0	-0.1	0.3	219
8263.4	7171.3	7950.4	8062.2	-0.1	0.4	337
19077.3	15675.5	17243.6	17764.0	-0.1	0.5	584
15864.2	14928.7	15303.0	15042.0	-0.1	0.0	128
24790.2	26902.8	22511.0	23381.0	-0.1	0.5	383
6638.3	6327.2	6493.2	6012.1	-0.1	0.2	193
105239.9	86845.1	99964.2	101980.0	-0.1	0.5	518
12597.9	11306.5	11750.8	11006.0	-0.1	0.4	185
78062.7	71060.7	74518.7	70760.0	-0.1	0.3	1862;786
2653.4	2863.5	2872.7	2527.3	-0.1	0.5	237
5403.8	4576.9	5283.5	4886.1	-0.1	0.5	106
13066.4	13267.7	12099.2	13391.0	-0.1	0.4	154
41189.9	36315.2	36965.5	38758.0	-0.1	0.3	325
45421.9	42405.6	41563.8	44753.0	-0.1	0.3	56;56
22131.8	21718.7	20063.8	23433.0	-0.1	0.4	897
13935.1	11140.4	11940.0	12941.0	-0.1	0.6	695
28440.8	25614.8	27447.0	27718.0	-0.1	0.2	4461
4770.7	3912.2	4415.3	4575.8	-0.1	0.6	295
5324.4	4936.9	5005.4	4946.4	-0.1	0.1	441
24659.2	23500.6	25998.0	27058.0	-0.1	0.5	25
9347.1	9181.1	9258.5	8654.8	-0.1	0.2	3441

Ttbk2	0.985383	1.07E-05	43.241	LT(0.985)PAAIGIANAT(0.015)PIPG	3	0.32114	5337.6	5268.9
Stk39	1	2.62E-06	98.582	T(1)PDIAQR	2	0.31421	22987.7	22990.2
Raly	0.995517	9.91E-157	170	DDGDEEGLLT(0.004)HS(0.996)EEE	4	-0.77254	29474.7	29130.8
Pip5k1c	0.765525	6.70E-07	97.463	S(0.004)S(0.004)S(0.091)LKS(0.76)	3	-1.6092	125756.1	118192.6
Psd3	0.669137	0.00013407	58.885	KKS(0.325)PS(0.669)EGT(0.005)DE	4	-0.71073	53874.5	51581.3
Hist1h1d	0.99645	0.000190763	74.841	ATGT(0.004)AT(0.996)PK	2	0.33817	168728.4	166083.9
Dock9	0.97844	1.89E-76	108.94	LDKLPVHVYEVDEEADKDEDAAS(0.9	5	0.97127	41176.1	37658.2
Chchd3	0.78165	3.66E-09	60.133	YS(0.782)S(0.217)VYGASVSDEELK	3	-2.6303	18515.2	19543.7
Map1b	0.953885	2.61E-107	128.03	TPGDFNYAYQKPES(0.004)T(0.013)	4	-0.56058	360439.7	364384.1
LOC100361	0.999999	8.04E-22	143.64	RIS(1)GLIYEETR	3	-0.69138	91690.8	94686.8
Ablim2	0.527446	6.02E-49	118.37	T(0.43)S(0.527)S(0.042)ESIVS(0.00	3	-0.29976	34526.9	35666.2
Ablim2	0.527446	6.02E-49	118.37	T(0.43)S(0.527)S(0.042)ESIVS(0.00	3	-0.29976	34526.9	35666.2
Map3k11	1	1.64E-06	85.536	S(1)PPLGLISRPR	3	-0.45014	27370.8	28857.6
Mpz	0.977059	2.13E-07	108.32	S(0.977)S(0.019)KDS(0.003)SK	2	-0.31644	1560144.0	1438384.4
Pcm1	1	3.85E-43	136.26	NHRPVS(1)ADGNRPLAK	5	0.38811	31533.3	32400.7
Rb1cc1	0.997983	1.29E-29	122.29	VSTSQAS(0.998)PQS(0.002)AASPR	3	-0.8221	10068.8	9783.8
LOC100361	0.949486	1.29E-58	116.74	LLDFGS(0.949)LS(0.051)NLQVTQP	3	1.1731	45888.3	46429.1
Fxyd1	1	2.17E-17	103.14	TGEPDEEEGT(1)FR	2	1.4047	10415.9	9351.0
Pfkl	0.994946	0.00647134	85.622	RT(0.005)LS(0.995)IDK	3	-0.4836	92226.3	90766.4
Impdh2	1	0.000260069	67.952	GMGS(1)LDAMDK	3	-0.74821	39892.7	39912.3
Ccar2	0.993604	1.33E-30	85.805	S(0.999)VAS(0.994)NQS(0.007)EV	3	0.31389	50295.3	54475.0
Nap111	0.961675	2.03E-21	79.489	LDGLVDT(0.962)PT(0.038)GY(0.00	3	0.10121	18104.9	16600.7
Stk39	0.971095	1.70E-05	73.082	RVPGS(0.029)S(0.971)GHLHK	4	1.231	51318.6	46791.1
Dctn2	0.508854	0.000679702	41.242	HKAS(0.491)VEDADT(0.509)QNK	4	0.39705	20882.6	18963.5
Specc1l	0.56336	6.29E-09	122.39	S(0.005)KS(0.432)DNQIS(0.563)DK	2	0.19308	10811.2	10770.5
Htt	0.992649	3.06E-07	98.902	S(0.007)GS(0.993)IVELLGK	2	-0.71662	31477.2	30000.6
Synrg	0.996499	3.81E-13	75.376	S(0.996)LDLPS(0.003)IGGSSVGK	3	-1.0774	20753.8	21149.6
Akap11	0.975036	6.89E-15	123.2	S(0.975)FS(0.025)EDVFQSVK	2	0.29311	33863.7	30530.4
Col6a3	1	3.53E-05	111.96	NIDS(1)EEVGK	3	-1.881	76920.7	77808.6
Peak1	0.998293	9.98E-36	101.17	ACS(0.998)VDELY(0.002)AIPPDAD	3	1.0364	38963.6	35601.5
Arhgef12	0.63194	4.66E-83	117.52	VCLEDTPERTEGVQDADT(0.244)QS	3	0.66094	49272.0	50372.5
Slc9a9	0.99895	1.09E-78	126.42	VGVDLDES(0.999)LKEEPS(0.001)S	4	0.81876	83059.4	87667.6
Golgb1	0.949839	2.28E-20	113.01	EQVEDSGAES(0.05)S(0.95)PK	2	0.42726	47515.2	47101.5
Asap1	0.999999	3.86E-22	126.07	SHTGDLS(1)PNVQSR	3	0.081077	12377.6	11101.9

4867.8	4921.1	5297.4	4636.3	-0.1	0.4	253
22243.6	20743.0	24346.9	20402.0	-0.1	0.5	363
27286.8	27643.1	28468.7	26344.0	-0.1	0.3	277
107933.4	116397.7	108787.9	112620.0	-0.1	0.5	452
55679.7	48194.7	49293.3	57203.0	-0.1	0.5	998
169565.5	158372.2	152805.4	173040.0	-0.1	0.3	146
40064.6	36443.9	37438.9	40267.0	-0.1	0.4	166
17381.3	18027.2	18303.7	16895.0	-0.1	0.4	50
396866.6	398306.4	333844.4	344740.0	-0.1	0.6	1874;1748
93239.2	89571.9	91168.1	87717.0	-0.1	0.0	48;386
36555.5	34770.8	32815.9	34907.0	-0.1	0.2	279
36555.5	34770.8	32815.9	34907.0	-0.1	0.2	298
28974.2	27628.8	27685.4	26493.0	-0.1	0.2	761
1310574.3	1364280.0	1345102.1	1428000.0	-0.1	0.5	205
28983.8	29767.1	28925.0	30523.0	-0.1	0.3	957
9778.9	8800.4	10207.6	9442.9	-0.1	0.4	646
39885.7	41504.8	42532.0	42899.0	-0.1	0.5	113
10319.4	9403.7	9076.8	10408.0	-0.1	0.5	79
82555.5	85050.0	84075.6	85852.0	-0.1	0.3	775
38254.7	37168.7	37694.3	38498.0	-0.1	0.1	416
49870.0	46427.1	48982.4	53079.0	-0.1	0.4	677
17357.9	16511.5	16612.1	16869.0	-0.1	0.2	62
47979.2	47084.9	44876.6	48318.0	-0.1	0.3	380
19599.0	18368.2	19884.3	18831.0	-0.1	0.3	306
12138.0	10856.5	11097.9	10427.0	-0.1	0.4	176
28875.2	28390.0	28750.8	29629.0	-0.1	0.2	398
22000.8	19469.3	20474.1	21427.0	-0.1	0.3	904
30938.5	30207.1	30453.1	30893.0	-0.1	0.3	84
86713.0	76337.2	78288.9	77245.0	-0.1	0.4	1372
37653.2	36596.8	36502.7	34671.0	-0.1	0.3	789
48983.1	46433.7	47324.9	48979.0	-0.1	0.1	341
84181.2	82036.1	73702.2	89073.0	-0.1	0.5	498
42094.9	43404.4	43576.1	44319.0	-0.1	0.4	908
11994.3	11302.1	10195.0	12573.0	-0.1	0.6	1042



Srrm2	0.580807	9.48E-11	91.14	RS(0.379)S(0.581)S(0.043)ELS(0.9	3	0.083453	89051.4	86928.3
Ecd4	0.796553	7.47E-79	102.6	GPGQVSSGTSALSLLDQVEVPLGLPC	4	0.083249	33671.7	34887.4
Map3k4	0.666385	3.50E-29	80.68	LES(0.666)EEDS(0.334)VGWGIADC	3	1.1063	21294.1	20735.0
Cnp	1	0.00260291	48.998	HFIS(1)GDEPK	3	-0.23281	14547.1	14097.5
Thap7	0.975863	1.60E-09	59.539	FPVEEAS(0.001)APAT(0.023)LPAS(	3	0.078462	10356.2	9962.4
Snap91	0.644891	1.65E-21	80.507	SSPAT(0.024)T(0.121)VT(0.645)S(	3	-0.3178	56714.3	56122.6
Spag9	0.952708	1.77E-06	60.157	YNAPT(0.001)S(0.002)HVT(0.953)I	3	-0.058903	31689.5	32241.6
Trim2	0.780375	1.39E-83	122.51	TGNAYLTAELS(0.205)T(0.78)PDGS	3	-0.19785	91896.0	89124.3
Cdk4	0.997039	3.75E-08	60.764	ALQHS(0.001)Y(0.002)LHKEES(0.9	3	0.66261	23523.2	24121.2
Cdip1	0.999955	0.00135232	75.819	SGAPHT(1)PGR	2	0.13907	8058.2	7031.2
Rnps1	0.997581	0.00761497	81.547	ES(0.002)S(0.998)EKDR	3	-0.41993	50896.4	49423.7
Ccnk	1	5.30E-07	92.781	KPS(1)PQPS(1)PPR	2	0.94542	139221.5	160533.5
Prkd1	0.912818	0.0304073	59.645	RS(0.027)S(0.913)T(0.06)VMK	2	-0.14657	12213.0	11174.3
RGD15598	0.697059	1.50E-129	147.25	LAEAPSCSVSISHVGIADS(0.004)S(	5	0.69965	6309.0	5803.1
Prkaa2	1	0.000753928	64.224	MPPLIADS(1)PK	2	2.129	32461.2	29979.8
Ttc8	0.943548	5.53E-06	46.154	LGT(0.944)AS(0.041)MLT(0.008)S(	3	2.2584	9165.7	8427.9
Nefm	0.999491	1.93E-17	71.735	QAS(0.999)HAQLGDAY(0.001)DQE	3	0.58212	14223.9	14160.1
LOC10091	0.711897	6.71E-137	154.33	ADPVLLNNHNSLKPAPT(0.056)VPA	4	0.20492	78304.2	77026.5
Slc22a5	0.99044	3.56E-08	101.72	DGGES(0.99)PT(0.01)VLK	2	0.69781	13349.7	13787.1
Camsap1	0.999985	2.59E-12	102.45	RPS(1)EGSQPLVR	3	-0.48905	30391.9	31107.4
Glipr2	0.984141	8.87E-05	67.643	ILKHS(0.984)PES(0.008)S(0.008)R	3	0.80406	21462.3	19700.6
Aff4	0.924713	0.00223472	56.956	AVGMPS(0.075)PVS(0.925)PK	2	-0.9903	11036.5	13006.1
Dnaja4	0.828163	9.23E-71	121.59	EGGS(0.042)GS(0.828)PS(0.123)FS	3	0.087088	11358.6	11151.2
Rab11fip1	0.932158	0.00376749	40.493	ESS(0.001)PS(0.006)NS(0.061)PS(	2	-0.3593	6736.5	7184.8
Caprin2	0.936701	4.75E-117	135.13	AGWSDSSQVS(0.063)S(0.937)PER	3	-0.33109	12214.2	12788.9
Ahnak2	0.999978	4.36E-102	159.01	GEVRS(1)PELEVALSGVVVVDIQGPA	4	0.33489	68172.4	66529.0
Tmpo	0.94055	0.00271484	60.045	MEES(0.941)FS(0.052)S(0.008)K	3	0.21142	77763.9	69119.9
Tspyl5	1	0.0102622	42.629	DEKPAQS(1)PR	3	0.71518	11731.6	10540.6
Slc16a1	0.999982	2.40E-21	111.22	SDANTDLIGGS(1)PK	2	0.69529	104663.6	101282.5
Gria1	1	4.39E-06	53.255	GFCLIPQQS(1)INEAIR	3	0.81009	3407.8	3868.4
Pkp4	0.890418	4.82E-06	67.234	S(0.017)PS(0.093)IDS(0.89)IQKDPI	3	-0.0022053	51714.6	52575.1
Cwc25	0.532632	0.0103745	50.034	ERDS(0.467)PS(0.533)PK	3	1.5682	13950.8	12112.1
Ube2o	1	1.46E-05	60.489	KEDKPEVQS(1)PVK	3	-0.58978	86723.3	83523.5
Eps15	0.856998	3.19E-15	78.674	NTIGS(0.141)S(0.857)PVADFS(0.0	3	0.45472	25580.6	27250.7

82679.0	78218.1	84466.7	85739.0	-0.1	0.3	1341
33951.4	31550.1	34177.4	32728.0	-0.1	0.2	728
23662.7	20303.1	21494.7	21296.0	-0.1	0.4	383
15933.4	13744.0	14077.2	14994.0	-0.1	0.4	227
9913.5	9325.1	10386.5	9325.2	-0.1	0.4	115
53875.1	52024.8	55298.0	52800.0	-0.1	0.2	312
29979.3	31661.2	33705.0	24834.0	-0.1	0.7	429;586
84370.7	83053.6	85344.0	86509.0	-0.1	0.2	388
24411.2	22167.5	23464.2	23578.0	-0.1	0.1	300
6698.1	7172.5	7195.8	6559.1	-0.1	0.6	27
46380.1	45443.7	45253.9	50213.0	-0.1	0.4	30
154160.2	151024.5	140142.0	144840.0	-0.1	0.4	336
12436.1	10375.1	11287.0	12748.0	-0.1	0.6	427
5435.3	5139.2	5953.5	5762.5	-0.1	0.5	356
29606.6	30071.8	30667.9	27677.0	-0.1	0.4	287
8678.3	8086.4	9060.4	8089.3	-0.1	0.4	29
14599.4	13584.5	13829.3	13875.0	-0.1	0.0	140
75276.6	73224.3	75949.6	72345.0	-0.1	0.1	90
14614.3	12342.6	13297.1	14466.0	-0.1	0.5	548
31658.2	28396.6	29987.2	31103.0	-0.1	0.2	638
22127.5	19249.3	20976.4	20571.0	-0.1	0.4	55
11901.6	11791.6	11264.6	11472.0	-0.1	0.5	1025
9452.7	10911.9	10335.9	9455.6	-0.1	0.6	237
7459.2	6794.8	6297.7	7445.8	-0.1	0.5	349
11781.3	11657.4	11730.5	11948.0	-0.1	0.2	860
66886.1	62769.2	64709.6	66171.0	-0.1	0.1	4349;5715
75165.9	66361.7	73624.2	73321.0	-0.1	0.5	384
10526.3	10953.3	10911.9	9642.1	-0.1	0.5	41
98584.8	95763.6	100331.8	96454.0	-0.1	0.2	230
3578.8	3557.9	3508.4	3361.7	-0.1	0.4	849
49347.2	48170.5	51094.0	48329.0	-0.1	0.2	514;520
12649.0	12190.9	13071.7	11927.0	-0.1	0.5	308
91025.8	84583.6	77753.5	88682.0	-0.1	0.4	856
26124.2	24039.6	25709.4	26109.0	-0.1	0.3	324

Gramd1b	0.999227	0.000279024	81.709	S(0.001)TPACS(0.999)PILR	2	-0.25451	28864.0	29244.8
Zswim8	0.87475	1.85E-07	54.292	DDL PST(0.001)DDS(0.125)GS(0.87	3	-0.25243	11620.8	12730.8
Rps6ka5	0.673949	2.25E-24	106.57	AYS(0.326)FCGT(0.674)IEYMAPDI\	3	-0.27053	11572.9	11615.2
Phldb1	0.817012	3.13E-18	69.704	KNS(0.166)IT(0.817)EIS(0.017)DNI	3	-1.1257	5868.2	5860.6
Birc6	1	3.77E-09	56.684	LPCPQGLDPDIEDAS(1)PVCR	3	0.85308	12458.7	12971.0
Ddhd1	0.742203	3.65E-54	98.446	EPTSASESENIAAIPS(0.003)PVT(0.2	4	0.57119	7986.2	8288.8
Slc25a4	0.973891	3.74E-06	77.062	AA YFGVY(0.974)DT(0.026)AK	2	2.0409	22114.7	21646.5
Kcnh3	0.997012	0.0330837	42.599	Y(0.003)GRAGS(0.997)K	3	-0.27586	5233.8	4882.8
Slc39a7	0.951281	1.06E-17	96.562	GKPS(0.049)S(0.951)EDEKEAGGLR	3	-0.65358	241434.1	230889.6
Prrc2a	0.982511	6.76E-34	83.879	GSETGSETHES(0.017)DLAPS(0.983	4	1.9432	12242.9	11629.5
Usp33	0.815463	0.0208319	69.275	AQS(0.032)S(0.152)S(0.815)PKR	3	0.23594	39780.6	41563.2
Chgb	0.966836	5.52E-29	77.445	EAVDDQESLHPS(0.033)NQQVS(0.5	4	0.29558	9680.5	10444.4
Caprin2	0.596977	1.46E-78	101.84	AGWSDSS(0.007)QVS(0.597)S(0.3	3	0.87912	9089.8	8989.1
Kif19	0.942528	9.03E-07	42.268	RPPS(0.451)PT(0.55)LQHAI S(0.94	4	0.053693	9795.8	9973.8
Kif19	0.549597	9.03E-07	42.268	RPPS(0.451)PT(0.55)LQHAI S(0.94	4	0.053693	9795.8	9973.8
Rcsd1	1	1.37E-88	145.19	DPGS(1)PQPNQEAGADR	3	-0.47771	102157.8	99644.8
Fam21c	0.618887	4.22E-23	94.911	LAAQES(0.381)S(0.619)EAEDVTIDI	2	2.3454	42026.4	39304.7
Mprip	0.852609	4.43E-38	145.69	S(0.853)T(0.11)ES(0.017)S(0.02)M	3	0.56501	11654.6	10300.2
Mavs	0.922869	9.01E-39	90.694	MSGDSLIS(0.028)S(0.04)PNPPALSI	3	0.33416	7622.7	7364.5
Zc3h18	0.999984	4.97E-10	78.228	SQDQDS(1)EAHEL SR	3	0.26481	8378.5	8996.0
Atp1a1	1	0.000774401	91.549	EVS(1)MD DHK	2	0.25175	152233.6	161060.0
Map1b	0.988445	1.51E-98	121.64	ASAEGEAT(0.011)AVVS(0.988)PG\	4	-0.34912	342799.9	155849.7
Lgals1	1	0.00145753	82.954	S(1)FVLNLGK	3	-0.1549	26962.9	27114.6
Eif4g2	0.908536	5.76E-36	76.562	FS(0.909)PT(0.091)MGR	2	-1.0303	63696.2	60419.2
Phactr3	0.786794	1.22E-20	60.819	MSSASSGEEADAGNLLPT(0.001)T(	4	1.1136	3750.5	3593.8
Baz1b	0.982488	3.88E-05	64.244	NT(0.005)GS(0.982)PDRKPS(0.013	4	-0.21347	50372.8	53850.8
Usp5	0.631416	2.20E-06	53.453	VTSAVEALLS(0.013)ADS(0.631)AS(	3	0.97153	1309.0	1081.4
Pgm2	0.5	3.62E-05	58.172	LCAGIMIT(0.5)AS(0.5)HNPK	3	-0.28504	16795.3	14028.4
Snap91	0.99095	1.27E-124	142.48	GAS(0.991)PVPES(0.004)S(0.002)L	3	-0.85851	59462.2	62206.0
Psen1	0.749503	1.99E-33	97.352	AAVQELSGS(0.002)ILT(0.75)S(0.24	3	0.61084	7062.9	6981.3
Slc4a2	0.95523	3.56E-46	82.659	NIS(0.955)AGS(0.043)LGS(0.002)L	5	1.7357	6530.5	6254.4
Ssfa2	0.995616	1.05E-11	46.113	NGGS(0.996)FEDDLS(0.004)LGAE A	5	-0.61056	6842.8	6319.1
Pom121	0.994248	0.000504366	67.385	S(0.006)QT(0.994)PERPAKK	3	-0.5601	25073.7	19247.6
Cdh19	0.891073	8.86E-08	59.227	LLGTGDGS(0.109)FS(0.891)IDEK	3	0.71492	4971.8	5711.5

28067.2	26375.9	27839.2	28581.0	-0.1	0.2	15
12135.9	11084.3	12540.5	11432.0	-0.1	0.4	706
11524.7	10740.8	11342.6	11269.0	-0.1	0.1	191
5567.2	5334.0	4932.8	6351.5	-0.1	0.6	581;638
13428.3	12077.6	12695.5	12563.0	-0.1	0.2	4833
8937.2	7681.6	8927.3	7616.0	-0.1	0.6	710
22329.8	21111.5	21474.4	20917.0	-0.1	0.0	195
4416.7	4813.4	4671.3	4479.8	-0.1	0.5	160
216164.9	207694.4	217917.9	235930.0	-0.1	0.5	276
12502.1	10655.3	11267.8	13028.0	-0.1	0.6	1123
35280.1	36756.3	37242.2	38063.0	-0.1	0.5	429
10070.1	9011.3	10068.0	9934.8	-0.1	0.4	147
9010.0	8243.3	9075.0	8711.1	-0.1	0.2	859
10002.1	9908.1	9002.4	9697.0	-0.1	0.2	839
10002.1	9908.1	9002.4	9697.0	-0.1	0.2	833
97735.2	94866.0	96239.9	96722.0	-0.1	0.0	186
42803.9	39464.4	39988.7	39830.0	-0.1	0.2	1042
11449.2	10216.2	10766.6	11117.0	-0.1	0.4	499;499
7299.7	6720.8	6711.2	7985.0	-0.1	0.5	186
7450.7	7630.2	8671.4	7555.4	-0.1	0.6	79
154362.4	144919.7	149289.6	155210.0	-0.1	0.2	40
174665.2	152157.4	247188.0	247720.0	-0.1	0.9	1291;1165
33754.5	26856.6	26225.6	31326.0	-0.1	0.7	30
60845.4	60421.9	57672.6	59657.0	-0.1	0.1	394
4219.2	4104.5	3307.7	3701.2	-0.1	0.6	174
52951.0	51888.4	50825.8	48345.0	-0.1	0.2	311
1191.8	1070.3	1106.3	1266.2	-0.1	0.6	159
15790.8	15070.5	14921.5	14809.0	-0.1	0.5	109
66325.1	59299.9	57103.0	64278.0	-0.1	0.4	567
6394.5	6624.9	6663.7	6355.0	-0.1	0.3	371
6331.6	5950.7	5943.2	6479.2	-0.1	0.3	440
6864.2	6610.4	6100.6	6536.2	-0.1	0.3	109
21565.4	20966.3	21559.9	20799.0	-0.1	0.6	421
5517.5	5035.6	5048.8	5486.9	-0.1	0.5	89

Srrm2	1	4.69E-06	91.093	GQRGDS(1)HS(1)PGHKR	3	-0.46131	196971.0	206516.2
Wdfy3	0.972935	1.32E-06	95.195	RWS(0.973)DQLS(0.027)LDEK	3	-0.63945	19595.7	19273.9
Map1b	0.999468	1.81E-14	118.5	ADS(0.999)RES(0.001)LKPATK	4	-0.033438	192701.2	195941.9
Tns1	0.858649	2.02E-07	48.997	VS(0.859)PS(0.141)IQPQPQPQPI	3	-0.29747	11127.3	11771.0
Pnn	0.997361	0.0131874	45.433	DT(0.003)KGS(0.997)KDK	3	-1.0884	13672.9	13917.7
Kcnma1	0.888194	0.0216766	56.404	NS(0.003)PNT(0.109)S(0.888)PK	2	0.8615	8904.2	8797.6
Gramd1b	0.575275	7.20E-28	102.45	S(0.575)RS(0.42)PT(0.005)PQNQD	3	0.13239	41369.3	40488.2
Stard13	0.999963	7.69E-33	110.6	KKGDDS(1)DEEDLCISNK	4	-0.43716	144862.8	142818.3
Kcnk4	0.67144	1.80E-23	63.095	EQPLLPS(0.2)S(0.671)LPAPPAVAEI	4	-0.68752	10519.3	9744.1
Smg1	0.99998	0.000492429	56.569	TQPDVMS(1)QNAK	2	0.21307	10362.7	10804.8
Mecp2	0.863264	1.28E-65	127.35	AETSESSGSAPAVPEAS(0.863)AS(0.	2	0.33269	19520.6	22413.3
Srrm2	0.823308	1.13E-13	98.676	S(0.823)S(0.143)S(0.033)ELSPEIVE	3	0.50832	10025.9	10159.0
Iscu	1	5.67E-07	89.624	RAAS(1)ALLLR	2	0.2492	135548.0	132441.5
Trmt1	0.999999	2.31E-127	172.98	IAVDLS(1)DQEEETAGQENLAPGD	3	-0.060251	48179.5	44190.3
Marcks	0.919189	1.28E-64	150.14	GEAAAERPGEAAVAS(0.919)S(0.07	2	0.23587	27676.1	29705.6
Gramd1a	0.853061	3.43E-08	92.943	SSPS(0.016)S(0.114)S(0.853)PS(0.1	2	0.37303	24857.8	23107.6
Faf1	0.5	0.0335418	44.614	T(0.5)PS(0.5)GEFLER	2	-0.54586	21911.9	21110.1
Srrm1	0.950155	2.06E-22	67.553	KPPAPPS(0.95)PVQS(0.235)QS(0.7	5	-0.87701	46076.8	47508.5
Fam129b	0.738313	4.82E-35	73.87	QVVSVVQDEES(0.067)GLPFEAGS(0.	4	-0.66242	11006.6	11731.5
Tanc2	0.984398	3.61E-15	126.16	QIAS(0.015)DS(0.984)PHAS(0.001	3	0.23642	93229.4	92845.1
Ebag9	0.790811	1.02E-33	97.5	KLS(0.195)GDQIT(0.791)LPT(0.006	4	-0.68496	226310.9	238238.9
Nqo1	1	3.74E-12	94.569	EGRLS(1)PDIVAEQK	3	0.26801	32643.6	31252.2
Prx	1	5.77E-11	115.24	S(1)AGAEQAEK	2	-0.29478	235160.6	223046.7
Wdr4	0.998027	6.25E-05	54.768	S(0.998)PHPGS(0.933)PEQT(0.069	3	-0.023889	18358.9	19304.6
Prdm2	0.79907	4.83E-15	81.01	T(0.041)S(0.051)S(0.606)PPS(0.50	3	-0.52998	14754.6	13397.7
Pnmal2	1	0.00409986	71.451	GVT(1)PEKK	2	-0.2381	55645.7	52764.9
Map1a	0.989327	1.57E-31	75.755	S(0.989)PQAQDT(0.007)PVS(0.001	4	-0.68846	20879.0	21603.7
Sptb	0.805592	8.27E-27	83.395	VLDTPLSEGDEPT(0.194)T(0.806)LF	3	-1.2338	15237.7	16874.9
Nmt2	0.746017	2.30E-08	97.203	S(0.022)DS(0.111)AS(0.746)DS(0.1	3	0.43396	29450.8	29112.1
Eprs	0.759202	7.24E-13	61.963	S(0.001)QGS(0.004)GLS(0.236)S(0	3	-0.39179	4478.5	5818.3
Stim2	0.990814	1.04E-33	83.879	GS(0.991)PECVGLT(0.009)ETK	3	0.026468	62427.2	57287.5
Rhbdf2	0.669296	2.83E-12	60.218	ELELPSQEVPS(0.042)FQGT(0.288)I	4	0.75603	14357.5	13727.9
Sap130	0.702022	1.29E-14	46.271	LGT(0.235)PS(0.702)PGLS(0.042)C	4	-0.47148	3740.6	3717.7
Arhgef11	0.877984	1.44E-22	76.55	SLGGES(0.169)S(0.823)GGT(0.127	3	-0.21827	14605.6	16240.9

191060.6	190480.0	179767.3	201200.0	-0.1	0.4	2682
19377.5	18306.6	18355.0	19323.0	-0.1	0.1	3318
204177.0	185453.2	182663.3	201680.0	-0.1	0.3	541;415
12262.5	11294.4	11339.4	11162.0	-0.1	0.2	154
13500.7	13148.9	12954.1	13393.0	-0.1	0.0	690
8406.2	8746.2	7764.6	8583.7	-0.1	0.4	790
39942.2	39865.8	40160.7	37046.0	-0.1	0.2	22
150018.7	135042.1	142193.8	143480.0	-0.1	0.2	15
10567.3	10373.4	9833.0	9428.6	-0.1	0.4	308
10137.6	10045.8	9838.4	10207.0	-0.1	0.1	3529
21612.2	21222.6	17425.3	22434.0	-0.1	0.7	78
11762.2	9669.4	10301.1	10738.0	-0.1	0.6	1340
126479.5	125912.4	123952.0	129320.0	-0.1	0.2	14
46546.1	46472.2	42962.7	44101.0	-0.1	0.3	96
31014.1	27941.2	25279.8	31752.0	-0.1	0.6	26
22256.3	21910.1	23363.8	22229.0	-0.1	0.4	16
22150.9	21099.4	21394.3	20156.0	-0.1	0.2	581
43465.1	43184.4	45834.1	42728.0	-0.1	0.3	703
11619.5	11266.9	11119.2	10642.0	-0.1	0.2	641
90396.6	85273.3	92376.8	88128.0	-0.1	0.2	474
204964.9	223203.8	210800.7	209620.0	-0.1	0.5	41
30172.0	29167.6	30281.1	30982.0	-0.1	0.2	82
253991.6	216945.1	252648.8	215070.0	-0.1	0.6	728;728
18882.5	18055.8	17173.1	19131.0	-0.1	0.3	244
14129.9	13151.1	13478.8	14018.0	-0.1	0.3	654
49073.6	51990.7	52086.8	47321.0	-0.1	0.5	602
23662.7	21052.1	21131.4	21406.0	-0.1	0.4	1299
14125.7	15171.7	14949.3	14331.0	-0.1	0.5	2169
27145.2	26505.7	28948.5	26943.0	-0.1	0.3	70
4498.6	4413.1	4562.7	5248.1	-0.1	0.7	999
63512.3	57062.6	62529.6	56565.0	-0.1	0.4	647
14647.3	13217.1	13706.4	14161.0	-0.1	0.2	147
3400.3	3517.9	3485.8	3436.1	-0.1	0.3	13
15354.3	14574.5	15439.8	14405.0	-0.1	0.4	1501;1490



Tmem117	0.858902	1.02E-08	51.475	ESTS(0.001)AAEADQDPAAS(0.859	3	-0.107	19102.0	17564.9
Atp1a3	0.771717	0.000493839	49.483	VAEIPFNS(0.772)T(0.228)NK	3	-0.86447	8554.4	9243.5
Qrich1	0.511626	4.98E-26	63.913	GDPQQQSITHIAIPQEAY(0.512)NA'	4	0.31714	5564.8	5653.5
Rras2	0.999272	4.41E-30	122.13	KFQEQCPPS(0.999)PEPT(0.001)R	3	-0.96478	122702.9	123699.1
Hdgfrp2	0.610878	9.23E-06	71.879	ELAEDEPS(0.389)T(0.611)DR	2	-0.0047596	5924.2	5572.2
Tnks1bp1	0.983129	3.58E-43	98.98	ENYEDQEPLAQES(0.983)PIT(0.01	3	0.13069	29737.1	30460.2
Scaf1	0.804832	1.61E-14	68.41	VAPPPPALT(0.805)PDS(0.193)QT(I	3	-0.53928	31310.2	32909.6
Lsp1	0.994538	1.07E-25	103.4	QPS(0.995)IELPS(0.005)MAVASTK	3	-0.50751	152579.5	140032.1
Sf3b2	0.947004	1.14E-36	106.35	S(0.001)S(0.001)LGQS(0.947)AS(0	3	1.4183	35222.2	34874.2
Srsf3	1	0.0150499	62.582	RRS(1)PPPR	2	-0.47201	42726.5	44993.3
Fam83h	0.94197	1.53E-06	88.108	KGS(0.942)PT(0.058)PAYPER	2	0.02825	50172.4	48639.4
Ttbk1	0.999288	0.000217579	56.404	T(0.001)LVLVS(0.999)PGDMK	3	0.15603	25792.9	25122.6
Mdh1	0.517784	3.87E-08	102.9	KLS(0.474)S(0.518)AMS(0.008)AA	2	0.016105	37403.6	36257.4
Myo9b	0.808831	1.26E-07	55.907	ISFS(0.001)T(0.003)S(0.007)DVS(0	4	0.86362	5335.9	5549.2
LOC68779	0.538641	1.71E-08	57.936	SSSLPVS(0.006)PT(0.042)S(0.539)f	2	0.41851	10759.9	11264.2
Sorbs3	1	0.000903939	48.527	LKFDFAQS(1)PK	3	0.42927	9708.6	10055.3
Fam171b	0.939734	0.000396557	43.03	STVEDFEANVS(0.94)PT(0.06)K	3	1.075	13353.2	16563.4
Spire1	0.557007	3.47E-09	64.454	S(0.443)VDKS(0.557)DEELQFPK	3	-0.48693	34153.6	31763.4
Srrm1	0.913781	0.00058266	84.507	RWQS(0.914)PVT(0.086)K	3	0.15503	22423.6	25229.0
Nap1l4	0.747428	4.43E-124	136.61	EFITGDVEPT(0.126)DAES(0.126)A'	5	-0.71557	30288.1	28874.1
Clip2	0.999385	5.70E-08	57.366	LDSLAS(0.001)DHQKS(0.999)LEDL	4	-0.17412	8418.8	7628.2
Sytl3	0.583657	0.00726485	55.578	KT(0.01)S(0.406)T(0.584)PDILK	3	0.57949	22668.1	22668.8
Vars	0.824205	0.000348765	43.592	DPGVIT(0.011)Y(0.165)DLPT(0.824	3	1.004	6907.2	6488.5
Mrvi1	0.939578	1.24E-08	59.372	GVS(0.94)WDS(0.048)S(0.012)PEE	4	-1.8162	6397.4	5797.3
Srrm2	0.619496	0.000925601	47.774	S(0.025)ES(0.619)DS(0.176)S(0.17	2	-0.14687	3485.8	2706.1
Ldlr	0.589073	0.0024033	58.32	S(0.589)QDGY(0.007)T(0.053)Y(0.	2	-1.1208	4157.2	3755.5
Wdr20	0.857858	2.07E-30	122.49	S(0.006)NS(0.136)LPHS(0.858)AVS	2	-0.13465	69758.6	73140.1
Camk2g	0.94162	2.77E-19	73.672	TAPSAGMQPQPS(0.942)LCS(0.042	3	0.48684	68395.4	92092.6
Gpatch8	0.999489	0.000282375	87.149	S(0.001)QS(0.999)PHYFR	3	-0.1626	3664.6	3189.2
Zzz3	1	6.17E-06	66.826	VGLPARPKS(1)PLDPK	3	0.35215	18145.4	18554.3
Map1b	0.700174	1.02E-05	52.42	S(0.116)PDT(0.172)S(0.7)AY(0.005	3	0.10683	65177.5	60350.1
Foxo1	0.984235	1.37E-22	63.111	LS(0.984)PIMT(0.011)EQDDLGDGI	4	-1.0255	6757.0	6572.7
Aak1	0.852768	2.36E-101	136.12	EQGSSGLGS(0.001)GS(0.147)S(0.8	3	-0.43988	19897.5	18298.7
Tra2b	0.999991	0.000177421	84.738	RS(1)PS(0.995)PY(0.002)YS(0.003)	3	0.35501	150468.4	167169.8



20386.8	18313.2	17912.6	18628.0	-0.1	0.4	508
8749.7	8383.8	8160.9	8979.3	-0.1	0.3	474;482
5580.7	5415.1	5475.0	5261.3	-0.1	0.0	338
126830.8	112943.9	122284.9	123620.0	-0.1	0.3	186
6079.0	5496.1	5589.6	5812.6	-0.1	0.3	591;591
32015.9	29188.5	30865.6	28607.0	-0.1	0.3	596
28733.6	28365.8	30408.3	30601.0	-0.1	0.4	938
163880.3	131467.2	153884.7	153570.0	-0.1	0.6	242
31810.4	32842.6	33206.0	31938.0	-0.1	0.3	289
40082.7	40473.0	41816.0	40601.0	-0.1	0.3	108
45345.2	47450.1	45588.3	45578.0	-0.1	0.3	860
25426.8	23886.7	24949.6	24572.0	-0.1	0.1	833
34054.7	32794.2	35274.9	35507.0	-0.1	0.4	242
5571.3	5515.0	5436.4	4872.7	-0.1	0.4	1337
11219.2	11303.2	10835.0	9828.1	-0.1	0.4	24
9952.8	9841.7	9503.5	9230.2	-0.1	0.1	405
15091.3	14056.4	14856.3	14367.0	-0.1	0.6	790
31345.2	30763.7	31850.9	30914.0	-0.1	0.3	652
21540.9	22019.0	23785.9	20734.0	-0.1	0.6	467
29555.5	29143.4	26179.6	29991.0	-0.1	0.4	125
7592.0	7310.2	7615.6	7806.3	-0.1	0.4	593
21452.5	22230.2	20945.4	21053.0	-0.1	0.2	244
7475.4	7006.7	6169.6	6894.5	-0.1	0.5	284
5636.6	5982.0	5401.1	5764.6	-0.1	0.5	339
2923.8	2462.9	3569.7	2733.7	-0.1	0.8	1518
3948.3	3466.7	3861.8	4078.1	-0.1	0.5	860
68659.8	62905.6	68672.1	71877.0	-0.1	0.4	377
81563.3	87742.7	68795.0	76248.0	-0.1	0.7	449;438;426
3215.1	3401.7	2988.8	3293.2	-0.1	0.6	832
18827.1	17922.7	17496.9	17986.0	-0.1	0.0	612
63679.4	56917.4	64625.2	60438.0	-0.1	0.4	2031;1905
6889.4	6972.6	5900.2	6574.8	-0.1	0.5	323
19018.8	18393.5	18220.4	18419.0	-0.1	0.2	21
136944.9	149990.5	142557.1	144700.0	-0.1	0.6	264;258

Mapt	0.997118	6.42E-07	57.173	SHPAS(0.003)ELLWQES(0.997)PQI	2	-0.87183	8534.2	8453.8
Baz1b	0.969917	1.21E-17	72.568	S(0.03)RPKDDT(0.97)EVDELVLQTK	4	3.045	10014.9	10778.8
Dab2ip	1	1.85E-39	123.84	GDS(1)PELKPR	3	0.42813	82625.3	86893.2
Clcn6	0.967553	0.00188268	112.71	SYPS(0.968)S(0.032)ELR	2	0.22126	42445.1	38374.5
Tmem55a	0.583986	5.02E-59	97.128	SPLLSASHSGNVTPTAPPYLQES(0.58	5	0.016808	3116.0	3405.0
Tcof1	0.868538	2.45E-07	78.95	T(0.026)AVQLLS(0.106)GKS(0.869	3	-2.5558	38174.1	36442.8
Lnp	0.509067	6.77E-09	60.735	S(0.509)DS(0.454)VS(0.037)NLELS	3	0.94342	3505.9	3685.2
Dnajc12	0.993447	0.048127	56.013	ES(0.007)ES(0.993)PEK	2	1.285	7396.4	7671.6
Lmnb2	0.979863	1.18E-52	93.637	QRLET(0.98)EDT(0.02)PGSPSSASS	3	-0.36257	7309.2	6541.9
Cog8	0.98962	8.96E-22	84.436	S(0.99)LEPIAS(0.01)AT(0.001)LESC	3	-0.072499	7108.8	7999.5
Larp1	0.952562	1.64E-05	52.185	EQEKGDGS(0.953)DS(0.046)KES(0	3	0.16718	12828.5	11364.0
Atxn2	1	3.78E-60	145.25	VALENDDRS(1)EEEEK	3	-0.12804	62985.4	58284.6
Exoc1	0.759981	5.34E-43	103.14	SQSSLLDMGNMS(0.24)AS(0.76)D	3	-0.78686	6866.9	6610.0
Pea15	0.947115	1.62E-19	75.064	SEEIT(0.007)T(0.035)GS(0.947)AV	3	-0.41681	21315.6	22166.5
Larp1	0.997756	4.23E-81	162.83	GLS(0.001)AS(0.998)LPDLDS(0.00	2	-0.32724	329358.4	329579.0
Ncam1	1	5.31E-41	131.56	DES(1)KEPIVEVR	2	2.7839	228314.6	234487.5
Dcaf8	1	1.34E-237	241.8	VHGHS(1)DEEEEEQPR	3	1.0331	69021.6	70983.6
Raver1	0.903112	1.71E-15	57.533	AADVS(0.001)VT(0.009)HRPPLS(0.	4	-1.1202	8426.4	9095.6
Polm	0.784396	0.000135084	41.798	AGS(0.784)PHS(0.206)ALAS(0.005	3	-0.23076	4716.5	5080.6
Map2k4	0.866647	1.85E-19	75.018	LKIS(0.133)PEQHWDF(0.867)AEC	4	-0.42465	24948.5	24094.8
Eaf1	0.582031	1.25E-26	80.082	T(0.418)S(0.582)PLKDNPS(1)PEPQ	4	-1.3586	62433.2	64573.2
Tmem184l	0.943181	0.00196166	113.1	S(0.002)HS(0.943)LS(0.054)GAR	2	-0.3893	23414.7	19745.6
Slc12a4	0.974938	2.84E-13	66.448	LES(0.02)LY(0.004)S(0.975)DEEDE	3	0.043555	19841.4	19179.6
Tp53bp2	0.970106	1.94E-15	56.131	SPSSVT(0.003)VNPE(0.97)PIEIPN	4	-0.56344	31043.1	31081.1
Ube2o	0.868947	3.31E-10	47.546	S(0.001)FCPGGT(0.019)DS(0.111)	3	2.5279	17470.4	18015.7
Plekhm3	0.551965	2.99E-13	82.59	S(0.445)S(0.552)GLLAS(0.003)PVL	3	-0.75465	4302.8	4215.0
Gripap1	0.566489	6.03E-18	98.227	TQT(0.001)GDS(0.094)S(0.566)S(0	3	0.63723	9665.7	10315.4
Htt	0.999593	2.76E-53	96.181	SLNPQIS(1)AEEDSGSAAQLGMCNR	3	0.38774	11152.7	9613.9
Sash1	0.850946	0.00260965	56.725	AGGS(0.149)VES(0.851)LR	2	-0.60945	45832.3	46673.7
Atp11c	0.792774	0.0148942	60.398	AS(0.161)DS(0.046)LS(0.793)AR	2	0.30079	5052.2	4901.6
Rhbdf1	1	0.0023392	50.354	VPS(1)PHHEPR	3	0.34301	5025.0	4700.7
Plp1	0.901922	2.63E-14	120.03	GLS(0.098)AT(0.902)VTGGQK	3	0.74682	28746.0	28278.5
Ubac1	1	0.0024076	67.881	RAPS(1)PIPK	3	0.53476	47425.7	46339.2
Fbn2	0.98942	0.0191626	57.885	S(0.989)IQQCS(0.011)VR	2	1.8418	26770.9	26721.9

9950.1	9139.3	8127.6	8644.0	-0.1	0.6	191;191
11907.0	10955.3	10119.7	10379.0	-0.1	0.5	1318
87047.3	78741.7	84260.4	83783.0	-0.1	0.2	950
43599.2	38803.3	45502.9	35370.0	-0.1	0.7	684
3401.7	3184.9	3020.4	3339.2	-0.1	0.4	32
32316.1	33356.3	37283.9	32217.0	-0.1	0.6	153
3723.1	3100.3	3451.9	3946.1	-0.1	0.6	409
8535.1	7650.9	6925.2	8128.0	-0.1	0.6	154
6567.0	6459.3	6306.3	6875.6	-0.1	0.4	441
7773.0	6606.1	7195.3	8210.0	-0.1	0.6	593
11399.1	10483.7	11549.9	12207.0	-0.1	0.6	80
56009.7	57219.9	59109.9	54221.0	-0.1	0.4	237
6853.6	6765.5	6287.4	6506.2	-0.1	0.2	501
21263.0	20239.3	20726.3	21324.0	-0.1	0.1	43
309821.5	311750.6	308645.7	311640.0	-0.1	0.1	417
234753.6	219717.0	237238.9	214160.0	-0.1	0.3	785
67829.4	63082.7	67130.1	69746.0	-0.1	0.3	99
8236.1	8097.0	8037.8	8647.2	-0.1	0.4	14
4001.4	3591.4	5235.2	4449.0	-0.1	0.8	13
26210.4	23112.4	25084.3	24207.0	-0.1	0.3	96
63569.8	61127.0	59334.3	62900.0	-0.1	0.1	244
20321.9	20447.2	22618.9	18013.0	-0.1	0.7	388
21851.8	18652.0	19938.8	19978.0	-0.1	0.4	936
30541.4	29255.6	30317.4	29586.0	-0.1	0.0	783
17709.3	16206.8	18008.8	16967.0	-0.1	0.3	280
4181.1	3915.1	4310.9	3992.7	-0.1	0.3	345
9459.8	9175.1	9732.7	9421.0	-0.1	0.3	661
9766.2	11281.2	9805.8	8292.6	-0.1	0.7	1718;1839
48959.7	44428.5	45373.6	46323.0	-0.1	0.2	507
5241.2	4419.6	4846.8	5354.9	-0.1	0.5	1109
4857.0	4723.6	4518.8	4790.2	-0.1	0.2	61
29224.4	26570.6	26564.3	29860.0	-0.1	0.4	116
46214.0	43437.4	45330.8	45930.0	-0.1	0.1	98
26498.9	25747.9	24370.4	26856.0	-0.1	0.2	144

Ndrp1	0.843389	3.41E-29	126.91	T(0.001)AS(0.045)GS(0.947)S(0.06	3	0.13519	104723.2	110963.9
Osbp13	0.559128	1.80E-26	78.501	QLMELDT(0.008)S(0.032)S(0.046):	3	1.0341	22148.1	21776.0
Serbp1	0.920516	6.56E-37	101.42	GGSGSHNWGTVKDEL(0.079)ES(C	4	-0.85242	181275.4	173400.3
Ptdss2	0.649349	5.73E-60	165.16	VAGGS(0.348)GS(0.649)ES(0.002)	2	1.5397	13371.1	12681.4
Ppm1e	0.999857	3.64E-14	68.525	RPWPQHQCS(1)APADLGYEGR	4	0.83781	26502.5	23672.5
Usp9x	0.784096	1.27E-11	47.304	RPY(0.001)T(0.001)GNPQY(0.013)	4	-0.6474	8059.4	8059.4
Osbp13	0.999624	9.57E-17	131.35	ALVHQLS(1)NESR	3	0.65921	62002.6	62047.0
Mief1	0.867802	0.000301998	74.392	AIS(0.868)APT(0.126)S(0.006)PTR	2	1.2205	15289.0	16180.6
Stk39	0.999985	7.90E-43	97.271	TEDGDWEWS(1)DDEMDEKSEEGK	4	-0.50495	137754.5	137300.8
LOC68570	0.879339	5.65E-27	77.08	APEAAVS(0.879)DDGKS(0.12)DDE	3	0.014522	17191.3	17896.2
Gas2l1	0.994376	1.63E-14	56.504	T(0.003)GT(0.003)FS(0.994)PQR	2	-0.31336	35012.3	39235.5
Slc6a15	0.978448	7.54E-13	71.148	KQS(0.978)GS(0.772)PT(0.208)LD1	3	0.2517	32820.2	30349.4
Jam3	0.702309	0.0137188	53.47	T(0.298)S(0.702)EEGDFR	2	-0.037111	16883.6	18786.9
Klc2	0.909872	1.68E-27	150.89	TLS(0.003)S(0.01)S(0.063)S(0.91)N	2	0.058553	78925.6	77327.0
Sept11	0.913563	2.04E-15	69.084	NLS(0.066)LS(0.914)GHVGFDS(0.0	3	-2.8019	6770.0	7545.3
Srrm2	0.992365	0.00119355	62.705	DGLPRT(0.992)PS(0.008)R	3	0.19043	26002.8	24495.2
Prkce	0.991755	5.80E-32	132.4	S(0.001)KS(0.009)APT(0.992)S(0.9	3	-0.74759	122929.5	120660.6
Vps26b	0.980106	1.58E-07	85.006	S(0.98)MS(0.019)HQAAIAS(0.001)	2	-1.303	16562.7	15476.4
Camsap3	0.727731	1.20E-67	99.997	AEAES(0.01)GT(0.039)GS(0.728)P	4	0.92176	2703.1	2707.4
Nolc1	0.999831	0.000343016	108.47	KSVGAQS(1)PK	3	0.46836	395301.7	383415.6
Atl1	0.788036	7.44E-71	174.18	SSDWS(0.788)S(0.211)EEEEPVK	2	1.0722	64772.0	64354.9
Speg	0.977266	3.43E-13	113.96	RGS(0.011)S(0.977)AES(0.011)ALP	2	-0.43103	67518.8	68173.3
Ripk1	0.991025	8.30E-06	71.513	EYPS(0.009)QS(0.991)PVLKR	3	1.8456	67972.0	63856.9
Kif1b	0.999792	2.52E-37	105.65	IVEGQGSSEVIS(1)PPEEVNR	3	-0.47034	13786.2	13296.8
Gpr155	0.82043	2.54E-10	48.655	FLQKS(0.592)PERS(0.403)PPAGT(C	4	1.2279	16126.2	17081.2
Cdk7	0.909366	0.00504509	60.598	AYT(0.09)HQVVT(0.909)R	2	-0.28253	16809.6	18089.2
Ntrk3	0.920531	1.19E-15	87.429	VFLAECY(0.036)NLS(0.921)PT(0.04	4	-0.66071	29848.0	32036.5
Fcho2	0.918657	3.00E-92	126.23	GPS(0.919)PVS(0.075)LGNQDT(0.(	4	0.53065	10774.1	12093.5
Zc3hc1	0.965066	2.80E-11	67.396	S(0.965)QDAAVS(0.015)PS(0.015):	3	-0.052404	5401.0	5136.9
Tomm34	0.674612	0.0172063	46.88	VS(0.675)DS(0.325)VEQLR	2	0.24787	41820.1	43254.6
Pitpnm1	0.999699	1.20E-17	132.51	AS(1)PEPSALPAQR	2	0.38978	37219.9	37979.6
Map1b	0.95784	5.22E-29	120.9	S(0.958)PDT(0.013)S(0.025)AYCY(i	2	-0.82786	363636.0	357122.6
Usp7	1	6.02E-58	104.12	AGEQQLS(1)EPEDMEMEAGDTDDF	3	-0.63493	36513.9	38726.6
LOC10255	0.981726	3.99E-07	43.903	QS(0.982)PCKDPPGLS(0.013)PT(0.	4	0.5842	13733.7	14306.0

106340.7	97882.1	103394.5	108610.0	-0.1	0.3	335
20081.3	20260.2	20660.1	20673.0	-0.1	0.3	373
163678.1	158328.2	172233.3	168270.0	-0.1	0.4	234
12958.8	13388.7	12045.8	12108.0	-0.1	0.4	14
24203.6	24224.4	22355.0	24999.0	-0.1	0.5	532
8742.8	7262.2	8232.6	8431.1	-0.1	0.5	2443;2448
55823.4	58694.9	57268.6	57141.0	-0.1	0.3	400
15749.2	17486.1	13611.3	14347.0	-0.1	0.7	55
135401.2	131192.2	134072.1	129770.0	-0.1	0.0	394
16093.1	17241.9	15477.2	16540.0	-0.1	0.4	474
36526.8	36491.2	34888.0	35237.0	-0.1	0.4	292
32851.7	30773.6	30593.1	31050.0	-0.1	0.2	699
17337.7	17399.2	16645.2	16974.0	-0.1	0.3	297
80991.6	71522.7	77553.6	79263.0	-0.1	0.3	611
7618.9	7251.6	7027.7	6832.0	-0.1	0.4	19
27302.7	23752.5	24199.4	26932.0	-0.1	0.5	1393
131547.2	116914.7	116749.3	127410.0	-0.1	0.4	349
15965.4	14930.9	16048.9	15226.0	-0.1	0.3	302
2751.8	2483.0	2785.5	2587.9	-0.1	0.3	587;588
360807.2	370917.4	364503.7	361420.0	-0.1	0.2	317
63475.0	59615.6	62973.0	62799.0	-0.1	0.1	22
65780.0	62395.2	67427.2	64112.0	-0.1	0.2	1937
66340.0	61208.4	62465.4	67082.0	-0.1	0.3	312
13934.0	14075.1	12823.7	12584.0	-0.1	0.4	995
16994.9	16578.6	15834.1	15912.0	-0.1	0.2	846
16620.1	16185.9	16811.9	16596.0	-0.1	0.3	175
29431.0	29098.3	28599.0	30207.0	-0.1	0.3	561
10913.6	9415.8	10621.4	12483.0	-0.1	0.7	578
4848.2	5167.0	4713.6	4931.2	-0.1	0.4	328
42843.3	38389.7	42995.8	41759.0	-0.1	0.3	6
38744.5	35326.3	37731.7	36634.0	-0.1	0.2	621
383111.4	351107.1	349414.5	362160.0	-0.1	0.2	2027;1901
38313.3	35238.3	36189.6	37892.0	-0.1	0.2	19
17617.7	15352.1	11337.2	17266.0	-0.1	0.8	295

Nup155	0.756699	0.000500024	57.175	AAPQS(0.757)PS(0.243)VPK	3	0.19329	49441.3	50347.3
Fbxo6	0.966169	3.44E-05	64.82	ILSFGS(0.034)WEDLS(0.966)P	2	-0.55285	3941.4	4226.7
Hdac1	0.874325	0.023295	49.418	KNS(0.874)S(0.126)NFK	3	-0.47789	20580.9	19763.1
Nsmf	0.999967	3.41E-13	65.428	QGS(1)KECPGCAQLVPGSPR	3	0.83087	22075.3	23297.4
Kif13b	0.812356	1.87E-20	116.96	QELS(0.812)PS(0.186)HS(0.001)LS	2	0.27404	27939.7	26315.0
Bag3	0.551287	6.92E-11	54.934	S(0.551)QS(0.445)PAAS(0.003)DC	3	-0.039562	4460.1	4700.1
LOC69015	0.555313	2.27E-10	48.5	GAPAS(0.023)S(0.064)S(0.183)T(0	3	1.5474	4628.2	4063.2
Golga7b	0.715679	0.0170384	74.717	S(0.261)AS(0.023)LAT(0.716)K	2	0.60924	47721.5	43470.7
Sgip1	0.797586	6.44E-38	99.392	T(0.023)GS(0.072)PLT(0.088)VAT(	2	-1.1825	27977.9	27013.7
Clmn	0.971244	6.92E-13	106.3	IKES(0.971)PS(0.029)EQESR	3	0.52044	28683.9	29638.6
Tbc1d8b	0.98919	9.02E-05	73.927	KLHS(0.989)PAS(0.009)S(0.002)AK	3	-0.28632	15366.5	15706.7
Synpo2l	1	4.87E-07	71.888	T(1)PPPVPKPGSR	3	-0.14549	13575.1	16736.7
Adrm1	0.525582	3.96E-23	95.227	SQSAAVT(0.033)PS(0.187)S(0.526	2	0.70048	6557.7	5939.6
Nemf	0.999979	9.93E-71	100.66	NPYLLS(1)EEEDGDGDGSIENSDAEA	4	-0.5017	125887.3	128031.9
Map1b	0.714746	4.93E-33	80.786	QGFS(0.005)DKES(0.039)PVS(0.03	3	-0.52638	20245.7	19439.5
Zcchc6	0.718405	3.85E-28	83.758	DLASLEAMT(0.718)EVEAGS(0.282	4	0.43616	12653.1	11396.9
Mprp	0.999987	7.70E-09	84.753	SKSVIEQVS(1)WDN	2	0.28287	37431.1	36394.5
Rasa3	0.998748	8.98E-08	67.646	Y(0.001)GS(0.999)QEHPIGDK	2	-0.55055	41696.1	41079.5
Ankrd11	1	0.0104738	48.284	EKS(1)PKEEK	3	0.74369	23959.7	23475.1
Adcy9	0.999394	5.52E-07	78.326	QGDEES(0.001)ENS(0.999)VKR	3	-0.069205	6707.4	7435.5
Heatr5a	0.697153	2.18E-08	48.616	S(0.127)AEVDDGAS(0.697)EKET(0	3	2.3416	11289.2	11332.2
Tmem55b	0.999955	0.0164034	47.603	VSHPVQNF(1)	2	-3.6991	17536.0	18519.2
Zfp318	0.999953	2.86E-12	71.376	S(1)PGLCSDSSLEQSLR	2	1.3434	10968.8	10685.3
Def6	0.844139	0.0191978	54.419	RDS(0.156)S(0.844)LKR	3	0.21362	31367.5	30066.4
Bmp2k	0.99977	1.82E-13	65.833	S(1)VDIFGSTPFQPFSTAASK	3	3.741	3244.2	3045.6
Zfp608	1	0.000256505	65.179	T(1)PPNCAEDVK	3	0.5116	38406.7	37827.1
Prkd3	0.870487	0.0061763	70.363	KS(0.002)S(0.87)T(0.127)VVK	3	0.3159	35871.0	33101.6
LOC10090	0.999993	1.26E-43	134.87	LKS(1)EDELRPDVDEHTQK	4	0.43394	193285.6	188307.4
Bclaf1	0.999677	6.43E-40	122.53	NT(0.39)PS(0.407)QHS(0.188)HS(	3	0.010748	15956.9	15545.5
Gapvd1	1	1.30E-06	92.151	KDS(1)DDER	3	0.12175	119840.4	117435.7
Marcks1l	1	6.56E-25	138.19	AAAT(1)PES(1)QEPQAK	3	-0.51079	118025.2	115932.9
Dkc1	1	0.0259998	66.073	AAEELS(1)G	2	0.17739	46210.4	44178.2
Epn1	0.759215	8.93E-37	76.97	SPGAFDMSGVGG(0.055)LAES(0.7	4	-0.063285	3991.2	3635.7
Kdm2a	0.987689	3.60E-43	132.76	LTPVRPAAAS(0.988)PIVS(0.012)G/	3	1.2342	9049.8	8680.1

45199.4	40829.4	50343.8	48412.0	-0.1	0.6	991
3650.0	3599.4	3890.0	3888.6	-0.1	0.5	283
22300.0	18204.3	18240.7	23866.0	-0.1	0.7	434
20747.7	20727.6	22268.4	20663.0	-0.1	0.4	166
27330.4	23250.9	25969.1	29332.0	-0.1	0.6	1469
3744.7	4291.6	3757.4	4376.2	-0.1	0.7	174
4841.1	4070.1	4251.9	4707.5	-0.1	0.6	42
42976.4	42813.7	43656.2	42712.0	-0.1	0.3	19
29162.7	26997.4	26801.6	27228.0	-0.1	0.2	299
29405.4	26576.1	30384.8	27508.0	-0.1	0.4	372
14790.0	14118.0	15733.6	14308.0	-0.1	0.4	1034
15354.3	16533.5	13758.8	13678.0	-0.1	0.7	492
5507.4	6182.2	5882.0	5271.9	-0.1	0.6	220
118366.9	115352.8	118982.8	124130.0	-0.1	0.3	417
22105.2	18950.1	20000.7	20546.0	-0.1	0.5	1442;1316
12026.2	11769.6	11439.8	11528.0	-0.1	0.3	166
37314.6	34515.6	35642.5	36858.0	-0.1	0.1	2412
39447.1	37311.7	40747.4	39629.0	-0.1	0.3	809
24731.6	22353.4	23474.9	23663.0	-0.1	0.2	715
6975.7	6180.2	6842.3	7313.4	-0.1	0.5	357
12973.7	10607.7	12367.4	11301.0	-0.1	0.6	1657
17345.1	16524.7	16789.5	18108.0	-0.1	0.3	277
11261.8	11286.7	9676.9	10733.0	-0.1	0.5	167
30905.5	29617.5	29459.3	29843.0	-0.1	0.0	581
3098.2	3442.5	2788.5	2809.4	-0.1	0.6	862
38920.1	37902.4	36834.0	36155.0	-0.1	0.1	480
35585.7	31682.1	30651.9	38358.0	-0.1	0.6	415
191358.7	179018.4	176048.4	196700.0	-0.1	0.3	404
14479.1	13855.1	16117.3	14310.0	-0.1	0.5	265
125798.1	111205.9	113703.7	124750.0	-0.1	0.4	964
124467.3	113317.8	123845.1	108020.0	-0.1	0.5	148
41985.2	41433.3	43191.4	42860.0	-0.1	0.3	508
3941.7	3406.6	4268.4	3466.5	-0.1	0.7	450
8922.4	8551.3	8822.2	8294.9	-0.1	0.2	558



Wdr7	0.780032	2.03E-86	154.34	S(0.78)S(0.171)S(0.049)QIPEGFGL	3	2.1037	24856.6	22259.7
Dock5	0.924896	4.61E-07	89.561	DS(0.005)Y(0.001)Y(0.014)VY(0.05	2	0.38034	12230.9	11584.5
Psen2	0.989719	4.14E-15	125.47	TSLMS(0.007)AES(0.99)PT(0.003)S	2	-0.29666	50089.0	47375.8
Fxyd2	0.994722	5.55E-06	65.179	TELS(0.005)ANHGGG(0.995)AK	3	0.85011	25730.9	27741.0
Camsap3	1	1.42E-07	80.737	DLPDGHAAVS(1)PR	2	-0.41036	31617.9	30639.0
Bri3bp	1	1.31E-06	86.944	VLENLDRS(1)NEK	3	-0.14964	21165.3	21754.0
Rbm5	0.55988	1.55E-05	48.423	S(0.001)EDGY(0.033)HS(0.405)DG	4	0.11942	4249.3	4985.8
Unkl	0.49999	9.41E-32	88.565	AAAAALS(0.5)GS(0.5)PPQTEKPTH	5	0.29254	3371.7	2927.4
Slc16a1	0.883976	6.49E-09	48.286	ETQSPAPLQNS(0.058)S(0.058)GDF	3	0.54656	18141.8	17974.0
Camkk2	0.935245	8.66E-07	77.746	S(0.064)LS(0.935)APGNLLTK	3	0.38295	30648.3	28572.4
Rabgap1	0.882003	2.59E-10	62.287	GVS(0.04)DEDT(0.882)DEEKET(0.0	3	2.0247	9704.5	9950.7
Strn4	1	2.09E-42	134.32	S(1)LELNGAGEPVEGAPR	3	-0.5032	34327.7	32398.5
Lsp1	0.793495	3.62E-85	103.85	VHLEESNLSHSDPNIEDDVGGG(0.79	5	0.68634	5238.5	5513.8
Elavl2	1	5.45E-51	154.33	TNQAILSQLYQS(1)PNRR	3	-0.55038	58651.2	57978.5
Srrm2	0.584836	0.0325819	42.835	S(0.585)RS(0.415)AAAK	3	0.39502	21843.9	22276.1
Tnks1bp1	0.522691	2.76E-09	61.276	AS(0.449)VS(0.523)T(0.025)NQNT	3	-0.11966	7857.4	7030.9
Pygm	0.998722	1.61E-05	52.862	IGEEY(0.001)IS(0.999)DLDQLRK	3	-0.26614	8226.5	10312.6
Bysl	0.997706	5.71E-09	48.968	LPGVPQDGS(0.998)DEEDEEWPT	3	0.985	32968.0	30673.0
Eps15l1	0.57454	2.84E-37	105.38	S(0.007)T(0.008)PS(0.167)HGS(0.8	3	-0.1531	9197.5	7774.9
Lzts1	0.958557	5.35E-48	107.65	GS(0.012)S(0.012)CVRS(0.959)PLS	4	1.1609	8718.1	9172.1
Nolc1	0.995175	1.66E-43	136.96	AGKES(0.005)EEEEEDT(0.995)EQN	4	-1.3219	255126.1	240070.8
Ggt7	0.99941	6.11E-60	139.15	LPS(0.298)S(0.477)S(0.223)S(0.00	3	0.11476	252406.8	260407.6
Dnajb6	0.641497	0.00526978	120.87	SIS(0.002)T(0.109)S(0.247)T(0.641	2	0.48133	21052.0	18762.7
Myh10	0.974128	0.000132108	64.224	LVQEQGS(0.974)HS(0.026)K	3	-0.90922	15773.2	16588.6
Osbpl10	0.990853	6.39E-60	154.01	S(0.991)S(0.009)PGSVAASPSGGGC	2	-0.40516	50993.0	51131.6
Cenpc	0.995274	2.78E-11	57.902	RPS(0.995)KPNIAQELS(0.005)MGC	3	-0.29948	7043.0	7670.9
Synpo2	0.776474	1.65E-35	80.605	GIS(0.223)S(0.776)PVAGPAQPPPV	4	-0.089298	4945.7	6445.8
Ctnnb1	0.999983	2.25E-13	75.548	EYAENIGDGRS(1)PEFR	3	-0.10815	66051.8	62298.2
Srrm1	1	0.00162918	70.908	RHS(1)PS(1)PRPR	3	-0.21981	8042.8	8274.4
Eprs	0.579177	0.00698288	72.434	EMPT(0.579)S(0.419)GS(0.002)K	2	-0.66963	30286.9	28331.1
Snx29	0.913383	3.12E-54	85.448	EAGS(0.071)PGRGS(0.913)PLS(0.0	4	0.0046112	14653.3	14378.4
Ints10	0.91753	3.44E-25	71.295	STQLENQHQGAPDT(0.004)S(0.004	4	-0.22844	6895.7	6248.7
Gpr137b	0.776146	0.0269669	65.474	IS(0.776)PS(0.224)LPR	2	-0.97266	11515.6	12364.4
Usp8	1	0.000587095	83.883	ARS(1)EEMGR	2	0.41431	42880.4	42471.4

25164.9	24561.0	22051.5	23001.0	-0.1	0.5	1150
12667.1	11764.1	10413.2	12959.0	-0.1	0.6	1292
44777.8	45881.5	48006.7	43106.0	-0.1	0.4	25
26006.0	24683.1	24556.4	27306.0	-0.1	0.4	11
32525.9	28483.5	31371.1	31432.0	-0.1	0.4	335
23301.8	22235.7	19882.1	21661.0	-0.1	0.4	250
4649.6	4171.9	3983.3	5217.6	-0.1	0.7	82
3228.8	2899.8	3123.1	3154.0	-0.1	0.5	13
19755.5	18324.2	17687.1	17803.0	-0.1	0.3	492
26109.3	27930.2	28607.6	25651.0	-0.1	0.5	510
10018.0	8840.4	10397.5	9343.1	-0.1	0.5	992
35764.5	33459.7	30484.1	34775.0	-0.1	0.5	205
5188.5	5381.3	5087.7	4885.5	-0.1	0.3	151
55541.3	56357.5	54267.9	55215.0	-0.1	0.1	221
20150.5	20488.9	21611.2	19808.0	-0.1	0.4	279
6943.6	6812.5	7413.4	6803.7	-0.1	0.5	885
9077.8	9280.4	9711.9	7609.8	-0.1	0.7	514
33921.6	30538.2	31090.1	32350.0	-0.1	0.3	97
8832.6	8184.5	8066.9	8606.2	-0.1	0.5	253
9570.2	8973.8	9006.3	8473.2	-0.1	0.3	254
258314.1	235479.4	250394.0	240020.0	-0.1	0.3	573
254555.9	243179.1	243223.3	252850.0	-0.1	0.1	28
20035.5	18399.0	20370.5	18888.0	-0.1	0.5	196
16828.8	15560.0	15386.3	16443.0	-0.1	0.3	559
48834.1	47843.8	50060.6	47528.0	-0.1	0.2	58
7069.4	7037.8	7217.6	6730.9	-0.1	0.3	405
5517.0	5506.8	5010.8	5772.2	-0.1	0.7	633
64501.3	59653.0	62428.0	63716.0	-0.1	0.2	545
7531.5	7302.1	8245.2	7429.4	-0.1	0.5	620
27232.5	27551.8	26400.8	28759.0	-0.1	0.4	712
13875.5	13939.8	13803.7	13595.0	-0.1	0.1	396
7131.6	6021.1	6906.6	6607.2	-0.1	0.5	231
11946.3	11011.7	12489.2	11016.0	-0.1	0.5	148
42707.0	39847.1	38499.0	45033.0	-0.1	0.5	604

Sod1	0.952897	7.57E-10	76.358	VIS(0.953)LS(0.047)GEHSIIGR	3	0.15334	1405.0	1187.7
Necap2	0.61549	2.29E-06	49.188	S(0.037)T(0.037)GS(0.615)PS(0.24	3	1.6394	11524.4	11142.5
Intu	0.541034	5.60E-05	49.718	EKADS(0.057)LT(0.107)T(0.295)S(	3	1.9493	10452.5	10444.6
Apc2	0.999995	5.57E-39	82.885	FHAPALGPEPAAQT(1)PEGS(1)PVH	4	-0.18814	56258.7	57714.2
Srrm1	1	4.58E-05	92.19	NS(1)DQEGGGK	2	-0.54268	10908.6	10469.7
Atf7ip	0.949894	1.94E-51	110.75	NKQEDLNS(0.001)EALS(0.95)PS(0.	3	-0.55875	21066.3	21029.0
Abi2	0.988602	0.00814856	47.712	GT(0.002)LGRHS(0.989)PY(0.009)I	2	-0.19496	5715.6	5235.2
Sf3b2	0.885448	5.29E-10	98.592	AAS(0.109)S(0.885)ES(0.004)S(0.0	3	-0.63323	19848.6	18914.1
Numa1	0.999391	4.87E-73	160.98	TQPDGTSVPGEPAS(0.999)PIS(0.0C	2	0.13234	97768.7	102597.7
Katnb1	0.99974	0.000170801	74.611	VKHNS(1)ESER	3	-0.85582	12083.0	13537.0
Tra2a	0.999608	1.69E-20	124.42	RAHT(1)PTPGIYMGR	3	-0.14019	95087.6	94906.2
Nacad	0.86886	2.00E-127	162.58	APGSGQHSES(0.003)HGES(0.869):	4	0.063935	72904.9	74591.3
Cdc42ep4	0.882406	4.17E-07	45.916	DSSS(0.001)LS(0.001)S(0.002)Y(0.I	3	0.85213	12747.4	12131.9
Pdzd8	0.695319	6.84E-26	75.404	HT(0.003)PNT(0.17)S(0.695)DNEG	4	0.10318	6714.7	6977.8
Tmem209	0.559317	1.81E-23	68.046	DLAATQISPS(0.006)PPS(0.006)PS(i	4	1.7147	7811.0	7505.9
Kcna1	0.99502	0.00027277	126.33	RS(0.001)S(0.995)S(0.003)T(0.001	2	0.32406	141308.7	137388.6
Ino80c	0.830061	9.16E-48	116.45	RPAS(0.158)PS(0.83)HNS(0.01)S(0	3	0.31179	23245.3	22482.4
Ahnak	0.981511	8.92E-120	161.38	S(0.013)NS(0.982)FS(0.005)DER	2	0.2757	18599.8	16455.9
Tuba1b	1	0.000358175	81.904	DVNAAIAT(1)IK	2	0.52645	9723.4	10297.3
Zmynd11	0.831458	0.0130698	64.374	KLS(0.012)AS(0.156)S(0.831)PR	3	0.57851	41755.7	41855.0
Fasn	0.873782	0.000115381	67.519	AGS(0.126)DT(0.874)ELAAPK	2	0.33779	16072.5	15931.6
Isl2	1	3.11E-21	79.467	AAAGS(1)PRS(1)PGPLPGAR	3	1.0154	28344.0	29532.2
Sync	0.898805	1.11E-42	113.36	DTHT(0.004)EAS(0.899)FPLQDS(0.	4	0.78061	26355.8	25423.2
Scn7a	0.916391	1.93E-32	93.407	ENISGHTLS(0.014)ELS(0.916)NT(0.	3	0.44193	5998.2	5985.6
Tmem63b	0.882131	5.72E-13	98.676	LT(0.117)S(0.882)VS(0.001)SSVDF	3	0.95466	3660.5	3299.7
Sqstm1	0.987297	1.68E-81	163.63	S(0.005)RLT(0.987)PT(0.008)SAES:	4	0.1655	133234.2	126748.5
Cdc42ep1	0.998811	4.83E-10	78.69	AS(0.999)PVGEGPQVPS(0.001)K	3	-0.010915	18686.9	19382.5
Nefh	1	8.36E-54	126.27	S(1)PVEAKS(1)PAEAK	4	0.32484	1490491.5	1472279.1
Adam10	1	0.00105113	49.595	LPPPCKPLPGT(1)LKR	3	-1.0917	33455.9	39417.6
Limch1	0.81303	2.00E-21	85.163	SWS(0.007)T(0.031)AT(0.813)S(0.:	3	-0.21103	13365.2	13795.9
Gsk3b	0.999892	9.18E-43	93.849	IQAAAAS(1)PPANATAASDTNAGDR	3	-0.1018	26175.7	23316.0
Mta3	0.999748	2.22E-10	99.941	S(1)PPSLQTPTTK	2	0.56251	19565.9	20748.1
Tfg	0.975954	6.09E-88	139.59	NVMSAFGLTDDQVS(0.021)GPPS(C	3	0.22121	42348.5	43306.2
P2ry2	0.998796	9.33E-21	100.97	DAKPATEPT(0.001)PS(0.999)PQAF	2	-0.085476	131636.0	128547.4

1344.0	1339.4	1349.2	1104.3	-0.1	0.7	106
10047.9	10871.7	9902.1	10746.0	-0.1	0.5	227
10290.6	9970.3	9498.5	10580.0	-0.1	0.3	650
56094.9	53825.4	56340.0	53692.0	-0.1	0.1	104
10943.5	9992.7	9426.2	11723.0	-0.1	0.6	736
21705.9	20745.2	21201.9	19525.0	-0.1	0.2	120
5028.3	5198.1	5127.2	5070.9	-0.1	0.4	120
17828.5	18971.0	16856.8	18700.0	-0.1	0.5	326
94442.3	95461.1	97814.0	90785.0	-0.1	0.3	1737
10443.7	12304.1	11178.0	11267.0	-0.1	0.7	354
91722.1	89207.8	89175.1	93064.0	-0.1	0.1	200
67638.8	69495.5	67654.8	70145.0	-0.1	0.3	1231
12823.6	11688.2	12575.8	12065.0	-0.1	0.2	316
7617.3	6943.8	6470.5	7119.3	-0.1	0.5	973
6991.3	6712.2	7598.6	7185.1	-0.1	0.5	142
126947.9	127001.3	134114.8	129760.0	-0.1	0.4	446
25952.8	21774.8	21423.1	25874.0	-0.1	0.6	28
20815.9	17361.8	18155.2	18322.0	-0.1	0.6	5470
10120.7	8313.3	9854.6	10877.0	-0.1	0.7	334;334;334
37344.4	38532.7	40638.4	37384.0	-0.1	0.5	392
15813.1	15296.0	16146.1	14636.0	-0.1	0.3	2193
23917.2	25929.4	27299.6	25590.0	-0.1	0.6	154
27931.9	24100.1	24700.6	28012.0	-0.1	0.5	24
6784.4	5600.4	6411.6	6074.0	-0.1	0.6	797
3812.4	2987.3	3927.2	3466.9	-0.1	0.7	98
128672.6	120951.6	127029.7	126570.0	-0.1	0.2	239
20268.7	19001.8	18299.5	18920.0	-0.1	0.2	298
1558210.0	1405088.5	1436578.0	1515300.0	-0.1	0.3	604
32522.7	32143.0	33059.6	36370.0	-0.1	0.6	646
14626.1	13658.2	12922.0	13691.0	-0.1	0.3	143;146
27854.2	24358.6	24064.8	26117.0	-0.1	0.6	389
17755.0	18609.1	18476.9	18877.0	-0.1	0.5	493
42529.3	40367.4	41208.0	41960.0	-0.1	0.0	198
124265.0	117662.7	126110.7	126740.0	-0.1	0.3	328

Sec23ip	0.51636	0.00276889	40.983	T(0.516)KEMAS(0.267)PS(0.165)S	3	0.51342	11673.6	12074.8
Inadl	0.895907	0.000808032	63.816	AS(0.003)ES(0.101)PDS(0.896)AAF	2	0.18547	4360.7	4601.3
Exosc5	0.956021	2.00E-14	127.27	VLTDGT(0.001)ES(0.043)S(0.956)	2	0.33226	30278.6	30978.0
Nfkb2	0.999997	0.000490111	100.79	S(1)PGASNLK	2	0.30707	36975.4	39703.9
Purg	0.728131	2.71E-11	44.081	LYPQAQHS(0.022)HY(0.004)PHY(0	5	1.2508	13448.7	11835.7
Ahnak	0.965224	0.00316736	61.419	GDIS(0.035)LS(0.965)GPK	2	0.64152	30054.3	29126.4
Zswim8	0.899297	9.08E-30	82.086	KQS(0.899)AGPNS(0.781)PT(0.32)	3	0.032901	17906.9	16440.6
Akap13	0.99995	3.54E-06	46.569	S(1)AVLLAEEAIAAPMFTNR	3	-1.7934	448.5	416.5
Srrm1	0.999848	0.00766357	69.786	KAQVSPQS(1)	2	-0.69635	4837.6	4685.4
Ccnl1	0.999976	1.65E-06	74.789	S(1)PYNGVR	2	0.86774	41710.4	41508.4
Pacs2	1	0.00150147	93.345	ANS(1)LDNER	3	-0.34399	133126.9	143915.2
Lmo7	0.999652	3.01E-09	118.61	RKS(1)YTSDLQK	3	-0.33181	196386.6	206845.2
Flnc	0.892078	6.15E-05	98.634	LGS(0.085)FGS(0.892)IT(0.023)R	2	0.51515	45377.9	48186.4
LOC10091	0.848695	6.89E-07	53.496	TEELPRPQS(0.849)PS(0.028)DLDS(	3	-0.070389	25189.4	25356.3
Snx19	0.550907	3.71E-79	130.32	SEPQS(0.381)PT(0.551)EELS(0.068	3	0.10875	52279.9	48975.1
Eif3a	1	0.00152414	93.448	LES(1)LNQR	2	0.73795	15965.2	16969.3
RGD13104	0.567086	0.00421889	40.798	ELES(0.429)S(0.567)EEGGS(0.004)	2	0.32774	3509.9	3656.9
Tacc2	0.514552	0.0539486	41.652	T(0.515)RPPS(0.485)LK	3	0.11149	11739.3	11545.0
Cdk14	0.999094	1.24E-05	112.84	RT(0.001)LS(0.999)ESFSR	2	1.3736	40714.5	43033.1
Sox13	0.50334	4.91E-05	41.45	APAQDCAS(0.017)PQS(0.24)S(0.24	3	-0.080174	5887.2	6190.3
Tpcn1	0.99491	2.63E-18	99.284	GS(0.005)APS(0.995)PAAQQTGPSI	3	0.1523	31078.8	33751.0
Hist1h1d	0.998636	3.71E-14	64.589	SET(0.001)APAAPAAPAPAEKT(0.99	4	0.31442	7012.2	7270.6
Sf3b2	0.567349	1.47E-14	67.217	SSLGQSASETEEDT(0.156)VS(0.567	4	1.9213	20294.6	24720.1
Phrf1	0.99382	0.000649856	46.318	KENPS(0.994)PLFS(0.006)IK	3	0.52456	13598.9	12933.7
Farp2	0.847917	1.88E-15	85.469	DS(0.001)S(0.021)S(0.13)S(0.848)I	3	1.8256	20427.0	20658.2
Yap1	0.973428	4.89E-48	116.6	GDS(0.973)ET(0.027)DLEALFNAVN	3	-0.44694	31350.8	29553.1
Npm1	1	0.0467059	56.548	MQAS(1)IEK	2	-0.63824	13937.7	14302.7
Ryr2	0.654874	1.92E-06	86.756	DGPS(0.001)PT(0.155)S(0.095)GS(	3	0.39226	17760.2	21225.3
Esyt2	0.99528	4.38E-34	99.078	EPT(0.002)PS(0.003)IAS(0.995)DIS	3	0.91298	10883.1	9398.3
Errfi1	0.971464	1.99E-05	50.178	S(0.028)HS(0.971)GPAGS(0.001)FI	4	0.85473	2601.0	2639.2
Fsd1l	0.999469	0.000520888	83.862	GS(0.005)GT(0.996)PS(0.999)PKR	2	0.22275	245310.3	239983.0
Adrbk1	0.996358	3.86E-07	75.474	S(0.996)PVVELS(0.004)K	3	1.8933	124038.7	115538.0
Grk6	0.814512	8.33E-05	55.724	DVLDIEQFS(0.185)T(0.815)VK	3	1.1299	8103.3	7591.2
Epb41l3	0.99907	6.03E-18	98.227	S(0.999)LDGEVGT(0.001)GQYATT	3	1.8386	47914.7	51468.3

11580.1	10611.5	12277.6	11159.0	-0.1	0.5	449
4568.2	4602.0	4439.1	3999.1	-0.1	0.4	1405
27594.5	27844.4	29176.1	28615.0	-0.1	0.4	20
41156.9	41802.9	34317.4	37453.0	-0.1	0.6	222
13739.2	11364.8	12751.1	13496.0	-0.1	0.6	47
27858.5	27727.8	28508.2	27655.0	-0.1	0.2	657
15977.1	15103.5	16841.8	16560.0	-0.1	0.5	48
549.9	546.5	330.5	486.8	-0.1	0.8	1838;494
4186.6	4269.3	4976.2	3968.5	-0.1	0.7	839
41428.4	39716.2	39566.5	40859.0	-0.1	0.0	277
135816.4	133381.1	123749.0	140810.0	-0.1	0.4	453
203559.5	207474.4	197741.9	179650.0	-0.1	0.4	355;365
57027.5	47468.8	46831.2	50853.0	-0.1	0.7	2204
24879.6	24371.8	24055.2	24275.0	-0.1	0.0	100
49022.5	48070.4	45947.4	50834.0	-0.1	0.4	599
16234.7	16281.6	15404.5	15708.0	-0.1	0.2	584
4549.6	3806.6	3727.0	3759.9	-0.1	0.7	19
10269.4	10732.0	10639.7	10971.0	-0.1	0.4	2020
35380.2	37323.8	40207.7	37301.0	-0.1	0.6	24
6387.7	5383.8	6411.0	6005.0	-0.1	0.5	76
29922.8	29047.7	30416.8	31875.0	-0.1	0.5	800
7644.7	7391.3	6455.9	7290.6	-0.1	0.5	18
22524.6	22621.8	20195.2	22290.0	-0.1	0.6	299
12136.9	12075.4	13523.7	11679.0	-0.1	0.5	605
23987.4	20132.6	22141.2	20458.0	-0.1	0.6	428
28602.7	29425.0	27334.8	29528.0	-0.1	0.4	46
14924.2	13592.2	13409.3	14611.0	-0.1	0.3	252
19628.8	19151.4	18367.9	18988.0	-0.1	0.5	2360
9415.3	8496.2	10134.8	9999.0	-0.1	0.6	688
3107.8	2459.4	2726.6	2862.1	-0.1	0.6	174
217229.5	224149.8	231863.7	221300.0	-0.1	0.4	314
113661.2	111755.9	113703.7	115110.0	-0.1	0.3	670
8045.0	7676.5	7770.1	7442.4	-0.1	0.2	331
50250.0	46454.6	48420.3	49399.0	-0.1	0.3	446

Magi3	0.898875	6.15E-05	49.298	S(0.049)GS(0.043)PKLDPS(0.899)E	3	-0.093048	12391.9	14427.7
RGD13054	0.935751	2.96E-06	91.784	S(0.005)HS(0.936)DT(0.054)NIAS(I	2	0.8086	7689.2	7413.2
Sema5a	0.877015	0.00597136	93.938	S(0.023)S(0.1)S(0.877)VEEK	2	1.1415	13491.6	13686.2
LOC10036	0.945106	1.99E-05	52.172	QT(0.049)Y(0.006)S(0.945)PPGFQ	3	1.3037	4841.8	4673.7
Pacs1	0.87893	3.09E-26	78.272	GS(0.879)LGKDT(0.091)T(0.024)S(	4	1.7579	6484.8	6654.5
Clasp2	0.630671	4.16E-88	143.07	DKS(0.369)FDDEES(0.631)VDGNRI	4	0.22465	207657.4	208183.5
Sytl3	0.782748	9.97E-08	91.657	S(0.029)QS(0.783)DT(0.188)AVNV	2	-0.22591	8354.8	8760.5
Mpz	0.654329	0.0101681	64.73	GSAMES(0.346)S(0.654)K	2	-2.2038	14807.1	11946.5
Rictor	0.700648	1.97E-09	52.249	S(0.223)QS(0.701)FNT(0.025)DT(0	3	0.23128	6229.0	5239.3
Basp1	0.999994	3.98E-21	124.25	KAEGAGT(1)EEEGTQK	3	-0.081949	36174.0	36491.1
Irs2	0.555059	3.55E-15	91.589	S(0.005)NT(0.373)PES(0.555)IAETI	2	0.39868	17233.0	16371.5
Nop58	0.993068	1.59E-33	85.805	EEPLS(0.993)EEEPCT(0.002)S(0.00	5	0.7411	379940.0	392684.5
RGD13072	0.5	2.28E-20	100.58	S(0.5)S(0.5)PEIQEPIKPLEK	4	-0.28035	19521.8	16272.7
Mapt	0.900018	7.95E-15	84.249	VAVVRT(0.945)PPKS(0.124)PS(0.9	3	-0.44905	725805.1	715144.6
Clip4	0.867568	7.76E-33	132.15	LS(0.005)DS(0.116)LDT(0.868)LS(C	2	-0.2057	50016.2	48665.7
Tmcc1	0.936681	0.0721751	49.527	GT(0.053)S(0.937)LHS(0.01)R	2	0.24576	10535.9	9547.1
Map7d1	0.735047	1.30E-84	122.79	TAEKEPAAPAS(0.005)PAPS(0.735	4	0.12136	32647.2	33135.6
Phrf1	0.822114	0.000792937	121.61	T(0.069)IS(0.109)INS(0.822)PK	2	-0.31381	32736.7	34231.4
Ube4b	0.890429	0.000395312	44.585	NNES(0.009)QWKDS(0.89)PLAT(0.	3	-0.031509	47019.0	46467.5
Atp1a2	0.81375	6.98E-21	107.82	ILDRCs(0.814)T(0.186)ILVQGK	3	-0.19504	43875.1	39860.8
Ep400	0.973603	1.14E-40	84.529	SPGVAVS(0.002)APPKPQS(0.974)F	4	0.3103	6781.2	6521.8
Tmpo	0.724743	0.0145947	51.286	AKT(0.725)PVT(0.275)LK	3	0.4911	9471.4	7879.5
Leo1	0.985362	2.11E-13	106.93	KLNS(0.985)DEEGES(0.012)S(0.00:	2	0.045517	64085.1	65943.2
Farp2	0.743075	1.41E-05	40.986	SAGDTPAVLLGGPVY(0.016)T(0.24	3	-0.2942	7829.0	7980.2
Tcof1	1	8.60E-12	102.5	GS(1)PVPQGAK	2	-0.32224	152388.7	149169.4
Smg6	1	2.39E-15	82.01	VTDDSVQGKPGS(1)VKR	4	1.2096	59436.0	63652.9
LOC10036	0.784507	8.27E-05	47.68	QGS(0.785)PT(0.215)KDIELQFQR	3	0.72844	20677.5	18193.4
Crtc2	0.987762	1.17E-55	89.792	S(0.006)S(0.006)HY(0.001)GGS(0.:	5	-2.4624	21004.3	20091.1
Tmem229i	0.943448	3.63E-25	106.42	AGS(0.041)DLAS(0.943)EGS(0.015	2	0.44812	6874.4	8546.8
Prx	0.999998	0.00194392	84.054	MPSFGLS(1)R	2	-0.85383	29153.9	26436.7
Ttc9	1	5.96E-15	108.06	PAS(1)PAGIPK	2	0.27107	174262.4	182910.5
Plekhm3	0.609491	2.52E-06	73.296	S(0.609)RS(0.39)DVT(0.001)HVDM	3	0.19215	5987.6	6565.8
Gmip	1	0.0109687	56.404	S(1)REEAQAK	2	0.41516	10166.9	8908.2
Dgkg	0.839672	6.79E-42	104.67	EGAS(0.023)S(0.134)S(0.84)EPNV:	3	-0.24369	8793.6	9097.6



11058.4	12406.4	12828.0	11288.0	-0.1	0.7	708
7004.7	7622.1	6825.6	6868.6	-0.1	0.5	358
12190.2	11595.8	12643.1	13721.0	-0.1	0.6	957
4714.2	4381.2	4594.7	4745.0	-0.1	0.2	249
6220.1	5959.6	6504.0	6204.3	-0.1	0.3	421
193008.9	179150.4	197570.9	210380.0	-0.1	0.5	247
8631.4	8047.3	8447.7	8332.0	-0.1	0.1	231
15149.9	13150.0	12020.1	15237.0	-0.1	0.7	265
5957.5	5105.4	5525.9	6172.6	-0.1	0.7	1166
37967.3	34484.8	33166.4	39032.0	-0.1	0.5	31
17113.1	15346.6	16846.1	16715.0	-0.1	0.3	521
389467.3	369707.5	378716.7	372210.0	-0.1	0.0	444
16220.9	16459.8	15886.5	17814.0	-0.1	0.6	243
709754.2	728074.3	672433.5	673530.0	-0.1	0.2	482;566
45528.3	46443.6	46467.8	46159.0	-0.1	0.3	560
8222.9	9263.5	8789.6	9244.1	-0.1	0.7	120
32619.6	30461.2	31491.9	32944.0	-0.1	0.2	516
31351.6	31404.9	31675.7	31737.0	-0.1	0.2	658
45728.5	46544.8	42426.2	45287.0	-0.1	0.3	674
39721.8	37702.2	39443.6	41917.0	-0.1	0.5	516
6918.7	5596.2	6747.6	7158.1	-0.1	0.6	681
10096.9	9136.6	8827.1	8507.2	-0.1	0.7	207
65813.0	61064.3	62270.9	65538.0	-0.1	0.2	642
8040.8	7112.4	8342.7	7546.4	-0.1	0.5	871
147687.1	150485.5	141285.4	141500.0	-0.1	0.2	1280
63094.9	56201.3	61070.9	62293.0	-0.1	0.4	293
19306.2	18692.7	19223.8	18193.0	-0.1	0.4	526
20624.2	19567.2	20129.0	19831.0	-0.1	0.1	70
6524.8	7416.1	7009.9	6740.5	-0.1	0.7	8
22566.2	22459.0	26762.0	26160.0	-0.1	0.7	1007;1007
164657.5	168150.8	167232.1	167920.0	-0.1	0.3	104
5540.3	6003.1	5771.0	5677.6	-0.1	0.5	150
9064.7	8810.6	9303.4	9028.3	-0.1	0.5	259
8746.8	8385.4	8377.0	8931.4	-0.1	0.2	98

Pebp1	0.815752	2.02E-58	99.219	VLTPTQVMNRPS(0.038)S(0.147)IS	4	0.66774	47884.9	44997.6
Eps15	0.95927	4.21E-07	41.24	S(0.415)S(0.446)PEIAPS(0.107)DV	4	0.43658	12944.2	12074.8
Fgf12	0.775343	0.0351026	60.91	VVNQDS(0.775)T(0.225)	2	0.10788	16293.2	15690.3
Mapt	0.999025	2.12E-59	92.302	LGS(0.999)EEEVDEDITMDESSQESF	4	-0.97226	28327.3	31125.0
Evl	0.856733	4.42E-30	85.507	VQRPEDASGG(0.127)S(0.857)PS(	3	-0.42087	20662.0	20256.7
Gas2l1	0.919387	1.63E-14	56.504	T(0.086)GT(0.092)FS(0.837)PQRG:	4	-0.99814	28848.5	32917.3
C2cd2l	0.543328	3.83E-30	93.176	NLGT(0.435)PT(0.435)S(0.13)S(0.C	3	0.14394	109256.6	103853.7
Stard3nl	0.998778	0.0305916	63.227	IES(0.999)Y(0.001)EGR	2	-0.56536	20751.4	21159.5
Tln2	0.8873	0.00102746	40.968	DIPEKT(0.026)S(0.079)S(0.887)PEI	3	1.0348	13508.3	13750.9
Cyba	0.999874	1.38E-38	77.995	KKPS(1)EAEEEEASAGGPQVNPPIPV1	4	1.7203	22437.9	22620.6
Rpl26	0.742996	0.0160094	49.978	Y(0.257)KEET(0.743)IEK	3	1.001	39758.0	37654.9
Gtf2f1	0.785421	6.06E-14	64.845	GT(0.196)S(0.785)RPGT(0.017)PS(	3	-0.51571	11329.3	10580.4
Sh3kbp1	0.994456	1.15E-48	120.23	ELS(0.994)GES(0.006)DELGISQDEC	3	0.32763	12885.7	11878.5
LOC100911	0.994732	7.18E-15	80.738	EYEVMY(0.001)S(0.995)PS(0.005)(	3	0.37569	33298.4	34527.6
Ccdc132	0.956261	2.33E-48	121.46	SAYQDY(0.011)DS(0.956)DS(0.033	3	-0.07814	200942.6	202786.6
Thrap3	0.99999	1.34E-12	72.772	TDTEKPFRRGS(1)QS(1)PK	4	0.011112	152174.0	163100.3
Kif21b	0.999921	1.72E-21	81.316	AVS(1)AECLGPPLDSSTK	3	0.048667	103578.2	67518.4
Plec	1	0.000286487	86.114	RLT(1)VNEAVK	3	0.19194	10535.7	10248.4
Znrf2	0.808226	1.63E-08	70.058	S(0.808)LGGAVGS(0.005)AAS(0.18	2	0.042046	34382.6	31349.8
C2cd2l	0.605093	5.82E-22	83.871	LADS(0.353)PS(0.605)RS(0.939)PS	4	-0.24127	126436.0	122031.8
Gtpbp1	0.56607	1.86E-34	79.146	S(0.238)RS(0.566)PVDS(0.196)PVF	3	-0.070296	15081.4	15251.5
Pnpla6	0.9991	0.0402023	63.184	T(0.999)PT(0.001)QELR	2	0.57703	4374.7	3931.6
Prr12	1	6.02E-37	107.03	TEDEEFLIQHLLQAPS(1)PPR	4	-0.49037	21991.8	22540.5
Zfp638	0.927098	0.00103336	107.21	ATVVS(0.073)S(0.927)PK	2	0.08205	25429.1	25056.8
Psm11	0.826023	3.60E-05	117.75	AQS(0.826)LLS(0.167)T(0.007)DR	2	0.087451	45041.5	45229.1
Dennd4a	0.685224	2.77E-25	70.452	EGSQET(0.001)LAHS(0.175)S(0.68	4	0.66266	4646.1	4617.4
Prx	0.534908	3.19E-16	58.924	GAGEAGLLPALDLS(0.463)IPQLS(0.	4	0.30558	20537.9	21896.6
Camsap3	1	1.71E-12	69.485	HPLLS(1)PGGPQS(1)PLR	3	-1.7298	11162.8	12117.6
Dyrk1b	0.999918	0.000729101	107.29	IYQY(1)IQSR	3	0.46056	23828.5	24706.9
Ranbp2	0.813634	0.00190214	89.827	HS(0.089)T(0.814)PS(0.087)PT(0.C	2	0.24385	29682.2	29695.7
Ptpn13	0.998533	7.53E-20	63.979	ACFASLIQAS(0.999)QEEKPVKEEAT	4	0.090714	15153.0	14322.4
Brsk1	0.99978	1.99E-22	85.166	S(1)PVFSFSPEPGVGDEAR	2	-0.83575	29169.4	29953.5
RGD13099	1	3.94E-20	73.461	GPDS(1)PLLQRPQHLLIDQGMQR	4	0.55988	50593.5	45803.9
Vim	0.962949	3.89E-104	207.79	QVQS(0.037)LT(0.963)CEVDALK	2	-1.3363	127783.7	125805.2

42961.5	41338.7	47971.4	41720.0	-0.1	0.6	54
13197.3	12375.6	11762.6	12724.0	-0.1	0.4	586
15155.2	14274.2	15963.4	15231.0	-0.1	0.4	242
32261.8	27981.9	28942.1	31542.0	-0.1	0.5	204;204
20216.5	20804.6	19633.1	18533.0	-0.1	0.3	231
30498.8	30838.5	28932.5	29228.0	-0.1	0.5	297
95974.3	98440.9	108691.8	91012.0	-0.1	0.6	428;428
19036.9	20856.3	18459.8	19476.0	-0.1	0.5	39
12867.3	12337.1	13472.4	12898.0	-0.1	0.3	2134
22065.8	21970.6	22132.7	20648.0	-0.1	0.2	168
34853.2	35339.5	35186.2	37775.0	-0.1	0.5	139
11113.8	10733.4	10272.8	10851.0	-0.1	0.2	385
12421.2	11484.7	11624.7	12763.0	-0.1	0.4	106
32538.7	32102.3	30758.8	33967.0	-0.1	0.3	68
185652.3	192152.0	182695.4	193770.0	-0.1	0.3	557
163433.2	152817.4	151352.0	157680.0	-0.1	0.2	405
69980.0	91296.7	73206.4	68087.0	-0.1	0.8	1145
10775.2	10290.7	10150.7	10007.0	-0.1	0.1	2889;2775;2746
33876.9	31276.3	31012.0	33815.0	-0.1	0.4	81
119048.3	117948.7	118811.8	117820.0	-0.1	0.1	467
16592.4	15093.6	14245.0	15936.0	-0.1	0.5	8
4434.8	4034.2	4443.1	3815.6	-0.1	0.6	438
22327.7	21392.0	22301.5	20815.0	-0.1	0.2	648
21690.0	23810.8	24328.7	21498.0	-0.1	0.6	1349
46698.4	44935.6	42742.5	44475.0	-0.1	0.1	92
3977.3	4301.9	3982.9	4490.3	-0.1	0.6	1304
20680.7	18433.1	22030.1	20433.0	-0.1	0.5	935;935
12362.6	11739.9	10636.0	12014.0	-0.1	0.5	362;363
22185.0	22131.2	23134.0	22969.0	-0.1	0.4	273
27844.6	27621.1	28011.3	28524.0	-0.1	0.2	779
15816.3	13936.5	15001.6	14762.0	-0.1	0.4	2110
29432.0	27277.9	28926.1	29239.0	-0.1	0.2	360
44892.8	47784.4	44963.2	43578.0	-0.1	0.5	2054
135017.9	119994.6	131592.8	123370.0	-0.1	0.4	327

Sept8	1	0.017031	47.037	IS(1)NAEPEPR	2	2.8499	6187.6	5722.7
Prkd1	0.694808	3.16E-38	78.913	TASAEFST(0.001)S(0.002)APDEPLL	3	2.6981	6088.2	6728.0
Usp20	0.999847	1.28E-10	64.224	LSEQDS(1)PPPCHPLK	4	-0.20103	21971.5	22060.1
Ccdc186	0.939248	9.43E-20	62.213	S(0.028)S(0.028)AEDRS(0.939)PEN	4	-1.3699	14534.0	13630.3
Vcpip1	0.881717	5.34E-21	130.47	DGPS(0.11)S(0.882)APAT(0.008)P	2	-0.20513	97778.2	90653.4
Wnk1	0.999976	3.45E-48	118.54	GGEDGS(0.004)GS(0.996)PHS(1)P	4	-0.70992	135226.0	136554.9
Dst	0.561852	1.31E-32	97.713	S(0.431)GS(0.562)AS(0.007)PAPGI	3	-0.44134	5621.3	7647.3
Nefm	1	0.00201544	103.63	QLS(1)DIEER	2	0.59401	20059.7	17161.2
Pdcd2l	1	1.48E-08	94.287	RIS(1)VCQGQILR	3	-0.36301	5095.7	4789.6
Nefh	0.999367	6.65E-48	116.74	SPA EAKS(0.999)PAS(0.001)VK	4	-0.42885	753570.7	759295.4
Nek4	1	4.43E-06	125.42	SQLQES(1)PPR	2	0.31951	100974.6	101825.5
Nefl	0.998127	1.26E-122	175.46	AFPAYYTSHVQEEQS(0.998)EVEET(	4	-0.086683	554631.7	497461.8
Dusp15	0.665374	6.88E-06	58.079	IS(0.05)VS(0.285)DT(0.665)PEVPIK	3	-0.16402	8015.6	9286.3
Bsdc1	0.728155	1.64E-31	86.918	ADQS(0.272)IS(0.728)E EPGWEEEE	3	-0.37853	13873.2	12264.6
Cand1	0.846563	1.14E-26	82.59	VIRPLDQPS(0.027)S(0.063)FDAT(0	3	-1.3055	67811.0	67396.6
Prph	0.892973	6.11E-14	107.6	LLGSGS(0.003)PS(0.025)S(0.893)S	2	-0.71172	19689.9	16465.8
Ehd3	0.996281	3.70E-05	70.438	S(0.004)KLPNS(0.996)VLGK	3	1.1274	9041.0	10398.4
Dennd1a	0.910261	8.47E-05	66.267	T(0.09)IPS(0.91)PLAEAK	3	0.49291	9442.6	9424.3
C5ar1	0.995576	6.97E-21	107.98	NVLSEDS(0.004)LGRDS(0.996)K	3	-0.38043	22046.7	21376.7
Prrc2a	0.781121	6.25E-17	57.15	S(0.071)ET(0.781)PPVPPPPPY(0.1	4	-0.62963	17582.5	20042.8
Prkacb	0.816345	2.80E-14	69.088	T(0.183)WT(0.816)LCGT(0.001)PE	3	2.9966	41272.7	40413.6
Lmna	0.877652	4.79E-10	66.893	S(0.001)GAQAS(0.018)S(0.06)T(0.	2	1.2316	14652.1	15045.3
Rims2	0.999817	6.20E-06	110.44	QLHGES(1)PTR	3	0.5548	21401.4	20356.5
Ulk2	0.70231	1.33E-25	69.578	VCVGS(0.001)PPAPGFGS(0.297)S(	3	0.40156	8759.0	8944.7
Reps1	0.952197	3.41E-64	114.68	S(0.002)HS(0.038)GAS(0.952)PDN	4	-0.14262	30865.4	31978.4
Dbn1	0.956309	8.52E-188	218.25	ASDSGPSSSSS(0.001)S(0.001)S(0.C	3	-0.11873	26633.7	26360.0
Zfyve27	0.999934	6.94E-05	58.268	YHS(1)VRQEDLQR	3	-0.9272	14192.9	15260.3
Arhgap20	0.991993	0.000129513	86.772	S(0.992)APS(0.008)LILDK	2	1.4626	19440.7	17795.2
Lima1	0.912786	7.29E-49	91.603	GWSEPEPEQSEFFGGGT(0.001)VT(	4	0.39238	6197.5	7002.0
Mdm1	0.592487	2.06E-06	57.973	RRPS(0.407)S(0.592)QDGLET(0.00	3	1.1636	32248.9	28839.0
Cnp	0.827767	0.00185496	98.009	MS(0.086)S(0.828)S(0.086)GAK	2	-0.40897	159723.6	176559.4
RGD15598	0.99837	3.52E-72	105.49	S(0.998)QMEFS(0.002)ISSLSVQEP	4	0.63175	8183.8	9137.1
Mon1a	0.582491	1.76E-104	140.38	AES(0.405)PT(0.582)PGLT(0.012)C	3	0.54438	6465.3	6480.9
Smarca5	0.999526	0.00214716	61.415	QNLLS(1)VGDYR	2	-1.4035	40798.0	40040.7

5477.1	5273.8	5430.0	6073.1	-0.1	0.6	10
7056.9	5686.4	6542.8	6946.4	-0.1	0.6	234
18253.3	20344.9	19825.5	19929.0	-0.1	0.6	94
13862.7	13230.3	13791.9	13531.0	-0.1	0.2	764
85682.4	85933.3	92584.1	85997.0	-0.1	0.5	756
140500.8	131896.2	135984.9	129970.0	-0.1	0.1	2275
6877.4	6535.0	6586.1	6320.1	-0.1	0.7	168
17794.4	16611.6	19981.5	16498.0	-0.1	0.7	344
4484.2	4778.0	4581.4	4507.5	-0.1	0.4	260
803581.1	758312.2	721901.0	755230.0	-0.1	0.2	616
99723.9	98279.2	96992.3	96674.0	-0.1	0.0	509
554178.1	508313.4	506163.2	535630.0	-0.1	0.4	453
9295.1	8187.9	9227.1	8252.1	-0.1	0.6	58
12674.6	11541.9	13721.4	12193.0	-0.1	0.6	216
67594.1	60307.5	70546.5	64865.0	-0.1	0.5	562
17262.1	17448.7	17608.0	16496.0	-0.1	0.6	59
8668.4	9361.2	9300.2	8465.1	-0.1	0.6	409
10153.5	9407.5	9104.2	9495.7	-0.1	0.3	474;481
22162.7	22438.1	20010.4	20849.0	-0.1	0.4	334
20637.0	18293.4	19551.9	18384.0	-0.1	0.5	826
35239.6	36758.5	39520.6	36567.0	-0.1	0.6	198;190
13691.3	15193.7	13396.5	13285.0	-0.1	0.5	19
19750.2	19565.0	19451.5	20347.0	-0.1	0.3	702
8184.6	8316.4	8203.8	8465.7	-0.1	0.3	735
34073.9	30396.3	31727.0	31416.0	-0.1	0.3	540;235
23674.4	24188.1	24556.4	25252.0	-0.1	0.4	342;342
14648.4	13812.2	14316.6	14436.0	-0.1	0.2	129
17445.2	16906.4	17942.5	17927.0	-0.1	0.4	46
6826.2	6468.2	6672.3	6187.6	-0.1	0.5	636
29237.2	27866.4	28451.6	30861.0	-0.1	0.5	556
149156.3	149407.5	160253.8	158870.0	-0.1	0.6	23
9092.0	8669.1	8684.0	8140.0	-0.1	0.4	124
6895.8	6814.4	6001.2	6335.5	-0.1	0.4	33
41156.9	38094.9	39124.1	40530.0	-0.1	0.1	136

Map7d1	0.948167	1.31E-06	83.204	ES(0.006)PS(0.948)PS(0.045)GPED	2	-0.051598	20974.5	21001.5
Frmd8	0.994583	2.40E-07	126.33	SSVS(0.005)S(0.995)VGAR	2	-0.99836	66408.4	68020.8
Tanc1	0.603356	2.39E-14	109.1	QIAS(0.041)S(0.326)S(0.603)PS(0.1	2	-0.91954	20840.9	20974.1
Palmd	0.999406	9.02E-16	66.545	HS(0.999)PLGVPGAGDGT(0.001)E	3	2.2723	8806.7	8787.5
Cpd	0.882605	9.58E-43	92.463	SLLSHEFQDET(0.883)DT(0.107)EEI	4	0.75136	6386.4	5492.0
Zfp318	0.633283	1.72E-09	60.352	S(0.06)KS(0.633)PEKELS(0.93)PS(0	4	1.4181	10787.3	9421.3
Zfp318	0.929952	1.72E-09	60.352	S(0.06)KS(0.633)PEKELS(0.93)PS(0	4	1.4181	10787.3	9421.3
Nagk	0.993891	7.06E-41	128.1	SLGLS(0.006)LS(0.994)GGEQEDAV	3	0.057244	74645.0	73979.2
Rbm15b	0.999059	2.79E-05	107.34	RNS(0.999)LEGYS(0.001)R	2	1.8777	15925.8	14592.3
Slc16a7	0.692953	0.00161392	66.504	S(0.693)AS(0.307)QASK	3	0.87284	10545.3	10693.6
MAST1	0.930653	1.61E-60	155.11	DS(0.03)S(0.931)PS(0.039)RDYSPA	3	0.75067	24491.7	26362.2
Myo9b	0.924885	8.49E-23	92.034	VQDKPES(0.925)PS(0.075)GSTQIQ	4	-0.17024	92989.6	96125.9
Fbln2	0.816424	0.00642219	42.3	RVS(0.816)ET(0.18)EMGS(0.004)R	3	-0.90203	18931.4	17208.4
Tusc5	0.716787	6.11E-21	80.585	AS(0.064)S(0.086)VVT(0.717)T(0.1	2	-1.3993	11485.3	10951.2
Utrn	0.821152	7.36E-27	82.177	TMNDLSSQLS(0.178)PLDLHPS(0.8:	3	-0.16391	18676.2	17613.2
Slc25a46	0.621291	3.77E-89	105.57	NLHWGEKS(0.159)PS(0.621)Y(0.0(	6	0.21021	5279.9	5509.6
Apba1	0.618594	2.96E-32	81.144	S(0.002)AS(0.033)T(0.154)ES(0.15	2	0.35998	3968.3	3372.6
Depdc5	0.627578	4.82E-32	91.541	TQKPSTTVPPPLS(0.091)S(0.271)S(	4	0.80619	27529.4	27471.1
Spry4	0.993357	1.06E-21	78.456	LLDHMAPPPVT(0.007)EQAS(0.993	3	-0.25784	5111.2	5729.8
Pitpnm1	0.993077	8.30E-20	63.701	CNTGS(0.001)EGPEAQT(0.993)PGI	4	1.2929	5457.1	5708.5
Hspa4	1	7.65E-12	102.73	AFS(1)DPFVEAEK	3	2.0871	32585.2	31902.7
LOC10029	0.999977	2.47E-24	97.69	ILDATDQES(1)LELKPTR	3	0.14632	25309.9	27926.4
Clcn2	0.950188	5.86E-06	42.639	AQMS(0.006)PPS(0.029)DQES(0.9	3	1.0933	5575.7	5713.5
Srrm2	0.90008	4.70E-35	156.73	HSLS(0.004)GS(0.096)S(0.9)PGIK	2	0.016456	74647.4	77532.1
Rims1	0.523173	2.53E-06	47.942	SAST(0.001)NCLRPDT(0.047)S(0.5:	4	0.74103	7913.8	7469.7
Eml1	0.84521	2.51E-14	114.64	TGS(0.09)T(0.761)S(0.151)S(0.845	3	0.12634	98054.9	88623.0
LOC10255	0.966251	1.48E-30	66.025	GS(0.966)PAVS(0.027)GVS(0.006),	4	1.2794	23980.0	26322.7
Arhgap5	0.5	9.25E-12	62.469	GGIDNPAIT(0.5)S(0.5)DQEVDDK	3	-0.37717	20180.1	21553.3
Hdac2	1	7.31E-80	104.81	MLPHAPGVQMMAIPEDAVHEDS(1)	6	-0.14751	549908.7	545868.7
Mdn1	1	1.05E-06	53.603	HQGEEEDS(1)EPEDVEQGQEK	3	0.51451	6262.4	7244.0
Pik3r5	0.516538	2.23E-18	75.686	AGS(0.353)LS(0.517)S(0.131)PLDF	3	1.2791	7376.1	7276.4
Nlgn3	1	4.89E-22	143.56	QEPLRQPS(1)PQR	3	0.14064	13944.8	13719.1
Ralgapa1	0.960554	5.82E-21	104.24	QKT(0.039)VDIDDS(0.961)QILPR	4	-0.58572	26464.4	24184.8
Ablim2	0.592525	1.00E-11	70.802	RLDVEDS(0.593)S(0.399)FDQDS(0	2	-0.50245	11297.8	11035.0

22620.4	20352.6	20135.4	21862.0	-0.1	0.4	487
70042.8	61109.4	70779.5	65474.0	-0.1	0.5	24
20172.8	18638.8	20539.3	20655.0	-0.1	0.4	441
8524.9	7717.1	8729.9	8764.5	-0.1	0.4	520
5841.4	5313.0	5789.1	6002.1	-0.1	0.6	1366
7785.6	9010.2	9153.8	8857.9	-0.1	0.7	1027
7785.6	9010.2	9153.8	8857.9	-0.1	0.7	1033
75145.6	67896.1	73772.8	74329.0	-0.1	0.3	76
14659.1	14113.6	15054.0	14441.0	-0.1	0.4	559
10217.6	10512.8	10025.3	9826.3	-0.1	0.2	450
21119.3	23694.2	23374.4	22406.0	-0.1	0.6	954
96900.5	90726.9	90960.8	94401.0	-0.1	0.1	1266
18475.8	16409.2	17942.5	18370.0	-0.1	0.5	568
9022.2	10353.3	10086.7	9927.8	-0.1	0.7	88
18368.3	16750.2	19015.4	16997.0	-0.1	0.5	2754
4667.9	5061.2	5240.7	4619.6	-0.1	0.6	63
4214.2	3245.1	3666.8	4242.7	-0.1	0.7	92
30410.4	25306.8	27956.8	29189.0	-0.1	0.5	710
5687.3	5128.3	5281.2	5546.8	-0.1	0.5	126
5866.8	5474.5	5602.7	5365.8	-0.1	0.2	270
30215.6	29051.0	30599.5	31777.0	-0.1	0.4	76
25554.6	24133.1	25880.4	26053.0	-0.1	0.4	978
4781.5	5583.9	4791.3	5140.0	-0.1	0.6	671
78089.4	73786.4	73303.6	75220.0	-0.1	0.1	1422
9077.8	7613.9	7450.9	8551.0	-0.1	0.7	1075
80468.8	84927.9	88683.6	84303.0	-0.1	0.6	131
25610.0	25420.1	23045.3	24825.0	-0.1	0.4	69
22718.4	20306.4	19946.2	21973.0	-0.1	0.5	1217
550569.0	521622.9	514434.5	553440.0	-0.1	0.2	394
7330.3	6770.5	6231.0	7116.5	-0.1	0.6	4628
8137.8	7643.4	7559.8	6801.2	-0.1	0.5	454
13585.9	14710.9	12868.6	12248.0	-0.1	0.6	705
24321.7	24298.1	22647.8	25440.0	-0.1	0.5	759
11747.3	10084.0	11442.0	11379.0	-0.1	0.5	452;515



Egfr	0.999877	1.55E-48	119.46	ELVEPLT(1)PSGEAPNQAHLR	3	-0.34022	15568.0	16311.1
Hdac5	0.998277	0.000138499	95.09	KT(0.002)AS(0.998)EPNLK	2	-0.51717	100146.9	102273.0
Braf	0.924705	1.87E-09	95.197	KS(0.041)S(0.925)S(0.027)S(0.006	3	-0.35786	21688.9	17833.6
Nasp	1	0.0059339	61.344	KPEEES(1)PR	2	0.71942	25622.3	22397.9
Matr3	0.892041	2.38E-16	68.074	RDS(0.077)FDDRGPS(0.892)LNPVL	2	0.40743	18394.7	18009.1
Add3	0.559286	3.86E-12	59.893	TAGPQSQLLAGIVVDKPPS(0.441)T(	4	0.25969	8816.0	8785.6
Hdac4	0.848804	3.44E-105	140.49	T(0.151)QS(0.849)APLPQNAQALQ	4	-0.52634	36819.2	31919.1
Spire1	0.713634	2.35E-21	104.35	S(0.714)VDKS(0.286)DEELQFPK	4	0.13176	25458.9	25059.0
Nefh	1	1.20E-36	106.93	S(1)PGEAKS(1)PAEAK	3	-0.034272	2656932.1	2640822.5
Prx	1	0.00120615	49.3	VS(1)EVKLPK	3	0.48482	20812.3	19598.6
Hirip3	0.99783	0.00371243	44.829	T(0.002)LDS(0.998)DEERPR	3	0.90553	8708.0	8069.0
Phlpp1	0.741762	1.38E-07	45.579	VNPAPS(0.026)DS(0.232)S(0.742)I	3	0.17445	7113.1	7161.9
Ccne1	0.991902	5.76E-58	104.18	AILSEQNRIS(0.004)PPPS(0.004)GV	4	0.21245	11241.0	11551.6
LOC10368	0.998364	1.72E-27	101.92	S(0.001)HKDDS(0.998)EIDFS(0.001	5	-0.10748	50682.9	49406.1
Ankrd17	0.691723	0.00374198	57.174	NNT(0.001)IT(0.006)T(0.045)T(0.6	2	-0.22939	11792.5	12655.1
Nemf	0.71224	7.38E-11	52.465	TQADPEDIAAHS(0.712)GREELS(0.7	4	1.6752	17682.7	17281.9
Tra2b	0.997834	0.000177421	109.15	S(0.002)PS(0.998)PYYSR	2	0.39201	136037.0	150749.0
Ap1ar	0.989211	1.49E-29	80.994	YHPS(0.004)S(0.007)GDCQS(0.989	3	-0.61312	24981.9	23171.2
Gas2l1	0.942856	1.63E-14	65.207	GSPTPS(0.001)PRPGS(0.943)PVPG	3	1.6858	52612.7	56449.4
Akap9	0.821882	5.56E-22	123.95	S(0.023)LS(0.155)PDS(0.822)EHAA	3	0.22727	62501.2	62143.5
Cd2ap	0.934509	1.45E-09	76.145	FNGGHS(0.719)PT(0.346)QS(0.939	3	-0.52288	32061.6	33485.5
Dlgap4	0.757705	1.66E-05	49.592	KLS(0.758)S(0.242)IGIQVDCIQPVP	3	0.47424	8017.8	6687.2
Anks1a	0.783733	3.65E-10	82.529	S(0.175)PS(0.784)FAS(0.042)EWD	2	-0.61851	8522.6	7267.1
Nfkb1	0.742598	3.23E-55	135.54	KLS(0.743)FS(0.248)ES(0.009)LTGI	4	-0.9068	6563.1	6617.0
RGD13072	0.857794	1.17E-83	188.9	AGS(0.115)IS(0.858)T(0.027)LDSL	3	-1.4082	83126.2	81064.2
Cxc1	0.999904	0.00267029	86.136	GSAS(1)PHK	3	-0.12284	56319.5	53200.4
Fgf13	0.679318	0.0123333	62.166	S(0.679)GS(0.094)GT(0.19)PT(0.09	2	-0.31926	17840.1	20367.5
Rnf169	0.987915	1.14E-06	84.365	CLS(0.988)APDLT(0.012)IEK	2	-1.4789	14093.9	13559.0
Farsa	0.895094	1.20E-09	75.018	T(0.104)HS(0.895)QGGY(0.001)GS	3	0.35346	16431.5	15614.6
Ice1	0.934168	2.79E-07	54.004	T(0.043)LS(0.934)PLVPS(0.017)S(C	3	1.2157	5492.9	6097.6
Dclk1	0.795334	3.32E-77	111.9	VCS(0.2)S(0.795)MDENDGPGEES	3	0.11978	17949.8	18479.7
Sntb2	0.999088	5.12E-05	96.113	LVHS(0.001)GS(0.999)GCR	2	-0.48936	8465.3	9239.8
Rnmt	0.896949	8.03E-15	54.66	AS(0.022)VDS(0.897)ET(0.072)ES(I	3	0.81392	654.3	619.1
Als2	0.702907	8.00E-05	50.87	RLS(0.996)LPGLLS(0.703)QVS(0.3C	2	-0.98428	6407.1	5705.6

15970.7	15399.4	15383.1	15418.0	-0.1	0.1	694
97060.2	93325.0	100445.0	95390.0	-0.1	0.3	250;228;218
19237.0	19975.3	18286.6	18473.0	-0.1	0.6	416;404
24984.0	22860.5	22723.6	24905.0	-0.1	0.5	387
17477.2	17926.0	16746.7	17352.0	-0.1	0.2	195
9411.3	9070.8	8772.1	8239.7	-0.1	0.4	537
31842.4	32663.3	30836.8	33617.0	-0.1	0.6	444
24230.2	22376.5	25560.9	24237.0	-0.1	0.4	648
2703126.0	2487778.9	2586759.4	2651000.0	-0.1	0.1	592
19472.3	18439.7	19110.6	20273.0	-0.1	0.4	594;594
7891.3	7849.2	8230.4	7741.1	-0.1	0.4	469
6821.4	6355.7	6718.7	7297.2	-0.1	0.5	292
10815.7	11188.8	10654.8	10610.0	-0.1	0.2	396
48071.8	45187.4	49166.2	48717.0	-0.1	0.3	140
11996.4	11072.2	11772.2	12348.0	-0.1	0.4	1299
18197.9	17161.6	16621.7	17554.0	-0.1	0.2	731
121326.6	137044.0	128515.1	128550.0	-0.1	0.6	266;260
27130.3	23433.5	24804.3	24463.0	-0.1	0.5	224
49565.5	53225.9	49777.4	50185.0	-0.1	0.5	306
56440.9	57559.8	58081.9	59237.0	-0.1	0.4	3558
32155.4	30503.0	31245.0	32607.0	-0.1	0.2	514
7609.4	7249.3	7172.1	7128.8	-0.1	0.6	665
8067.8	7708.3	7308.1	8024.1	-0.1	0.6	120
5906.4	6182.5	6568.8	5681.7	-0.1	0.6	941
75527.8	73535.6	79357.5	78626.0	-0.1	0.4	182
55923.5	53576.8	51946.8	54263.0	-0.1	0.2	138
17552.8	18682.8	15829.8	19342.0	-0.1	0.7	165
15448.0	13760.5	13472.4	14395.0	-0.1	0.5	192
15048.7	14175.2	14771.9	16539.0	-0.1	0.5	301
5591.7	5744.3	5753.5	5097.5	-0.1	0.5	1607
20056.8	20829.9	17592.0	16135.0	-0.1	0.7	57
9528.5	8560.7	9087.3	8655.5	-0.1	0.4	371
620.0	545.0	624.5	659.2	-0.1	0.6	11
6203.1	5799.0	5785.9	6105.6	-0.1	0.4	483

Sept4	0.999973	1.50E-88	145.02	IYQFPDCDS(1)DEDEDFKLQDQALK	4	0.2358	595099.3	612396.6
Pkd2	0.554193	5.62E-09	54.253	DPPAGAS(0.039)AS(0.554)PS(0.40)	3	-0.35705	7963.5	7851.3
Uhrf1bp1	0.78201	1.34E-15	104.88	DS(0.204)S(0.782)AENLDAS(0.014)	2	0.3799	11230.3	9782.5
Smc3	0.999651	6.74E-96	168.03	KGDVEGSQS(1)QDEGEGSGESER	3	1.0559	28494.3	28445.2
Ndr1	0.977785	0.000446511	109.29	SHT(0.978)S(0.022)EDAR	3	0.3925	1458.8	1260.7
Alpl	0.998358	3.74E-54	99.569	TYNTNAQVPDS(0.998)AGT(0.001)	3	-0.97864	319351.9	336325.1
Sfswap	0.635267	0.0043966	59.935	MS(0.079)GS(0.635)PGVS(0.285)R	2	-0.39724	20410.3	20639.5
Gpr155	0.785971	0.00022414	45.084	EIGHAS(0.786)PPS(0.194)LS(0.02)	3	1.7126	4538.7	5495.9
Vps9d1	1	0.00178842	58.511	RVCS(1)DEGGK	2	0.21329	15483.4	15308.5
Kansl1	0.783133	3.48E-31	128.99	LS(0.783)PS(0.216)T(0.001)DSCSN	3	2.272	9526.2	10100.3
Lamtor1	0.538065	2.08E-13	111.12	LLLDPDS(0.538)NT(0.46)PT(0.002)K	2	-0.57153	57018.4	59831.2
Scyl2	0.998613	1.94E-05	99.732	RGS(0.999)LT(0.001)LEEK	2	0.47334	100371.1	98826.5
Tmcc2	0.561921	1.46E-09	85.837	ALSGSATLVS(0.562)S(0.438)PK	2	0.1512	12451.6	14755.7
Nsd1	0.908664	5.05E-12	73.138	AAS(0.909)PQEV(0.091)AQADEK	2	-0.0058356	10374.0	10834.7
Srrm2	0.960051	1.61E-32	133.52	GQSQTWPDS(0.04)S(0.96)PEVR	2	0.24546	58252.9	76270.7
Map1b	0.999956	1.78E-197	212.51	SEQSSMSIEFGQES(1)PEHSLAMDF	3	-0.53498	984497.3	1011092.2
Arel1	0.955534	2.35E-79	151.18	RPSTALEEEEEEDS(0.956)PS(0.044)E	4	1.0714	36974.3	34034.0
Atp1b3	0.999413	6.61E-05	76.073	S(0.001)FHQS(0.999)LAEWK	3	0.76494	9077.8	9807.7
Akt1	0.81978	1.11E-107	176.77	S(0.035)GS(0.149)PS(0.82)DNS(0.9	4	-0.56608	307055.3	314814.6
LOC68570	0.948688	2.42E-66	125.98	GRS(0.949)PPQT(0.045)S(0.006)CI	3	0.084829	47543.8	44285.7
Nefh	0.98499	0.00263766	62.694	IPS(0.985)MS(0.012)T(0.003)HIK	2	0.87212	45380.3	35712.3
Specc1l	0.999891	0.00072474	49.188	TPPAAAVS(1)PMQR	2	-1.2862	7317.0	7535.0
Tsen2	0.750892	3.49E-06	40.086	VYESYES(0.002)PLPIPFS(0.246)QD	4	-0.50147	2601.5	2673.3
Adcy2	1	0.00172685	72.243	S(1)PQHFRPR	3	0.071832	8901.1	10262.2
Grb2	0.927131	5.53E-05	46.892	ES(0.052)ES(0.927)APGDFS(0.019)	3	-0.2208	6766.3	6583.2
Gsk3b	0.915049	3.77E-17	135.72	GEPNVS(0.915)Y(0.085)ICSR	2	-1.3803	217604.4	224319.1
Rai1	0.998551	0.00201046	63.184	AT(0.001)HAS(0.999)PCK	3	-0.31546	13682.4	14336.7
Snip1	0.998172	1.93E-13	110.51	S(0.998)GDALAT(0.002)VVVK	2	0.33743	55329.6	55972.3
Arhgef2	0.997486	1.24E-05	76.073	LES(0.003)FES(0.997)LRGER	2	-0.30181	14655.6	13256.2
Nefh	0.999738	2.62E-49	122.79	SPAEVKS(1)PATVK	2	0.2365	2109015.1	2209076.8
Ccdc6	1	1.13E-17	132.84	LDQPVS(1)APPS(1)PR	2	-0.69493	180941.4	184896.0
Srrm1	0.981991	0.00465322	77.318	T(0.007)S(0.011)S(0.982)PPRK	3	-0.65374	100484.4	106149.5
Hipk3	0.768252	1.61E-07	99.732	T(0.001)VCS(0.05)T(0.768)Y(0.181)	2	-0.74851	14859.6	14418.9
Fbxl4	0.5	1.90E-12	97.904	T(0.5)S(0.5)PLNAEVVQYAK	3	-0.089622	5195.4	5923.7

557510.4	552564.8	567685.0	584500.0	-0.1	0.3	655
8314.7	7662.2	7278.3	8365.4	-0.1	0.5	70
10660.3	10800.9	9686.2	10105.0	-0.1	0.5	935
30502.0	27536.4	28298.8	28623.0	-0.1	0.3	1067
1261.3	1234.0	1399.4	1211.5	-0.1	0.6	366
297737.8	269457.1	283757.0	367710.0	-0.1	0.8	110
20363.4	20276.7	20303.2	18741.0	-0.1	0.3	677
5523.6	5150.1	5243.1	4634.9	-0.1	0.7	860
14939.1	14474.4	14584.9	15114.0	0.0	0.1	115
10244.8	9860.6	9748.1	9245.2	0.0	0.3	249
59332.5	57785.3	53967.6	58429.0	0.0	0.3	26
99173.5	94635.0	96420.5	97157.0	0.0	0.0	677
12765.1	13051.0	12180.4	13380.0	0.0	0.6	408
11114.9	9648.4	10175.6	11400.0	0.0	0.5	2117
70253.6	71758.1	60948.0	65108.0	0.0	0.7	1040
1035013.0	954831.0	979422.8	993390.0	0.0	0.1	1646;1520
35598.4	34459.5	32995.4	35530.0	0.0	0.3	327
9828.0	8688.8	9297.4	9752.2	0.0	0.5	12
282609.2	268005.2	328287.4	277480.0	0.0	0.7	126
44770.3	41870.0	44147.8	45947.0	0.0	0.4	139
35240.7	35646.4	38130.3	38610.0	0.0	0.7	431;431
7082.0	6894.5	7367.6	6928.2	0.0	0.3	882
2239.8	2499.9	2148.4	2611.5	0.0	0.7	32
9084.2	9284.8	9510.2	8494.9	0.0	0.6	471
6312.9	5943.4	6892.3	6160.2	0.0	0.5	90
206753.5	208145.4	209700.0	208850.0	0.0	0.2	215;285
12868.3	12899.2	13503.4	13101.0	0.0	0.4	1521
51740.5	53381.0	51282.1	52862.0	0.0	0.3	18
13466.7	13029.0	13472.4	13477.0	0.0	0.4	842
2286318.7	2179680.1	2043460.9	2157900.0	0.0	0.3	580;580
186163.3	174035.6	176753.7	182550.0	0.0	0.1	218
97206.1	96239.9	96881.1	100450.0	0.0	0.3	295
12054.9	13529.5	12945.6	13462.0	0.0	0.6	358
4524.9	5169.2	4744.0	5202.5	0.0	0.7	45

Fbxl4	0.5	1.90E-12	97.904	T(0.5)S(0.5)PLNAEVVQYAK	3	-0.089622	5195.4	5923.7
Plekha6	0.99981	2.75E-05	89.189	HQSGS(1)MKEK	4	-0.20013	55491.8	50950.6
Tmem176l	0.988102	9.40E-30	117.65	LLGGDS(0.058)APAS(0.988)PT(0.9	2	-1.2618	1009996.8	1056186.4
Hspb1	0.998902	1.73E-05	121.64	S(0.001)PS(0.999)WEPFR	1	-0.78019	490489.4	484726.7
Specc1	0.796346	7.09E-24	97.384	KLGS(0.13)S(0.796)PT(0.034)S(0.0	3	0.79556	53596.6	60707.7
Usp10	0.926566	1.04E-42	79.304	APS(0.927)YS(0.072)IS(0.001)S(0.0	3	-0.8385	24359.3	22113.8
Cacna1b	1	5.23E-10	82.942	FVDLCAAGS(1)PFAR	2	2.6491	17849.6	16938.6
Tox2	0.960592	5.62E-15	77.871	ASLVS(0.039)KS(0.961)PPDQGEAK	3	0.26558	36834.7	37001.1
Srrm2	0.85305	6.70E-10	118.9	REIS(0.629)S(0.403)S(0.853)PT(0.0	2	0.22541	211629.0	206812.3
Bag6	0.805371	2.70E-05	53.255	AAGARPLT(0.172)S(0.805)PES(0.0	2	1.2222	8550.0	9667.8
Atp1a1	0.996411	3.21E-24	94.632	EVS(0.004)MDDHKLS(0.996)LDELH	5	1.6085	15373.6	15468.7
Aff4	0.737225	4.30E-05	94.122	T(0.012)VS(0.737)QS(0.243)S(0.00	2	-0.41944	16871.6	15141.8
Map4k4	0.549039	0.000635078	40.857	AAS(0.003)S(0.007)LNLS(0.388)NC	3	0.582	37774.5	38632.2
Rac3	1	0.00138971	48.527	GLKT(1)VFDEAIR	3	0.42028	4943.3	5697.7
Nefm	0.652146	4.67E-17	135.04	GSPSTVS(0.652)S(0.174)S(0.174)Y	2	0.52292	28594.5	27861.6
Fgd2	0.939454	1.81E-06	50.202	S(0.008)CQPGAS(0.939)PGPET(0.0	3	0.41111	3027.5	2886.2
Pkm	1	0.00478106	90.906	S(1)AHQVAR	2	-0.76484	5584.8	6603.9
Scaf4	0.940259	3.12E-54	98.21	KPENEVAQNGGAEAS(0.011)HT(0.0	5	-0.028863	39310.7	37593.5
Dock7	0.844369	0.00645431	89.047	MNS(0.156)LT(0.844)FK	2	-1.0295	76694.1	73446.1
Ablim3	0.500953	6.83E-06	44.683	RT(0.458)S(0.501)ET(0.242)S(0.09	3	-0.68015	12648.4	12829.5
Syt6	0.840183	1.78E-105	145.03	QMHVS(0.16)S(0.84)VDYGNELPPA	4	-0.37153	42789.8	44019.2
Ranbp2	0.789305	1.11E-05	78.814	QAPVS(0.209)S(0.789)PAS(0.002)I	3	-0.0753	15188.8	14946.6
Kcnq2	0.999842	0.0186051	71.425	SWS(1)FGDR	2	0.1204	9797.5	9668.1
Aldoc	0.969559	1.17E-20	101.53	GILAADES(0.03)VGS(0.97)MAK	3	-0.32473	60913.7	57799.7
Ppp1r37	0.908499	9.47E-07	52.898	RVT(0.025)FPS(0.908)DEDIVS(0.00	3	-2.0392	21446.8	20490.4
Lsm11	0.825349	1.20E-05	77.72	S(0.825)VPS(0.058)S(0.116)LQAS(I	2	-0.31724	11198.9	12307.4
Mical1	0.998622	2.30E-05	95.417	KKS(0.999)DET(0.001)DAR	3	-0.26314	79587.5	84910.0
Tex2	0.9633	0.0186744	58.172	S(0.001)SGVS(0.036)GS(0.963)K	2	1.241	15590.7	14647.1
Ap3s1	0.999981	0.00027273	81.918	SETFIFQS(1)PR	2	0.35792	11316.3	11856.6
Fam169a	0.992378	3.29E-07	77.062	GHT(0.001)EENLS(0.992)PVS(0.00	3	-0.17138	12340.7	12906.3
Ncor2	0.999992	6.78E-16	63.869	LEPVS(1)PPS(1)PPHADPELELTPSR	4	0.15451	35095.8	37203.0
Cotl1	0.757499	2.87E-06	67.234	DDGS(0.242)S(0.757)VIWVTFK	3	-0.84575	4261.4	4445.0
Dock11	0.915355	2.26E-06	60.541	DEFPCGFVS(0.915)PT(0.05)S(0.03	2	-0.61517	15184.0	15752.8
Flnb	0.997219	2.89E-12	67.136	APSVAT(0.003)VGS(0.997)ICDLNLI	3	-1.1389	20448.5	22901.4

4524.9	5169.2	4744.0	5202.5	0.0	0.7	44
50715.3	47303.8	50883.5	53664.0	0.0	0.5	1089;405
968206.7	983606.0	981902.1	966430.0	0.0	0.3	253
489298.8	466899.9	445763.4	502440.0	0.0	0.4	15
61525.7	57366.2	57333.8	55198.0	0.0	0.5	133
25631.3	22724.1	23350.9	23597.0	0.0	0.5	75
15873.8	16776.6	15450.5	16726.0	0.0	0.5	447;447
31873.3	36144.7	34906.2	31093.0	0.0	0.6	321
204038.6	195583.8	203191.9	202710.0	0.0	0.1	453
9980.6	8973.6	9137.3	9136.4	0.0	0.5	1095
14775.1	14038.8	15805.2	14235.0	0.0	0.4	47
16018.6	14819.8	15669.5	15923.0	0.0	0.4	803
34104.7	34578.3	36416.2	35792.0	0.0	0.5	829;859;860
5684.8	4985.9	5319.6	5470.0	0.0	0.6	80
26025.2	25536.7	27260.0	26905.0	0.0	0.4	49
3219.4	2759.8	2728.4	3337.2	0.0	0.7	94
6605.4	6014.8	5031.1	7115.1	0.0	0.8	437;541
38262.2	36751.9	36063.5	38472.0	0.0	0.2	722
81092.7	73251.8	70443.9	79749.0	0.0	0.5	1385
12060.3	10768.1	13354.8	12151.0	0.0	0.6	277
41716.9	41797.4	39517.4	42885.0	0.0	0.3	187
12939.7	13452.5	14194.8	13978.0	0.0	0.6	1507
8594.0	8978.3	8781.7	9355.4	0.0	0.5	457
55067.5	56036.3	56539.8	55358.0	0.0	0.3	39
19510.6	19427.5	20242.3	19712.0	0.0	0.3	54
12390.3	11726.7	11821.3	11142.0	0.0	0.4	252
82846.2	75260.3	83664.1	80107.0	0.0	0.4	495
15519.3	13980.5	14130.7	16109.0	0.0	0.5	720
10128.9	11136.0	10596.4	10451.0	0.0	0.5	157
12305.1	12044.6	11408.8	12838.0	0.0	0.4	510
35041.6	34801.6	35234.3	33701.0	0.0	0.2	152
3841.5	3715.3	3923.0	4488.5	0.0	0.7	23
15372.4	13168.7	15943.1	15643.0	0.0	0.6	1208
23180.4	20324.0	21660.3	22314.0	0.0	0.5	2089



Raph1	0.853236	2.07E-10	99.927	FAPPAES(0.853)GS(0.146)PS(0.00	2	-0.55658	8254.9	7868.7
Pak4	0.905375	1.80E-20	78.674	S(0.09)LVGT(0.905)PY(0.005)WM/	2	1.2571	4266.5	4542.8
Cnst	0.937052	3.80E-84	118.93	LPS(0.937)VS(0.063)DENENQLAGI	3	-0.093214	8305.1	7857.1
Spp1	0.773264	2.20E-06	42.468	T(0.004)S(0.005)HES(0.132)S(0.42	4	0.65305	10039.9	10617.9
Cap2	0.749016	7.92E-05	67.887	T(0.108)PS(0.749)PT(0.141)S(0.00	3	0.055318	65350.5	60276.6
Scn7a	0.99582	0.000219201	89.433	NRT(0.996)LS(0.004)EDDFR	3	-0.55667	32302.5	33084.0
Vamp4	0.906957	5.04E-29	121.03	S(0.017)ES(0.076)LS(0.907)DNATA	2	1.0277	11817.3	12632.1
Zdhhc5	0.677333	1.10E-17	61.612	THLSLAT(0.005)NEDS(0.15)S(0.15)	4	-1.2388	5985.7	5688.1
Hnrnp1	0.771177	2.97E-25	60.752	LKTENAGDQHGGGGGGGS(0.771)(	5	-0.33183	8584.9	8009.5
Mtdh	0.991446	1.53E-38	130.27	LS(0.001)S(0.008)QLS(0.991)AGEE	2	-0.2419	65695.2	58035.6
Golgb1	0.499991	1.77E-22	94.487	EQVEDSGAES(0.5)S(0.5)PK	3	0.10027	25188.2	24729.9
Nefl	0.635945	9.35E-157	172.4	S(0.636)Y(0.012)S(0.234)S(0.031)S	5	-0.38899	1635.3	1844.8
Nefh	1	4.91E-26	141.75	S(1)PEQVKS(1)PAKEEAK	5	-0.088208	900711.5	884870.2
Nefh	0.933608	6.99E-84	116.45	GAGAASS(0.001)T(0.004)DS(0.018	3	-1.762	11938.7	12723.1
Ppm1h	0.996701	1.07E-41	154.51	RS(0.003)S(0.997)LPNGEGLQLK	3	-0.50308	114149.0	113563.6
Trim36	0.987817	1.66E-06	80.746	S(0.012)QIS(0.988)ELNLLMK	3	-0.049539	30742.5	32240.5
Agap2	0.704655	3.06E-28	107.28	LRT(0.295)DS(0.705)QS(0.001)EA\	3	0.022844	15912.7	16770.7
Ahnak2	0.999994	6.91E-33	131.25	S(1)PVHVQPTAR	3	0.23996	106292.8	104492.1
Mapt	1	5.43E-17	95.5	VAVVRT(1)PPK	2	-0.5669	1303360.1	1279660.8
Eml1	0.783265	1.51E-58	176.99	TGS(0.025)T(0.077)S(0.783)S(0.07	2	-0.39628	62771.9	57128.4
Utrn	1	1.04E-06	88.075	DLRS(1)LEEIPR	3	-1.0347	2099.2	2414.7
Arhgap24	0.836134	2.88E-10	65.808	SSMDNGS(0.836)PT(0.162)ALS(0.(	2	0.75202	6326.0	7042.0
Inpp5j	0.499937	2.08E-20	67.827	RPIPPADGCLHTPVQAAGLAT(0.5)S	4	0.60683	65977.8	71854.5
Cntnap1	0.515709	3.57E-14	83.666	DQNLQPQILEES(0.516)RS(0.484)E	2	-0.19866	23999.1	23500.3
Phtf2	0.999982	2.36E-15	87.676	STETDNGYVS(1)LDGKR	3	1.9594	12121.2	13065.4
Ncoa5	1	0.00411232	78.816	RDS(1)RDIR	2	0.17781	13236.4	15061.7
Ablim1	1	2.88E-06	78.69	QDRQS(1)LGES(1)PR	2	0.45343	24352.1	26160.3
Vps13d	0.5	2.13E-06	83.53	GAPKPS(0.5)S(0.5)LAQK	3	0.99157	64074.3	61517.2
Vps13d	0.5	2.13E-06	83.53	GAPKPS(0.5)S(0.5)LAQK	3	0.99157	64074.3	61517.2
Ccnl1	1	5.14E-15	128.22	AEEKS(1)PVVS(1)INVK	3	0.5755	109618.0	106249.4
Dnmbp	0.77061	0.00243602	97.597	AS(0.005)S(0.771)LT(0.224)ASR	2	-0.3642	13044.3	12254.7
Srsf11	1	0.0126188	59.198	AKECS(1)VEK	2	-0.26825	22992.5	23997.2
Sh3bp5l	0.964473	0.00529272	52.126	T(0.036)VAS(0.964)DLQK	3	-0.3108	33911.5	30086.2
Srsf10	0.694512	0.000221744	48.899	NVADDT(0.305)RS(0.695)EDLR	3	0.27286	12355.0	13086.2



9724.7	7688.5	8252.1	9040.6	0.0	0.7	1025
5497.6	4689.2	4423.8	4714.0	0.0	0.7	480
8269.2	7223.2	8384.8	8004.1	0.0	0.5	34
9355.3	9796.8	9047.9	10162.0	0.0	0.5	224
55088.8	59276.8	58699.5	56680.0	0.0	0.5	309
36510.8	31617.2	33923.0	32942.0	0.0	0.5	1472
12000.6	11775.1	11025.2	12429.0	0.0	0.4	92
4970.8	4921.5	5521.6	5644.3	0.0	0.6	345
8808.8	7991.1	8096.8	8465.0	0.0	0.4	78
60760.2	59001.8	58404.6	60910.0	0.0	0.4	297
22175.4	22926.5	23208.8	23546.0	0.0	0.4	907
1839.2	1789.3	1604.7	1747.3	0.0	0.5	56
989307.9	926474.1	847028.5	908560.0	0.0	0.5	838;808
11025.4	11108.5	11336.2	12049.0	0.0	0.5	79;79
109136.4	106103.2	110401.6	109080.0	0.0	0.1	123
30653.2	30731.8	29789.5	29984.0	0.0	0.2	267
15190.3	14926.5	15095.7	16251.0	0.0	0.4	571
103231.9	100190.9	101038.1	102290.0	0.0	0.0	6031;7402
1265752.8	1285302.9	1227765.0	1207100.0	0.0	0.2	476;560
55843.7	56783.2	55577.0	57517.0	0.0	0.4	130
2192.2	1805.0	2488.2	2189.1	0.0	0.8	1010
6838.6	6441.8	5940.8	7149.7	0.0	0.6	266
67118.2	59929.1	61047.4	77142.0	0.0	0.7	258
24644.3	23362.0	22340.0	24037.0	0.0	0.2	1301
9975.9	11191.0	12166.5	10633.0	0.0	0.7	245
13232.4	13388.7	13727.8	13030.0	0.0	0.5	65
25241.6	25120.9	23396.9	24712.0	0.0	0.3	449;350
59637.0	56954.8	61175.6	60926.0	0.0	0.3	1699
59637.0	56954.8	61175.6	60926.0	0.0	0.3	1700
104634.1	98217.6	100184.3	111420.0	0.0	0.5	255
12541.5	13426.1	11428.1	11726.0	0.0	0.6	481
21741.1	22554.7	23064.5	20823.0	0.0	0.5	456
33030.5	31362.1	30707.5	31728.0	0.0	0.4	342
13000.3	12325.0	12883.6	11953.0	0.0	0.3	23

Rtn1	0.954312	2.03E-23	66.959	S(0.954)PPVAMET(0.039)AS(0.003)	3	-1.1073	9699.9	8262.3
RGD13115	0.9896	0.00215781	51.286	S(0.99)HPS(0.009)GGS(0.001)T(0.001)	2	0.4533	9936.3	10056.4
Rab11fip5	0.997066	1.03E-21	78.69	IMETSPTLLQIS(0.997)PGPS(0.002)	3	0.42625	21827.2	18871.3
Nckap5l	0.998856	3.85E-05	56.514	S(0.999)PHS(0.865)S(0.129)PT(0.001)	4	0.64418	20436.6	18723.2
Map2	0.678134	3.39E-29	118.21	AGVIQT(0.022)S(0.119)T(0.678)EF	4	-0.98465	42436.7	42080.9
Lrrfip1	0.514091	4.18E-05	48.623	APSEYGGHLNS(0.514)S(0.372)S(0.001)	3	-0.39691	4488.9	4569.0
Abhd15	0.875171	0.0385596	63.961	T(0.875)S(0.125)FLGGR	2	-1.143	7479.4	8072.6
Abcb1a	0.791536	0.00308585	79.986	DS(0.001)GS(0.208)S(0.792)LIR	2	0.081107	21220.2	19902.4
Map1a	0.990009	3.70E-21	113.33	VRGES(0.99)S(0.01)EALKAEK	3	-0.15379	140807.7	135315.4
Tmem185l	0.999908	3.35E-05	111.5	VVITQS(1)PGK	2	0.68497	34909.7	35624.5
Raph1	0.942066	2.02E-07	82.925	FAPPAES(0.052)GS(0.942)PS(0.001)	3	0.39899	12904.8	11945.4
Magi3	0.518444	1.24E-23	96.55	QPEDES(0.007)PQAFS(0.136)QS(0.001)	2	0.11017	5519.8	6605.4
Plec	0.99948	0.00172631	58.172	LRDVS(0.999)AYSK	3	-1.0424	7066.4	6669.8
Cav2	0.641155	5.16E-15	55.588	ADVQLFMADDAY(0.6)S(0.641)HH(1)	4	-0.13998	9970.1	9273.6
Cav2	0.641155	5.16E-15	55.588	ADVQLFMADDAY(0.6)S(0.641)HH(1)	4	-0.13998	9970.1	9273.6
Hivep1	0.515254	4.83E-07	43.732	S(0.515)NS(0.424)MPT(0.051)T(0.001)	3	0.31449	3765.5	4031.6
Tcea1	0.999989	3.76E-98	185.09	KEPAISSQNS(1)PEAR	3	-0.46731	214932.8	215796.1
Purg	1	5.77E-08	94.287	RAS(1)GEEQGCLD	2	-0.75971	100608.5	105650.4
Plec	0.754537	3.02E-58	139.5	GY(0.001)Y(0.005)S(0.965)PY(0.02)	3	0.4749	81903.7	85986.1
LOC10369l	0.96549	6.23E-07	65.295	NDCS(0.035)DGET(0.965)REENK	3	-0.54626	5884.2	6780.2
Hspd1	1	8.37E-05	51.771	NAGVEGS(1)LIVEK	3	0.9797	3722.1	4301.9
Akt1s1	0.999819	7.18E-15	116.51	S(1)LPVSVPVWAFK	3	0.14112	15792.3	13871.6
Sh3pxd2a	1	0.0138566	70.028	QHS(1)REEK	2	-2.8408	88130.7	82282.9
Wnk1	0.995516	5.66E-41	110.91	GGEDGS(0.004)GS(0.996)PHS(1)P	4	-0.70992	86017.2	86425.9
Uvrag	0.99769	3.46E-41	110.97	GADVGLST(0.002)GVPS(0.998)PDI	3	0.29091	62466.6	57631.9
Ahnak	0.606044	3.86E-59	98.151	GFGVDTETPNLEGT(0.015)LT(0.215)	4	0.78498	8879.3	7541.6
Bmpr2	0.5	8.74E-06	52.527	LNINS(0.5)S(0.5)PDEHEPLLR	3	-0.38648	22417.6	22461.5
Bmpr2	0.5	8.74E-06	52.527	LNINS(0.5)S(0.5)PDEHEPLLR	3	-0.38648	22417.6	22461.5
Prkcg	0.999102	3.19E-95	164.18	T(0.999)FCGT(0.001)PDYIAPETIAYC	3	1.724	585772.6	599716.2
Fnip1	0.672732	1.95E-11	57.662	S(0.226)AS(0.673)LS(0.091)S(0.01)	3	-0.1967	3779.1	4129.8
Map1a	0.99148	2.25E-105	144.56	AEEEMEET(0.009)HPS(0.991)DEE	4	-0.28747	296869.8	291428.3
Sptbn1	1	6.98E-05	66.246	EIGQS(1)VDEVEK	2	-0.23104	35454.8	31761.2
Per1	0.814942	0.000145579	48.053	KEPVVGGT(0.185)LS(0.815)PLALA	3	-2.2015	6388.1	6319.3
Cxcr4	0.998784	9.01E-10	99.344	SSAQHALNS(0.999)MS(0.001)R	2	0.37031	24046.8	25627.2

10585.4	8879.9	8170.5	10547.0	0.0	0.8	68
11115.9	10294.5	9380.7	10398.0	0.0	0.5	321
18623.8	19258.1	19238.8	18851.0	0.0	0.6	1210;643
19204.0	19655.2	18363.6	18403.0	0.0	0.4	804
46440.7	40752.4	41124.6	44725.0	0.0	0.5	557;471
4366.0	4108.2	4973.9	3895.2	0.0	0.7	243
7957.9	8287.8	7229.9	7210.3	0.0	0.5	424
20020.6	16537.9	19826.6	22746.0	0.0	0.7	653
131525.9	133689.1	130214.3	130200.0	0.0	0.2	622
34067.5	37890.3	31288.8	31947.0	0.0	0.6	333
14711.2	12016.0	12350.3	13881.0	0.0	0.7	1027
5460.0	6051.0	5251.9	5698.4	0.0	0.7	831
6403.0	6731.2	6414.3	6325.0	0.0	0.4	4569;4455;4426
11452.4	9673.0	9736.0	10268.0	0.0	0.6	20
11452.4	9673.0	9736.0	10268.0	0.0	0.6	23
3365.2	3893.7	3329.1	3569.0	0.0	0.7	834
207903.3	204581.5	206483.4	206380.0	0.0	0.1	65
97684.1	97338.7	101307.4	95215.0	0.0	0.3	343
83575.5	80743.6	80652.7	81728.0	0.0	0.1	4625;4511;4482
7234.7	6409.2	6534.1	6295.9	0.0	0.6	65
4363.5	4187.8	3990.2	3798.8	0.0	0.6	488
16047.3	14397.4	14949.3	14849.0	0.0	0.5	184
84684.8	76330.6	85440.2	84873.0	0.0	0.5	215
88951.9	83015.1	89401.7	80316.0	0.0	0.4	2272
62642.5	54443.6	61983.5	60264.0	0.0	0.5	497
8287.2	7086.1	8823.2	7980.9	0.0	0.7	560
21471.7	22347.9	22268.4	19539.0	0.0	0.5	862
21471.7	22347.9	22268.4	19539.0	0.0	0.5	863
578451.9	584419.6	547444.9	573710.0	0.0	0.2	463
4661.1	3804.8	4701.7	3647.8	0.0	0.8	261
329006.3	288068.4	278135.9	320790.0	0.0	0.6	904
35212.0	31413.7	34844.2	32786.0	0.0	0.5	2035
6782.6	5786.2	6560.7	6499.4	0.0	0.5	703
24822.1	24328.9	22713.0	24996.0	0.0	0.4	316

Polr3c	0.866699	1.17E-06	86.944	S(0.867)S(0.133)DEDAAGEPK	2	0.051845	43028.3	44252.8
Tjp2	0.999968	1.20E-41	125.23	VQVAPLQGS(1)PPLSHDDR	3	-0.6051	174763.3	178917.8
RGD13055	0.788436	0.0031197	60.937	APS(0.012)S(0.042)LS(0.158)APS(C	2	0.71691	15731.4	14501.2
Lrba	0.972795	5.82E-08	59.372	LDVS(0.004)S(0.011)VAS(0.973)D1	3	1.1351	6251.5	5217.6
Plec	0.559645	0.00904766	78.113	LS(0.56)FS(0.44)GLR	2	-0.72394	10040.8	10022.0
Plekhg1	0.86203	8.10E-16	89.468	AS(0.138)S(0.862)AGESNACPPEVR	3	-0.064894	10260.9	10134.0
Tsc2	0.6791	1.26E-06	43.206	KAS(0.01)GPLS(0.679)PPT(0.251)C	3	-0.13557	23488.6	23365.4
Ranbp10	0.771766	4.61E-12	61.942	HDDLQT(0.028)DES(0.2)S(0.772)M	3	-0.59436	4484.8	3738.9
Nktr	0.915166	0.0228956	49.715	S(0.915)IT(0.027)S(0.058)NKR	3	-0.20184	8118.0	8250.1
Prx	0.988494	1.03E-06	106.16	VGLAS(0.012)PS(0.988)K	2	-0.25692	66842.5	59987.0
Caskin1	0.999909	5.21E-06	106.16	SLPQS(1)PTHR	3	-0.46908	5344.6	5722.4
Map1a	0.999979	2.01E-58	122.44	VPSAPGQES(1)PVPDTESTAPMR	3	-0.77684	175288.1	164098.5
Hnrnpul1	0.499971	1.16E-23	57.565	APQQQPPPQQPPPPQPPPPQPPPP	4	-0.50812	5187.0	5155.8
Hnrnpul1	0.499971	1.16E-23	57.565	APQQQPPPQQPPPPQPPPPQPPPP	4	-0.50812	5187.0	5155.8
Map1b	0.999972	2.34E-07	80.632	RES(1)VASGDDR	3	-0.53851	26741.1	25574.6
Tagln2	1	2.37E-14	117.83	NFS(1)DNQLQEGK	2	0.18683	84105.4	75841.8
Lmf2	0.630644	1.92E-07	87.083	TLLTPRPLQS(0.369)S(0.631)K	3	0.43524	10438.9	13795.9
Nr2c2	0.76934	2.05E-15	61.694	DQS(0.23)T(0.769)PIIEVEGPLLS(0.1	3	1.2286	20210.0	23160.3
LOC100911	0.712028	0.0028177	47.894	ES(0.017)Y(0.005)S(0.712)VY(0.25	3	2.1658	9272.1	8856.4
Zfp295	0.744189	7.85E-18	79.237	IKT(0.004)EPS(0.234)S(0.744)PLS(I	3	-0.39377	24646.7	22649.1
Fryl	0.779094	1.68E-06	92.65	S(0.779)NT(0.216)LDIT(0.005)DGR	2	-0.87639	40571.4	36226.7
Rasip1	0.914398	1.23E-31	88.329	GGG(0.914)PAPY(0.04)VDT(0.046)	3	0.92102	5598.1	5765.1
Ssfa2	0.999673	0.000667896	78.342	CS(1)PPSFTYK	2	-1.4171	58520.0	59172.0
Farp1	0.612239	8.25E-15	87.088	S(0.373)LVS(0.612)QPT(0.014)APM	2	-0.41968	40428.3	36882.7
Camkk1	1	2.14E-06	76.728	S(1)FGNPFEPQAR	3	0.72965	36616.5	33396.7
Etv3	0.971955	2.60E-05	44.998	FHFPLD(0.972)HS(0.025)PT(0.01	4	-0.42185	6499.3	6440.6
Gapvd1	0.613903	6.68E-33	74.88	EVS(0.038)S(0.107)RPS(0.614)T(0.	5	0.056822	5737.6	5973.1
Tmem245	0.770064	3.37E-14	111.88	SSPS(0.013)S(0.77)PS(0.213)PT(0.1	2	-0.77829	29254.0	26184.5
Irs2	0.54439	4.30E-09	56.131	S(0.037)KS(0.144)QS(0.401)S(0.28	3	0.28753	12789.1	12559.7
Pgam1	0.736072	4.59E-05	41.798	FS(0.736)GWY(0.018)DADLS(0.246	3	2.3266	12267.9	12071.5
Zc3hav1	0.997824	3.15E-07	81.578	LPQS(0.998)PLS(0.002)SSSHR	3	0.71681	9463.7	13187.1
Tln1	1	0.000506756	69.672	CVS(1)CLPGQR	2	-0.62466	18324.3	19027.1
Aldoa	0.592611	4.49E-10	66.809	LQS(0.4)IGT(0.593)ENT(0.007)EEN	3	0.44755	8829.8	9043.4
Mecp2	0.813654	2.09E-05	89.805	S(0.001)S(0.001)S(0.02)AS(0.814)S	3	-0.44608	22299.5	21500.6

42307.8	41842.5	40427.9	43045.0	0.0	0.2	204
180211.9	167468.9	172233.3	176610.0	0.0	0.1	107;134
14966.7	14391.9	13766.3	15554.0	0.0	0.5	322
6105.9	5906.5	5700.1	5390.2	0.0	0.6	1191
10328.0	8282.9	10388.9	10719.0	0.0	0.7	3444;3330;3301
11329.9	9821.9	9967.5	10892.0	0.0	0.5	604
22995.2	21013.6	24455.9	22084.0	0.0	0.5	605
3948.5	4057.8	3748.7	3965.9	0.0	0.6	518
7672.4	7208.6	7693.5	8348.7	0.0	0.5	524
71039.3	59941.2	64093.0	67339.0	0.0	0.6	1309;1309
5022.0	5418.8	5115.5	5026.8	0.0	0.5	756
180733.6	160979.1	167338.9	174750.0	0.0	0.4	2022
5060.6	5512.3	4725.9	4660.2	0.0	0.6	620
5060.6	5512.3	4725.9	4660.2	0.0	0.6	622
27962.8	25413.5	24702.8	27531.0	0.0	0.5	985;859
80000.4	77870.5	75134.2	79079.0	0.0	0.4	163
11376.8	11428.6	11699.5	11317.0	0.0	0.7	663
21381.2	21132.4	20395.1	21105.0	0.0	0.5	352
8490.5	7734.3	9250.6	8763.1	0.0	0.6	39
24575.1	23277.3	23240.9	23001.0	0.0	0.3	435
39499.3	37067.5	38630.4	36798.0	0.0	0.4	1972
6244.2	5565.8	5848.0	5618.0	0.0	0.4	412
62005.8	55380.8	60379.4	58066.0	0.0	0.3	768
41875.6	35515.5	40116.9	39661.0	0.0	0.6	376
29139.3	32202.4	31433.1	32279.0	0.0	0.6	458
6088.7	5647.7	6212.2	6547.5	0.0	0.5	73
5499.8	5369.8	5214.3	6064.7	0.0	0.6	761
27393.2	25747.9	28577.7	25803.0	0.0	0.5	327
12962.0	11785.0	12573.7	12702.0	0.0	0.2	312
11809.0	11361.5	11729.4	11878.0	0.0	0.1	23
16261.3	14571.2	10814.7	12257.0	0.0	0.9	530
18254.4	17918.3	16826.9	19047.0	0.0	0.4	1201
8054.8	8507.0	8869.1	7706.5	0.0	0.6	49
22441.6	20881.6	21756.5	21444.0	0.0	0.1	359

LOC10091	0.996902	0.00522035	76.815	T(0.003)GT(0.997)PPGYR	2	0.66041	33521.4	32317.3
Samd14	1	9.65E-13	104.17	VTDGCGS(1)PLHR	3	0.14764	35773.2	38003.7
Cacna1b	0.976888	5.09E-08	60.062	S(0.02)HS(0.977)KEAPGADT(0.003	3	0.066347	12188.0	13269.4
Rbsn	0.915885	3.11E-53	131.35	DSL5(0.013)T(0.085)HT(0.821)S(0.	3	0.053739	4782.6	5150.5
Plekha4	0.892637	1.05E-15	57.484	ES(0.01)LS(0.078)ES(0.893)LELS(0.	3	-1.1949	5711.0	4840.9
Map4	0.981975	1.59E-91	125.97	DVS(0.982)PS(0.018)PETETAK	2	0.32007	149693.2	146339.4
Foxk1	0.9999	6.34E-11	66.826	EGS(1)PIPHDPDLGSK	4	0.18065	30738.9	27969.1
Trim9	0.971425	0.000255044	48.288	NILVQT(0.971)PES(0.022)ES(0.006	2	2.7171	13317.5	14839.1
RGD15613	0.824388	0.00970489	61.78	GRS(0.176)S(0.824)FGK	3	-0.38085	16579.4	15711.1
Efcab7	0.99885	0.00291765	99.788	SVLS(0.001)GS(0.999)PR	2	-1.3547	44682.5	44330.7
Zfp36l2	0.934359	2.80E-06	55.975	RLPIFS(0.002)RLS(0.934)IS(0.064)I	3	1.8052	4260.1	3963.7
Ywhag	0.978185	6.34E-61	161.51	T(0.978)S(0.022)ADGNEK	2	0.053819	117973.9	116514.3
Specc1	0.957285	1.15E-53	130.45	AS(0.043)S(0.957)EDMLNKPGSAS	3	0.59997	74715.4	71399.3
Nfatc2	0.999703	3.96E-24	96.55	RNS(1)APESILLVPPTWPK	3	0.030891	8499.7	7229.9
Dnajc5	0.883448	9.71E-47	138.75	SLST(0.002)S(0.009)GES(0.883)LY(	4	0.026024	87659.6	85788.6
Unk	0.996473	2.28E-07	57.936	QGYACPY(0.001)Y(0.003)HNS(0.99	3	-0.01937	65920.6	67042.3
Speg	0.994942	4.61E-05	115.91	AT(0.004)S(0.995)EGES(0.001)LR	2	1.2317	17775.7	19913.4
Ahnak2	0.99991	1.07E-112	169.18	GEVRS(1)PDLEVTLPGEVVDIQAPAA	5	-0.51802	724099.6	729503.2
Larp7	1	3.34E-11	94.767	TQQAS(1)QHIR	3	0.0028555	3694.9	4491.4
Hivep3	0.758336	0.00654676	57.149	RS(0.218)S(0.758)VES(0.024)PK	3	0.89558	17118.5	16559.0
Sh2b1	1	1.73E-06	88.101	S(1)PGEEVPVHPR	2	0.36144	7538.1	8252.6
Ppp4r4	0.771208	0.00250535	54.982	LT(0.147)S(0.771)DKS(0.081)FEKK	4	0.50471	64228.2	60340.2
Vps13d	0.958547	8.24E-55	131.13	S(0.959)LPS(0.041)HMEEAPNVFQI	3	-0.2629	42791.0	43917.2
Sh3pxd2a	0.567205	1.92E-26	80.786	GS(0.567)RS(0.415)EDS(0.018)ELP	3	-0.22909	4478.0	4485.4
Numa1	0.99873	2.30E-164	204.65	VPSTYPSTLSEELS(0.999)PPS(0.001	5	-0.37056	61585.2	65069.0
Strn3	1	1.80E-13	74.732	NLEQILNGGES(1)PKQK	3	1.3746	53442.8	51938.9
LOC10255	0.879593	5.90E-15	87.24	VLGAGS(0.009)S(0.105)GPAPAT(0	3	0.19447	6744.5	7267.2
RGD15602	0.996984	0.0278222	70.056	QS(0.003)T(0.997)LEKK	2	0.56103	30442.0	31016.4
Ccdc92	0.870597	1.17E-30	70.028	LLS(0.009)S(0.008)S(0.016)GT(0.0	4	0.9524	31325.7	31237.9
Prrc2a	0.913474	1.13E-22	67.064	QRGS(0.913)ET(0.386)GS(0.386)E	5	-0.30625	20978.0	19902.4
Osbp	0.678338	1.65E-10	49.559	T(0.004)GS(0.01)NIS(0.307)GAS(0	5	-0.52018	11246.7	10110.4
Osbp	0.674511	1.65E-10	49.559	T(0.004)GS(0.01)NIS(0.307)GAS(0	5	-0.52018	11246.7	10110.4
Acsbg1	0.903445	2.19E-32	95.195	ES(0.903)PS(0.097)HGLELSAPEK	4	0.8771	24624.1	24949.3
Baiap2	0.999928	5.36E-22	141.82	LSDSYSNT(1)LPVR	2	1.0127	47480.6	43617.7

33594.8	30113.6	35643.5	30437.0	0.0	0.6	663
33834.3	33479.5	35788.9	34841.0	0.0	0.4	77
12307.3	12127.1	12059.6	12349.0	0.0	0.3	918;919
5105.0	4753.9	4689.1	5105.7	0.0	0.4	218
4971.1	4957.2	5171.9	4889.1	0.0	0.6	530;458;530
166680.3	149363.5	145367.6	152940.0	0.0	0.5	520;520
30688.3	27071.1	30669.0	28751.0	0.0	0.5	431
15787.6	14067.4	14276.0	14173.0	0.0	0.5	41
12290.2	14940.8	15748.6	12444.0	0.0	0.8	17
40410.6	40547.8	42534.2	42140.0	0.0	0.4	21
3860.1	3952.4	4251.0	3488.4	0.0	0.6	478;334
112617.8	106534.4	107708.6	121600.0	0.0	0.5	70
74728.3	68894.9	72092.9	72691.0	0.0	0.2	55
6777.8	7699.9	6538.6	7538.8	0.0	0.7	365
89384.1	79478.7	86424.4	88407.0	0.0	0.4	15
68131.8	69480.1	63385.5	61711.0	0.0	0.4	240
18711.1	18579.4	17586.7	18406.0	0.0	0.4	2413
763561.2	707131.1	713982.4	724190.0	0.0	0.1	596;596
3817.7	4150.4	3378.6	4086.1	0.0	0.7	562
15594.9	17018.6	15425.9	15232.0	0.0	0.5	494
7262.7	7466.1	7715.0	7125.7	0.0	0.5	671
61340.4	57771.0	61584.9	60533.0	0.0	0.3	686
43521.5	42071.3	43351.7	40590.0	0.0	0.2	1725
4040.4	4390.7	4194.7	3997.4	0.0	0.5	741
60551.5	60502.2	57833.9	62811.0	0.0	0.4	167
48562.6	48333.3	50829.0	49800.0	0.0	0.4	227
6080.6	6416.7	6483.0	6543.0	0.0	0.6	830
30424.3	27844.4	31331.6	29737.0	0.0	0.4	467
28633.5	30231.3	27890.5	30129.0	0.0	0.4	162
19968.4	19841.1	19509.2	19533.0	0.0	0.1	1109
10556.6	10650.9	10975.0	9257.1	0.0	0.6	260
10556.6	10650.9	10975.0	9257.1	0.0	0.6	261
24667.8	22545.9	24677.1	24622.0	0.0	0.3	53
49933.8	45147.8	43125.1	48208.0	0.0	0.6	341



Ppap2a	0.991771	5.75E-17	94.325	KEDS(0.009)HT(0.992)T(0.998)LHE	4	0.85851	46451.3	44943.9
Nfatc2	0.999984	2.93E-11	55.662	DAGLS(1)PEQPALALAGMAASPR	3	-1.298	6737.4	6971.7
Cast	0.599762	6.68E-06	46.35	KGSDEVT(0.003)AS(0.17)S(0.6)AA	3	0.64581	4040.6	3990.5
Sptb	0.788015	2.44E-14	69.081	AQS(0.212)LPLPS(0.788)LAGPDAS	3	-0.19019	4161.5	4587.8
Acot1	0.999949	0.00236294	74.376	SHGVS(1)PK	3	-0.21353	68203.4	66474.1
Exoc1	0.939025	3.27E-07	77.124	QET(0.017)ES(0.939)LHGS(0.037)S	3	-0.16189	28856.9	28534.0
Tacc2	0.755691	0.00640414	89.55	T(0.756)PS(0.119)S(0.123)PS(0.00	2	0.35943	74085.7	72358.0
Srrm2	0.98501	0.00470787	91.867	S(0.007)S(0.008)S(0.985)PQPK	2	-0.039551	145184.9	146339.4
Clgn	0.785741	1.26E-101	154.84	EVIGEPEEKS(0.214)EEDAET(0.786)	4	-0.15978	219274.1	217529.2
Dnajc9	1	1.57E-05	62.861	KIS(1)LEDIQAFEK	3	-0.58282	8422.6	7967.7
Cd97	0.883618	0.0111922	53.013	TLRPS(0.116)ES(0.884)GM	2	-0.38344	15242.4	14177.6
Map1b	0.843546	6.16E-22	89.358	T(0.002)T(0.002)KT(0.108)PEDGG	2	0.18188	41208.3	40504.7
Abhd2	0.803965	8.07E-12	70.783	S(0.005)QCS(0.804)DT(0.191)EQM	2	-0.98888	11245.5	12682.5
Slc12a2	0.986226	3.50E-54	98.151	EGLDISHLQGQEELLS(0.002)S(0.00	5	1.3097	3832.0	3445.5
Trmt1	0.984654	9.11E-08	58.024	AQEPPS(0.985)PPT(0.015)MENGT	3	-0.42098	38226.6	38475.4
Cep350	0.971576	8.54E-06	68.283	T(0.002)PT(0.002)S(0.011)PLS(0.9	3	0.43922	12438.5	11708.5
Nek9	0.507434	1.09E-107	130.19	HCDSINSDFGS(0.159)ES(0.159)GG	3	-0.070206	4128.1	3321.9
Ubl3	0.918085	6.02E-08	56.817	TKEFLFS(0.918)PNDS(0.06)AS(0.0	3	1.1878	7942.5	7361.2
Mprip	0.942749	4.22E-12	93.909	S(0.017)T(0.021)S(0.943)FDT(0.02	2	0.17276	42050.3	40368.7
Parp3	0.932832	0.000285962	63.185	SSMQT(0.067)EGS(0.933)KK	3	0.49708	14036.6	11930.0
Dync1i2	0.997478	1.15E-05	52.52	EAAVS(0.003)VQEEES(0.997)DLEK	3	4.2869	39261.8	38737.5
Camkk2	0.983399	0.00100026	62.365	S(0.983)FGNPFEGS(0.017)R	2	0.090958	17805.5	17370.7
Ndrg4	0.747022	2.37E-49	152.94	T(0.004)AS(0.051)LT(0.747)S(0.19	4	-3.3497	16157.2	16143.3
Bclaf1	1	3.04E-10	117.79	KEVQS(1)PEQVK	3	1.3937	283833.9	285428.2
Cd44	0.999998	1.33E-28	144.73	LVINSGNGT(1)VEDR	2	-0.88373	37897.4	37647.2
Nefh	1	4.08E-82	165.47	SPVT(0.005)VKS(0.995)PAEAKS(1)	5	-0.16994	2897614.8	2933479.3
Mapk8ip3	0.996183	4.90E-05	62.861	Y(0.001)KQLS(0.996)PNGGQEDT(C	3	0.36973	10799.5	11051.4
Kcnab2	0.962235	1.59E-07	86.413	MYPES(0.003)T(0.017)T(0.017)GSI	2	-0.3923	72208.4	71871.0
Hdgfrp2	1	8.07E-40	121.82	GGs(1)S(1)GEELEDEEPVKK	3	-1.0278	98902.9	106713.4
Syne2	0.999665	7.13E-102	157.73	RRES(1)EEPASSQSLCHLVPPALGHE	5	-0.88046	9232.9	9816.9
Clmn	0.996617	5.13E-22	85.742	SHS(0.002)EEGLDFKPS(0.997)PPLS	3	1.0448	18048.8	18679.4
Gas2l1	0.728278	1.23E-06	52.451	GS(0.126)PT(0.142)PS(0.728)PRPC	3	0.34317	8148.7	8442.6
Mtx3	0.999946	3.55E-42	131.35	LTPAEESNSSQLLS(1)P	2	0.41996	49387.7	48428.8
Arfgef1	0.982465	1.56E-51	110.77	QQHLLQS(0.982)PVS(0.018)HHE	4	-1.0253	39338.1	38916.3

49868.9	44491.2	48222.6	43992.0	0.0	0.5	265
6760.3	6861.3	6416.0	6531.6	0.0	0.2	136
4238.6	4040.6	4280.5	3552.7	0.0	0.6	36
4466.7	4277.3	5115.0	3397.6	0.0	0.8	2305
63840.2	62427.1	62289.1	67402.0	0.0	0.4	416
29242.5	28045.7	27650.1	28145.0	0.0	0.0	459
74021.4	71321.4	67355.6	74687.0	0.0	0.3	2277
139244.5	136934.0	140451.9	139510.0	0.0	0.1	887
212076.7	210972.3	207765.7	209250.0	0.0	0.0	567
7972.7	7109.0	8271.1	8198.4	0.0	0.6	109
16780.9	14321.5	15023.0	15369.0	0.0	0.6	807
45577.3	38566.8	42164.4	42461.0	0.0	0.5	1931;1805
13651.9	10966.8	11967.7	13436.0	0.0	0.7	415
4310.9	3557.9	3602.7	4054.9	0.0	0.7	935
35222.6	34580.5	36316.8	37426.0	0.0	0.4	10
12213.6	11236.1	12228.5	11726.0	0.0	0.3	1258
3865.7	3679.5	3122.9	4149.3	0.0	0.8	35
7503.8	6844.7	8063.8	7165.4	0.0	0.6	27
41097.3	36533.0	39743.9	43268.0	0.0	0.5	602;625
13236.7	12398.7	12960.5	12585.0	0.0	0.5	14
39035.1	40847.0	36491.0	35938.0	0.0	0.5	51
17250.4	16895.4	16646.3	17202.0	0.0	0.1	494
16615.9	15782.2	16114.1	15450.0	0.0	0.1	319
267310.3	270425.1	279279.4	260020.0	0.0	0.3	494
38692.3	34975.4	37260.4	38335.0	0.0	0.3	312
3155811.8	2862095.1	2876041.3	2960400.0	0.0	0.3	670;640
10862.5	9914.8	11273.1	10476.0	0.0	0.4	676
69361.4	67007.3	69117.7	70469.0	0.0	0.2	9
101856.4	96395.0	93036.1	108180.0	0.0	0.6	366;366
11272.4	9222.4	9174.3	10954.0	0.0	0.7	6234
18042.5	17136.3	18072.9	17807.0	0.0	0.2	777
8021.5	7962.5	8212.3	7649.8	0.0	0.3	301
46880.4	45515.2	47139.0	47410.0	0.0	0.2	310
41731.8	38199.4	38417.7	39529.0	0.0	0.3	234

Tln1	0.630824	2.91E-42	85.184	SKDHFGLEGDEES(0.171)T(0.068)M	5	2.6682	9535.0	10081.3
Nop58	0.739163	1.71E-19	71.117	HIKEEPLS(0.954)EEEPCT(0.053)S(C	5	-1.1655	105536.6	105296.1
Mdh2	1	2.91E-08	105.19	IQEAGT(1)EVVK	3	0.47859	30279.7	32807.6
U2surp	0.999863	0.000974353	79.201	SSHKDS(1)PR	3	0.39391	49168.2	49908.5
Tdrd7	0.583295	4.62E-71	138.49	S(0.001)VLDHT(0.128)S(0.583)S(0	3	0.58506	3663.3	4262.5
Crybg3	0.619543	8.80E-07	54.281	AS(0.006)DT(0.62)CLDVIGGRDT(0.	4	2.1611	5487.6	5968.5
Kdm3b	0.94359	2.09E-21	79.88	ES(0.056)HS(0.944)PFGLDLNSTAI	3	3.3209	13203.0	13701.6
Ubr4	0.842054	3.87E-43	83.826	TSPADHGGGS(0.842)VGS(0.157)ESC	4	0.004767	10659.5	10514.4
Clec2l	0.731669	6.09E-15	124.81	S(0.016)GS(0.103)GY(0.07)EGS(0.8	2	-2.0435	8925.2	8394.6
Foxo1	0.997977	4.90E-43	114.66	ASLQSGQEGPGDS(0.998)PGS(0.00	3	0.68113	97391.8	86068.3
Tanc1	0.802555	7.78E-05	43.946	VDNEPS(0.197)CS(0.803)PAAQELL	3	0.80399	30137.8	30155.3
Pja2	0.517212	1.63E-23	95.988	KVIS(0.316)S(0.517)S(0.167)QVDC	3	0.30695	21470.6	18802.2
Evi5	0.778049	0.029158	53.432	S(0.222)DS(0.778)KQYIR	2	0.0428	29491.4	28425.5
Rem2	0.837353	2.86E-43	99.078	GHAGGQRPEPS(0.162)S(0.837)PD	3	-0.27395	74684.4	69265.8
H1f0	0.994002	1.09E-26	80.412	S(0.002)T(0.002)DHPKY(0.002)S(0	4	1.317	4766.3	3778.5
Pygo2	0.997141	2.95E-15	87.388	GGGT(0.997)PDANS(0.003)LAPPG	3	0.37415	22762.3	24146.4
Prkcb	0.999102	1.29E-136	164.18	T(0.999)FCGT(0.001)PDYIAPEIIAYC	3	1.724	599393.0	613647.1
Irs2	0.74221	2.93E-33	111.45	QVPQPS(0.067)S(0.169)AS(0.742)	2	-0.3556	17025.5	18446.8
Slc20a2	1	7.21E-15	79.489	AS(1)DES(1)LRK	2	0.17944	36060.7	34796.3
Slc20a2	1	7.21E-15	79.489	AS(1)DES(1)LRK	2	0.17944	36060.7	34796.3
Tyw3	0.996615	7.61E-05	42.254	KGS(0.997)VDEDAVEVVELLNS(0.01	3	1.6013	7210.5	7216.9
Srrm1	1	0.000408526	89.266	RS(1)PT(1)PPPR	2	0.11493	89876.7	93755.5
Atrx	0.956302	0.0238442	45.74	RS(0.036)S(0.956)NS(0.008)KR	3	0.82382	8225.7	8032.0
Anp32a	0.990821	0.00221961	86.879	NRT(0.991)PS(0.009)DVK	3	0.76985	58442.5	59531.8
Ablim1	0.634594	3.93E-102	159.5	T(0.348)S(0.635)S(0.016)ES(0.001	2	0.34618	41649.6	50568.9
Anks1a	0.693741	1.41E-62	110.07	S(0.012)LS(0.199)KS(0.071)DS(0.6	3	1.3785	60159.9	49264.6
Camkk1	0.649316	1.03E-08	48.616	EGCGEGGKS(0.351)PELPGVQEDEA	3	1.2438	49393.6	47289.1
Sorbs3	0.803817	1.19E-22	71.06	DGSQHPDPAWY(0.012)QT(0.168)'	4	1.0291	10981.7	11493.5
Zbtb47	1	5.20E-06	78.69	RAT(1)PEPEEAGGR	2	0.36126	11884.3	12149.4
Srrm2	0.662197	2.91E-07	84.297	SES(0.002)DS(0.307)S(0.662)PDS((	3	0.00017882	18865.8	21161.7
Arhgap21	0.689885	5.21E-13	99.392	KDS(0.113)S(0.69)S(0.189)EVFS(0.	3	1.4791	17931.9	15978.8
Hist1h1d	1	0.0272094	52.725	APKS(1)PAK	3	-0.00016941	57842.6	54601.1
Zc3h6	0.985998	0.000557985	53.038	S(0.013)RES(0.986)PPGT(0.001)EY	3	-0.25628	12428.9	14575.8
Rpl18a	1	0.00499873	79.148	AHS(1)IQIMK	2	-0.39947	19066.2	19341.9

9326.8	9517.7	8977.9	9521.5	0.0	0.3	423
107784.4	98044.9	106960.6	103420.0	0.0	0.3	456
30914.0	28445.0	31848.8	30701.0	0.0	0.5	235
46449.3	47793.2	45422.7	47658.0	0.0	0.3	973
4039.3	3564.3	4058.3	3960.1	0.0	0.6	882
5672.0	5551.8	5805.4	5223.6	0.0	0.5	2874
13004.6	11488.0	13172.1	13974.0	0.0	0.6	1239
11534.3	10631.3	10833.9	10198.0	0.0	0.4	2931
9557.1	8628.2	8728.5	8661.6	0.0	0.4	53
96520.4	87873.6	85447.7	97721.0	0.0	0.6	281
29653.5	28256.9	29166.5	29653.0	0.0	0.1	129
20281.4	20432.9	18574.1	19616.0	0.0	0.5	321
25950.6	27490.2	27541.1	26165.0	0.0	0.5	660
69361.4	65799.6	68333.4	72386.0	0.0	0.4	296
4855.2	4405.7	4091.8	4476.0	0.0	0.7	29
21488.7	21500.9	21432.7	23287.0	0.0	0.5	264
590674.0	598631.1	562491.4	585190.0	0.0	0.2	500;500
19127.4	17382.7	18747.2	16734.0	0.0	0.5	591
41492.3	35521.0	35054.7	38203.0	0.0	0.6	256
41492.3	35521.0	35054.7	38203.0	0.0	0.6	259
7306.2	6990.5	6527.9	7524.6	0.0	0.5	60
85801.6	86673.5	84843.9	89355.0	0.0	0.3	509
7070.6	7356.1	8624.8	6606.5	0.0	0.7	1120
59745.6	56479.6	56599.7	58998.0	0.0	0.1	15
55237.9	34554.1	51312.0	56910.0	0.0	0.9	379;280
58165.6	53876.0	53028.2	55367.0	0.0	0.6	85
49504.8	44459.3	47696.8	49394.0	0.0	0.4	505
12437.1	11705.8	11257.1	10842.0	0.0	0.5	82
11525.8	11794.9	11146.0	11491.0	0.0	0.2	378
20603.0	18192.2	19877.8	20638.0	0.0	0.6	1521
17902.0	17384.9	16048.9	16737.0	0.0	0.5	928
53841.1	55313.7	50182.4	55521.0	0.0	0.5	187
12083.7	11165.7	12817.3	13868.0	0.0	0.7	198
18290.5	17637.9	18414.9	18852.0	0.0	0.3	123

Ccdc136	0.709694	1.78E-42	160.5	GLS(0.267)LT(0.71)ET(0.023)ELEEI	2	-0.047346	66022.0	62706.2
Apeh	0.994772	8.01E-26	111.22	ALDIS(0.005)AS(0.995)DDEMARPK	2	0.19417	133902.1	135447.0
Afap1l1	0.998965	1.63E-19	65.833	EVSRRPIGGAES(0.001)LEVPRS(0.99)	5	0.59494	26155.5	25910.2
Kcnab2	0.904355	4.76E-05	112.73	RS(0.096)S(0.904)LVITTK	2	-0.49378	20010.8	19918.9
Zfp275	1	7.00E-08	57.045	GGs(1)PQNLpVEHHFACK	3	-0.54715	27603.4	24724.5
Mga	0.527755	2.32E-06	52.862	NSSDQEGNS(0.528)VS(0.199)S(0.1	3	0.71932	1245.9	1245.3
Slc25a4	0.772157	1.25E-05	63.754	LAADVgKGS(0.772)S(0.228)QR	3	0.636	18982.7	17650.5
Pitpnm3	0.993541	2.45E-08	58.339	GS(0.006)PPLLDAPAS(0.994)PPQA	3	0.86194	13878.0	15048.6
Clint1	0.956282	0.000160314	60.196	CS(0.044)DS(0.956)DEEKAR	3	-0.031582	16692.7	16108.2
Mapt	0.5	9.24E-08	98.865	IGS(0.5)T(0.5)ENLK	3	-0.60528	23786.8	22861.9
Pxn	0.803402	1.52E-169	180.83	T(0.008)GS(0.032)S(0.157)S(0.803	4	-0.73823	67552.2	64399.9
Jakmip2	0.882896	8.25E-09	96.866	EAECNMS(0.117)S(0.883)PKR	3	0.15925	15087.4	16193.8
Kcnh7	0.993778	7.08E-09	58.952	KQS(0.994)LPQEDPDVVVIDS(0.00)	3	-0.18528	12133.1	12319.5
Dst	0.620913	1.36E-13	103.91	QKS(0.038)FS(0.341)EDVIS(0.621)	4	0.76689	12715.2	13417.5
Vps13d	0.98897	1.35E-20	119.08	NSSSSTIGS(0.989)PS(0.011)SR	2	0.025931	7790.0	8029.0
Scn3b	0.813923	4.41E-11	61.276	AEEAAQENAS(0.814)DY(0.185)LAI	3	0.92757	9692.2	10120.4
Cycs	0.572282	2.08E-10	66.536	KTGQAAGFS(0.419)Y(0.008)T(0.57	3	-1.0776	29751.4	31108.5
Il6st	0.96337	1.01E-06	56.819	SSQVPS(0.036)GS(0.963)EEDFVR	2	1.0997	37355.9	37753.6
Lsp1	0.886767	0.00046394	42.314	QPS(0.099)IELPS(0.887)MAVAS(0.	2	0.14583	17298.6	15688.1
Nefh	1	1.07E-35	102.69	S(1)PVVAKS(1)PAEAK	4	0.20735	2023857.8	2020736.5
Fry	0.773828	4.96E-46	102.65	S(0.774)T(0.215)GQLNVs(0.011)PI	3	-0.65073	15421.3	15525.7
Slc15a2	0.833532	2.92E-26	74.81	NES(0.834)KET(0.166)LFS(0.043)P	6	-0.404	10031.9	10113.8
Glud1	0.912652	0.00398186	43.05	DDGS(0.913)WEVIEGY(0.087)R	2	-0.98597	15523.9	16597.4
Usp5	0.979503	1.29E-42	147.64	SAADS(0.01)IS(0.98)ES(0.01)VPVG	2	0.50492	65544.9	72932.8
Inpp5f	0.686409	1.81E-15	54.514	QLANS(0.217)LES(0.686)AGPT(0.0	3	-0.023754	6817.5	6407.5
Cldn11	0.885982	2.22E-30	126.16	FYYS(0.001)S(0.005)GS(0.104)S(0.	3	-0.053438	60066.9	56111.6
Zc3hc1	0.99973	0.00240352	82.417	S(1)PEGTPQK	2	0.62769	10370.9	9505.3
Apex1	0.999869	6.31E-28	106.75	AAAEDGEEPKS(1)EPETK	3	-0.19979	188025.9	195481.2
Synj1	0.789472	2.86E-78	126.68	T(0.103)S(0.103)PCQS(0.789)PT(0	3	-1.3239	65652.2	65783.1
LOC68359	1	0.00102932	58.098	GPES(1)PLRS(1)PVR	3	0.92368	24284.1	22977.1
Ncl	0.999047	0.0150788	56.432	T(0.001)HGES(0.999)KK	2	-0.56318	30902.3	26840.4
Palm3	0.999832	5.32E-14	76.378	TSGAKDDVS(1)PEEQGK	4	-0.25418	16623.6	16020.4
Arfgef1	0.995645	3.10E-12	60.95	QQHLLQS(0.963)PVS(0.042)HHE	5	0.48425	14340.8	14411.3
Rasa2	0.999943	1.40E-05	52.773	TIQIIGNWGCQS(1)R	3	1.0289	4340.3	3966.1

59888.2	60504.4	62274.2	59875.0	0.0	0.4	166
129641.5	126935.3	134253.7	125190.0	0.0	0.3	187
24923.3	25145.1	24247.5	25163.0	0.0	0.2	328
18149.0	19303.2	18664.9	18275.0	0.0	0.4	112;142
25477.9	24953.7	23853.2	26541.0	0.0	0.5	159
955.0	1126.0	1160.3	1051.0	0.0	0.7	283
17036.4	18338.5	17470.2	16166.0	0.0	0.5	149
13600.8	13097.2	14250.4	13837.0	0.0	0.5	543
15401.1	16460.9	15339.3	14880.0	0.0	0.4	249
24861.5	24140.8	23411.9	21701.0	0.0	0.5	507;591
67940.1	61744.0	62865.1	68976.0	0.0	0.4	288
12329.6	14996.9	12632.4	14606.0	0.0	0.8	260
11705.7	11309.8	12028.7	11681.0	0.0	0.2	174
13177.1	12019.3	13099.4	12953.0	0.0	0.4	4001;4064
8100.2	7690.0	7320.2	8155.9	0.0	0.4	3010
9986.0	9152.5	9511.9	10196.0	0.0	0.4	196
28798.6	29168.7	28663.2	29004.0	0.0	0.2	50
40135.9	38130.1	36797.7	36690.0	0.0	0.3	840
18613.1	16299.2	16136.5	17540.0	0.0	0.6	247
2202211.9	2163070.7	1871836.6	2015300.0	0.0	0.6	700;670
14007.5	15847.1	14803.9	12889.0	0.0	0.7	1954
11077.6	9270.7	10234.2	10736.0	0.0	0.6	20
17112.0	16797.5	15872.6	15016.0	0.0	0.5	128
71528.0	72678.7	64765.2	65962.0	0.0	0.5	762
6283.0	6110.2	6223.4	6561.5	0.0	0.4	881
63938.1	48991.1	60877.4	64589.0	0.0	0.7	197
11596.1	9973.7	10142.1	10368.0	0.0	0.6	24
185322.2	178336.5	181648.1	190980.0	0.0	0.3	18
65790.6	61790.2	65839.2	63403.0	0.0	0.2	1053
22470.3	21803.4	23732.4	22006.0	0.0	0.4	133
28551.6	23248.7	28897.2	31439.0	0.0	0.8	14
15779.1	14901.2	16160.0	15842.0	0.0	0.3	600
17333.4	14928.7	14001.4	15710.0	0.0	0.7	243
4893.9	4424.4	3999.0	4363.1	0.0	0.7	554



Wars	0.5037	1.97E-06	53.033	MS(0.469)AS(0.504)DPNS(0.014)S	3	0.92846	7249.3	7886.8
Gprin1	0.993503	1.46E-15	60.527	S(0.001)VAT(0.006)GPMT(0.994)P	3	0.098182	6750.6	6818.5
Stard7	0.977488	0.000122152	84.687	AT(0.001)AS(0.022)S(0.977)PERK	2	0.81165	28630.3	27073.0
Coil	0.994244	0.014502	74.173	RS(0.002)S(0.994)T(0.004)GAK	2	0.53129	20679.9	17960.9
Mapk10	0.791668	4.96E-08	58.723	T(0.001)AGT(0.004)S(0.011)FMM	3	0.36221	37878.3	38500.6
Nrbp2	0.999598	1.69E-120	186.05	EREREDES(1)EDES DILEESPCGR	3	-0.61488	130395.6	136346.5
Heph	0.979329	0.000349752	83.869	S(0.979)ILDDS(0.021)FK	3	-0.67465	44205.5	42558.1
Kif1b	0.999555	6.22E-17	133.88	MADTGS(1)PGMQR	3	-0.94358	63519.7	66592.6
Fam134a	0.526571	3.46E-38	77.464	AT(0.527)T(0.466)PQLT(0.002)DV	3	0.43744	8642.2	8656.3
Tgoln2	0.531977	2.91E-13	65.118	T(0.532)ES(0.462)GEKLAGDS(0.00	5	-0.85476	7986.3	7825.1
Il6st	0.592856	7.57E-43	81.831	S(0.201)ES(0.593)T(0.201)QPLD	4	0.92541	7326.5	7576.9
Nfix	0.811163	1.03E-14	62.617	S(0.027)IDDS(0.161)EMES(0.811)F	2	-0.69998	9937.4	8080.8
Clip2	0.79056	3.36E-26	82.349	S(0.011)LEDLKAT(0.791)LNS(0.19	3	1.3988	13203.0	14101.9
Kif21b	0.991962	1.20E-06	94.82	GATDT(0.008)S(0.992)PLTR	2	0.29351	36357.6	33449.3
Eps15	0.785013	1.93E-44	92.363	S(0.785)S(0.213)PEIAPS(0.002)DV	3	0.87425	40840.9	41520.4
Prox1	0.804642	0.0363921	43.761	EMAPQS(0.195)VS(0.805)PR	2	-0.34228	8946.1	8908.4
Nefh	0.95052	8.78E-36	155.64	TSVS(0.031)S(0.951)VS(0.018)ASP	2	0.65961	77288.0	69985.4
Htt	0.860314	3.80E-21	105.79	EKEPGEQT(0.018)S(0.121)T(0.86)F	3	0.14279	101313.4	99192.9
Tjp1	0.687299	1.16E-07	68.481	AEQLAS(0.001)VQY(0.311)T(0.687	3	-0.10689	5683.1	5178.6
Prkcq	0.777341	8.23E-56	134.15	T(0.217)NT(0.777)FCGT(0.006)PD	3	1.0826	45956.3	47666.4
Traf3ip1	0.980801	2.34E-18	134.88	RQES(0.981)T(0.017)ET(0.003)LAC	2	0.93142	21007.9	19226.7
Bcas3	0.922861	3.36E-26	78.078	CSPVPGLS(0.054)S(0.923)S(0.923)	3	-2.6401	42584.6	42411.1
Zhx2	1	0.019411	70.256	HVAES(1)PK	2	0.704	4642.4	4022.3
Map4	0.932275	8.61E-14	68.569	VTEFNNVT(0.932)PLS(0.068)EEEV	3	0.94641	28997.6	31440.9
Rrp1	0.653783	0.000207882	44.1	EGGS(0.654)ET(0.087)EAS(0.116)S	2	0.82623	6014.9	6851.7
Atp1a2	0.751495	1.23E-11	94.717	DTAGDAS(0.249)ES(0.751)ALLK	2	0.61173	18009.5	16772.9
Slc9a3r1	1	1.38E-106	176.14	ENS(1)REALVEPASESPRPALAR	3	0.017647	96137.1	94761.4
Fxyd7	0.81249	1.84E-06	81.547	S(0.812)ES(0.177)PT(0.01)CK	2	-0.70353	37078.0	39235.5
Cd9	1	0.000656458	59.227	KQVLES(1)FQVK	3	-1.0375	9419.5	8874.4
Hdgf	0.73549	6.69E-166	162.23	NS(0.046)T(0.18)PS(0.735)EPDS(0	5	-0.83225	46537.2	42468.2
Urb1	0.999436	2.14E-14	80.632	ASESPGGAAS(0.999)PAGTSK	3	-0.71445	6819.5	6517.1
Limch1	0.864247	1.11E-11	64.298	S(0.002)WS(0.012)T(0.004)AT(0.1	3	-0.71617	10393.1	9240.5
Speg	1	3.72E-15	127.71	AVGPPPAT(1)PPRK	3	0.46195	6934.5	8813.9
Map1b	0.859039	2.59E-26	98.281	S(0.859)PS(0.138)LS(0.002)PSPPS	3	0.75351	90464.7	90846.5



8078.3	7328.2	6917.4	8241.2	0.0	0.6	357
7632.7	7534.8	6939.1	6063.4	0.0	0.7	779
26307.3	26903.9	26607.1	25930.0	0.0	0.3	183
19461.7	18439.7	17895.5	19947.0	0.0	0.6	235
38566.7	37634.0	35429.8	38284.0	0.0	0.2	185
134911.4	126011.4	131806.5	131270.0	0.0	0.2	20
37205.0	39509.5	41369.3	39212.0	0.0	0.6	1144
62462.5	61477.8	63099.1	61975.0	0.0	0.2	1396
10157.0	9469.3	8174.5	8953.0	0.0	0.7	324
7193.9	7137.4	7408.5	7740.1	0.0	0.5	212
7601.1	7687.3	7243.9	6870.1	0.0	0.4	781
8805.1	9611.0	8552.4	7821.7	0.0	0.7	288
12278.5	12693.5	13754.5	11899.0	0.0	0.6	600
34566.8	34326.4	33162.2	33626.0	0.0	0.3	1212
44999.2	40664.4	40761.3	41958.0	0.0	0.4	561
8746.0	8134.0	8277.4	9359.1	0.0	0.5	199
71874.0	70247.8	71661.1	70404.0	0.0	0.4	57;57
93718.3	92492.3	96531.7	96027.0	0.0	0.3	1040;1161
6212.4	5422.6	5612.7	5506.6	0.0	0.6	735
50091.4	46126.8	44095.5	49012.0	0.0	0.5	538
19256.2	19584.8	19421.5	18630.0	0.0	0.4	384
45516.6	41302.4	42000.9	43142.0	0.0	0.3	488
4363.2	4094.9	4111.6	4415.4	0.0	0.5	719
29650.3	30131.2	27888.4	29264.0	0.0	0.4	506;506
6525.4	6074.3	6060.6	6653.4	0.0	0.6	382
17376.0	15799.8	17308.8	17427.0	0.0	0.4	452
96279.8	92251.4	91880.9	94116.0	0.0	0.0	266
33702.3	34087.8	34201.9	38308.0	0.0	0.6	58
8728.0	9245.5	8684.2	8253.0	0.0	0.5	173
49843.3	45214.9	41675.0	47647.0	0.0	0.6	202
6566.3	6330.9	7058.9	5895.1	0.0	0.6	17
9785.6	9199.4	10014.2	9292.7	0.0	0.5	144;147
8239.6	7678.6	8199.1	7366.1	0.0	0.7	2761
98235.6	88098.0	89852.6	92928.0	0.0	0.4	1248;1122

Stk25	0.942276	6.93E-12	66.893	LADFGVAGQLT(0.058)DT(0.942)Q	3	-0.38867	6042.4	5571.7
Klc1	0.975119	1.56E-13	119.87	VDS(0.975)PT(0.024)VT(0.001)TTL	2	-0.30995	60646.6	60987.4
Mid2	0.992944	2.16E-42	159.83	ASVSGPNS(0.993)PS(0.007)ESR	2	-0.16929	72714.1	73445.0
Atrx	0.51107	1.34E-07	69.92	LTPVS(0.001)LS(0.488)NS(0.511)P	3	-0.18579	4440.2	3857.3
Srrm2	0.692577	0.00388129	64.121	LRDGS(0.693)GT(0.307)PS(0.001)F	2	0.85872	10024.6	8778.6
Arhgef40	1	2.27E-63	172.57	RIQQQLGEEAS(1)PR	2	1.1348	60424.7	63989.6
Atp11a	0.694166	0.0642572	51.415	CS(0.059)GS(0.694)LT(0.247)R	2	-0.04739	17518.1	18371.1
Nradd	0.752686	1.32E-17	60.879	HGDS(0.753)S(0.245)VfVDS(0.003	4	-0.51626	6648.8	6673.4
Crk	0.920875	1.23E-51	123.48	DS(0.05)S(0.921)T(0.028)S(0.001)I	2	-2.0061	76076.3	76929.9
Dmxl2	0.893934	3.51E-11	66.893	NLAS(0.894)PEGT(0.103)LAT(0.00	3	-0.53556	4012.2	3816.9
Ranbp2	0.988607	0.000484001	57.434	ETS(0.002)S(0.002)T(0.008)FKT(0.!	3	0.80082	10990.1	11723.8
Brd8	0.700363	2.65E-07	40.022	T(0.046)EAS(0.275)PES(0.7)MLS(0	4	0.7998	8490.2	9266.0
Brd8	0.557359	2.65E-07	40.022	T(0.046)EAS(0.275)PES(0.7)MLS(0	4	0.7998	8490.2	9266.0
Tjp1	0.551823	3.97E-89	145.34	AVPVS(0.448)PS(0.552)AVEEDEDE	3	-0.22142	32758.1	31557.1
Pcyt1a	0.951966	0.00677599	99.136	S(0.048)PS(0.952)PSFR	2	-0.11103	8735.1	8887.9
Srrm2	0.996825	0.000313062	98.044	S(0.012)GS(0.991)S(0.997)PEMKEI	3	0.1316	161142.9	164603.0
Garnl3	0.999982	2.57E-08	96.866	SFSDVLPES(1)PK	2	0.61796	21031.7	20999.3
Arhgef11	0.716102	3.30E-15	85.166	S(0.284)RS(0.716)DVDMDAAAEAA	2	1.3553	44374.8	46272.3
LOC10091	0.823912	4.18E-24	139.94	S(0.022)PS(0.131)S(0.824)PS(0.02	3	-0.20903	79971.5	83639.8
Akap12	0.968209	1.57E-15	124.5	KAS(0.041)S(0.968)S(0.991)DDEGC	3	-0.32309	70635.2	71589.0
Ppp1r2	0.5	9.06E-42	130.05	EQES(0.5)S(0.5)GEEDNDLSPEER	3	-0.32403	37339.2	35337.1
Srrm2	0.994072	0.000394994	85.45	RGS(0.994)RS(0.503)S(0.503)VEPK	3	0.030302	65083.3	64490.9
Dgkg	1	1.18E-78	115.44	QET(1)PDHPK	3	0.46146	32947.8	30632.4
Ccdc141	0.939093	0.00520051	72.478	KNS(0.939)S(0.061)AEK	2	2.1078	33657.4	31574.7
Synpo2	0.622612	0.00124001	41.912	AQS(0.623)PT(0.72)PS(0.62)LPAS(	3	0.83069	10435.3	12861.3
Synpo2	0.620385	0.00124001	41.912	AQS(0.623)PT(0.72)PS(0.62)LPAS(	3	0.83069	10435.3	12861.3
Dpysl3	0.867045	1.23E-31	125.5	GMYDGPVFDLT(0.011)T(0.867)T(C	2	-3.7526	270082.3	273428.0
Cnp	1	5.17E-05	71.558	GKPVPVHGS(1)RK	4	0.85014	125565.3	124697.3
H2afy	0.774496	7.02E-43	95.319	AAS(0.013)ADS(0.774)T(0.198)T(0	4	1.0265	29268.4	29572.8
Prdm16	1	0.0168697	53.089	AEPKS(1)PR	3	-0.26603	15632.4	14885.1
Cirbp	0.607308	0.0406194	41.383	S(0.002)QGGG(0.607)Y(0.189)GY(C	2	-0.59616	14376.6	13799.2
Wdr7	0.999933	1.72E-43	133.24	ARDS(1)PPASSNIVQGQIK	4	-0.31517	43003.3	44511.7
Etl4	0.987236	5.91E-27	100.18	CS(0.013)FT(0.987)DVNPNSHAEQ!	3	0.23008	10001.2	11753.4
Usp35	1	1.79E-33	136.66	QRPQEAPEAEPGS(1)PR	2	-0.12255	17866.3	17942.2

5995.1	5344.2	6144.7	5574.4	0.0	0.6	168
63712.4	58187.9	60383.7	61033.0	0.0	0.2	460;460;460
73946.8	71395.1	68094.0	73803.0	0.0	0.3	116
4542.4	4065.3	4411.7	3965.6	0.0	0.6	587
9359.7	8811.1	9827.4	8653.9	0.0	0.6	1410
59761.5	61548.2	58444.1	58491.0	0.0	0.3	958
17919.0	17081.3	17361.2	17703.0	0.0	0.1	742
6657.3	6388.7	6771.8	6201.9	0.0	0.3	57
75210.6	72768.9	71509.4	76892.0	0.0	0.2	41
3518.2	3490.6	3727.9	3778.5	0.0	0.5	1840;1858
11308.6	11434.1	10572.2	10966.0	0.0	0.3	2485
10652.8	9323.9	9046.1	9162.1	0.0	0.7	655
10652.8	9323.9	9046.1	9162.1	0.0	0.7	658
33949.3	29885.9	33270.1	32077.0	0.0	0.4	1762
8325.8	8217.2	8634.9	8296.4	0.0	0.3	331
153127.5	153774.4	153596.2	156740.0	0.0	0.2	1560
19146.5	20210.7	18979.1	20104.0	0.0	0.4	414
46900.7	42161.5	47243.7	43908.0	0.0	0.4	677;666
72457.4	76099.6	77161.4	75542.0	0.0	0.5	402
73449.7	67065.6	71772.3	70200.0	0.0	0.2	684
37659.6	34086.7	35396.7	37458.0	0.0	0.4	121
60791.1	60118.3	62102.1	62289.0	0.0	0.3	1631
26936.5	31649.1	30798.3	25285.0	0.0	0.7	87
34691.4	34613.5	31560.3	30679.0	0.0	0.5	1091
10594.7	11305.4	10444.1	11101.0	0.0	0.7	900
10594.7	11305.4	10444.1	11101.0	0.0	0.7	904
261614.5	252803.7	265023.7	262570.0	0.0	0.2	621
118015.6	117431.7	121365.9	118170.0	0.0	0.2	408
28991.3	28906.9	29245.6	26983.0	0.0	0.3	172
14682.5	15393.9	14267.5	14151.0	0.0	0.4	634
14038.4	12334.9	14435.2	14148.0	0.0	0.6	150
41985.2	42392.4	41933.6	41199.0	0.0	0.2	935
11505.6	10706.1	10666.2	10867.0	0.0	0.6	997
17697.5	16699.6	16740.3	18424.0	0.0	0.4	927

G3bp1	0.999986	3.24E-92	127.95	YQDEVFGGFVTEPQEE(1)EEEEVEEF	4	0.022641	102185.2	100862.4
Slc1a4	0.999829	0.00095011	82.029	T(1)PETGTSK	2	-0.18084	49337.6	53670.9
Nt5c2	0.873484	0.0134649	61.958	NRT(0.127)S(0.873)VDFK	2	-0.60326	80860.1	74970.8
Ahnak2	0.897912	3.82E-14	67.496	GDLKT(0.898)PDVS(0.1)IQLPS(0.0	5	-0.46923	22343.7	25406.7
Nefh	1	4.84E-41	114.27	S(1)PVVAKS(1)PAEAK	4	0.20735	1403545.2	1415897.7
Cdc42ep1	0.936267	7.64E-09	74.611	AS(0.064)PVGEGPQVPS(0.936)K	2	-0.24844	17255.7	16946.2
Eaf1	1	1.25E-26	80.082	DNPS(1)PEPQLDDIKR	3	1.3182	91188.7	94845.8
Fam160a2	0.977697	0.000341138	46.318	S(0.978)PGLT(0.014)AS(0.006)PT(	2	1.1398	4982.2	5092.4
Adam22	0.929582	0.00953766	42.818	SNGLS(0.04)HS(0.93)WS(0.031)ER	2	0.38596	5421.8	5515.6
Mtmt7	0.974435	2.49E-93	148.69	HSGFSTSDNS(0.001)T(0.024)ANT(	3	0.84052	8942.1	10396.7
Tacc1	0.957822	2.25E-23	66.294	KYETQSLDLACS(0.958)QDEGAVI	4	-4.0745	6370.8	7079.3
Fxyd7	0.988932	3.50E-12	128.38	S(0.006)ES(0.989)PT(0.006)CK	2	0.22072	884538.8	830803.3
Usp13	0.999939	6.15E-15	55.588	GLQPGEEELPDIS(1)PPIVIPDDSKDR	3	2.1253	5753.0	6483.3
Serpinh1	0.805237	3.61E-11	66.826	LYGPS(0.132)S(0.805)VS(0.062)FA	3	1.2622	3289.5	3155.8
Hecw1	0.907196	1.47E-12	74.141	CS(0.166)PCS(0.916)S(0.907)PQN	3	0.036582	17812.7	19709.4
Emc4	0.73085	2.18E-09	58.373	S(0.183)DRGS(0.731)GQGDS(0.08	4	-0.10962	6785.4	6690.1
Piezo1	0.83897	8.31E-05	82.85	T(0.161)AS(0.839)ELLLDRR	3	-0.63782	47499.7	46249.2
Rtn3	0.999393	8.04E-15	135.02	T(0.001)LDS(0.999)PQGTNKDR	3	0.2571	74736.9	75645.4
Sgta	0.99994	9.43E-94	180.41	GPDRT(1)PPSEEDSAEAER	3	-0.41296	146663.8	148653.9
Nefl	0.811317	2.85E-84	120.37	S(0.001)YS(0.005)S(0.028)S(0.147	4	-0.59364	55552.6	51608.7
Utrn	0.96098	1.80E-87	153.82	AAQAS(0.039)LS(0.961)ALNDPSA	3	-2.2354	110175.0	114463.1
Fam83h	0.998426	3.08E-07	84.508	RGS(0.998)LT(0.002)FAGESSK	3	-0.41547	25094.0	25129.2
Tom70a	0.861483	6.61E-78	128.01	AS(0.03)PALGS(0.094)GPDGS(0.8	2	0.053498	86787.7	84947.3
Spg21	1	0.000234751	83.182	GQLDLS(1)QEEP	2	0.22014	10413.5	11181.9
Ccdc43	0.9866	1.47E-06	43.823	KAALLAQY(0.013)ADVT(0.987)DEE	4	0.28777	9298.6	9512.6
Ncoa7	0.993663	9.84E-13	63.376	IKDALPS(0.994)PGEWEDLAS(0.00	3	-0.031384	20848.0	20690.0
LOC10091	0.94616	0.0031006	57.106	S(0.946)AS(0.052)S(0.001)PKPDT(	2	-0.14861	9818.0	9090.8
Mpdz	0.643281	1.43E-10	51.323	S(0.178)S(0.178)T(0.643)PAIFASDI	3	0.10587	4098.2	3462.2
Gapvd1	0.986895	0.000175139	78.744	KDS(0.013)DDERS(0.987)DR	2	0.24167	5299.1	5942.3
Scrib	1	4.02E-05	70.68	MKS(1)LEQDALR	2	-1.1342	27454.3	23318.2
Cbx8	0.768553	0.00117735	41.227	VDEKPS(0.769)S(0.224)PGDS(0.00	3	-0.49799	38159.8	38219.8
Itsn1	1	7.84E-14	145.28	QVQQNS(1)LHR	3	0.26971	15046.8	14799.6
Safb	0.997165	0.000384783	93.096	KSRDS(0.997)ES(0.003)R	2	0.32317	47046.4	54504.6
Sbf1	0.987207	3.84E-23	145.92	LGLGT(0.987)LS(0.011)S(0.002)SL	3	-1.0827	4364.6	3886.1

102120.5	98228.6	95923.6	101650.0	0.0	0.1	149
43725.9	48391.6	47277.9	46563.0	0.0	0.6	21
80145.2	70620.7	76779.9	81339.0	0.0	0.5	479
27510.3	23573.2	25806.7	23574.0	0.0	0.7	1028;851
1505190.8	1448316.9	1324370.4	1419400.0	0.0	0.4	706;676
19656.5	16423.5	16568.3	19217.0	0.0	0.7	308
93096.6	89610.4	87408.7	93563.0	0.0	0.2	251
5076.1	4633.0	4933.9	5119.8	0.0	0.3	537
4951.6	4629.4	5085.1	5688.0	0.0	0.7	811
9883.3	8187.9	10345.6	9793.8	0.0	0.7	578
8036.3	7126.9	7297.6	6404.2	0.0	0.7	479
755342.2	776175.6	848588.7	770310.0	0.0	0.6	60
5399.5	5689.5	5772.1	5634.6	0.0	0.6	627
3285.3	2944.2	3364.9	3123.8	0.0	0.5	138
18069.1	17291.4	17672.2	18927.0	0.0	0.5	1193
6949.3	6337.2	6786.9	6676.1	0.0	0.3	36
48807.4	44242.6	46494.6	47460.0	0.0	0.3	1552
77738.0	70691.1	73836.9	76619.0	0.0	0.3	111
138573.8	135823.0	143679.2	141130.0	0.0	0.3	81
52436.8	51417.6	50169.6	53134.0	0.0	0.3	61
110403.4	105992.1	109653.5	109170.0	0.0	0.1	935
25657.9	24886.6	24280.7	24398.0	0.0	0.0	970
81427.0	79815.3	83345.7	82278.0	0.0	0.2	104
10920.0	10704.9	10713.2	10106.0	0.0	0.3	257
9224.8	8703.7	9527.6	8949.9	0.0	0.3	137
20452.8	19100.8	19339.2	21661.0	0.0	0.5	210
9495.9	8631.1	8915.5	9992.2	0.0	0.6	7
4028.8	3899.9	3582.0	3754.0	0.0	0.6	1560
5481.8	5119.7	5346.6	5747.3	0.0	0.6	969
25904.9	23459.9	25233.9	25647.0	0.0	0.6	1516;1488;1467
39355.6	38091.6	36099.9	38022.0	0.0	0.2	167
16020.7	14609.7	13807.9	16054.0	0.0	0.6	558
43982.5	47633.8	48413.8	45058.0	0.0	0.7	640
3913.0	3941.5	3989.9	3862.5	0.0	0.5	1042

Hdgrfp2	1	8.07E-40	121.82	GG(1)S(1)GEELEDEEPVKK	3	-1.0278	111019.4	120199.9
Zfp800	0.874599	0.00133525	52.484	HDGT(0.011)S(0.106)NS(0.875)PSI	2	0.43365	11278.6	11720.5
Sfpq	1	5.97E-06	45.363	GGLHDFRS(1)PPPGMGLNQNR	4	0.25177	1684.9	2001.0
LOC681411	1	4.41E-05	63.185	EDS(1)ARPGAHAK	4	1.1537	90767.7	88800.7
LOC69193	1	1.16E-14	113.52	AEEREPGAS(1)PLR	2	-0.56191	12139.1	12837.2
RGD15646	0.993477	1.81E-14	88.19	LRNS(0.993)LDS(0.001)S(0.002)DS	2	-0.80145	27132.3	27249.6
Syn1	0.57037	5.33E-17	70.26	GS(0.001)HS(0.026)QT(0.57)PS(0.4	2	-0.32542	19215.3	17951.0
Chd4	0.783171	0.00762017	47.621	MS(0.002)QPGS(0.214)PS(0.783)P	2	-0.29869	18065.5	20688.9
Brwd1	0.710868	2.85E-06	50.432	T(0.03)KLT(0.241)S(0.711)DAEDVS	3	-0.83655	29089.5	26693.4
Phtf1	1	0.0105365	65.179	AKVS(1)DGEK	3	0.25327	36933.7	36038.0
Nop58	0.501798	2.23E-53	96.848	HIKEEPLS(0.019)EEEEPCT(0.357)S(C	4	-0.38619	28557.5	29616.7
Lima1	0.996873	4.68E-05	48.354	TSS(0.003)VKS(0.997)PK	3	-0.81667	33548.9	34138.2
Rasa1	0.858578	0.00250635	54.539	KS(0.132)S(0.859)PGT(0.005)S(0.0	3	-2.6683	20701.3	21257.1
Rps11	0.999026	0.00783826	47.227	CPFT(0.001)GNVS(0.999)IR	2	-1.2443	7405.3	7764.3
Map7d2	0.774364	4.17E-58	116.1	S(0.223)NS(0.774)LDDS(0.002)T(0	3	2.1947	85940.9	82672.3
Strn	0.974984	4.10E-15	86.497	SELT(0.019)DS(0.975)AS(0.006)VL	3	1.3542	14375.4	13793.7
Rgs3	0.704341	8.86E-14	68.291	NPS(0.704)PS(0.296)QELPAGQDLF	4	0.47395	15292.5	14092.1
Son	0.826652	1.25E-15	107.51	DKS(0.004)VAS(0.827)PVVIS(0.169	3	-1.0646	24049.2	24512.8
Ebpl	1	3.94E-05	88.155	GHQEAS(1)LAR	3	0.34217	9866.7	12991.9
Usp47	0.999998	2.82E-40	121.44	STETSDFENIES(1)PLNER	3	0.4176	19868.8	19818.0
RGD15604	0.99957	9.07E-13	70.944	VEGS(1)PCREPSYPALR	3	0.074287	11465.6	10610.0
Ube2e2	0.679794	9.08E-06	49.592	VDDS(0.68)PS(0.19)T(0.12)S(0.01)	3	0.54623	5247.3	4222.8
Ufl1	0.78516	0.00801844	66.692	KS(0.007)S(0.785)VT(0.207)EE	3	-0.23999	20814.6	20889.6
Rab4b	0.999836	1.33E-05	54.004	MGSIGIQYGDIS(1)LR	2	-0.53158	19025.6	16146.6
Abcg3	0.993417	2.72E-26	78.976	RHS(0.993)DLPET(0.006)NTSDPET	4	0.83852	23061.7	22762.1
Srrm1	1	0.000408526	89.266	RS(1)PT(1)PPPR	2	0.11493	102670.6	107562.4
Atl1	0.988768	2.42E-59	163.8	SSDWS(0.011)S(0.989)EEEEPVRK	3	-2.3477	205140.9	207327.9
Pxn	0.707005	8.95E-24	67.728	TGSSS(0.001)PPGGLS(0.035)KPGS	3	-2.3054	33630.0	30970.3
Hdac4	0.784938	4.86E-73	142.2	AQS(0.13)S(0.785)PAS(0.085)ATFF	3	-0.66594	50125.9	47803.5
Deaf1	0.920537	3.25E-19	62.589	GPAAPLT(0.053)PGPQS(0.921)PPT	3	-0.87897	17285.5	17032.9
Itpkb	0.77671	7.58E-08	59.857	S(0.15)GS(0.777)PLPS(0.055)GS(0.	2	0.11724	3839.7	4344.1
Map1b	0.998078	2.73E-25	109.36	SPCDSGYS(0.998)YET(0.001)IEK	2	1.3591	21198.7	17663.6
Nefl	0.973907	3.37E-47	139.88	SAYSGLQS(0.002)S(0.012)S(0.012)	3	0.0070104	25313.4	28406.8
Rtn4	0.71293	1.36E-11	65.511	LS(0.003)T(0.006)EPS(0.191)PDFSI	2	0.58786	20933.9	19918.9

114566.1	108898.2	105206.9	121170.0	0.0	0.6	367;367
11684.4	10485.6	11019.9	12124.0	0.0	0.5	595
1616.1	1665.4	1861.0	1614.4	0.0	0.7	33
83272.0	79062.9	86825.2	88967.0	0.0	0.5	88
12089.0	12688.0	11166.3	12085.0	0.0	0.5	36
28947.6	26961.1	27965.3	25872.0	0.0	0.4	232
18444.9	17036.2	17359.1	19527.0	0.0	0.6	434
17627.3	17786.3	18083.6	18800.0	0.0	0.6	1524
29123.3	27656.3	28186.6	26486.0	0.0	0.4	1913
33872.6	33336.5	36392.7	33872.0	0.0	0.5	235
27478.4	29294.1	29215.7	24543.0	0.0	0.6	451
33702.3	30978.2	33863.2	33473.0	0.0	0.3	603
23161.3	19658.5	21252.1	22236.0	0.0	0.6	573
6861.7	6591.3	7636.3	7136.9	0.0	0.6	67
89847.3	84060.0	79572.3	87005.0	0.0	0.4	667
13172.8	12316.2	13564.3	14210.0	0.0	0.6	227
14204.5	14544.8	13396.5	14329.0	0.0	0.4	483
24063.0	23562.2	24235.8	22631.0	0.0	0.2	1789
11089.3	12727.6	10366.1	9828.9	0.0	0.8	200
18975.1	19122.8	18165.9	19603.0	0.0	0.3	890
11010.5	10322.4	10984.6	10781.0	0.0	0.4	129
4467.1	4326.1	4442.2	4749.0	0.0	0.7	11
19445.7	19593.6	19594.7	20120.0	0.0	0.3	724
16793.7	16431.2	16188.9	17781.0	0.0	0.6	193
23242.2	22038.8	22249.2	22699.0	0.0	0.0	18
98992.5	99067.9	98063.0	102790.0	0.0	0.3	507
199269.0	184287.2	207167.3	201890.0	0.0	0.4	23
33653.3	30171.9	30449.9	34678.0	0.0	0.6	298
52007.8	47180.6	49721.9	48528.0	0.0	0.3	609
16762.8	16155.1	16544.7	16847.0	0.0	0.1	91
4031.8	3927.1	4014.5	3907.2	0.0	0.5	24
21222.6	19358.2	19483.5	19440.0	0.0	0.6	1915;1789
25688.7	25200.1	24942.1	26885.0	0.0	0.5	436
23574.4	21181.9	20409.0	20904.0	0.0	0.6	693



Igf2bp2	0.638845	5.36E-09	60.925	ISYIPDEELS(0.049)S(0.312)PS(0.63	3	-0.36319	11306.6	11585.6
Rabep1	0.838276	2.14E-48	145.73	RAQS(0.838)T(0.143)DS(0.016)LG	3	-0.58709	109823.1	102224.8
Dlgap3	0.998672	1.37E-05	103.46	ERS(0.999)LDS(0.001)VDR	3	-1.0329	18663.0	18687.0
Hdac1	0.664394	0.00198142	57.785	IS(0.003)ICS(0.664)S(0.333)DKR	3	-0.46172	12500.5	12207.6
Atp1a2	0.993108	2.55E-13	118.51	AGQENIS(0.993)VS(0.007)K	3	0.4687	164899.9	160577.4
Arvcf	0.999573	0.000421523	122.98	RS(1)PSVDSTR	3	-0.1444	64700.5	71952.1
LOC100911	0.936106	9.27E-58	104.12	ANT(0.041)AS(0.936)PCNS(0.022)	3	0.33894	22956.7	26485.0
Cpeb2	0.921461	1.61E-35	74.81	SSLFPIDDSLLDDGHS(0.054)DQVG\	4	-1.5344	8703.1	7678.2
Nefh	0.769081	1.58E-15	92.096	S(0.001)AAGS(0.769)S(0.228)S(0.0	3	-0.090235	25045.1	25897.1
Snph	0.99906	7.67E-08	59.252	DRHS(0.999)ELDLHPS(0.001)GPR	4	-0.5274	10397.5	9714.2
Pex1	0.547105	5.30E-11	67.644	T(0.547)PS(0.448)QEGS(0.005)QD	3	-0.49722	10032.0	10857.5
Faf1	0.752288	2.45E-06	85.742	IRT(0.752)PS(0.248)GEFLER	3	-1.8866	40837.3	40262.3
Spire2	0.952679	2.18E-22	85.937	S(0.953)VEEEFPHIY(0.047)AHGCVI	4	-0.75679	3564.1	3696.8
Setd2	0.501604	2.37E-05	50.024	CEENT(0.49)S(0.502)PALDT(0.008	3	1.3408	14840.5	16662.1
Rab2a	0.533217	0.000126044	46.494	T(0.533)AS(0.467)NVEEAFINTAK	3	0.76634	8238.8	7941.6
Rab14	0.999215	1.57E-42	80.067	IYQNIQDGS(0.999)LDLNAAES(0.00	4	0.17788	4828.6	4313.5
Irf2bpl	0.994287	6.69E-41	128.05	RKAS(0.994)PEPPDS(0.005)AESALI	5	-0.43776	185604.8	192036.9
Ccdc86	0.947356	4.64E-15	50.029	VPPLDLVS(0.001)PQPQPET(0.018)	4	-0.51046	13764.7	14074.5
Slc9a1	0.941479	1.90E-70	121.23	SKEPSSPGTDDVFT(0.003)PGPS(0.0	3	0.29369	115236.7	114441.1
Cluh	0.998924	1.29E-07	88.561	ALEGMGS(0.999)PQT(0.001)AK	2	0.030052	87772.9	80782.3
Cxxc1	0.957706	6.35E-49	121.32	YFPS(0.001)S(0.025)LS(0.958)PVT(	4	1.2045	8841.9	8526.0
Atp1a3	0.996673	2.77E-19	73.672	QGAIIVAVT(0.003)GDGVNDS(0.99	3	0.38091	14362.2	13944.0
Kctd12	0.998801	4.68E-13	63.398	EVFGDT(0.001)LNES(0.999)RDPDF	3	0.11999	10936.3	9987.5
Ssh2	0.560079	2.48E-07	65.179	SDETAS(0.001)EHS(0.439)LS(0.56)	3	-0.92095	30124.7	25694.1
Prune2	0.954548	1.30E-29	81.017	SSGQES(0.04)ES(0.955)IPEY(0.005	4	-0.52117	42323.4	42888.3
Tulp4	0.690283	0.000112486	61.807	KPS(0.229)MGS(0.69)PS(0.075)LT(	3	-0.84489	29591.6	31150.2
Cwc27	0.999755	2.85E-14	65.278	AEKGS(1)EEEEAVPDGPVAEYR	4	2.4818	15036.1	13843.1
Arhgap27	0.743621	8.00E-56	131.56	KS(0.182)S(0.744)QDS(0.073)DT(0	4	0.025636	34730.8	31448.5
Vamp4	0.948559	4.65E-06	42.057	LDELQDKS(0.949)ES(0.044)LS(0.00	3	2.206	19019.7	19323.3
Pi4k2a	0.894237	5.82E-16	100.56	S(0.894)S(0.069)S(0.028)ES(0.006	2	0.928	24402.2	26032.0
Fam129a	0.7284	7.48E-67	128.33	HNLFEDNMALPS(0.002)ES(0.114)	3	0.44585	76353.0	77438.9
Cbx1	0.897593	5.36E-21	102.98	ADS(0.898)DS(0.095)EDKGEEES(0.0	4	0.359	91364.0	93605.2
Tom1l1	0.822349	1.85E-59	98.657	QEAGQIS(0.162)PS(0.822)RPT(0.0	5	-0.33225	25572.2	26695.6
Tex2	0.98309	0.0140425	60.899	T(0.002)S(0.015)S(0.983)LVLEK	2	-0.72377	8496.1	7891.4

11030.8	11068.9	10958.9	10878.0	0.0	0.1	96
96509.8	91235.1	110284.0	97789.0	0.0	0.7	407
17273.8	17329.9	17865.6	17791.0	0.0	0.3	838
12050.7	11879.6	11463.3	12314.0	0.0	0.3	409
165456.0	154775.3	162797.2	158650.0	0.0	0.2	439
66222.9	65261.7	64499.1	67042.0	0.0	0.4	280
25644.0	24396.0	24064.8	24378.0	0.0	0.5	594
8855.8	8036.1	8771.4	7674.4	0.0	0.6	471
23848.0	24051.7	24249.7	24251.0	0.0	0.3	43;43
8494.2	9239.2	9018.9	9492.1	0.0	0.6	347
9989.2	9667.3	9987.8	10300.0	0.0	0.4	1019
38767.9	38347.9	41187.7	36747.0	0.0	0.5	579
3980.2	3544.7	3841.9	3518.3	0.0	0.5	650
17130.1	14494.2	16650.5	16034.0	0.0	0.6	869
8168.3	7332.1	8895.8	7392.9	0.0	0.7	152
4976.5	4558.7	4630.3	4507.8	0.0	0.5	180
178945.0	176983.5	187568.4	175410.0	0.0	0.4	534
13805.2	13341.4	14292.0	12768.0	0.0	0.4	70
123072.6	110414.0	115830.3	115980.0	0.0	0.3	790
88783.7	79867.0	82376.4	87417.0	0.0	0.5	1302
9106.2	8526.6	8988.2	8169.8	0.0	0.4	229
14156.5	13521.8	13762.0	13913.0	0.0	0.1	712;722;719
10337.5	9653.7	10963.2	9712.4	0.0	0.6	258
29058.3	24524.7	30429.6	27393.0	0.0	0.7	924
45633.7	41171.5	40964.3	44810.0	0.0	0.5	2601
28528.1	27774.0	29071.4	29764.0	0.0	0.4	577
14156.5	13880.4	13983.2	13890.0	0.0	0.3	343
29658.8	26801.6	36407.6	29774.0	0.0	0.8	459
18022.3	16623.7	18859.4	19203.0	0.0	0.6	88
24008.7	25849.1	22860.4	23517.0	0.0	0.5	459
85442.8	76238.2	78688.5	77187.0	0.0	0.5	580
110115.9	91763.0	94110.1	100430.0	0.0	0.7	89
24387.8	25163.8	24006.0	25206.0	0.0	0.4	95
7970.4	7505.9	8641.2	7486.5	0.0	0.6	393

Eps15	0.787817	5.53E-33	80.813	FHDS(0.038)S(0.169)S(0.788)PLLT	3	-0.13475	19766.3	20423.5
Tns1	0.982599	8.94E-20	67.218	S(0.005)PVQCVS(0.983)PELALT(0.0	4	-0.33026	14545.9	12872.3
Zdhhc8	0.546299	0.00211568	51.286	T(0.449)S(0.546)PPT(0.005)PAMY	2	-1.3579	19735.3	22339.8
Rbm6	1	0.00160586	59.198	KEES(1)PPPPK	4	0.74387	48325.0	45781.9
Mycbp2	0.97953	1.10E-25	70.028	NRHS(0.98)LEIS(0.01)S(0.01)ALNM	5	1.1768	11862.7	11541.7
Epn2	0.997711	1.29E-15	90.385	AGGS(0.001)PAS(0.998)YHGST(0.0	2	0.91062	57548.0	58771.6
LOC10091	1	3.34E-13	107.06	KVMSDSEDDDY(1)	2	-0.50838	330074.0	338299.5
Tcof1	0.704476	0.00902686	78.149	AAS(0.296)VS(0.704)AK	2	0.51077	78170.6	69621.2
Plekhd1	0.705066	4.62E-15	57.629	S(0.014)NS(0.04)VS(0.705)PS(0.22	4	0.53495	37150.8	38240.6
LOC10036	0.966497	1.14E-08	49.266	ALPTAAEDGS(0.033)PVLGEGPAS(C	3	0.13908	15154.2	13752.0
Ivns1abp	0.953753	5.27E-13	67.994	S(0.046)LS(0.954)FEMQPDELLEK	2	-0.40371	48187.8	44759.6
Nelfe	0.998827	0.00550163	71.451	S(0.001)DS(0.999)FPERR	3	0.20511	44269.9	47040.1
Ppp1r3d	0.988046	2.34E-27	149.69	SLS(0.012)CLS(0.988)DMDGR	2	-1.9785	33350.9	32998.5
Tfg	0.792022	1.26E-05	63.691	EEKPAAS(0.792)DS(0.191)S(0.016)	3	1.4059	34956.2	32815.3
Map1b	0.930012	0.0165302	44.425	AAT(0.07)ES(0.93)KPK	3	0.34535	14897.8	13250.7
Mertk	0.999689	9.95E-18	67.252	FGGAFSEEDS(1)QLVVNYR	3	-0.35269	17382.1	18499.5
Vcp	0.99986	5.66E-16	123.29	LAIRES(1)IESEIR	3	-0.31445	65543.7	67252.9
Tmx1	0.990609	0.000245673	59.227	KPS(0.009)PEFS(0.991)QPLK	3	0.75016	17277.2	18474.2
Rps5	0.692109	3.63E-07	87.777	GS(0.005)S(0.303)NS(0.692)YAIK	2	-1.3707	12382.4	11553.8
Dpysl2	0.98692	2.76E-05	66.004	GS(0.987)PLVVIS(0.013)QGK	3	-0.56537	14681.9	14174.3
Nfatc2	0.715097	1.67E-13	66.122	LS(0.715)PGS(0.283)YPT(0.001)VI	3	-0.32116	14624.6	13236.5
Trafd1	0.5	0.000169541	70.524	AGPT(0.5)S(0.5)LGDIK	2	0.50918	24570.4	21026.8
Trafd1	0.5	0.000169541	70.524	AGPT(0.5)S(0.5)LGDIK	2	0.50918	24570.4	21026.8
Gphn	0.998596	3.14E-83	117.26	VKEVHDELEDLPS(1)PPPPLS(0.999)	5	-0.18083	300185.5	305885.7
Smad1	0.622538	6.59E-09	56.488	FCLGLLS(0.175)NVNRNS(0.623)T(C	3	-0.2779	2207.4	3333.5
Sdpr	0.55026	0.000201305	56.956	IREGES(0.448)S(0.55)AENET(0.001	3	0.25362	13437.9	13419.7
Arid5b	1	0.00668359	57.175	AVS(1)PLDPAK	2	-2.4903	34425.5	32174.7
Sptbn5	1	3.63E-05	64.73	ACS(1)PLGNLK	3	-0.36029	33682.5	29549.8
Nefl	1	0.0221545	68.456	FAS(1)FIER	2	-0.017986	30432.4	30393.3
Crtc3	0.98203	2.95E-38	86.791	QPPVSPLT(0.018)LS(0.982)PGPEAI	3	-0.79787	6236.9	6046.6
Ppip5k1	1	0.0695491	49.554	GVLS(1)PGR	2	0.73839	6829.2	5451.2
Tacc2	0.99991	1.06E-30	110.9	LDNTPAS(1)PPR	2	1.3893	133162.7	137794.4
Cpne3	0.823386	4.64E-15	109.83	S(0.823)S(0.177)PVEFECINEK	3	-1.1063	27672.5	28181.9
Tspan13	0.936307	1.91E-07	59.227	NYNPNDT(0.936)CPAS(0.064)CAK	3	-0.10485	8282.2	7912.2

22187.1	19823.5	19846.9	20852.0	0.0	0.5	108
12980.1	13434.9	13692.5	12070.0	0.0	0.6	1100
22313.8	22434.8	19940.9	20101.0	0.0	0.6	346
44866.1	44042.4	45134.2	45670.0	0.0	0.3	888
11143.6	11050.2	11386.4	11086.0	0.0	0.2	3165
56168.4	55713.0	54072.3	57584.0	0.0	0.2	195
326323.4	316689.4	318220.8	330270.0	0.0	0.2	104
73115.4	64051.8	76135.5	74171.0	0.0	0.7	294
37795.9	35514.4	37456.0	36862.0	0.0	0.2	10
15786.5	14969.4	13650.9	14748.0	0.0	0.6	1155
45353.7	42559.6	43964.0	47679.0	0.0	0.5	338
44229.5	42379.2	45204.7	43941.0	0.0	0.3	249
36235.1	32176.0	32825.5	34546.0	0.0	0.5	28
34939.4	30993.6	33163.2	35514.0	0.0	0.5	151
13816.9	12473.5	14447.0	13803.0	0.0	0.6	628;502
17198.2	16639.1	18075.0	16795.0	0.0	0.4	538
62512.6	63061.8	64304.6	62167.0	0.0	0.3	702
17239.7	17798.4	15712.3	17914.0	0.0	0.6	227
11759.0	12094.1	11451.6	11095.0	0.0	0.4	187
14496.2	13232.5	13985.3	14854.0	0.0	0.4	442;543
13920.2	13471.2	14199.1	12877.0	0.0	0.5	862
21757.0	22687.8	21898.7	20779.0	0.0	0.6	278
21757.0	22687.8	21898.7	20779.0	0.0	0.6	277
293500.5	279257.8	297713.5	296050.0	0.0	0.3	194
2551.2	2739.4	2523.2	2590.8	0.0	0.8	324
14286.4	12659.4	13083.4	14188.0	0.0	0.5	307
35463.2	31940.6	33385.5	33729.0	0.0	0.4	1028
33655.5	29029.0	30720.3	34283.0	0.0	0.7	2184
29178.6	28340.5	30144.3	28868.0	0.0	0.3	103
5581.9	6108.0	5817.2	5414.0	0.0	0.6	395
6006.8	5877.2	6116.5	5754.9	0.0	0.7	569
125691.6	126913.4	129263.2	128790.0	0.0	0.3	2207
27908.5	26759.8	27653.3	26883.0	0.0	0.1	242
7355.5	7202.2	7653.8	8000.3	0.0	0.6	139

U2surp	0.674691	0.00226607	44.37	S(0.186)RS(0.675)S(0.151)HKDS(0	4	0.14633	4486.3	4209.8
Cic	0.752944	3.02E-13	67.217	RKNS(0.753)T(0.238)DLDS(0.009)A	4	0.071575	31015.6	32746.2
Lxn	0.809522	5.70E-30	89.663	AAS(0.81)VAENCINY(0.19)QQGTP	3	-0.18821	12288.2	12321.6
Runx1t1	0.763659	2.13E-14	80.585	S(0.006)T(0.007)T(0.764)PGT(0.2C	2	-0.21383	8649.6	8150.8
Cfl1	0.944619	0.000296685	121.64	S(0.001)S(0.055)T(0.945)PEEVK	2	-0.14702	115669.6	105000.0
Tpr	0.995069	2.84E-21	77.031	EVVQS(0.995)PLNIS(0.005)LNEEGI	3	-0.41172	33625.2	31848.9
Vim	1	7.61E-09	121.86	QDVNAS(1)LAR	3	0.16772	32795.1	32737.4
Kcna6	0.560171	0.00222187	48.874	RS(0.56)S(0.435)YLPT(0.005)PHR	3	-0.53258	27370.8	27923.1
Rhbdf2	0.993053	0.00119561	54.951	RQAS(0.993)LS(0.007)QSIR	3	-1.4808	8438.8	9214.4
Ahnak	0.993573	1.42E-08	91.812	AEGPEVDVS(0.994)LS(0.006)K	3	0.92364	7484.8	6350.9
Psm1	0.999999	1.06E-21	77.689	TAGAVAGKT(1)PDAS(1)PEPK	4	-0.27672	196303.1	194164.9
Myh9l1	0.999149	1.04E-38	113.52	KGT(0.001)GDGS(0.999)DEEVDGK	3	-0.54341	2371643.1	2367361.6
Limch1	0.993448	1.88E-43	132.74	GSS(0.001)DGRGS(0.997)DS(0.99E	3	-0.86283	30877.3	29518.0
Prpf38b	0.976946	1.11E-20	128.74	S(0.002)QS(0.977)VEPES(0.022)QF	2	0.33987	89250.6	91399.3
Srrm2	1	1.48E-07	69.379	EGRPQEPT(1)PAKR	4	0.1397	36386.3	32680.4
Slc44a2	0.648967	0.015626	40.798	NDGS(0.001)AERPY(0.183)FMS(0.1	4	-0.39918	25642.6	27735.5
Pcif1	0.948172	1.95E-63	110.9	EEASLLS(0.05)HS(0.948)PGT(0.001	4	-0.38656	15527.5	18489.6
LOC10091	0.940712	1.92E-26	83.37	GKS(0.055)AS(0.941)S(0.973)PKPL	4	-0.15895	58204.0	63759.3
Arhgap15	0.934389	8.03E-13	73.498	NPS(0.934)FGS(0.066)LELFSFQR	3	0.64224	1840.4	2304.4
Cbfa2t2	0.927999	6.59E-22	86.258	QHS(0.928)PGS(0.07)T(0.002)DSL	3	-1.0079	2513.2	2440.5
Igf2r	0.575339	0.015003	44.425	SSGVS(0.064)Y(0.158)KY(0.575)S(	3	-0.11935	31606.0	35282.3
Mllt4	0.840098	6.16E-17	135.02	TS(0.001)S(0.159)VVT(0.84)LEVAK	2	0.0022001	31298.3	30758.6
Api5	1	1.01E-36	106.42	KS(1)PGGPK	2	-0.056688	117753.2	119651.5
Mprip	0.999775	1.97E-15	102.87	VESGYFS(1)LEK	2	0.52813	32438.5	32352.4
Dnajb4	1	0.00255658	54.772	NKS(1)PQAEK	3	-0.82469	16135.8	15885.5
Vps4b	0.999574	1.83E-17	71.309	GNDSDGEAES(1)DDPEKKK	4	-1.3816	109536.9	110481.3
Akt1	0.728221	1.92E-95	161.68	S(0.12)GS(0.728)PS(0.151)DNSGA	4	-0.51545	66214.0	66182.4
Frmd4b	0.731131	2.88E-63	108.71	S(0.007)GS(0.176)LES(0.731)QS(0.	4	-0.55896	22931.6	22481.3
Prpsap1	0.998444	1.58E-71	104.81	LGLAVIHGEAQCT(0.998)ELDMDDC	5	-0.33542	56344.6	58970.1
Ehd3	0.682917	6.51E-09	58.952	DKPMYDEIFY(0.125)T(0.192)LS(0.1	3	-0.31534	21674.6	21274.7
Dlgap1	0.891169	1.56E-06	57.148	AT(0.037)QPS(0.891)LT(0.071)ELT	3	0.69923	9634.5	9066.8
Map4	0.791964	1.18E-17	69.361	TSPS(0.011)KPS(0.196)S(0.792)AP	4	0.57934	19935.6	19986.9
Wdr20	0.545973	0.00403502	54.898	S(0.453)S(0.546)DKLNLVT(0.001)K	2	-0.74406	24150.6	21903.2
Arhgap23	0.797446	4.48E-24	67.496	VAPLAT(0.001)T(0.002)EDS(0.014)	4	-3.3304	13205.3	11890.6

3974.1	3857.2	4665.6	3774.4	0.0	0.7	968
31033.2	29276.5	30949.0	31779.0	0.0	0.4	2301
12136.9	12507.6	11154.5	12004.0	0.0	0.4	16
8702.6	7631.0	8508.8	8613.5	0.0	0.5	565
117270.3	107569.5	112090.1	108350.0	0.0	0.5	25
28346.1	31020.0	30375.1	29669.0	0.0	0.6	1236
32720.7	30620.7	32635.3	32111.0	0.0	0.2	214
26226.4	25897.5	26688.3	26540.0	0.0	0.2	511
8700.1	7804.3	9354.8	8420.7	0.0	0.6	83
7070.4	5850.4	7297.1	7145.0	0.0	0.7	1265
180754.9	180173.4	187044.7	187240.0	0.0	0.4	315
2615931.8	2262617.1	2461941.8	2414600.0	0.0	0.5	1943
28878.4	27409.9	28754.0	30492.0	0.0	0.5	74;77
90973.7	86540.4	88668.6	88450.0	0.0	0.0	450
33649.1	33764.4	32515.6	33424.0	0.0	0.4	2556
31000.2	26786.2	27528.3	27590.0	0.0	0.6	686
17008.7	16559.9	16693.3	16277.0	0.0	0.6	19
52773.2	55512.8	53842.6	60261.0	0.0	0.7	9
2051.8	1996.1	2139.9	1879.1	0.0	0.7	205
2522.6	2130.1	2847.0	2280.3	0.0	0.8	380
33904.6	31552.3	32700.5	33590.0	0.0	0.5	2341
31892.4	29868.3	28570.2	32762.0	0.0	0.5	1093
113341.8	110205.0	110412.3	119870.0	0.0	0.4	469
33511.7	30475.5	33006.1	31947.0	0.0	0.3	275;275
16994.9	17002.1	13862.4	16719.0	0.0	0.7	38
110520.5	103344.5	99795.3	117740.0	0.0	0.6	108
61778.0	62541.5	64094.1	61865.0	0.0	0.3	124
24136.5	22294.0	22098.5	23126.0	0.0	0.3	532
55358.2	53030.2	56615.7	56045.0	0.0	0.3	131
21659.1	21542.7	19765.6	21414.0	0.0	0.3	386
9434.4	9111.8	9329.0	8873.7	0.0	0.3	389
19650.1	18682.8	20244.4	18907.0	0.0	0.3	1843;767
24968.0	21912.3	23510.2	23527.0	0.0	0.6	431
12447.8	12589.0	11104.3	12755.0	0.0	0.6	337



Clec14a	0.605241	2.87E-05	57.788	HNS(0.605)AQCT(0.338)DT(0.057)	3	0.33189	9050.2	9062.8
Irf2bp2	1	3.01E-21	103.53	RKPS(1)PEPEGEVGP	5	1.3093	99278.6	97995.1
Tmpo	0.574018	2.74E-33	113.86	S(0.134)S(0.574)T(0.285)PLPT(0.0	2	0.51293	19619.6	20143.7
Srrm3	0.989836	0.0077258	53.798	GKDS(0.01)QS(0.99)PR	3	0.3784	27646.3	28563.7
Eif3d	0.991756	0.00493998	88.819	DS(0.008)S(0.992)VEVR	2	0.62085	8449.1	7553.1
Cnp	1	8.40E-15	118.21	NQWQLS(1)LDDLKK	3	-0.57929	265204.2	261965.2
Itgb4	0.999954	0.0119502	63.624	SAKQS(1)LLK	2	-0.52726	17392.8	18149.6
Rabgef1	0.526788	0.000306118	43.476	KQES(0.13)ES(0.343)WS(0.527)PE	3	1.4938	11843.7	10901.7
Ehbp11	0.898187	1.22E-59	95.205	GQGSEPAAIAGGQVGPET(0.028)PF	4	2.1434	20800.3	20578.1
Kndc1	0.682468	5.55E-23	67.799	VVNGPASPSEST(0.001)S(0.003)EE	4	0.067343	8041.9	8468.7
Ehbp1	1	1.72E-06	94.023	KPS(1)EDEVLNK	3	1.8127	59997.7	55129.8
Ssfa2	0.999651	1.74E-22	144.8	ASVALT(1)PTAPSR	3	1.1783	32073.5	32622.2
Frm3	0.764253	8.10E-08	58.98	MDVSES(0.002)LIS(0.047)S(0.187)	3	0.4872	11235.6	11077.7
Hivep3	0.835786	0.00868126	68.536	RS(0.836)S(0.16)VES(0.005)PK	2	-0.037209	5872.8	7406.4
Dock5	0.510432	0.0148289	60.436	S(0.49)LQLVDS(0.51)R	2	0.93049	10038.4	9070.7
Map2	0.816621	4.88E-140	123.78	AS(0.081)QPS(0.703)PPAHEAGY(0	4	0.9059	52394.4	55970.1
Sgip1	0.768387	1.20E-54	86.138	LPPGKPGVGDVS(0.009)RPF(0.22)	6	-0.012857	8947.1	8317.4
Rps3a	0.82891	9.37E-22	69.845	LMELHGEGGS(0.829)S(0.171)GK	3	-0.6649	68045.9	70757.6
Madd	0.998328	5.61E-30	132.64	KRS(0.998)PT(0.002)ENVNTPVGK	3	-0.048348	97258.2	98762.9
LOC100911	0.992651	2.25E-13	102.5	VS(0.993)GGFPEDS(0.004)S(0.003	3	0.32694	103127.4	106412.8
Map1b	0.970636	7.25E-34	102.84	S(0.025)PS(0.009)LS(0.971)PS(0.9	2	0.73731	313650.8	332145.8
Stk11ip	0.988497	5.22E-18	72.564	T(0.011)PALGT(0.988)PPLDAQSLE	3	-0.33919	17380.9	18750.7
Dock6	0.648228	1.11E-09	51.524	T(0.001)GPEDVDDS(0.648)QHCS(C	3	-1.2309	6984.3	6977.6
Fam131b	0.999868	4.98E-09	70.451	RNS(1)NAYGIGALAK	3	0.25971	7901.3	7033.4
Limch1	0.801341	3.49E-12	66.137	CS(0.801)PT(0.198)VALVEFSSSPQL	3	1.351	12399.1	11740.3
Edc4	0.999994	1.85E-21	143.25	ETCSTLTES(1)PR	2	0.27989	9328.8	8819.2
Necab1	0.772843	7.42E-23	76.799	ETS(0.001)PS(0.002)S(0.01)NNS(0	3	0.56969	19185.4	20342.3
Prkar1a	0.527942	1.66E-05	44.848	T(0.528)DS(0.47)REDEIS(0.002)PP	4	0.97074	10403.7	9182.5
Map1b	0.66632	1.09E-74	97.068	QS(0.334)PDHPT(0.666)VGAGMLF	5	-0.78011	5014.0	5074.1
Fam65a	0.991803	3.21E-09	123.26	AYS(0.001)T(0.001)GS(0.992)PGS(	2	-0.73283	14873.9	14281.8
LOC69188	0.811821	6.19E-84	116.27	T(0.03)GS(0.111)IQCVS(0.812)H	4	-0.51911	16195.4	16016.1
Snap91	0.999916	3.01E-21	79.942	KPGNNEGS(1)GAPS(0.998)PLS(0.0	3	1.1862	79393.1	80548.6
Rtn4	0.925151	3.27E-69	135.17	AS(0.009)IS(0.925)PS(0.066)NVSA	3	-1.2046	116187.3	119761.2
Med12	0.999863	1.31E-38	82.126	GDLAFGTPGPRPPS(1)PFDDPADDP	4	-0.15271	29738.3	31400.3



7952.1	8354.4	8057.3	8893.1	0.0	0.6	457
104248.7	95726.2	96860.8	100140.0	0.0	0.3	344;194
20129.2	20203.0	18238.5	19704.0	0.0	0.4	158;158
23431.7	25766.6	25862.3	25690.0	0.0	0.6	362
8011.6	8161.4	7267.0	7885.3	0.0	0.6	161
267289.0	255135.7	261849.8	254310.0	0.0	0.1	169
16705.3	16037.4	16324.6	18364.0	0.0	0.6	899
11338.4	11031.5	11281.7	10778.0	0.0	0.3	401
21521.7	19996.2	19323.2	21750.0	0.0	0.5	284;284
7750.2	7807.8	7459.6	8287.4	0.0	0.5	967
52939.3	52871.8	53711.1	56596.0	0.0	0.5	996
29724.8	28805.7	31445.9	31424.0	0.0	0.5	1152
10755.0	10484.7	11585.2	10038.0	0.0	0.5	364
6864.4	5818.2	7081.6	6658.6	0.0	0.8	493
10083.8	9445.5	9404.9	9494.6	0.0	0.4	1771
58801.2	53433.8	53888.5	54990.0	0.0	0.4	739;653
8279.3	8186.6	8042.8	8572.8	0.0	0.4	518
64342.7	63816.4	65324.1	68109.0	0.0	0.4	237
96582.2	92720.0	95874.5	95521.0	0.0	0.1	1038
108423.1	102959.5	101861.0	103920.0	0.0	0.1	123
326046.6	298639.1	330478.1	314550.0	0.0	0.4	1252;1126
16677.6	16055.0	17347.3	17876.0	0.0	0.6	455
6291.9	5262.2	7377.6	7026.9	0.0	0.8	172
7585.1	7217.9	7219.5	7429.6	0.0	0.5	75
12162.5	11794.9	12190.0	11265.0	0.0	0.3	513;504
9500.3	8666.4	9185.6	8995.7	0.0	0.4	850
19151.8	18605.8	18132.7	20242.0	0.0	0.5	14
9579.0	8934.5	9187.3	10199.0	0.0	0.6	75
5406.6	5158.0	4698.8	5189.3	0.0	0.5	1664;1538
12578.7	14046.5	13130.4	13350.0	0.0	0.6	167
18082.9	14937.5	17120.7	16781.0	0.0	0.6	1116
75389.4	73917.3	77337.8	77268.0	0.0	0.3	296
116855.1	110535.0	117433.3	114630.0	0.0	0.2	922
29965.4	29735.2	29512.7	29221.0	0.0	0.2	636

Gpr161	0.843027	0.000701503	43.794	KNS(0.843)S(0.1)T(0.029)S(0.012)	3	0.19956	5290.6	5347.8
Tnik	1	0.00156561	84.615	EVEERS(1)R	3	-0.042917	16041.5	15719.9
Gigyf2	0.999926	5.25E-09	106.32	SQS(1)WEERGDR	3	-0.039366	29589.2	32112.2
Dmxl2	0.73721	1.16E-17	80.142	TIS(0.008)VS(0.008)GS(0.737)T(0.008)	3	0.9156	28100.7	28694.2
Scaf4	0.802517	1.52E-53	92.565	KPENEVAQNGGAEAS(0.154)HT(0.001)	4	-0.057718	36478.1	35922.9
Acad9	1	0.0178503	42.718	KLRDS(1)LGR	3	-0.40498	15167.3	14776.5
Pou3f2	0.960239	1.60E-28	106.75	WLEEADS(0.001)S(0.01)S(0.009)G	3	1.5253	13322.2	13891.3
Nefh	0.999996	0	320.42	TSVSSVSAS(1)PSR	1	-0.383	462366.0	447365.7
Anxa2	0.53292	2.46E-26	80.236	LS(0.066)LEGDHS(0.533)T(0.396)P	3	1.5533	41809.4	39677.6
Fbxo42	0.837178	1.50E-91	126.74	APLS(0.837)PS(0.157)LNS(0.005)R	2	0.059218	38487.8	38812.1
Dmxl2	0.79812	1.15E-14	113.22	VS(0.001)VDS(0.008)NLFVY(0.798)	2	0.20963	19383.4	17621.9
Stard8	0.999988	5.13E-14	109.1	RDS(1)GVGASLTR	3	0.57894	24164.9	23241.4
Nfic	0.866104	1.63E-22	90.718	NWTEDEGGIS(0.866)S(0.134)PV	4	-0.72271	73481.0	73105.0
Tmem176l	0.999735	9.40E-30	117.65	LLGGDS(1)APAS(0.934)PT(0.066)K	4	-1.0136	901307.9	942776.4
Herc1	0.747749	3.30E-63	117.62	RVS(0.748)T(0.252)DLPEGQDVYTA	4	1.1039	7490.9	8523.8
Pak4	0.999983	3.37E-84	136.49	DKRPLS(1)GPDVSTPQPGSLASETK	6	0.45215	58812.2	61590.7
Khsrp	0.691502	1.41E-15	57.145	KLAS(0.01)QGDS(0.692)IGS(0.299)	4	1.0684	10568.2	12073.7
Sin3a	1	0.000105405	62.287	KHNGVGGG(1)PPK	3	0.1318	13584.6	14146.9
Eif4g3	0.550422	3.53E-24	97.271	GS(0.55)S(0.448)KDLLDNQS(0.001)	4	0.82375	11154.7	12428.0
Srrm2	0.999785	0.0037223	61.815	S(1)RS(0.999)PPVT(0.001)R	3	0.23446	33955.6	36565.7
Srrm2	0.99894	0.0037223	61.815	S(1)RS(0.999)PPVT(0.001)R	3	0.23446	33955.6	36565.7
Hdgf	1	2.29E-102	152.34	RAGDMLEDS(1)PK	4	-0.14142	1144674.1	1105251.4
Atrx	0.995782	3.26E-25	137.61	LS(0.004)LS(0.996)DGES(1)GEEKK	3	1.1697	74410.1	77965.4
Rsf1	1	5.72E-30	123.63	LS(1)PIPEEVVR	2	-1.4698	18186.0	17789.8
Wnk1	0.974917	0.00742575	103.8	S(0.021)S(0.004)S(0.975)LGNK	2	-0.39525	70162.9	65290.6
Tmem55a	0.985712	4.09E-76	107.95	SPLLS(0.001)AS(0.012)HS(0.986)G	4	0.4344	33452.3	35152.8
Gjb1	1	0.0103085	102.62	S(1)NPPS(1)RK	2	0.55277	103815.6	104235.4
Cdk14	0.73878	1.39E-06	78.401	HS(0.004)S(0.144)PS(0.739)S(0.19)	2	0.45903	66901.0	69683.7
Sec24c	0.806802	1.36E-14	68.41	RLDPDAIPS(0.807)PQLT(0.193)ELF	3	-1.0739	18746.5	21802.3
Camsap1	0.575209	5.50E-33	111.58	T(0.425)S(0.575)PQAPGLVASIR	2	0.50613	81804.7	82412.3
Lifr	0.903206	6.35E-10	56.292	STDSNS(0.002)EVVS(0.045)FGS(0.002)	3	-0.5256	18255.2	18982.1
Ssh1	0.920721	0.000518445	87.066	RAS(0.921)T(0.079)QLER	3	0.30533	9057.2	9479.8
Nup188	0.590346	5.26E-13	63.125	RGAPS(0.59)S(0.41)PAAGVLPSPQC	4	-0.66499	3209.4	3445.2
Specc1l	0.825222	9.85E-05	79.875	S(0.157)KS(0.825)DNQIS(0.017)DK	3	0.067435	47335.1	45559.3

5829.1	5149.8	5599.8	5241.8	0.0	0.5	241
12326.4	14178.5	15163.0	13472.0	0.0	0.8	457
28769.8	28146.9	30815.4	28895.0	0.0	0.5	161
24248.3	27426.4	26098.4	25177.0	0.0	0.6	1387;1405
36788.7	34427.6	35803.8	35805.0	0.0	0.1	718
12521.3	12707.8	14353.0	14179.0	0.0	0.7	478
11631.2	12906.9	12533.1	12284.0	0.0	0.6	343
425271.2	438619.9	434809.8	423060.0	0.0	0.3	61;61
41450.8	38472.2	39215.0	41706.0	0.0	0.4	18
35032.0	35565.0	36914.2	36617.0	0.0	0.4	365
17992.4	18131.7	16457.1	18825.0	0.0	0.6	1132;1150
25475.8	22118.0	25147.3	23518.0	0.0	0.6	472;549
73226.1	71586.5	71122.5	70775.0	0.0	0.0	322
880916.7	896632.1	868583.1	881370.0	0.0	0.3	249
7684.6	7555.4	8009.8	7452.1	0.0	0.6	1428
61973.9	57226.5	59125.9	60777.0	0.0	0.3	181
8879.0	8930.0	10632.2	11052.0	0.0	0.8	130
13639.1	12358.0	13754.5	14068.0	0.0	0.5	861
12421.2	12603.3	10412.9	11952.0	0.0	0.7	1187
33244.5	33283.7	35403.1	32095.0	0.0	0.5	1916
33244.5	33283.7	35403.1	32095.0	0.0	0.5	1918
1159075.7	1086848.2	1101771.9	1122400.0	0.0	0.2	165
80677.5	74137.3	73631.7	78586.0	0.0	0.4	1329
18762.2	17221.0	17058.8	18886.0	0.0	0.5	608
63334.5	63744.9	63523.4	65811.0	0.0	0.4	2383
33607.6	33700.6	32642.8	32934.0	0.0	0.2	18
105104.7	97859.0	101014.6	105290.0	0.0	0.2	229
64253.3	65200.1	63753.2	66121.0	0.0	0.3	122
19705.5	19402.2	20219.8	18904.0	0.0	0.6	290
88363.2	81182.5	79932.4	84222.0	0.0	0.4	572
18617.4	16902.0	19497.4	17854.0	0.0	0.5	1055
9778.0	9174.7	9063.1	9265.6	0.0	0.3	466
2655.3	3168.0	3230.2	2644.9	0.0	0.8	1709
44814.0	42830.2	45907.9	45025.0	0.0	0.3	171

Pitpnm2	0.536796	5.37E-152	135.01	YPLGDGCS(0.001)T(0.002)LLADAL	4	0.21318	4144.0	4312.8
Akap9	1	1.21E-08	89.992	DGFGLS(1)PGIEK	2	-0.77026	37650.5	36492.2
Lmna	0.772626	4.11E-21	109.1	IDS(0.227)LS(0.773)AQLSQLQK	3	-0.34995	29480.7	30325.3
Fkbp15	0.831762	4.58E-17	58.432	VLGPPT(0.003)S(0.02)IPPKPPGPV1	4	0.053019	32265.6	35433.6
Oxsr1	0.824719	0.0497904	48.073	RVPGS(0.175)S(0.825)GR	2	-0.98297	3728.4	3783.1
Dst	1	0.0734217	50.473	S(1)RDAALR	2	0.35856	7618.6	7664.5
Zbtb20	0.53498	1.72E-19	54.155	EGQVEAAQPEQAAEAPAES(0.003)S	4	0.13755	11344.3	10490.1
Rem2	0.790505	2.29E-42	95.834	GHAGGQRPEPS(0.791)S(0.209)PD	4	0.043589	44735.0	41954.8
Dtd1	0.918153	0.000297086	73.573	GPSES(0.082)S(0.918)KER	2	-0.11834	35182.9	32039.8
Rabgef1	0.926932	0.00138461	66.55	YMS(0.001)GQT(0.072)S(0.927)PR	2	-0.44017	18763.2	19398.9
Synrg	0.640083	4.50E-06	53.924	FS(0.006)S(0.031)T(0.121)S(0.179)	3	1.489	23597.2	24759.6
Rps10l1	0.995229	2.97E-17	97.129	AEAGAGS(0.995)AT(0.005)EFQFR	3	0.81037	24865.0	26395.1
Sytl3	0.990021	0.0145214	49.298	S(0.99)QNDMT(0.007)S(0.003)EK	2	0.85475	9046.5	8691.6
Phlpp1	0.997173	0.000556976	59.294	S(0.002)S(0.001)QPRPPS(0.997)PK	4	-0.25097	71012.1	79847.7
Tns3	1	0.00902686	78.149	VMIGS(1)PK	2	1.5776	44201.9	43358.8
Vamp4	0.805616	1.94E-06	44.529	LDELQDKS(0.157)ES(0.806)LS(0.003)	3	1.0522	18262.3	18802.2
Pxn	0.785304	3.15E-46	100.7	SAEPSPTVMS(0.011)S(0.193)S(0.700)	3	0.080581	13205.3	12396.2
Ssbp3	0.583084	1.81E-11	62.739	NS(0.207)PNNIS(0.201)GIS(0.583)	2	1.1076	13384.2	13436.1
Casp8	0.804036	2.03E-46	105.35	RMS(0.804)T(0.196)EGGEELPVSVL	4	-0.79691	23365.8	23087.9
LOC10255	0.817882	6.51E-13	72.676	GNKDPLS(0.182)S(0.818)PGGPGSF	3	-0.39448	35555.0	34525.4
Prkca	0.999102	3.19E-95	164.18	T(0.999)FCGT(0.001)PDYIAPETIAYC	3	1.724	597580.1	613734.8
Slc6a17	0.504564	0.000149948	49.595	YGS(0.271)GYLLAS(0.505)T(0.187)	2	-0.35862	3632.7	3713.7
Prrc2a	0.5	1.03E-05	44.391	EGPEPPEEVPAPT(0.5)T(0.5)PPAPK	4	-0.23209	34206.0	34928.0
Prune2	0.53123	4.35E-35	73.758	SSPFY(0.001)DS(0.014)QQS(0.531)	4	-0.37467	3903.3	4020.4
RGD15621	0.988704	2.90E-05	46.415	S(0.011)Y(0.003)ENRS(0.989)PS(0.003)	4	-0.67624	53928.2	60952.3
RGD15621	0.997681	2.90E-05	46.415	S(0.011)Y(0.003)ENRS(0.989)PS(0.003)	4	-0.67624	53928.2	60952.3
Ppp1r13b	0.527976	1.23E-83	120.93	EAEPEGSPVPGEGS(0.528)T(0.092)	5	-0.6696	6480.5	5972.5
Fam102b	0.999367	8.24E-17	95.662	CPVKQDS(0.999)VES(0.001)QLKR	3	1.3853	34324.1	34846.8
Stoml1	0.765739	0.000352316	44.045	FQQS(0.234)S(0.766)FGFLGS(0.003)	3	0.33243	4121.7	4456.1
Tgfb1i1	1	4.49E-14	115.04	EGCPS(1)PPGQTNK	3	-0.68912	72624.6	70262.9
Usp35	1	5.63E-43	132.67	DAAT(1)PPREQACGPEGSR	3	0.028633	13299.6	14557.2
Ralgapa1	1	2.73E-05	51.03	GVGHEFQKVS(1)VDK	4	0.8692	1575.8	1959.1
Ube2j1	0.852625	4.23E-37	141	S(0.118)S(0.029)AS(0.853)PDVLQC	2	-0.3252	13149.3	13413.1
Mid1	0.994633	2.25E-21	132.51	ASVS(0.001)GPNS(0.995)PS(0.002)	3	-2.0999	40445.0	43784.5

4199.5	4141.5	4165.9	3986.6	0.0	0.2	806
32717.5	35860.9	34503.3	33437.0	0.0	0.6	3669
27685.0	28141.4	29024.4	27821.0	0.0	0.4	303
32908.1	31670.0	33341.7	32717.0	0.0	0.4	1050
3856.9	3526.8	4196.9	3319.6	0.0	0.7	325
7186.2	6934.0	7165.9	7726.8	0.0	0.5	59
12452.1	10564.3	11377.9	11364.0	0.0	0.6	358
41538.1	39453.4	41797.9	43312.0	0.0	0.5	295
34443.3	34246.1	33479.5	31035.0	0.0	0.5	182
19004.9	18334.1	17977.8	19222.0	0.0	0.3	391
21424.9	21212.7	23583.9	22992.0	0.0	0.6	881
25170.3	23183.9	24877.0	26187.0	0.0	0.5	146
9051.3	8655.8	8705.5	8663.3	0.0	0.1	203
66114.3	69407.5	67947.6	73429.0	0.0	0.7	374
40527.7	41122.0	42038.3	41274.0	0.0	0.3	1440
17189.7	17108.8	18171.2	17427.0	0.0	0.4	90
13971.3	12440.5	12426.2	13578.0	0.0	0.6	137
15731.1	13885.9	12697.6	14755.0	0.0	0.7	294
22669.4	21052.1	23734.6	22366.0	0.0	0.5	188
35823.1	33116.5	34019.2	35749.0	0.0	0.3	199
590258.8	601722.0	562876.1	585630.0	0.0	0.3	497
3709.4	3225.7	3592.8	3922.2	0.0	0.6	721
35114.0	33225.4	32466.5	35586.0	0.0	0.4	608
3746.2	3913.9	3832.6	3591.0	0.0	0.4	1505
54908.9	49525.7	54566.0	60863.0	0.0	0.7	78
54908.9	49525.7	54566.0	60863.0	0.0	0.7	80
7682.6	6526.8	6273.7	6762.7	0.0	0.7	614
32858.0	31224.6	35467.2	32437.0	0.0	0.5	293
3782.2	4035.4	3900.1	4073.3	0.0	0.6	22
65282.8	70490.9	63486.0	68280.0	0.0	0.5	155
12087.9	12551.6	14178.8	12080.0	0.0	0.7	736
1566.5	1628.8	1812.1	1515.6	0.0	0.8	710
12899.2	13203.9	12508.5	12630.0	0.0	0.2	228
41312.4	39533.7	40088.0	42360.0	0.0	0.4	96

Dsp	0.571817	0.00451621	53.237	LLEAAS(0.063)VS(0.572)S(0.365)K	2	-0.38117	6538.7	6268.0
Cdk14	0.932057	9.54E-08	84.859	RHS(0.795)S(0.112)PS(0.159)S(0.9	3	0.015055	53829.2	54711.9
Champ1	0.791358	5.18E-35	74.282	ET(0.001)ES(0.005)GKS(0.044)PS(	4	-0.73897	15803.0	16691.8
Synrg	0.99389	0.00463669	55.112	EDS(0.006)AS(0.994)VK	3	0.34882	16521.0	17359.8
Fry	0.999488	1.43E-15	87.157	GLDQYTLAS(0.999)FGEGDR	3	-0.38772	24848.3	25818.1
Pkp4	0.785942	2.84E-08	96.533	T(0.214)GS(0.786)VGIGNLQR	2	0.3736	36571.1	33344.0
Ttbk1	0.848378	1.40E-25	75.103	SET(0.007)S(0.029)QPPT(0.894)PC	4	-0.78099	11012.2	11045.9
Ttbk1	0.935768	1.40E-25	75.103	S(0.001)ET(0.004)S(0.014)QPPT(0.	3	-0.55423	11012.2	11045.9
Zfyve28	0.954642	2.91E-07	54.764	AGS(0.045)EAS(0.955)PRGEASPAR	3	0.29546	3520.0	3524.3
Sphkap	0.849632	2.26E-13	69.088	KDAVT(0.003)EGNCS(0.993)PVS(0	3	1.2374	36658.2	43222.8
Ncoa5	0.712205	0.0394763	42.941	GPPGPES(0.288)QS(0.712)R	2	0.74376	4556.4	5751.3
Uhrf1bp1l	0.807661	4.07E-07	43.903	S(0.011)PAS(0.03)ES(0.086)GS(0.8	3	0.73957	3404.4	4188.3
Hdac7	0.734859	0.00218918	57.003	KES(0.265)APPS(0.735)LR	3	0.55577	40786.1	43527.8
Dock7	0.575848	1.75E-06	40.064	S(0.576)RS(0.509)LS(0.666)NS(0.2	3	0.38062	1744.8	2085.1
Limch1	0.999966	0.0017123	118.21	SDSLS(1)PPR	2	0.51754	43393.3	42536.2
Cfl1	0.893489	0.0106493	42.976	S(0.893)S(0.053)T(0.053)PEEVKK	3	0.49089	21743.7	19153.2
Kcnq2	0.946789	3.67E-13	74.789	RSPSADQSLDDS(0.947)PS(0.053)K	3	0.22639	97750.8	96221.4
Map1b	0.600065	3.56E-98	116.24	ASAEGEAT(0.01)AVVS(0.427)PGV1	4	0.48411	49832.5	26716.5
Tmem55b	1	4.55E-59	121.5	IINLGPVHPGPLS(1)PEPQPMGVR	3	-1.2002	27841.9	30782.7
Eif2b4	0.689065	1.89E-25	71.117	KGEQGGPS(0.689)PQACPS(0.152)	3	1.4775	15595.5	16655.6
Tns1	0.563116	2.72E-49	91.437	NLEEAGS(0.003)MRVS(0.434)PS(0	4	0.98719	19245.1	20342.3
Ints12	0.642143	5.06E-17	140.09	S(0.358)S(0.642)PITVQTSK	3	-0.15253	52658.0	52850.5
Nyap2	0.862256	7.25E-11	52.17	DQGGALGPAPGAS(0.009)ILS(0.02	3	0.12725	23413.5	20694.4
Rusc2	0.992134	0.000207342	72.272	AAGS(0.008)GS(0.992)PPLR	2	-0.073893	10432.5	13034.6
Fhod1	0.511478	4.82E-16	60.735	ELWDS(0.028)S(0.511)EPAS(0.295	4	0.40372	9809.4	9975.6
Spry4	0.971268	0.00574556	71.066	HT(0.029)NS(0.971)VICK	3	0.045607	32196.4	38599.3
Abcf1	0.940254	0.000296215	52.247	ANDPY(0.94)AHLS(0.06)KK	4	-0.74276	4367.2	4202.7
Plec	0.889031	2.42E-47	117.48	SSS(0.046)VGS(0.889)S(0.052)S(0.	2	0.26561	80229.2	81478.8
Yipf4	1	3.24E-06	69.03	LNLGVS(1)GDFIK	3	0.051675	4546.3	3909.7
Zfc3h1	0.950165	6.52E-07	40.208	AFKPEEAS(0.002)S(0.005)NS(0.03:	4	1.3308	6647.6	5613.2
Phc3	0.99987	7.67E-19	69.845	MDRT(1)PPPPTLSPAATVGR	3	0.57821	37458.5	38665.2
Bcl2l12	0.52986	0.00579386	70.908	LS(0.47)AGS(0.53)FAR	2	0.47646	21852.3	19493.3
Abcd3	1	4.61E-15	54.003	GIEGAQAS(1)PLIPGAGEIINADNIIK	3	1.2127	5780.7	6771.4
Eprs	0.998328	0.0154455	55.064	ET(0.002)GS(0.998)APK	2	-0.45229	28664.9	26315.0

6265.8	6496.1	5872.3	6163.5	0.0	0.4	2816
51726.7	52187.6	52313.3	51228.0	0.0	0.2	123
16533.9	14386.4	16342.8	16911.0	0.0	0.6	117
15388.3	15744.8	16815.1	15314.0	0.0	0.6	901
25828.2	24379.5	24214.4	25735.0	0.0	0.3	2647
36283.0	34477.1	35580.5	33134.0	0.0	0.5	446
10026.2	10281.8	11050.8	9843.8	0.0	0.6	642
10026.2	10281.8	11050.8	9843.8	0.0	0.6	635
3343.5	2981.4	4116.0	2996.4	0.0	0.8	378
37115.5	40411.4	38329.1	34946.0	0.0	0.7	1412
4808.3	5346.7	4813.2	4528.8	0.0	0.8	163
3890.0	3623.3	3724.1	3810.7	0.0	0.7	890
42140.7	39840.5	41840.6	41199.0	0.0	0.3	208
2310.1	1931.9	2094.4	1940.2	0.0	0.8	894
44249.7	41206.7	43398.7	41898.0	0.0	0.2	33;36
19992.9	18411.1	21227.5	19533.0	0.0	0.6	23
92386.4	91253.8	95973.8	91053.0	0.0	0.3	448
29932.4	26669.6	38876.2	37932.0	0.0	0.9	1295;1169
27480.5	26802.7	29276.6	27598.0	0.0	0.6	162
15122.2	15334.5	15607.5	15096.0	0.0	0.4	126
19389.3	18311.0	20498.7	18505.0	0.0	0.5	156
54052.9	52241.5	51361.2	51463.0	0.0	0.0	127
23433.8	22971.6	21388.9	21280.0	0.0	0.6	389
11392.7	10534.8	12110.9	11233.0	0.0	0.7	561
9680.0	9721.8	9747.3	9166.8	0.0	0.3	490
40978.1	36162.3	35906.4	36560.0	0.0	0.7	281
4395.3	4427.2	4030.4	4142.8	0.0	0.4	244
85240.6	77925.5	80171.8	81903.0	0.0	0.3	4392;4278;4249
4744.5	4222.4	4118.9	4487.9	0.0	0.7	44
6371.0	5646.6	6141.4	6320.3	0.0	0.7	660
38565.6	35055.7	37736.0	38678.0	0.0	0.4	456
22726.9	20992.7	20973.2	20308.0	0.0	0.6	161
5991.3	5014.3	6494.0	6514.7	0.0	0.8	424
25773.9	24852.5	27358.4	26278.0	0.0	0.5	730



Pdzd2	1	0.0127379	57.859	QKS(1)QENK	3	0.46765	11874.7	11171.0
Fam208a	0.993409	0.00148231	89.301	S(0.007)NS(0.993)FNADR	2	0.016626	5493.6	5307.5
Fam169a	0.819061	2.93E-33	111.45	T(0.003)ILGS(0.819)S(0.178)DNVA	3	-0.47982	19121.0	21177.0
Bmp2k	0.999787	0.000244132	80.231	KTEHS(1)PNQK	3	-0.086671	31275.6	32714.4
Tapbpl	0.989229	2.62E-15	59.372	QVPVLDGGS(0.001)LEGFT(0.01)DF	3	0.66503	9629.9	9739.1
Ing4	1	0.000152698	74.987	GKNS(1)DEEAPK	4	0.71039	115149.6	114989.6
Rcsd1	0.52143	5.75E-15	54.097	NT(0.098)CS(0.521)S(0.185)T(0.18	4	1.2717	5607.7	5988.5
Hnrnpu	1	1.36E-54	88.056	LQAALDNEAGGRPAMEPGNGS(1)L	5	-0.52532	44702.8	45556.0
Eif3b	0.529437	2.74E-13	44.604	QQPVS(0.001)ES(0.004)PPT(0.038	5	1.5543	2818.1	2862.7
Epb41l2	1	1.60E-80	170.78	S(1)LDGAPIGVVDQSLMK	3	-0.45774	714653.5	717305.5
Srrm2	0.890514	0.00745937	63.401	S(0.958)RT(0.891)S(0.147)PVT(0.0	2	-0.43466	50818.9	51269.8
Npm1	1	2.10E-124	145.19	CGSGPVHISGQHLVAVEEDAES(1)EI	4	-0.82006	197638.9	215631.5
Ppp6r2	0.933997	4.18E-09	49.559	CS(0.004)S(0.016)PVDMDHS(0.93	3	0.71428	3048.7	3354.1
Senp3	0.515156	3.46E-09	45.084	WT(0.213)PKS(0.515)PLDPDS(0.26	4	1.3785	6311.9	5222.1
Tanc2	0.561956	1.64E-38	82.988	ELPLT(0.005)QAPS(0.562)AHS(0.0	3	0.32887	15807.8	15378.7
Safb	0.999982	0.00571797	84.615	TSGS(1)KER	2	-0.48319	26685.0	29326.0
Nono	0.917174	1.23E-19	54.425	GAMPPAPVPPGT(0.917)PAPPGPA	4	-1.2472	9867.6	9735.7
Ccdc6	1	3.61E-14	112.34	LDQPVS(1)APPS(1)PR	2	-0.69493	132315.9	136203.9
Ube2ql1	0.969109	8.66E-20	70.174	QQQQQQHPGGS(0.031)GDAS(0.9	3	-0.12597	13533.3	12122.0
Ralgps1	0.925801	9.00E-53	127.4	LVS(0.074)S(0.926)KEDLAGPSAGS	3	0.85289	32101.0	32220.8
Cic	0.759809	3.02E-13	67.217	RKNS(0.753)T(0.238)DLDS(0.009)	4	0.071575	14406.4	15771.4
Aff4	0.706659	0.0176756	46.457	TVS(0.001)QS(0.071)S(0.222)S(0.7	2	1.6926	8900.0	9336.0
Pkn1	0.895774	9.95E-101	154.04	T(0.038)S(0.038)T(0.896)FCGT(0.0	3	-0.39971	31456.9	29367.7
Eno3	0.970278	1.86E-47	119.46	AAVPSGAS(0.001)T(0.029)GIY(0.9	3	-0.19456	4775.3	5405.0
Dleu7	1	6.15E-05	98.634	GS(1)PEAGELR	2	1.0953	10884.4	12634.3
Speg	0.973688	0.00263793	55.314	RLS(0.974)LS(0.026)LSQK	3	-0.90977	2210.9	2592.9
Sipa1l1	0.966381	3.75E-08	59.182	GS(0.034)GFS(0.966)LDVIDGPISQF	3	0.2469	2699.5	2338.8
Kif1a	0.996321	3.00E-94	153.12	EKLETTQRPVPEVLS(0.996)PAS(0.0	4	-0.48047	35191.2	32649.7
LOC10369	0.997211	1.44E-38	83.247	SPASDVQGET(0.997)GADPGVRLS(	3	0.40712	78832.5	80882.1
Nefh	1	5.33E-36	112.74	S(1)PVEAKS(1)PAEAK	4	0.32484	1279864.3	1292385.1
Abcf1	1	5.97E-05	40.28	QLS(1)VPAS(1)DEEDEVPPVPR	3	-0.61315	7052.4	6859.6
Srrm2	0.73678	7.02E-05	63.16	RS(0.737)S(0.335)RS(0.788)S(0.14	3	-0.41852	27640.3	29375.4
Ahnak	1	1.05E-78	149.52	AS(1)LGS(1)LEGAEAEETSSPK	3	0.21249	384269.4	362881.4
Tln2	0.991183	6.75E-52	114.15	DRFGLEGDEESTMLEES(0.009)VS(0	4	0.094048	58932.7	59909.1

13207.9	11521.0	11580.9	12135.0	0.0	0.6	1774
4956.2	5043.2	4971.5	5300.7	0.0	0.5	347
19876.9	18921.5	19640.6	19926.0	0.0	0.4	521
30668.1	28740.8	28767.9	34496.0	0.0	0.7	650
9845.8	9304.3	9087.9	10004.0	0.0	0.4	84
111553.2	106930.4	116621.1	108570.0	0.0	0.4	146
5572.3	5945.3	5534.6	5207.9	0.0	0.6	215
44920.4	41900.8	45634.3	43859.0	0.0	0.3	58
3342.7	2691.9	3219.0	2860.1	0.0	0.7	37
753202.3	683075.0	729125.0	711850.0	0.0	0.3	545;545;545
48653.1	47721.8	49745.4	49060.0	0.0	0.2	1930
220902.6	198729.7	195187.8	222540.0	0.0	0.6	125
3028.7	3041.7	3090.4	3036.1	0.0	0.5	752
5637.5	5578.8	5750.8	5362.5	0.0	0.7	226
15684.3	14473.3	14438.4	16652.0	0.0	0.6	495
24940.3	26500.2	26415.8	25778.0	0.0	0.6	605
10029.6	9780.5	9105.4	9920.8	0.0	0.4	415
137072.7	128123.3	130834.1	135330.0	0.0	0.2	214
10246.0	12032.5	11681.3	11187.0	0.0	0.8	66
32870.8	29076.3	34489.4	30919.0	0.0	0.6	298
15866.4	14596.5	14807.1	15358.0	0.0	0.5	2313
9386.0	8630.1	9051.7	9171.3	0.0	0.3	807
30161.3	28349.3	30951.1	29153.0	0.0	0.4	778
4570.0	3908.6	4935.2	5496.1	0.0	0.8	44;44;44
12096.5	11578.2	11259.2	11787.0	0.0	0.6	73
1865.5	2144.0	2014.2	2325.5	0.0	0.8	2327
2721.7	2462.7	2607.2	2474.3	0.0	0.6	258
35687.9	32495.0	35068.6	33087.0	0.0	0.5	1421
76925.7	74099.9	78400.0	77562.0	0.0	0.3	324
1314619.9	1251204.2	1235138.6	1292500.0	0.0	0.1	610
7838.2	7417.8	6522.6	7205.5	0.0	0.6	105
26562.8	25222.1	28261.4	27773.0	0.0	0.6	1649
407970.8	377440.2	380811.3	364780.0	0.0	0.5	5437
55784.0	56177.1	56576.1	57022.0	0.0	0.3	430

Lrrfip1	0.977298	0.00654072	60.074	HT(0.023)S(0.977)PHAK	3	0.51094	13399.8	13476.7
LOC10036	0.739927	3.04E-06	46.065	QS(0.018)LNS(0.74)PS(0.23)PGET(	3	-0.33208	2824.9	3345.2
Larp1	0.811112	6.36E-11	67.997	EQEKGDGS(0.173)DS(0.811)KES(0	4	-0.032875	127950.7	121834.3
Cdh19	0.999976	0.000159493	51.359	QSLQVGPDS(1)AIFR	2	0.14026	22305.5	21309.8
Ahnak2	0.996569	4.15E-79	149.74	LS(0.001)EDLPS(0.997)DAET(0.002	3	-0.041646	190172.7	193572.6
Prrc2a	0.815454	2.62E-30	86.367	EGPEPPEEVPAPT(0.185)T(0.815)P	4	-0.45925	110480.3	108026.4
Frmd3	0.736694	4.92E-17	94.122	MDVSESLIS(0.737)S(0.136)S(0.127	3	-0.035537	27509.2	25668.9
Atp6v0a2	0.995237	1.94E-119	179.44	KDS(0.995)EEEVS(0.005)LLGSQDIE	3	-0.5161	102532.3	101211.2
Tcp1	1	0.00133707	47.603	IACLDIFS(1)LQK	3	-0.19435	2833.4	3197.5
Tjp2	1	8.88E-24	108.66	S(1)QEES(1)PVPQPR	2	0.045291	49493.8	52398.5
LOC68359	0.81417	8.51E-31	73.868	RKS(0.814)T(0.407)AS(0.759)PVPC	4	-1.4598	17946.2	18163.8
LOC68359	0.758559	8.51E-31	73.868	RKS(0.814)T(0.407)AS(0.759)PVPC	4	-1.4598	17946.2	18163.8
Ccdc6	0.939456	8.91E-24	85.203	T(0.006)VS(0.054)S(0.939)PIPYTPS	2	-0.29366	60427.1	58952.6
Chd8	0.929469	1.41E-10	63.436	T(0.004)AS(0.066)PS(0.929)PLRPD	3	-0.31017	35180.5	34847.9
Ccar2	0.998945	2.71E-09	58.272	S(0.999)VAS(0.994)NQS(0.007)EM	3	0.31389	16189.4	16208.0
Ccm2	0.997552	1.60E-41	111.53	TAQDPGIS(0.998)PS(0.002)QSLCA	3	-0.98244	26405.9	25699.6
Snip1	1	0.00971125	54.486	ELS(1)EQEHRR	3	-0.61608	16572.3	16074.2
MAST1	0.78606	5.74E-11	46.416	SASAT(0.002)ALS(0.156)VMIPAVD	4	-0.93581	5867.3	5810.2
Itsn1	0.964888	6.87E-32	108.39	S(0.003)GS(0.023)GMS(0.965)VIS(	2	-0.10682	24804.2	24842.9
Sptbn1	1	8.74E-06	52.527	LLDPEDIS(1)VDHPDEK	3	-0.12798	13509.5	12544.3
Scn9a	0.95186	2.41E-38	87.052	DLGS(0.046)ET(0.952)EFADDEHS((	3	-0.82041	7904.4	6969.8
Hsd17b8	1	1.61E-16	106.6	LLGNPGS(1)EDREPR	3	-0.30847	41586.3	41464.5
Prx	0.997817	5.26E-102	158.15	S(0.998)EAEVAT(0.002)GAGFTAPC	3	0.94433	22653.8	23634.1
Frmd4a	0.90949	7.70E-47	104.03	FPSTGSCT(0.026)EAGVS(0.051)S(C	3	-0.23932	22709.8	21285.6
Ccnk	1	3.07E-14	110.8	RAVVVS(1)PK	3	1.1325	93742.2	88458.5
Mdh1	0.739752	8.38E-09	104.17	KLS(0.056)S(0.205)AMS(0.74)AAK	3	-0.46904	74078.5	69176.9
Arid1a	0.997767	7.35E-28	104.95	IELLPS(0.002)RPCVPS(0.998)PVPP	3	2.5862	37396.5	38234.1
Purg	1	1.06E-07	89.484	QEHGQS(1)K	3	0.49305	50948.9	51744.8
Mark2	0.583296	2.64E-22	86.648	S(0.583)S(0.416)DQAVPAIPTSNSY(	3	-0.69912	26541.9	25448.4
Gtpbp1	0.988681	2.83E-32	94.203	LLQTT(0.002)NNS(0.989)PMNS(0.1	4	-0.93596	29715.6	28860.9
Sptan1	1	1.24E-07	58.246	AQLADS(1)FHLQQFFR	3	0.26671	2442.6	2583.1
Pigp	0.996754	0.000543109	60.55	S(0.997)Y(0.003)QEDAIPALR	2	-0.54761	8037.5	8055.5
Map2	0.549865	5.28E-10	59.585	ET(0.006)S(0.02)T(0.076)PS(0.308	3	-0.67648	26384.5	25865.3
Dmxi2	0.586437	7.37E-09	122.46	T(0.586)IS(0.407)VS(0.007)GSTAK	2	-0.17648	32938.2	31120.6

14246.0	13306.2	13314.2	13360.0	0.0	0.2	748
3480.4	3129.1	3024.7	3228.9	0.0	0.7	1704
123093.9	121963.5	122530.7	118040.0	0.0	0.2	82
21015.0	20848.6	21293.8	20695.0	0.0	0.2	690
205944.3	185211.2	192323.8	195800.0	0.0	0.4	3099;1737
110009.5	105777.6	103487.5	110140.0	0.0	0.2	609
24891.3	25750.1	26169.0	23986.0	0.0	0.5	362
101866.0	95587.6	99480.1	102070.0	0.0	0.2	695
2459.4	2454.3	3187.1	2613.6	0.0	0.8	240
53018.1	47456.7	51028.8	52134.0	0.0	0.5	463;490
19125.2	18588.2	16472.1	18645.0	0.0	0.6	697
19125.2	18588.2	16472.1	18645.0	0.0	0.6	700
63785.9	58347.4	60286.5	59459.0	0.0	0.3	326
36064.7	35433.0	34028.8	33695.0	0.0	0.2	2005
17281.3	15782.2	16264.8	16258.0	0.0	0.3	674
25172.4	25097.8	25491.4	24552.0	0.0	0.2	164
17757.2	15962.6	15947.4	17100.0	0.0	0.5	124
5788.9	5437.3	6345.8	5200.5	0.0	0.7	933
25292.7	23410.4	24741.2	24717.0	0.0	0.2	318
12154.0	11800.4	13259.7	12092.0	0.0	0.6	244
6966.3	6870.0	7221.9	7145.2	0.0	0.6	567
37197.5	37729.7	39281.2	39918.0	0.0	0.5	58
23511.6	20161.2	24168.5	23544.0	0.0	0.6	219
21769.8	22225.8	21561.0	20165.0	0.0	0.5	690
100692.8	92556.1	84632.3	97905.0	0.0	0.6	348
68863.2	67297.7	71500.8	67475.0	0.0	0.4	245
33012.4	34857.7	35146.6	35645.0	0.0	0.6	1879
47327.6	48432.3	49263.4	48196.0	0.0	0.4	145
25126.6	24363.0	25995.8	24636.0	0.0	0.3	408
27765.9	26891.8	28405.6	28670.0	0.0	0.4	580
2726.3	2519.6	2517.5	2501.8	0.0	0.4	572
7590.0	6868.0	7830.0	8333.8	0.0	0.7	102
27371.9	26358.3	23396.9	27677.0	0.0	0.6	514;428
30710.7	28750.7	32194.0	31219.0	0.0	0.5	1381;1399

Ostm1	0.886016	3.90E-10	90.707	S(0.002)S(0.002)T(0.11)S(0.886)F	2	0.82664	13916.2	14560.4
Nefh	0.685987	1.05E-127	162.58	GAGAAS(0.012)S(0.041)T(0.165)D	3	-3.1573	9334.3	8285.5
Dync1li1	1	1.71E-47	119.16	DFQEYVEPGEDFPAS(1)PQRR	3	-0.064785	188383.7	193309.3
Srsf4	0.642228	6.35E-05	73.386	S(0.046)HS(0.253)PS(0.642)RHDS(	3	0.073081	25454.2	27651.0
Snx6	0.995684	1.62E-06	86.498	S(0.996)ADGVIVS(0.004)GVK	3	0.059828	32278.7	29847.1
Fmn1	1	0.000796577	58.116	RES(1)CPANILR	3	-0.47167	5153.2	5815.0
Cacna1c	0.912878	2.43E-05	51.726	SIT(0.002)ADGES(0.913)PPT(0.068	3	0.48445	30902.3	29224.0
Afap1	0.549144	3.26E-39	79.59	KKPS(0.549)T(0.165)DEQT(0.264)S	4	1.2989	8113.8	7885.8
LOC10090	0.999121	1.44E-28	107.09	LKS(0.001)EDELRPDVDEHT(0.999)	5	0.15666	78520.1	78428.3
Eif4b	0.995941	2.17E-28	106.38	SQSSDTEQPS(0.996)PT(0.003)S(0.1	3	0.42295	75321.3	78507.3
Serbp1	0.882791	0.000159474	43.696	S(0.059)S(0.059)AS(0.883)APDVDI	2	3.1301	11554.1	11388.2
Mprp	0.829177	5.04E-19	75.533	HVLPT(0.167)S(0.829)APDVT(0.00	4	0.93476	14535.2	17201.8
Stmn3	0.955739	5.86E-17	70.837	S(0.002)PS(0.002)DLS(0.04)PES(0.	3	0.83898	89103.9	93983.7
Tsg101	0.707745	0.000904093	63.091	DGT(0.291)IS(0.708)EDT(0.002)IR	2	-0.80597	14862.0	12548.7
Nefh	1	0.000352095	106.62	QRS(1)ELEDR	2	-0.47711	30567.2	30478.9
Scaper	0.993482	8.72E-15	85.522	ELS(0.007)DEEVEHLS(0.993)LKK	3	0.17601	32765.3	32072.7
LOC68517	0.999829	3.82E-21	108.71	RS(1)PS(0.392)PS(0.607)PTPEAK	3	-0.034985	363993.8	369046.0
Nsfl1c	1	7.25E-15	123.29	RRHS(1)GQDVHVVLK	5	-0.52163	356026.7	350650.8
Spag9	0.998705	0.000293672	47.855	TSGT(0.001)PGNRPGS(0.999)VIR	2	0.17751	4579.1	4805.5
Scn9a	0.998127	8.98E-08	88.224	LSTPNQS(0.998)PLS(0.002)IR	3	-0.76765	3428.1	3097.7
Fnbp1	0.613194	1.94E-13	124.2	TVS(0.029)DNS(0.317)LS(0.613)S(i	2	0.22922	27286.1	25883.9
Clasrp	0.999864	6.76E-21	112.16	LTRPAAS(1)PAVGEK	3	0.89361	47276.6	50022.6
Scn7a	1	0.000226655	72.705	GVHS(1)GQIEEK	2	-0.33584	12427.7	14651.5
Srrm1	0.991527	2.88E-21	141.58	APQTS(0.008)S(0.992)PPPVR	2	-0.15798	87225.4	89179.2
Zfp318	1	0.00561252	65.241	RAS(1)PS(1)PPR	2	0.75461	4367.1	4537.9
Zfp318	1	0.00561252	65.241	RAS(1)PS(1)PPR	2	0.75461	4367.1	4537.9
Gsk3b	0.691535	0.0065963	44.543	GEPNVS(0.043)Y(0.265)ICS(0.692)	2	-1.2445	10825.6	12282.2
Cep97	0.870706	1.50E-47	139.02	KIS(0.129)T(0.871)EGNEEAGLLPCF	4	0.087778	45100.0	41698.1
Ahnak	0.686552	3.53E-06	44.167	ELLLPNWQGS(0.687)GS(0.307)HG	3	0.2993	11822.0	10634.4
Dopey2	0.973612	8.30E-27	112.82	SSES(0.001)LS(0.558)S(0.438)APS(	3	0.59636	140545.3	140229.6
Akt1s1	0.499996	2.26E-17	70.837	SSDEENGPPS(0.5)S(0.5)PDLDR	3	-0.26165	22697.9	27753.0
Svop	0.999589	2.54E-30	85.737	SEDDAAS(1)GEHDVQIEGVR	3	-0.33637	11291.6	12510.3
Zc3h13	0.675089	2.61E-07	55.707	S(0.675)AS(0.323)PY(0.003)PT(0.0	3	1.3285	16931.3	17206.2
Zc3h13	0.535834	2.61E-07	55.707	S(0.675)AS(0.323)PY(0.003)PT(0.0	3	1.3285	16931.3	17206.2

15264.8	13921.1	14852.0	13766.0	0.0	0.5	329
9524.4	9093.7	8870.9	8433.6	0.0	0.6	76;76
179392.2	181713.3	179542.9	184410.0	0.0	0.3	207
27319.8	26920.4	24100.1	27195.0	0.0	0.6	293
30263.5	29423.9	29663.4	30764.0	0.0	0.4	194
6325.9	5755.4	5198.2	5865.6	0.0	0.7	235
28956.1	27165.7	30680.8	28791.0	0.0	0.5	833
7789.0	6998.4	7970.3	8167.1	0.0	0.6	337
79728.9	74714.8	75391.8	80076.0	0.0	0.3	416
76969.4	72069.4	77775.9	74621.0	0.0	0.3	504
11823.9	11430.8	11681.3	10701.0	0.0	0.4	393
14145.9	14221.4	15425.9	14978.0	0.0	0.7	585;608
83816.1	87945.1	88895.1	82750.0	0.0	0.5	68
12629.8	12162.3	13579.3	13202.0	0.0	0.7	170
32199.0	29082.9	30443.5	31164.0	0.0	0.4	347;347
29213.8	30146.6	29934.9	31394.0	0.0	0.5	837
344273.3	339029.6	352406.7	356370.0	0.0	0.3	186
344816.2	339238.6	342585.9	340880.0	0.0	0.0	176
4877.3	4673.5	4771.6	4426.3	0.0	0.4	1031;1188
3447.8	3297.3	3345.4	3058.0	0.0	0.6	534
23854.4	24881.1	26818.7	23219.0	0.0	0.7	301
46781.4	45412.9	47503.4	47226.0	0.0	0.3	541
14331.1	12677.0	14520.7	13081.0	0.0	0.7	1631
85535.5	84204.1	85641.1	84940.0	0.0	0.1	630
3947.6	4375.6	3829.0	4297.0	0.0	0.7	90
3947.6	4375.6	3829.0	4297.0	0.0	0.7	92
11979.4	10548.9	11536.0	12044.0	0.0	0.6	219;289
43631.2	40403.7	43657.3	42807.0	0.0	0.4	357
10435.3	10196.2	11589.4	10208.0	0.0	0.7	19
138552.5	132237.2	138122.2	137520.0	0.0	0.1	718
24107.8	26326.4	22935.2	23262.0	0.0	0.7	212
11547.1	11680.5	12392.0	10312.0	0.0	0.7	30
17131.2	16587.4	17667.9	15615.0	0.0	0.5	368
17131.2	16587.4	17667.9	15615.0	0.0	0.5	378



Ncor1	0.808949	7.28E-08	52.185	ANQAENES(0.809)PQQY(0.191)EG	3	0.67416	4533.1	4768.4
Fxyd7	0.998313	3.50E-12	101.08	ADS(0.998)RS(0.002)ESPTCK	2	-0.12798	572975.1	550706.1
Set	0.992271	3.07E-06	94.804	S(0.008)AS(0.992)PGLPK	3	0.28182	212774.0	207207.2
Irgq	0.999999	4.30E-49	115.77	ALPTAQAGALLALPPAS(1)PR	3	-0.26774	10991.6	11980.5
Grsf1	0.759225	0.000473564	66.267	KMVS(0.151)S(0.759)PT(0.076)T(C	3	-0.28505	12229.7	12338.1
Speg	1	0.000769587	80.737	AAS(1)VELPQR	2	0.60169	19715.0	20052.7
Tacc1	0.997257	1.21E-20	69.088	APVSVACGGES(0.997)PLDGICLS(0.	3	1.7874	24776.7	25383.7
RGD13115	0.78697	5.32E-22	73.461	HIS(0.787)S(0.208)AGT(0.005)IES\	4	0.87055	4885.3	4841.2
Tmem179	0.975209	0.01378	99.257	T(0.975)S(0.025)FQGEK	2	0.24418	115088.8	114978.6
Prkg1	0.970198	7.03E-34	98.3	KT(0.004)WT(0.024)FCGT(0.97)PE	4	-0.039302	31502.2	33093.9
Ralgapa1	0.9284	7.81E-26	111.62	QKT(0.928)VDIDDS(0.072)QILPR	3	-1.5527	73724.3	71676.8
Srrm2	1	9.32E-06	103.08	RKET(1)PS(1)PR	3	0.1846	238512.0	248495.1
C2cd5	0.839359	5.73E-07	97.69	NQTYS(0.004)FS(0.839)PS(0.157)K	2	0.36999	7926.4	8350.8
Zfp532	0.952495	2.30E-05	69.327	ASLKPS(0.047)DS(0.952)PR	3	0.46434	44038.5	43355.6
Tex2	0.991254	8.19E-14	67.76	EEEGDS(0.991)EGDDY(0.008)GSD!	3	-0.98314	5483.3	7374.8
Aim1	0.527972	2.89E-12	64.705	EAS(0.449)PPS(0.528)T(0.022)PEH	3	-0.43672	7842.8	8008.0
Gjb1	0.963198	1.26E-06	83.53	S(0.963)PGT(0.037)GAGLAEK	3	-0.60916	11356.7	12372.1
Myl12b	0.812716	4.72E-13	67.11	AT(0.813)S(0.187)NVFAMFDQSQI!	3	-0.49651	18273.0	15316.2
Slc25a5	1	7.20E-05	46.892	DFLAGGVAAAIS(1)K	3	0.10652	2611.1	2719.5
Pgk1	0.99198	2.83E-06	80.632	GT(0.008)KS(0.992)LMDEVVK	3	-0.67387	11796.4	12345.8
RGD13096	0.998218	0.000472025	75.941	IKPQT(0.998)PAS(0.002)R	2	-0.62852	29780.0	32559.7
Cfl2	0.687076	0.010848	42.843	KS(0.156)S(0.687)T(0.156)QEEIK	3	0.78431	11432.0	11421.1
Tnks1bp1	0.806595	4.35E-26	75.436	CS(0.807)LGQEVMGIGS(0.141)S(0	4	-0.80356	5867.1	7330.8
Tra2b	0.838521	0.000519313	74.29	RS(0.782)PS(0.334)PY(0.04)Y(0.00	2	0.60213	7069.0	9234.6
Drp2	0.696783	1.75E-19	62.781	WQHEEAVEAPT(0.697)LAEGS(0.29	4	0.97082	20826.6	20469.5
Mtcl1	0.877227	0.00530497	55.04	AGGGT(0.068)T(0.877)PVS(0.044)	2	-0.062802	8876.3	8984.0
Kif13b	0.841743	1.47E-30	85.087	TFVNGS(0.001)S(0.008)VS(0.842)S	3	0.80101	15446.4	15755.0
Dync1li2	0.770937	0.0322092	66.962	QPAT(0.771)PT(0.229)R	2	1.3499	18671.4	18143.0
Map2	0.521574	2.31E-74	93.118	AS(0.059)QPS(0.924)PPAHEAGYS(	5	0.48048	35314.0	36324.3
RGD13071	0.67601	0.00171641	51.726	SLDQDS(0.324)PS(0.676)KK	3	0.17386	21578.0	29512.5
Utrn	0.816343	8.64E-46	104.38	AAQAS(0.03)LS(0.153)ALNDPS(0.8	2	-2.0274	16194.2	18240.6
Srrm2	0.999982	0.0266315	51.567	S(1)RT(1)PPVTR	3	0.17226	32773.6	36405.5
Srrm2	0.999974	0.0266315	51.567	S(1)RT(1)PPVTR	3	0.17226	32773.6	36405.5
Cct4	0.513536	0.0131139	64.927	VANS(0.486)GIT(0.514)R	2	1.084	8533.1	7920.7



5554.2	4297.9	5203.2	4949.5	0.0	0.8	1983
462640.2	480803.4	556068.8	506190.0	0.0	0.7	56
212992.3	196727.8	209358.0	209630.0	0.0	0.3	30
10481.6	9671.5	11564.9	11306.0	0.0	0.7	426
10810.4	11306.5	12270.2	10838.0	0.0	0.6	226
20835.0	19962.1	18419.1	20571.0	0.0	0.5	1959
24465.5	24589.6	24416.4	23588.0	0.0	0.2	558
4710.7	4636.7	4567.3	4840.4	0.0	0.2	132
113746.3	114142.8	113821.3	106500.0	0.0	0.3	223
26677.8	28131.5	30462.8	30198.0	0.0	0.7	521
66887.2	67859.8	70468.5	68192.0	0.0	0.4	753
227684.3	231277.5	231126.3	232870.0	0.0	0.3	2695
8548.9	7493.6	8239.9	8418.2	0.0	0.5	295
40857.8	40920.7	39757.8	44090.0	0.0	0.5	333
6383.0	6474.9	6086.5	6157.2	0.0	0.8	352
9761.2	7562.2	9308.6	8045.7	0.0	0.8	890
13195.2	12007.2	11759.4	12155.0	0.0	0.6	266
13952.1	16053.9	15029.4	15168.0	0.0	0.8	19;19;19
2592.7	2309.0	2550.5	2848.8	0.0	0.7	22
10800.8	11074.4	12127.0	10794.0	0.0	0.6	354
26079.5	29205.0	27435.3	29381.0	0.0	0.7	223
10321.5	10145.3	11423.8	10706.0	0.0	0.6	7
6643.2	6607.6	7074.6	5621.7	0.0	0.8	790
8105.1	6892.3	8200.8	8655.0	0.0	0.8	270;264
18735.6	20152.4	18379.6	19875.0	0.0	0.6	740
7525.7	8137.3	8208.4	8353.4	0.0	0.7	1335
15762.0	14987.0	15764.6	14943.0	0.0	0.2	595
16931.0	17698.4	17888.0	16707.0	0.0	0.5	376
36683.3	32211.2	35622.2	37564.0	0.0	0.6	738;652
24782.7	25911.8	21115.3	26798.0	0.0	0.8	3858
18882.5	16342.1	18013.1	17523.0	0.0	0.6	941
32857.0	33420.1	32170.5	33693.0	0.0	0.5	1881
32857.0	33420.1	32170.5	33693.0	0.0	0.5	1883
7907.7	8105.5	8278.8	7320.2	0.0	0.6	239

Mef2c	1	0.000930261	47.037	S(1)PPPMNLGMNRR	2	0.22325	29733.5	27325.2
Tnks1bp1	1	0.000328553	74.987	S(1)PGGDPGLGK	2	0.53417	40561.8	33944.0
Trip12	0.999999	1.61E-37	142.88	YS(1)PPRDDDKVDNQAK	3	0.70341	116720.4	123194.5
Rapgef2	0.998312	0.000230418	51.726	GY(0.001)HT(0.998)LPADFTK	3	0.051981	4453.3	4824.3
Srsf4	0.705727	0.0221545	68.456	VS(0.001)S(0.004)S(0.025)S(0.264	2	1.4846	14805.9	14955.3
Bnip3	0.999994	7.76E-29	148.57	NSTLS(1)EEDYIER	3	1.4822	27472.2	28356.3
LOC10091	0.981422	1.89E-27	109.04	AS(0.981)PGGVS(0.013)T(0.005)S(	3	-0.5115	57626.7	58750.8
Erf	1	0.00804476	82.645	RWS(1)EDCR	2	-1.7403	11087.7	11106.3
Map3k10	0.942094	0.00143832	63.473	RT(0.942)PS(0.058)DGALR	3	-0.85024	10443.1	11145.8
Wfs1	0.952651	1.73E-06	86.803	SAGEAT(0.047)T(0.953)PEPR	2	-0.26158	35112.5	35908.6
Atp2b4	0.999967	1.14E-70	113.33	TQDGVALEIQPLNS(1)QEGLDSEEKE	4	2.5995	28970.2	30351.6
Snapin	0.888327	2.31E-15	84.653	AMLDSGVY(0.089)PPGS(0.888)PS(	4	-0.45899	83698.7	79833.5
Iws1	0.761819	2.32E-08	104.94	MS(0.008)S(0.762)T(0.23)GGQTPF	2	0.22621	9443.6	9952.7
Rcsd1	0.977707	1.15E-26	80.752	AMVS(0.022)PFHS(0.978)PPSTPSS	3	-0.77789	27271.8	26739.5
Psip1	0.632318	7.19E-10	46.415	NLAKPGVT(0.029)S(0.074)T(0.632	4	1.4755	7499.0	7835.2
Psip1	0.632318	7.19E-10	46.415	NLAKPGVT(0.029)S(0.074)T(0.632	4	1.4755	7499.0	7835.2
Psip1	0.632318	7.19E-10	46.415	NLAKPGVT(0.029)S(0.074)T(0.632	4	1.4755	7499.0	7835.2
Fam149b1	0.518831	3.58E-22	84.66	S(0.418)PS(0.519)AVS(0.048)AS(0.	3	1.3893	10139.4	9937.2
Scaf11	0.625229	0.0296416	63.816	AQS(0.375)PS(0.625)PK	2	-1.8836	8976.0	8743.2
Plec	0.999871	3.65E-35	157.82	NDESQLS(1)PATR	3	0.2719	43498.2	43530.0
Nefl	0.84632	8.14E-81	169.62	S(0.003)AYS(0.136)S(0.846)Y(0.00	3	-0.20615	105651.1	107307.9
Kif1a	0.864084	1.87E-29	116.96	S(0.136)DS(0.864)LILDHQWELEK	2	0.19271	155203.4	156266.5
Ptov1	0.828989	0.000256993	73.951	S(0.829)RS(0.171)WPAGPR	2	0.6498	36480.5	39192.8
Lonrf2	0.5	0.00406916	50.95	KDADS(0.5)S(0.5)PQR	3	-0.10323	10810.0	9854.2
Zfp592	0.999983	2.19E-22	87.647	VEATDPEACS(1)GEEVAVK	3	-0.19982	35747.0	36858.5
Ehbp1	0.806132	4.53E-05	72.29	RT(0.097)KS(0.097)DT(0.806)EPQI	4	0.46388	16398.2	16261.8
C2cd2l	0.747985	3.83E-30	93.176	NLGT(0.984)PT(0.748)S(0.143)S(0	5	0.019458	4277.4	4341.8
Fxyd1	0.986911	0.00522088	43.05	T(0.987)GEPDEEEGT(0.013)FR	2	0.22637	12254.8	12825.1
Cfdp1	0.968853	5.79E-39	91.276	EKPQALVT(0.005)S(0.026)AAT(0.9	4	1.5871	17109.0	15122.1
Nktr	0.999989	0.0316984	53.237	YHT(1)PPRS(1)R	3	1.1967	8207.5	8527.6
Nktr	0.999794	0.0316984	53.237	YHT(1)PPRS(1)R	3	1.1967	8207.5	8527.6
Rcc1	1	1.22E-06	72.321	S(1)PPEDAIPK	2	-1.3852	72183.3	75898.8
Rnf219	0.959546	1.15E-20	100.77	SVESEGS(0.006)S(0.035)KS(0.96)P	3	0.097036	16199.0	15955.7
Arhgap32	0.653974	2.57E-09	59.857	S(0.17)S(0.17)S(0.654)DALS(0.004	3	-0.19252	3346.4	4503.7

30920.4	27648.6	27991.0	29967.0	0.0	0.6	240
46681.4	39078.3	37565.0	41276.0	0.0	0.8	757
119921.3	117530.7	114932.7	117680.0	0.0	0.2	1049
3590.8	4746.0	4158.5	3617.4	0.0	0.8	175
14559.0	14280.8	14040.9	14805.0	0.0	0.2	388
26127.4	27103.0	27085.8	25560.0	0.0	0.4	88
55101.6	55716.3	58958.2	52188.0	0.0	0.5	34
10915.8	10426.3	10556.3	11236.0	0.0	0.3	492
10804.0	9936.9	11227.2	10357.0	0.0	0.5	816
33841.8	32603.9	33213.5	36225.0	0.0	0.5	61
30407.2	29118.1	27073.0	31126.0	0.0	0.6	316;316
77649.7	76501.1	77261.9	80936.0	0.0	0.4	79
8846.5	9096.6	9326.3	9061.1	0.0	0.5	666;665
25726.0	26604.7	25742.6	25248.0	0.0	0.3	90
7748.0	7758.8	7254.7	7448.7	0.0	0.3	272
7748.0	7758.8	7254.7	7448.7	0.0	0.3	274
7748.0	7758.8	7254.7	7448.7	0.0	0.3	271
10416.1	9165.7	9779.5	10729.0	0.0	0.6	57
8857.2	9123.0	8158.2	8581.8	0.0	0.5	804
45389.9	42411.1	40691.8	45761.0	0.0	0.5	723;609;580
108444.4	101336.0	103475.7	107970.0	0.0	0.2	42
147602.0	147471.6	148295.7	150990.0	0.0	0.2	1378
37239.0	35898.3	37683.6	36303.0	0.0	0.4	34
9019.6	9825.0	9503.1	9559.9	0.0	0.6	424
33734.2	33267.2	34307.7	35914.0	0.0	0.5	1200
14755.9	14978.2	16339.6	14827.0	0.0	0.6	629;629
3429.9	3992.4	4089.3	3644.4	0.0	0.8	419;419
10744.4	12069.9	11467.6	11327.0	0.0	0.7	70
16097.4	15445.6	15965.5	15624.0	0.0	0.5	206
7182.5	7051.7	8552.3	7673.7	0.0	0.7	106
7182.5	7051.7	8552.3	7673.7	0.0	0.7	102
73220.8	69628.5	70010.1	75743.0	0.0	0.4	11
14931.6	14543.7	15865.1	15418.0	0.0	0.5	567
4480.7	4159.2	4268.4	3573.4	0.0	0.8	383

Stag2	0.961163	2.79E-08	48.634	EQT(0.026)LHT(0.961)PVMMQT(0	3	-0.15285	4450.7	4605.8
Tuba1b	0.998251	2.10E-42	111.97	TIGGGDDS(0.998)FNT(0.001)FFSE'	4	-1.7217	34431.5	35987.6
Srek1	0.994876	0.00352845	76.282	ERS(0.995)T(0.005)STK	2	-0.48991	23518.4	23491.5
Mrap	0.991812	4.07E-21	123.76	RAS(0.992)LQT(0.006)T(0.002)DEF	2	-0.42836	10520.0	11707.4
Dnajc1	0.95953	9.85E-06	80.318	DSVT(0.005)S(0.03)S(0.96)PGMT((	2	-0.12458	7275.1	6732.9
Pkn1	0.997441	3.00E-119	177.69	TDVSNFDEEFTGEAPT(0.002)LS(0.9	3	0.73153	60801.6	61003.8
Yap1	0.937227	3.28E-144	144.7	AHS(0.937)S(0.063)PASLQLGAGTL	6	0.20898	40146.8	39983.6
Clec2g	0.790241	4.16E-10	58.332	KAS(0.79)QPMLNT(0.191)T(0.017)	4	0.97195	14072.4	14530.8
Spata6	0.986366	1.43E-33	114.31	DSAY(0.013)DS(0.986)DPEYSSFQR	3	-0.84711	40170.6	39196.1
Larp1b	0.999994	1.53E-47	116.35	LDGPIENV(1)EDEAQSSSQR	3	0.39549	85300.4	84379.1
Taok2	0.999711	0.0248543	41.109	EQLS(1)GYKR	3	-0.059644	20029.9	19876.1
Adcy9	0.544371	9.11E-16	57.533	VQVDGS(0.179)IGRS(0.544)PT(0.1	4	0.18458	6801.9	7165.9
Cobll1	0.797115	2.34E-07	56.121	IQKPAET(0.203)S(0.797)PPPVAPK	3	1.3256	37656.5	40895.2
Ehd3	0.677199	9.67E-06	49.708	DKPMY(0.007)DEIFY(0.677)T(0.17	3	-2.4858	6002.5	5583.7
Foxk1	0.766351	4.68E-23	63.095	YS(0.001)QS(0.004)APGS(0.229)P\	4	-0.26386	4062.1	3613.3
Ptbp3	0.999638	2.11E-07	73.296	FKGDRPPCS(1)PSR	4	-0.078266	24865.0	22821.3
Apc	0.779706	3.53E-09	72.321	S(0.002)HS(0.025)ES(0.78)PS(0.19	3	-0.51859	6676.5	6680.8
Gpsm1	0.944771	9.63E-43	85.937	AAQPS(0.003)VT(0.05)AS(0.945)Pi	4	-0.62521	21651.9	20084.5
Pfkip	0.790043	1.47E-07	98.048	S(0.015)FEGNLNT(0.195)Y(0.79)K	2	-0.16225	20764.5	19368.2
Tecpr2	0.94461	9.84E-24	97.271	S(0.055)LQDLS(0.945)QPAAEETSL	2	0.80345	13573.9	12070.5
Mark1	0.863357	1.96E-26	77.959	LDT(0.01)FCGS(0.863)PPY(0.127)A	3	-0.32426	8028.0	7898.2
Slc4a8	0.5	0.0104062	99.136	LLS(0.5)S(0.5)PGK	2	-0.21411	26837.7	27489.8
Slc4a8	0.5	0.0104062	99.136	LLS(0.5)S(0.5)PGK	2	-0.21411	26837.7	27489.8
Camk2b	0.51993	1.32E-14	54.622	QT(0.053)T(0.52)APAT(0.295)MS(i	3	-2.7515	10082.4	8284.0
Ralgapa1	0.538735	7.36E-40	101.48	S(0.005)QT(0.14)PS(0.539)PS(0.27	3	1.4678	39786.6	39345.2
Prcc	0.991233	2.50E-10	59.539	VVLQGS(0.991)GEGT(0.007)GLS(0	3	0.31532	10517.6	8566.9
Add1	0.919623	2.07E-42	78.418	S(0.001)PPDQS(0.045)AVPNT(0.94	5	-0.6037	139770.1	145615.4
Rabep2	0.999526	3.17E-11	65.207	QPAS(1)LHGS(0.787)T(0.214)ELLP	2	1.7508	21631.6	22086.4
Nhs12	0.994834	4.14E-05	50.831	GAS(0.995)RLET(0.005)GPGGTNR	3	0.78641	10871.6	10508.8
Tshz3	0.582518	3.40E-15	87.519	TSAVVS(0.583)FMS(0.007)NS(0.40	3	0.20175	5143.7	5031.4
Gmip	0.875333	8.84E-29	118.29	S(0.104)LDS(0.875)PT(0.018)S(0.0	2	-0.19575	21811.7	19191.6
Anxa2	0.914214	7.83E-39	82.6	LSLEGDHS(0.084)T(0.914)PPS(0.00	4	-0.18581	70222.6	71921.4
Nek9	0.852435	7.10E-06	53.44	S(0.023)S(0.023)T(0.852)VT(0.1)E/	2	0.99073	19800.9	19215.8
Kifap3	1	9.43E-16	105.53	AVDEDLENQT(1)LRK	3	0.11836	22686.0	24116.8

4433.1	4264.8	4476.1	4388.0	0.0	0.2	1112
32997.5	33876.6	33496.6	33278.0	0.0	0.4	48;48;48
23251.8	21876.0	23937.6	22570.0	0.0	0.4	420
10598.2	9985.0	11150.2	10813.0	0.0	0.6	94
6087.6	6608.1	6231.2	6719.4	0.0	0.7	390
65020.9	60117.2	59909.2	61809.0	0.0	0.3	920
39000.0	35898.3	39859.3	40191.0	0.0	0.5	112
14185.3	12680.3	14769.7	14196.0	0.0	0.6	7
34201.6	37219.3	37234.8	36082.0	0.0	0.6	424
83802.2	78049.8	79860.8	88805.0	0.0	0.5	60
21472.8	19445.1	19682.3	20613.0	0.0	0.4	495
6432.4	6119.4	6981.1	6755.2	0.0	0.6	1274
40544.8	38566.8	37034.9	40318.0	0.0	0.5	975
5625.0	5052.9	5954.3	5745.1	0.0	0.6	383
3821.4	3319.8	4105.5	3765.0	0.0	0.7	461
23097.4	23580.9	22446.9	22869.0	0.0	0.4	24
5259.9	6211.4	6338.1	5571.5	0.0	0.8	2434
18768.6	19345.0	19503.8	20045.0	0.0	0.6	543
19834.3	19335.1	18874.4	20162.0	0.0	0.4	394
14298.1	13078.5	12791.7	13010.0	0.0	0.6	652
8293.7	7510.4	8163.3	7902.3	0.0	0.4	219;215;218;212
27447.5	25225.4	24759.4	29616.0	0.0	0.7	969
27447.5	25225.4	24759.4	29616.0	0.0	0.7	970
7254.2	7843.5	8904.7	8191.4	0.0	0.8	321;321
41612.6	36469.2	41025.2	40041.0	0.0	0.5	1003
9402.4	8816.0	9306.1	9608.3	0.0	0.7	172
143737.3	136197.0	139158.8	142370.0	0.0	0.2	645
21521.7	20154.6	21803.5	21549.0	0.0	0.3	176
10855.1	9659.3	10511.2	11209.0	0.0	0.6	504
5434.4	5002.8	5096.1	5096.0	0.0	0.3	789
20625.3	19335.1	20044.6	20613.0	0.0	0.6	434
75527.8	68960.9	70829.7	72106.0	0.0	0.3	19
19717.2	18561.8	19551.9	19062.0	0.0	0.2	332
21473.8	21519.6	23052.8	21893.0	0.0	0.5	212

Fry	0.999811	4.24E-73	139.47	ATFAGGS(1)RDEVITCQPGDSEEK	3	0.53429	38326.8	37987.3
Heatr5b	0.862954	0.00259309	42.031	MS(0.863)DS(0.131)PS(0.006)HVA	2	0.57559	11551.3	12931.5
Nop56	0.999998	3.67E-73	143.54	EEVAS(1)EPEEAASPITPK	4	-0.075728	930480.8	960875.5
Nufip1	0.95609	0.0743235	40.268	VLPS(0.956)S(0.044)PPK	2	1.3884	3499.9	4081.6
Phactr4	0.999899	5.42E-21	105.89	KLS(1)QRPTVAELLAR	3	-0.41649	10249.8	9478.2
Ube2j1	0.966594	6.53E-129	205.47	S(0.967)S(0.027)AS(0.007)PDVLQ	2	-0.34714	62083.7	59659.0
Stmn2	1	0.0365407	49.472	ELQVELS(1)G	2	0.15989	8005.1	7719.9
Lonrf2	0.834226	0.00406916	60.255	KDADS(0.166)S(0.834)PQR	2	0.14481	13687.2	12900.8
Fnbp4	1	4.29E-57	170.74	RPILQLS(1)PPGPR	3	0.45697	33150.5	34895.1
Gad1	0.867166	0.0220989	68.49	T(0.133)NS(0.867)LEEK	2	0.64207	28895.0	28983.8
Fmn1	0.993612	7.02E-15	122.96	DQVCSSSS(0.006)FS(0.994)PR	2	-0.54382	10164.4	8335.0
Raph1	0.98974	0.00656962	82.426	MS(0.01)S(0.99)PGGK	2	-0.21527	40566.6	43916.1
Tpi1	0.982958	1.41E-23	95.5	VT(0.983)NGAFT(0.014)GEIS(0.00	3	0.47468	7762.4	7501.5
Sptan1	0.999912	2.12E-05	59.359	SQLLGS(1)AHEVQR	3	0.52424	11216.1	11820.4
Amigo1	0.986087	7.53E-07	52.359	RMS(0.986)DPES(0.014)VSSVFSDT	3	-0.25151	6003.4	7059.4
Pfkm	0.919846	0.00119769	67.999	GGT(0.92)PS(0.08)AFDR	2	-0.017963	31442.6	30111.4
Srrm2	0.999781	4.18E-07	90.376	SAVRPS(1)PS(1)PER	3	0.25204	295319.4	305622.4
Zyx	0.999978	8.78E-12	101.97	S(1)PGGPGPLTLK	3	-0.026065	83187.0	79579.0
Gbf1	0.741601	1.79E-22	88.548	AASSS(0.001)S(0.004)PGS(0.007)P	3	-1.6393	48432.3	49502.7
Slc4a2	0.59868	1.52E-40	124.37	T(0.555)S(0.599)PS(0.647)PPT(0.1	3	0.16362	5485.7	5113.9
Slc4a2	0.444328	1.52E-40	124.37	T(0.444)S(0.444)PS(0.111)PPTQTP	3	0.20666	5485.7	5113.9
Plekhn2	0.976929	0.00283923	62.694	AS(0.001)T(0.012)KS(0.977)PT(0.0	2	-0.32874	7079.6	7176.7
Supt6h	0.886891	5.89E-21	69.99	T(0.109)RT(0.887)PAS(0.853)INAT	3	1.1019	22027.6	22993.5
Mllt10	0.989916	0.0250659	45.357	S(0.99)PVS(0.01)NLQIR	2	0.93917	14909.7	14311.4
Ergic3	0.787507	2.29E-21	77.899	DGIPVS(0.788)S(0.212)EAERHELGI	4	-0.092643	5608.9	5255.3
Ankhd1	0.86195	0.0264801	60.436	LNLT(0.862)S(0.138)PK	3	-0.75993	8723.3	7700.9
Dmxl2	0.607328	2.51E-22	74.776	FGDVEADS(0.607)PVEQT(0.392)IIC	3	0.15921	19854.5	18918.5
Cep97	1	0.00687743	68.626	LLACS(1)PER	2	2.895	9976.4	10103.9
Ssfa2	0.996675	9.23E-43	136.68	TPLGAS(0.997)LDEQS(0.003)SVGP	2	-1.2644	271274.9	267482.7
Mctp2	0.965709	1.66E-41	111.38	LS(0.034)LS(0.966)VPDLLEAEALVP	3	0.26088	6047.6	6357.5
Hdac7	0.533567	1.16E-06	44.167	QIPS(0.466)AEDLET(0.534)DGGGV	3	-0.27765	15812.5	14361.9
Tp53bp1	1	0.00518752	46.524	GGPGKLS(1)PR	2	0.45733	46484.7	47976.9
Itsn2	0.964738	3.25E-05	64.82	MLS(0.001)SDKT(0.034)PS(0.965)F	4	0.8995	61294.2	65495.7
Eef1g	0.995164	2.42E-07	58.024	KLDPGS(0.995)EET(0.005)QTLVR	3	-0.88712	21889.2	24736.5

34219.7	34939.1	36531.6	36132.0	0.0	0.5	2806
11015.9	11368.1	11035.9	12154.0	0.0	0.7	1696
905957.1	920215.3	900364.5	902610.0	0.0	0.2	543
3990.2	3750.1	3562.4	3952.6	0.0	0.7	391
8973.9	8919.7	10263.7	8758.2	0.0	0.7	626
59575.2	59821.3	56755.7	59941.0	0.0	0.3	225
7814.6	7806.2	7400.9	7709.4	0.0	0.2	178
11837.8	12869.5	12565.1	11974.0	0.0	0.6	425
32598.3	30285.2	34399.6	33296.0	0.0	0.6	65
35580.3	31079.4	30581.4	29327.0	0.0	0.7	52
8087.2	8355.5	8954.6	8573.5	0.0	0.7	203
40830.1	40259.6	41035.9	40705.0	0.0	0.4	980
7635.5	6635.0	8657.6	7001.6	0.0	0.8	71
10533.6	9893.1	11377.9	11412.0	0.0	0.7	1211
7411.0	6333.1	7042.6	6557.1	0.0	0.7	477
28365.3	28546.2	29619.6	29378.0	0.0	0.5	304;313;304
286292.9	281754.7	297371.5	284670.0	0.0	0.3	348
80951.1	75785.0	80821.5	80675.0	0.0	0.3	336
48983.1	46506.3	49483.6	47050.0	0.0	0.3	1788
5136.4	4979.1	5446.9	4894.9	0.0	0.5	171
5136.4	4979.1	5446.9	4894.9	0.0	0.5	170
6548.0	7222.6	6769.5	6263.5	0.0	0.6	264
22750.3	21796.8	21796.1	22392.0	0.0	0.2	1409
13872.3	12923.4	14917.2	14117.0	0.0	0.6	602
5765.2	5524.2	5343.5	5323.5	0.0	0.4	116
6663.0	7970.7	7054.4	7453.6	0.0	0.8	1668
19807.7	18580.5	18910.7	19546.0	0.0	0.3	1271;1289
10568.6	9310.9	10758.0	9773.2	0.0	0.6	680
266426.7	260371.5	262800.9	260820.0	0.0	0.0	90
6278.4	6059.5	6333.9	5798.7	0.0	0.4	51
14698.4	15543.5	13563.2	14586.0	0.0	0.6	441
44462.6	44331.7	46453.9	44486.0	0.0	0.4	1322
55424.2	58917.1	59274.5	59233.0	0.0	0.6	785
22081.7	21659.3	21644.3	23598.0	0.0	0.6	406



Scn9a	0.822475	1.91E-09	116.71	ISGYGS(0.177)S(0.822)LDK	3	0.08563	52238.2	53421.9
Arid4b	0.608861	9.82E-09	54.281	VKEES(0.391)DAEIKEVNVVEDS(0.60	4	-0.29116	22662.1	24110.2
Srpk2	0.954179	1.06E-12	103.14	T(0.001)VS(0.019)AS(0.954)S(0.02	3	0.86096	67568.9	67724.6
Usp6nl	0.896518	0.00480126	90.64	S(0.103)VDEGS(0.897)K	2	0.49829	18796.6	19379.2
Clip1	0.92022	5.88E-12	66.777	T(0.001)AS(0.002)ES(0.035)IS(0.92	3	2.1874	27393.5	29373.2
Hrh1	0.739216	1.73E-05	51.771	QLTNGS(0.012)LPS(0.739)FS(0.249	3	-0.0089763	7802.0	7436.6
Tsen2	0.919092	3.26E-09	73.279	KGES(0.919)PQHEPLS(0.069)S(0.0	3	-0.98763	15209.0	14877.5
Akt1s1	0.952885	7.36E-107	123.86	AATATRPPGPPPAPQPPSPAPS(0.04	4	0.58389	69454.5	73386.9
Dcaf6	0.999951	4.76E-10	78.902	DGEQS(1)PNVSLMQR	3	0.50296	23717.6	22850.9
Sox6	0.76024	0.0189818	41.996	RGT(0.76)S(0.237)PVT(0.003)QVK	3	1.9406	20851.6	21320.7
Bhlhe40	0.984444	9.16E-28	82.635	LPS(0.984)PLAHS(0.01)S(0.002)LD	3	1.0795	4584.9	3839.0
Daxx	0.73642	4.04E-12	51.469	VDS(0.736)PS(0.262)HELVTSCLNI	4	-1.4102	6957.9	6332.4
Il6st	0.999189	4.43E-22	125.36	SHIAQWS(0.999)PHT(0.001)PPR	3	-0.73097	35376.1	36724.7
Tp53bp1	0.515315	0.000103617	44.788	DAAAS(0.01)EDS(0.104)AS(0.092):	3	0.83277	5249.3	5659.2
Gigyf2	0.549937	1.19E-100	111.73	AGTDANEEVPQT(0.155)S(0.01)LS(	5	0.36108	27627.2	27529.3
Dlg5	0.941864	2.10E-09	82.449	ASQGS(0.001)NS(0.942)LPS(0.032	2	0.44419	18723.9	18345.9
Wwc2	0.99995	7.10E-79	94.569	KKEEGGGQPGAQS(1)PQPALDSADI	4	0.78494	30442.0	29061.7
Mapk8ip3	0.873295	6.94E-15	113.54	T(0.002)GS(0.114)S(0.873)PT(0.01	3	-1.0257	125195.6	124927.6
RGD13115	0.630334	7.88E-20	58.219	RDS(0.63)AES(0.319)HPS(0.051)GI	5	-1.5096	10379.3	10820.1
Ufd1l	0.991104	3.09E-17	94.387	GVEPS(0.009)PS(0.991)PIKPGDIK	3	0.23479	35587.2	36005.1
Irf2bpl	0.833388	3.61E-21	90.851	RNS(0.182)S(0.833)S(0.97)PVS(0.C	3	0.08943	28508.6	27914.3
Srrm1	0.999991	2.11E-13	104.66	S(1)PELPEPSVR	2	1.3983	221039.3	230604.4
Arvcf	0.840754	2.08E-08	59.975	RT(0.082)LGS(0.068)DS(0.841)IGD	4	-0.86034	11533.7	11045.9
Tgfb1i1	1	0.0432192	57.859	CVS(1)ALGR	2	0.098358	28107.9	31473.8
Cnp	0.780123	1.99E-14	88.163	AT(0.22)GAEEY(0.78)AQQDVVR	3	-0.54808	2709.8	2518.1
Kcnq5	0.921438	1.85E-07	57.616	RSPSTDIT(0.007)AECS(0.921)PT(0	3	0.36844	10546.4	9398.3
Hdac5	0.997989	4.47E-19	64.27	DEDGES(0.998)GPDEGADLEES(0.0	3	1.5563	3989.8	4587.6
Cpne6	0.999993	5.63E-12	104.09	SSQSLHCLS(1)PR	2	-0.87176	15619.3	17537.5
Acin1	0.905716	2.06E-26	108.75	S(0.023)QS(0.906)PS(0.072)LPPLP	2	0.49743	51639.4	54535.3
Naca	0.937226	8.59E-15	77.746	VAPATLVES(0.937)PT(0.054)S(0.0(	3	0.12477	5701.4	9241.6
Hebp1	0.74967	0.000780983	45.618	IPNQFQGS(0.045)PPT(0.75)PS(0.2	4	0.73487	2850.5	2992.8
Dhx38	0.988286	0.0768042	48.423	S(0.988)PLGS(0.012)VR	2	0.46684	1675.5	1680.8
Dda1	0.999923	5.74E-05	89.189	RPS(1)VYLPTR	3	0.23535	3516.6	3463.4
Mks1	0.788889	0.0022762	48.568	AFMES(0.211)NS(0.789)LRK	3	-1.0319	10434.5	10330.1

53703.7	52753.0	51103.6	51319.0	0.0	0.1	1064
23051.6	22673.5	21962.8	23353.0	0.0	0.4	443
64766.4	64732.6	65482.2	64591.0	0.0	0.2	489
22483.1	20387.8	18685.2	19993.0	0.0	0.7	357
30000.5	27392.3	27936.5	29160.0	0.0	0.5	196
7887.2	7226.6	7271.8	8020.8	0.0	0.5	233
14967.8	13375.5	14807.1	15690.0	0.0	0.6	147
77351.6	66917.1	70680.1	76825.0	0.0	0.6	93
22977.1	21826.5	23314.6	22582.0	0.0	0.3	336
20657.2	20172.2	19607.5	21404.0	0.0	0.4	370
4093.2	3893.2	4158.2	4137.8	0.0	0.7	383
6339.9	6500.8	6394.0	6221.3	0.0	0.5	678
36613.0	35184.4	35358.2	35325.0	0.0	0.1	666
6070.9	5378.4	5298.9	5857.8	0.0	0.6	1068
28245.0	27079.9	26329.2	27810.0	0.0	0.2	383
18585.5	17624.7	19047.5	17527.0	0.0	0.4	1148
31181.2	27265.8	30607.0	30440.0	0.0	0.6	660
127725.1	120676.6	129989.8	117300.0	0.0	0.4	374
11853.7	10478.3	10608.5	11102.0	0.0	0.6	1015
34625.4	33810.6	35114.6	34518.0	0.0	0.2	204
30800.1	26648.7	27654.4	30643.0	0.0	0.6	645
216888.9	211687.2	216143.9	223250.0	0.0	0.3	137
9674.3	10202.3	11637.5	9572.7	0.0	0.8	846
26154.0	28785.9	26366.7	28347.0	0.0	0.7	379
2581.5	2325.6	2785.6	2494.5	0.0	0.7	267
9700.7	9415.8	10126.3	9330.6	0.0	0.6	475
5108.6	4350.1	4298.9	4680.2	0.0	0.7	600
14610.1	14833.0	16628.1	15061.0	0.0	0.7	330
56312.1	50171.4	52052.6	56029.0	0.0	0.6	281;387;387
7795.5	7675.8	7000.7	7469.6	0.0	0.9	939
2869.4	2871.3	2953.8	2660.6	0.0	0.5	114
1476.2	1660.8	1402.6	1643.2	0.0	0.7	1177
3744.1	3673.5	3600.4	3170.9	0.0	0.6	33
10300.4	9633.2	10322.8	10300.0	0.0	0.3	507

Cep170	0.944854	4.33E-59	121.58	S(0.032)S(0.035)PVNNHS(0.945)S	3	-0.57674	30536.2	32043.1
LOC100911	1	1.10E-27	100.67	S(1)AELPDVAVGPIVQLQEK	3	1.7012	42607.3	44022.5
Atp1a3	0.999905	5.96E-60	164.99	VDNSSLTGES(1)EPQTR	2	-0.11265	41715.2	43051.7
Atp1a2	0.999905	5.96E-60	164.99	VDNSSLTGES(1)EPQTR	2	-0.11265	41715.2	43051.7
Eprs	0.98047	0.00408531	40.941	LNLNNT(0.02)VLS(0.98)KR	3	0.27586	7169.3	7313.2
Gab1	1	4.73E-15	66.467	VDY(1)VVVVDQQK	3	1.2093	19586.2	17521.0
March6	0.817365	0.000483499	47.639	QGPS(0.171)T(0.817)PPPVS(0.006	2	-0.83561	5985.5	6418.9
Clip2	1	1.49E-51	160.43	VLLLEANRHS(1)PGPER	4	-1.4968	99229.7	101387.8
Enthd2	0.999946	8.90E-25	98.641	QQLQELGAGS(1)PGPVTNK	3	-0.5921	49826.6	50127.9
Tshz3	0.837385	1.33E-05	51.76	AT(0.048)PS(0.837)PCS(0.065)S(0.	3	-0.46429	8761.9	8574.8
Chpf2	1	0.000409896	44.925	HGLDQS(1)DEDFKPR	3	0.20175	7437.1	7446.6
Hdgf	1	1.51E-46	104.12	KGNAEGS(1)S(1)DEEGKLVIDEPAK	4	0.20009	395528.3	384413.8
Dlgap1	0.994359	0.00111311	67.385	S(0.003)HS(0.994)LEGPS(0.002)K	2	0.84914	7223.6	6890.8
Rragc	0.869409	1.27E-17	98.552	MSPNETLFLES(0.869)T(0.131)NK	3	1.5264	76145.4	77499.2
Ddx23	0.999995	0.0020261	114.64	SSLS(1)PGR	2	0.10754	88950.0	93121.5
Prkar2b	0.999675	2.88E-66	128.41	RAS(1)VCAEAYNPDEEEDDAESR	3	0.79189	48760.3	49722.1
Zmynd8	0.981171	2.82E-05	110.08	S(0.014)T(0.003)AS(0.981)PAS(0.0	3	1.6892	51713.4	50018.2
Baz1b	0.669421	2.65E-05	51.971	NS(0.331)KS(0.669)PEEHLEEVMSK	3	-1.5284	21507.6	22870.7
Anxa2	0.550278	6.27E-08	54.834	TDLEKDIIS(0.033)DT(0.55)S(0.417)	4	0.25727	8450.5	8461.9
Srsf7	0.999543	0.0102858	64.86	S(1)GS(0.999)HGS(0.001)R	2	-0.040866	35520.4	32567.4
Dpy19l1	1	0.0203568	69.598	APPS(1)PGR	2	0.1296	40182.6	41727.7
Mvb12b	0.966721	1.25E-05	79.705	HIS(0.033)LT(0.967)LPAT(0.001)FF	3	1.1366	12066.3	11977.2
LOC50068	0.896251	7.66E-19	71.428	S(0.896)PDRGVS(0.094)QS(0.009)	4	-0.80533	10189.4	10246.7
Srrm2	0.906922	4.97E-05	90.434	S(0.003)S(0.017)S(0.708)VS(0.365	2	-0.067028	34498.3	32656.3
Trip10	0.8072	3.80E-40	120.11	VPS(0.807)DS(0.191)S(0.001)LGTF	4	0.028945	15818.5	15555.3
Mvd	0.5	6.59E-31	127.3	S(0.5)T(0.5)GDGDALPLSLGYK	3	0.20747	77297.6	79466.0
Bnip3l	0.999956	0.00131616	93.166	AASLS(1)MR	2	-0.28814	58085.9	63259.1
Prrc2a	1	3.05E-09	59.359	KEPPKEEPAQLS(1)GPEAGR	4	2.7026	40009.6	39650.2
Specc1	0.75111	1.14E-148	187.43	S(0.026)S(0.026)KGS(0.193)PT(0.7	5	0.010229	22881.6	23280.9
Ptges3	0.999957	2.35E-10	77.506	DWEDDS(1)DEDMSNFDR	3	-0.41011	82220.9	81361.5
LOC100911	0.749575	5.85E-08	57.798	SQVEDPLPPVFS(0.75)GT(0.25)PK	3	-0.68292	8248.0	7045.9
Hdac7	0.947181	1.18E-22	66.474	QIPS(0.947)AEDLET(0.053)DGGGV	4	-1.0619	24358.1	23188.8
Ttbk2	1	1.27E-05	45.205	QEVDS(1)KEWVIVDKQDLR	4	1.3779	11390.4	10286.0
Traf3ip1	0.574567	6.96E-06	70.26	QES(0.061)T(0.575)ET(0.364)LAGL	2	-0.16156	7720.6	8843.2

33058.2	30950.7	31222.6	30974.0	0.0	0.3	1563
43480.0	41211.1	42630.3	42881.0	0.0	0.2	14
40019.9	39114.6	42852.6	39571.0	0.0	0.5	212
40019.9	39114.6	42852.6	39571.0	0.0	0.5	220
7153.6	6845.9	7069.8	7157.2	0.0	0.2	434
20974.5	18820.3	18122.1	19628.0	0.0	0.7	659
5979.1	5609.4	6062.7	6233.1	0.0	0.5	901
98038.6	94385.3	98340.9	98168.0	0.0	0.2	889
49107.7	46658.1	51241.5	47289.0	0.0	0.4	391
8510.9	8101.3	8256.7	8817.9	0.0	0.4	600
7561.8	7247.3	7774.6	6840.4	0.0	0.5	64
386954.8	370840.4	381345.6	384400.0	0.0	0.1	132
7143.1	6750.6	7195.6	6759.2	0.0	0.4	154
75508.7	72720.5	73187.1	77295.0	0.0	0.3	94
84087.6	85958.6	87303.9	85985.0	0.0	0.4	108
50510.9	45455.8	48271.7	51398.0	0.0	0.5	112
50917.6	48345.4	50860.0	49482.0	0.0	0.2	470
23529.7	21163.2	22969.4	22013.0	0.0	0.5	360
9572.5	8434.4	8951.1	8412.3	0.0	0.6	163
35136.4	34280.2	30539.7	35729.0	0.0	0.6	181
43667.4	41425.6	39314.3	41584.0	0.0	0.4	46;569
11708.9	11429.7	11854.5	11542.0	0.0	0.1	224
9029.0	9542.9	9866.7	9292.4	0.0	0.6	92
34180.3	31145.4	34141.0	33424.0	0.0	0.5	1383
16758.5	14668.0	16492.4	15726.0	0.0	0.6	296
75140.3	76491.2	75963.5	73448.0	0.0	0.3	96
56827.4	57841.4	59993.7	55727.0	0.0	0.5	128
39781.4	39469.9	37931.5	38950.0	0.0	0.1	898
23092.1	21486.6	23328.5	22648.0	0.0	0.3	357
84940.3	76831.1	81627.3	83637.0	0.0	0.4	113
7230.3	7355.0	7737.3	6849.7	0.0	0.7	588
25468.4	21788.0	23962.2	25379.0	0.0	0.6	435
12398.8	11070.0	11530.7	10595.0	0.0	0.7	480
7948.2	8416.9	7419.2	8043.3	0.0	0.7	385

Pi4kb	0.519123	4.13E-47	138.46	S(0.009)KS(0.055)DAT(0.339)AS(0	3	-0.063016	163647.5	161652.3
Fga	0.950083	3.66E-07	55.688	GDLPGDS(0.95)RGDS(0.048)AT(0.1	3	-2.3505	6742.2	7864.6
Nuak1	0.999802	5.22E-23	91.355	TAIPLPGS(1)PEAQGSSGK	3	0.046607	22576.2	21573.0
Lrrfip2	0.800591	4.24E-15	90.379	NS(0.005)AS(0.055)AT(0.129)T(0.8	2	-1.0293	13963.9	13758.6
Dzank1	0.5	0.000110201	47.548	LLLEEVGS(0.5)T(0.5)GKGR	3	0.86498	9054.8	8718.1
Dzank1	0.5	0.000110201	47.548	LLLEEVGS(0.5)T(0.5)GKGR	3	0.86498	9054.8	8718.1
Nacad	0.997634	4.73E-41	109.32	SQCPAQDPAGS(0.998)NEET(0.002	2	0.54682	207168.4	209466.9
Kctd12	0.998316	8.91E-72	138.57	SPSGGAAGPLLT(0.998)PS(0.002)Q	3	0.1389	188085.6	182493.7
Cdr2l	0.995981	4.11E-21	109.07	HAGNLT(0.004)LHANS(0.996)VR	3	-0.18654	27884.8	27618.1
Macf1	0.602249	7.51E-07	69.815	QGS(0.058)FS(0.339)EDVIS(0.602)	2	0.70283	12888.1	12314.0
Cux1	0.968437	7.06E-07	50.202	S(0.002)ET(0.022)PQNS(0.968)PLF	4	-0.017449	6671.0	6531.4
Cdr2l	0.999886	4.39E-15	110.44	HAGVQTSRPIS(1)R	4	-0.33702	5189.9	5600.7
Atp8a1	0.977345	2.36E-50	91.1	S(0.002)ES(0.013)LQQNLLHG(0.9	3	3.5761	6878.8	5983.1
Fgf13	0.725558	0.0024013	56.205	KS(0.726)YS(0.274)EPQLK	3	-0.43089	9752.3	8452.9
Ajuba	0.983301	2.35E-16	60.979	HS(0.983)Y(0.006)PPALGS(0.01)PC	3	2.2295	9979.3	10981.2
Akap9	0.565052	0.000331914	40.197	GS(0.031)PT(0.402)T(0.565)PPKGF	3	-1.3542	13672.9	14063.5
Zc3hav1	0.592462	1.11E-05	48.597	AS(0.592)QEFS(0.407)EDGNLDDIF	3	2.3869	8158.8	8300.2
Kcnq2	0.86561	9.18E-13	71.376	RS(0.118)PS(0.866)ADQS(0.014)LI	3	-0.036578	89106.3	85741.4
Unc79	0.979504	1.15E-05	76.073	ALS(0.98)LPET(0.02)LTSK	2	0.60788	5734.9	5931.1
Ank1	0.995556	1.67E-06	80.69	LGYIS(0.996)VT(0.004)DVLK	3	0.86264	42794.5	49529.0
Ank2	0.990699	0.000221744	48.899	QKEES(0.991)PQGS(0.009)EEK	3	-0.38619	7045.2	8129.2
Eif2ak2	0.905187	0.00853111	67.385	LS(0.043)EKS(0.905)PS(0.052)K	3	0.24355	89175.5	77283.1
Cdc42ep1	0.9746	1.69E-31	75.661	ELAGVLPQVHGS(0.975)WES(0.025	3	0.7158	5684.8	5345.0
Cdk17	0.624312	0.000335164	67.385	AS(0.376)LS(0.624)EIGFGK	2	-0.3053	4577.0	3824.3
Dab2ip	0.999844	1.64E-20	117.9	QGPSPVS(1)PNALDR	3	0.44042	23858.4	23567.2
Iqsec1	0.996911	2.95E-22	88.627	ET(0.001)RNS(0.997)WDS(0.002)P	3	0.14492	11580.3	10615.5
Lactb2	0.898333	0.000915215	57.401	IFS(0.102)IAS(0.898)PAKK	3	1.5216	22139.7	20829.3
Sptbn1	0.960187	1.35E-39	120.33	ESS(0.001)PVPS(0.96)PT(0.032)S(C	3	0.94064	348918.4	364899.7
Acin1	0.571277	1.63E-18	42.218	EAS(0.222)S(0.207)PPT(0.571)HM	4	1.1544	1753.4	1211.5
Srrm2	0.933811	2.73E-78	148.56	VGIFSSQS(0.001)VS(0.065)S(0.934	3	0.89007	77168.7	76727.0
Plekhd1	0.76324	3.51E-19	62.052	S(0.001)NS(0.004)VS(0.047)PS(0.1	3	1.0239	7224.1	7214.4
Srgap1	0.99506	0.00281987	99.343	DMNS(0.995)PT(0.005)DR	2	0.41005	19809.2	18498.4
Palm3	0.879242	0.00406902	40.315	DGEGS(0.879)LDRES(0.121)K	3	-0.20061	6631.2	10815.9
LOC10091	0.737079	4.50E-21	105.39	S(0.131)MS(0.737)S(0.131)AFCSLL	3	1.018	15873.4	14403.6

152786.8	152333.4	152260.4	161160.0	0.0	0.4	282;282
9283.5	7930.6	8195.4	7148.1	0.0	0.8	279
23167.7	20717.7	22979.0	21885.0	0.0	0.5	444
12461.6	12669.3	13787.6	12692.0	0.0	0.6	85
7250.9	7725.3	8676.2	7977.7	0.0	0.7	641
7250.9	7725.3	8676.2	7977.7	0.0	0.7	642
195564.1	197387.8	196416.7	202630.0	0.0	0.3	1255
204954.2	182109.3	186253.9	192350.0	0.0	0.5	198
27310.2	25552.1	26509.8	28619.0	0.0	0.5	294
13864.8	11615.6	12447.6	13998.0	0.0	0.7	3890;3832
6712.7	6515.3	6543.9	6343.2	0.0	0.1	815
5177.8	4817.3	5483.6	5256.7	0.0	0.6	343
6326.1	6315.9	6285.0	6093.5	0.0	0.6	1119
9463.2	9032.0	9298.3	8626.4	0.0	0.6	7
9714.3	9839.8	9785.1	10261.0	0.0	0.6	240
13220.7	12844.2	13214.9	13845.0	0.0	0.4	865
7299.5	7931.4	8056.6	7159.7	0.0	0.7	325
86082.7	81444.3	85740.5	87042.0	0.0	0.3	440
5770.1	5853.1	5739.4	5395.8	0.0	0.4	1065
41937.3	42844.5	45233.6	42735.0	0.0	0.7	688
9138.9	7229.7	7788.5	8670.8	0.0	0.8	1711
82854.7	85098.4	76956.3	80860.0	0.0	0.6	164
5423.1	4866.1	5895.1	5269.5	0.0	0.7	347
4511.2	3786.3	4272.4	4522.7	0.0	0.8	182
23147.4	22144.4	23142.6	23477.0	0.0	0.3	967
11340.6	11108.5	10115.6	11453.0	0.0	0.6	511;510
20336.8	21737.4	20741.3	19205.0	0.0	0.6	279
353599.5	341603.5	342874.4	355590.0	0.0	0.2	2155
1693.5	1899.2	1223.2	1416.8	0.0	0.9	323;429;429
76396.6	71960.5	76929.5	75510.0	0.0	0.3	1362
7459.3	7504.0	6882.3	6951.3	0.0	0.4	14
18087.2	18312.1	17328.1	19312.0	0.0	0.6	772
9560.9	10270.0	7685.9	8361.5	0.0	0.9	524
16082.5	14371.0	15013.4	15790.0	0.0	0.6	375



Apc2	0.993323	1.26E-06	44.6	RSPLATPT(0.006)GGPLPGPGGS(0.!	3	1.8127	7337.8	6919.3
Napg	0.514244	6.47E-16	55.986	S(0.022)PAT(0.067)PQAKPEGAAG,	3	-0.66471	9478.2	10173.9
Arvcf	1	6.75E-31	141.07	NFDT(1)LDLPKR	3	-1.0744	175538.6	187013.0
Dync1i2	0.641096	1.87E-71	105.17	EAEALLQSMGLT(0.061)T(0.197)DS	4	-1.0009	21833.2	21618.0
Map1a	0.978073	8.14E-28	76.967	MAS(0.978)PPPS(0.02)GPPS(0.002	4	0.0267	178568.0	174234.0
Fscn1	0.787929	0.000118065	78.744	VNAS(0.073)AS(0.788)S(0.139)LKK	3	0.36504	44580.0	43577.1
Limch1	0.991652	2.85E-18	98.062	S(0.992)PEPEAT(0.006)LT(0.002)F	3	-0.98278	70099.7	58697.0
Mkrn2	0.697166	2.60E-09	45.38	T(0.001)PPPS(0.002)T(0.006)VNNI	4	-1.1169	5737.3	4966.6
Ccdc61	0.679488	0.000644647	43.794	GKPPS(0.679)PIPWS(0.316)GS(0.0	3	-0.20775	9837.0	9763.2
Isl2	1	3.11E-21	79.467	S(1)PGPLPGAR	2	0.2162	50388.3	51775.5
Kcnb1	1	0.00202336	63.624	EQGS(1)PEKAR	2	0.41819	48144.9	49529.0
Prpsap1	0.666995	1.39E-08	46.065	LGLAVIHGEAQCT(0.333)ELDMDDC	5	1.0373	8233.5	8117.1
Fez1	0.956235	0.00153064	88.495	GLS(0.036)LQS(0.956)S(0.007)R	2	-0.5619	32289.4	29850.3
Gbf1	0.801346	1.24E-42	132.67	AAS(0.002)S(0.006)S(0.022)S(0.05	4	-1.0087	124336.8	119563.7
Crmp1	0.972246	0.00117491	57.149	VFGLHS(0.028)VS(0.972)R	3	0.25282	2030.7	2137.0
Lrrc47	0.827835	0.0172464	59.013	QS(0.172)VS(0.828)GLHR	2	-0.38628	9365.0	8873.6
Dst	0.827252	7.07E-15	113.76	S(0.009)LS(0.827)GT(0.158)LT(0.0	2	-0.8876	24729.0	21989.9
Fam13a	0.584144	1.93E-21	71.071	S(0.204)S(0.204)S(0.584)LGS(0.00	3	1.5204	12131.9	14018.6
Tanc1	0.998306	7.28E-05	50.376	T(0.998)PPGPGT(0.002)VDSQRPR	3	-1.0042	38417.4	40370.9
Ehbp1l1	0.806628	2.22E-31	75.103	GQGSEPAAIAGGQVGPET(0.807)PF	3	1.9817	12606.6	13202.5
Sirt2	1	0.0187486	53.756	KS(1)PPPAK	3	-1.2994	128749.7	123216.4
Eif3j	0.971986	9.07E-31	87.802	LEEPEES(0.028)KVL(0.972)PEEQL	4	-0.78474	10554.6	9201.4
Acot1	0.893393	0.00178704	102.07	S(0.893)HGVS(0.107)PKI	2	-0.021824	102507.2	101696.1
Tenc1	0.999908	4.70E-41	126.55	LS(1)PGEALPSVVQGVTEK	3	0.61075	50661.4	46795.5
Actl6a	1	0.00228781	61.48	EGS(1)PANWK	3	0.85084	42335.4	42347.5
Zfr2	0.979363	6.18E-32	108.45	KGS(0.02)PELQT(0.979)VHS(0.001	4	0.39144	63821.5	65024.0
Cacna1b	0.588686	4.07E-05	47.174	AS(0.589)CEALY(0.278)S(0.133)EM	3	1.2365	9532.5	9393.5
Ccnl1	1	4.00E-07	75.376	AEEKS(1)PVVS(1)INVK	3	0.5755	48556.4	47376.8
Srrm2	0.991512	0.014384	46.88	S(0.005)LS(0.992)Y(0.006)S(0.997	2	-0.7097	55398.8	49174.7
Arhgef4	1	3.66E-06	66.826	CHHS(1)APENLGADAK	3	-0.66023	7949.0	7308.0
Wiz	0.63464	0.000737397	40.432	S(0.416)PQLS(0.258)LS(0.478)PRP	4	0.52846	2034.0	1794.2
Ggt7	0.540628	8.60E-18	71.842	LPS(0.018)S(0.078)S(0.363)S(0.54	3	1.1164	9358.4	9764.8
Slc9a1	0.662988	1.72E-10	71.601	IPS(0.016)AVS(0.658)T(0.663)VS(C	3	0.51975	9413.8	8184.7
Comt	0.573472	3.21E-08	96.059	AIY(0.001)QGGS(0.573)S(0.418)PC	3	-1.3339	16990.9	17500.2



8282.3	6765.9	8031.9	7165.8	0.0	0.7	1884
10476.3	10552.6	9121.4	9684.7	0.0	0.6	226
182820.3	170317.8	179681.8	181440.0	0.0	0.4	573
22203.1	19818.0	22189.3	21971.0	0.0	0.5	73
181691.8	163476.0	175930.8	181450.0	0.0	0.5	1228
45767.9	41315.6	46199.6	42995.0	0.0	0.5	38
74565.4	65897.5	59478.6	72803.0	0.0	0.8	561;552
5368.8	4774.0	5525.0	5364.3	0.0	0.7	140
9489.8	9443.6	9442.3	9463.3	0.0	0.1	447
46030.9	47561.2	48912.9	47948.0	0.0	0.5	157
45848.8	46311.6	45990.2	47568.0	0.0	0.4	507
8057.5	7677.5	7894.1	8215.5	0.0	0.3	141
32966.6	33030.7	30457.4	29201.0	0.0	0.6	302
118643.7	114076.8	121376.6	117880.0	0.0	0.3	1783
2039.6	1850.5	2296.0	1903.2	0.0	0.7	495;609
8979.7	8625.9	8684.0	9217.2	0.0	0.4	431
23057.0	21430.5	23380.9	23193.0	0.0	0.6	4780;4843
13102.5	12755.1	12446.5	13055.0	0.0	0.6	307
41919.2	35609.0	39742.9	42292.0	0.0	0.7	475
15580.0	13620.8	12807.7	13911.0	0.0	0.7	278;278
126756.3	117530.7	122381.1	129210.0	0.0	0.4	334
9514.7	8939.8	9271.4	10318.0	0.0	0.7	110
90073.0	92968.6	95585.9	98268.0	0.0	0.6	412
52379.3	46617.4	48622.2	50805.0	0.0	0.6	918
40168.9	39510.6	38803.5	43379.0	0.0	0.5	181
57696.1	59408.8	62849.1	59565.0	0.0	0.6	296
8899.9	8613.5	9559.0	8950.1	0.0	0.5	804;805
44766.1	44481.3	44069.8	48592.0	0.0	0.6	258
49124.7	49151.7	51115.4	49547.0	0.0	0.6	2649
8332.1	7035.5	8216.9	7740.6	0.0	0.7	14
1656.7	1724.4	1887.0	1735.0	0.0	0.7	328
9077.7	8498.2	9593.2	9397.5	0.0	0.6	20
9143.9	8594.5	8989.1	8483.8	0.0	0.6	607
16832.0	17402.5	16649.5	15977.0	0.0	0.4	259

Usp20	0.528275	2.87E-63	108.73	EAQPPS(0.415)PRPT(0.528)S(0.52	4	-1.5807	18587.9	20704.3
Gnpat	0.983221	2.67E-24	98.227	FS(0.983)VGS(0.017)ASPSSVLLYAK	3	1.4246	11871.0	11211.6
Notch2	0.943147	0.00270878	79.16	RDS(0.943)S(0.057)NHK	3	0.73248	6370.9	6706.8
Eno3	0.885832	3.13E-120	183.1	S(0.886)GET(0.112)EDT(0.002)FIA	4	0.45187	15096.9	16378.0
Jph3	0.999769	2.41E-32	109.65	SLPVALES(1)DEETGDELK	2	0.33253	54937.2	56502.1
Prkar2b	0.728664	3.48E-71	98.74	GVNFAEEPMS(0.729)DS(0.271)E	4	0.32371	23448.1	22845.4
Ank2	0.628616	2.44E-41	110.6	KT(0.058)S(0.306)LVIVES(0.629)T(	3	0.31875	76723.9	75014.7
Slc4a1ap	1	1.17E-105	178.03	MLGEDS(1)DEEDEADTTAGKR	3	-0.66597	91558.4	88063.6
Txlna	0.593608	0.000135934	48.216	EQGVES(0.049)PGAQPS(0.594)S(0	2	2.1689	4674.2	3626.2
Dars	0.992463	4.05E-05	52.862	S(0.001)NAY(0.005)LAQS(0.992)P(	3	-0.044552	20156.3	19459.3
Zfp513	0.999366	0.00965384	77.058	ALHT(0.001)DS(0.999)P	2	0.19521	16532.9	16518.4
Pkn1	0.756913	5.61E-10	53.481	LIPNAVAT(0.008)GS(0.088)FS(0.08	3	0.25081	9901.1	8824.4
Fstl1	0.801774	1.89E-22	90.718	SFDNGDS(0.074)HLDS(0.802)S(0.1	3	0.47957	27508.0	26331.4
Tmpo	0.544749	2.74E-33	113.86	EQGAES(0.031)RS(0.545)S(0.191)T	3	-0.51601	27694.0	29507.0
Ttbk1	0.588538	3.81E-27	80.702	AGTDALLS(0.007)T(0.031)S(0.034)	3	-0.49065	37017.2	38205.5
Hspa4	0.998098	6.83E-23	76.492	MQVDQEEPHT(0.002)EEQQPQT(0	4	0.87594	32075.9	36925.4
Itpr3	0.862244	7.39E-17	133	VS(0.12)S(0.862)FS(0.018)MPSSSF	2	-2.29	55072.0	56088.5
Cdc5l	0.695998	7.61E-05	49.066	S(0.049)GT(0.179)T(0.696)PKPVT(	3	0.71417	37618.3	37211.7
Arhgap21	0.804001	3.12E-19	75.033	S(0.073)AS(0.804)QGALT(0.085)S(	3	0.14552	24106.4	23924.8
Ppp1r12a	0.733025	0.00681373	49.081	LGS(0.133)T(0.133)S(0.733)DIEEK	2	-0.1566	8328.1	8117.8
LOC68141	0.975873	1.35E-05	51.726	GFGFVY(0.024)FQS(0.976)HDAAD	3	1.4171	8272.7	6871.1
Pex16	0.999833	1.01E-62	108.96	ETQAQPLDGDHNLGS(1)PEPSYVGK	3	-0.20443	59577.9	64426.2
Sptbn1	0.999963	1.58E-59	165.9	SALPAQSAAT(1)LPAR	2	0.055215	47738.2	47765.2
Inadl	0.548617	9.01E-60	122.79	ES(0.549)S(0.451)KPEDLTQAVDDS	4	0.020638	18957.6	17475.0
Tra2a	0.999589	0.00359366	71.614	RRDS(1)YYDR	3	0.027294	22012.1	20759.1
Nefm	1	2.08E-14	100.04	S(1)NEKEQLQGLNDR	3	-0.36914	111700.4	114879.9
Ten1	0.999865	5.45E-18	72.568	EQEPLPQTLDCPES(1)PPK	4	-1.5553	86845.0	93888.2
Prkab2	1	7.29E-31	87.511	S(1)HNDFVAILDLPEGEHQYK	4	0.14884	30898.7	26530.0
Tomm70a	0.990996	3.93E-101	157.24	AS(0.991)PALGS(0.009)GPDGSGD(	3	0.44634	364685.6	362552.3
LOC10036	0.77765	2.75E-10	47.085	S(0.209)LDS(0.778)CPS(0.009)QVL	4	-0.5863	8406.6	7735.3
Nucks1	1	6.96E-51	164.69	NSQEDS(1)EDS(1)EEKDVK	3	-0.59423	530491.9	483542.0
Itpr2	0.958706	0.00035732	77.923	DS(0.041)S(0.959)LHLK	3	-0.083136	18762.0	18913.0
Lnp	0.663135	7.42E-15	54.167	RLGS(0.663)PAT(0.256)S(0.081)VF	4	-0.48198	4352.9	5121.4
Pfkap	0.999999	8.95E-16	132.4	GRS(1)FEGNLNTYK	3	-0.69842	30414.5	31460.6

18252.2	18341.8	18534.6	19217.0	0.0	0.6	356
11020.1	11749.8	11710.2	9783.9	0.0	0.7	12
7072.9	5993.7	6744.7	6904.9	0.0	0.7	1721
15931.3	13553.7	17570.6	15089.0	0.0	0.8	373;373;373
52968.1	51810.3	54990.3	53470.0	0.0	0.4	711
25374.7	22726.3	23803.0	23336.0	0.0	0.5	83
76054.8	71565.6	74357.3	76141.0	0.0	0.3	3824
91850.9	86478.8	86407.3	91760.0	0.0	0.3	258
3549.0	3826.9	3812.9	3911.8	0.0	0.8	524
19974.8	18285.7	19391.6	20418.0	0.0	0.5	216
15402.2	15725.0	16251.9	15261.0	0.0	0.4	540
9631.5	9047.6	9443.3	9155.4	0.0	0.5	540
25784.6	23400.5	27146.8	27082.0	0.0	0.6	163
27415.6	28286.6	27702.5	26508.0	0.0	0.4	157;157
35829.5	34547.5	39636.0	34087.0	0.0	0.7	325
34708.4	32701.8	32597.9	35815.0	0.0	0.6	538
56743.3	54563.5	55766.1	53374.0	0.0	0.2	1832
35512.2	33142.9	37356.6	37083.0	0.0	0.6	430
24876.4	22603.1	25840.9	22641.0	0.0	0.6	480
10788.0	8716.2	9059.5	8777.4	0.0	0.8	509
8734.1	8166.2	8141.1	6973.6	0.0	0.8	148
61867.4	59309.8	60825.1	61094.0	0.0	0.4	137
47960.0	43893.9	49323.3	46663.0	0.0	0.5	2173
18594.0	17487.2	17240.4	18925.0	0.0	0.5	1378
20491.2	20028.1	20547.9	21108.0	0.0	0.4	236
106549.4	105084.6	114077.7	105660.0	0.0	0.5	97
86175.3	87515.0	82168.0	90570.0	0.0	0.6	164
29086.0	28155.7	24293.5	31909.0	0.0	0.8	107
367674.1	343198.4	357728.5	366700.0	0.0	0.3	94
9821.3	7892.7	8877.7	8546.0	0.0	0.8	1563
561875.5	487161.2	536502.0	512990.0	0.0	0.7	61
19933.3	17303.5	18578.4	20292.0	0.0	0.6	1856
4289.7	4199.6	5003.4	4218.2	0.0	0.8	222
28977.4	29572.4	29092.8	29928.0	0.0	0.4	386

Rcan1	1	5.32E-11	67.227	QLIS(1)PPAS(1)PPVGWK	3	1.2781	95848.5	96784.1
Pirt	0.999828	0.00134215	110.08	SNFFQS(1)LK	2	0.37671	33414.1	40783.3
Pacs2	0.995614	0.0115544	59.368	S(0.002)T(0.003)S(0.996)LKER	3	-0.65388	49192.1	51716.2
Nfrkb	0.878526	0.000775135	72.817	S(0.879)PS(0.121)PAVPLR	2	-0.46845	8518.4	8584.1
Prkce	0.999963	2.80E-26	78.976	GFS(1)YFGEDLMP	2	1.0595	187167.2	188450.0
Blnk	0.993306	0.000557985	53.038	S(0.001)S(0.001)QRHS(0.993)PPFS	3	0.47923	22047.9	23751.5
Zfp36	0.962909	0.000169077	57.595	QS(0.004)IS(0.963)FS(0.032)GLPS(	2	0.028936	6260.3	6335.9
Stk11ip	0.98895	4.41E-17	92.613	RAS(0.989)IS(0.01)EPS(0.001)DTD	2	0.99193	13818.4	13216.7
Rabep1	0.823004	1.72E-27	103.01	AQS(0.016)T(0.057)DS(0.823)LGT(	3	2.1772	99538.6	107765.3
Slc43a2	0.856122	5.92E-05	62.088	LCLS(0.856)T(0.144)VDLEVK	3	-0.82373	1695.6	1630.0
Pphln1	0.963957	0.014502	57.108	KDS(0.964)PHS(0.036)R	3	0.71138	21592.3	19583.2
Ehbp1	0.989988	4.21E-24	93.201	QTPDDHLS(0.99)PS(0.008)T(0.002	3	-0.47454	15461.9	16168.5
Ncor1	0.829312	8.92E-58	104.26	HEAPS(0.171)S(0.829)PLAGQPCGI	3	0.61823	15111.2	16752.1
Bclaf1	0.999645	8.94E-59	139.46	FHDS(1)EGDDTEETEDYR	3	0.26159	125541.4	132836.4
Lmo7	0.561092	0.000203027	49.425	S(0.561)HS(0.399)PS(0.035)MS(0.1	2	0.19339	5440.6	5302.9
Ttbk1	0.631286	2.38E-05	66.004	KES(0.088)S(0.631)S(0.28)PS(0.00	4	-0.86653	8410.2	8060.6
Prkar1a	0.827642	6.59E-41	110.38	T(0.177)DS(0.828)REDEIS(0.995)P	3	-0.6881	398104.5	394055.7
LOC10368	0.997669	0.00216018	96.342	IS(0.998)LT(0.002)VAAK	2	-1.0739	21059.1	20337.9
LOC10369	0.899355	0.000866332	73.885	IQQVS(0.101)S(0.899)PQK	2	-0.25752	9277.0	9362.6
Son	0.99503	9.33E-16	54.425	EDDDVIVNKPHSV(0.995)DEEEEEPI	5	-0.45434	10325.1	10006.7
Arhgef11	0.999855	4.32E-07	72.662	SLENPT(1)PPFTPK	3	0.143	19740.0	21229.7
Apool	0.644594	3.67E-12	63.302	IKS(0.025)ES(0.122)T(0.645)S(0.1€	4	1.2689	10140.9	10557.0
Smtnl2	0.838613	9.82E-10	75.682	S(0.029)QS(0.839)FGVAS(0.109)A'	3	0.33099	7498.6	9125.6
Abcf1	0.852895	0.0383772	40.103	AGGKS(0.853)T(0.147)K	3	1.3792	15255.6	14655.9
LOC10036	0.971125	2.63E-32	94.632	AINGPT(0.001)S(0.028)AS(0.971)C	3	-1.4615	62404.6	60075.8
LOC10369	0.999212	1.30E-30	87.802	YYTSASGDEMVS(0.999)LKDYCTR	3	0.2732	77680.4	80503.7
MAST1	0.909141	2.87E-67	173.71	SLILTS(0.001)T(0.089)S(0.909)PTLI	2	0.62032	47440.0	44218.8
Arfgef2	1	6.61E-107	126.63	EREGS(1)LK	3	0.057799	102778.0	99485.8
Sorbs1	0.999356	0.0726326	49.418	S(0.001)PLS(0.999)VPR	2	-0.32291	13174.3	11275.2
Sorbs1	0.999356	0.0726326	49.418	S(0.001)PLS(0.999)VPR	2	-0.32291	13174.3	11275.2
Farp2	0.999999	0.00609397	105.1	LSLS(1)PER	2	-0.69893	37068.5	36256.3
Arhgap5	0.81986	2.56E-36	106.86	GGIDNPAIT(0.18)S(0.82)DQEVDDH	3	0.28099	71606.1	76664.5
LOC10369	0.5	0.00126217	56.548	IQQVS(0.5)S(0.5)PQK	3	-0.66903	4895.5	4889.9
Tars	0.981752	0.00993392	98.582	AS(0.009)S(0.982)PS(0.009)GK	2	-0.087011	56516.3	54438.8

86134.9	90687.3	89388.9	91764.0	0.0	0.5	108
39434.3	36834.4	38048.0	35931.0	0.0	0.7	129
49165.2	46335.8	49130.9	50888.0	0.0	0.5	437
8091.8	7890.3	8118.4	8561.7	0.0	0.5	238
179019.5	177588.5	185933.4	177390.0	0.0	0.3	729
23757.5	22088.3	23545.4	22202.0	0.0	0.5	129
6200.6	6251.3	5984.2	6096.2	0.0	0.1	185
14000.0	11875.2	14476.9	13668.0	0.0	0.7	387
89347.9	98899.6	83855.4	106560.0	0.0	0.8	410
1507.9	1299.3	1957.1	1457.6	0.0	0.9	297
18236.3	20420.8	18174.4	19349.0	0.0	0.7	85
15838.7	15467.6	15615.0	15214.0	0.0	0.2	614;614
15828.0	16138.6	14227.9	16147.0	0.0	0.6	159
126841.4	121127.6	127809.8	126770.0	0.0	0.4	395
5724.8	6039.8	4882.0	5140.0	0.0	0.7	1320;1303
6751.9	7707.0	7679.3	7263.2	0.0	0.7	1247
394141.1	383500.9	387330.0	386220.0	0.0	0.0	77
20993.7	20558.2	20905.9	19389.0	0.0	0.4	152
9622.7	8805.2	9098.2	9662.4	0.0	0.4	285
11105.3	10227.0	10191.8	10244.0	0.0	0.5	2149
20346.4	19983.0	21112.1	18711.0	0.0	0.6	710;699
10294.1	10162.4	10428.1	9638.4	0.0	0.4	224
7794.0	8157.3	8739.7	6920.0	0.0	0.8	339
14468.5	14237.9	14758.0	14292.0	0.0	0.3	561
66220.7	58560.8	64226.6	61271.0	0.0	0.6	587
70752.9	73265.0	74915.1	75128.0	0.0	0.6	477
43353.3	44185.4	44760.1	42748.0	0.0	0.5	43
93612.9	97500.4	92754.0	98351.0	0.0	0.5	1030
11354.4	11385.7	12309.7	11229.0	0.0	0.7	687;475;738
11354.4	11385.7	12309.7	11229.0	0.0	0.7	429
31757.2	35076.6	33560.8	33864.0	0.0	0.6	492
75681.1	70510.7	72532.1	75410.0	0.0	0.4	1218
4850.7	4846.4	4391.3	5039.1	0.0	0.6	284
55621.2	51969.8	54507.3	56010.0	0.0	0.4	8

Mical1	0.731363	0.00980036	51.979	KES(0.068)S(0.2)S(0.731)PEK	3	2.1169	18753.7	20442.1
Pold3	0.926039	2.31E-11	68.41	VDLS(0.926)DEEAKET(0.074)ENLK	3	-0.94671	26098.2	27353.8
Srpk1	0.999723	7.08E-74	157.9	AHT(1)PSGDEQER	3	0.13401	47862.2	48507.8
Dmxl1	0.988816	0.00551999	55.531	S(0.989)MT(0.009)S(0.002)LAQK	2	0.40691	15318.8	14587.9
Bad	0.909819	5.00E-14	119.87	RMS(0.91)DEFEGS(0.09)FK	3	0.77651	97738.9	90418.7
Mavs	0.548046	5.00E-22	69.016	VYQSYLPPGAS(0.011)LHS(0.441)LI	3	1.0688	6965.2	5679.2
Mrps31	0.97743	5.53E-05	57.475	RVS(0.977)FT(0.021)QIIS(0.001)NI	3	-1.6133	5879.1	6196.7
Trrap	0.800696	5.21E-05	48.907	S(0.189)QS(0.801)LPGADS(0.01)LI	3	1.052	16238.3	14982.8
Dync1i1	0.998027	5.34E-197	209.68	ETQTPLAT(0.002)HQS(0.998)EEDE	4	-0.704	412309.3	414633.8
Mybbp1a	0.798483	5.15E-06	51.495	SPAPNNPT(0.073)LS(0.798)PS(0.0	3	-1.0811	33721.8	33704.9
Mapt	0.577191	3.08E-11	68.845	T(0.02)T(0.024)PS(0.577)PKT(0.37	3	-0.13912	47663.0	54376.3
Eepd1	0.967705	1.18E-15	86.488	DIPGQES(0.031)S(0.968)PS(0.001)	4	0.35177	46761.4	45685.4
Synpo2	0.860266	2.87E-06	58.079	AQS(0.104)PT(0.86)PS(0.036)LPAS	3	-0.50677	14944.3	17386.1
Rbmxml	0.971806	3.44E-09	72.489	VEQAT(0.019)KPS(0.972)FES(0.00	3	0.15269	83662.9	85074.5
Bnip2	0.837984	1.23E-09	74.338	KGS(0.838)IT(0.158)EY(0.004)AAT	2	0.61333	13740.9	10934.6
Samd14	0.911363	7.60E-08	54.559	DAS(0.011)PPEPAS(0.911)PT(0.07	3	0.95807	34641.4	33043.5
Stim2	0.684299	0.000518097	66.004	DELS(0.684)LEDS(0.278)S(0.038)R	2	0.23252	15360.5	14888.4
Samd4a	0.671894	1.67E-23	61.96	S(0.126)LPVHT(0.672)S(0.202)PQI	4	-1.7289	6394.9	5096.5
Ptrf	0.625554	9.35E-98	187.56	AT(0.001)EEPS(0.626)GT(0.37)GS(	3	0.13687	44639.6	40204.1
LOC30676	0.832338	0.00016756	58.098	S(0.167)DS(0.832)GFAIQAYK	3	0.62973	3422.6	3364.6
Aplp2	0.648632	1.06E-15	48.847	VVDS(0.076)DS(0.069)T(0.206)MS	4	1.8657	10746.3	10607.6
Zbtb11	0.715966	4.61E-17	61.504	KGEVQT(0.001)VAS(0.027)T(0.257	4	-1.011	6567.5	5677.1
Vash1	0.998072	0.00493998	88.819	DVS(0.002)S(0.998)PQR	2	-0.54862	35550.2	35841.7
Wipf3	0.999997	4.63E-10	88.243	AISGPLPAPAS(1)PR	2	0.74119	75558.6	74563.9
Gphn	0.999999	3.14E-83	117.26	VKEVHDELEDLPS(1)PPPPLS(0.997)	4	-0.1572	225309.1	232096.2
Hcfc1	0.934637	5.00E-06	51.566	S(0.935)PIS(0.065)VPGGSALISNLG	3	0.90873	5619.9	5547.1
Prkaca	1	1.40E-179	209.4	FKGPGDTSNFDDYEEEEIRVS(1)INEI	4	2.0322	466456.9	463973.0
Trip12	0.998592	2.39E-10	70.986	KRS(0.999)ES(0.989)PPAELPS(0.01	3	1.3803	24720.7	27098.2
Dusp15	0.699468	2.80E-19	65.197	QGGPETS(0.001)APS(0.071)AT(0.6	3	-0.31412	5467.5	5494.2
Mark3	0.609131	4.79E-05	45.069	T(0.194)PVAS(0.609)T(0.194)HS(0	3	2.6409	8584.3	8549.7
Sorbs2	0.989126	9.18E-48	85.376	SLDSAETYS(0.003)QHAQS(0.989)L	3	0.19195	11392.7	11111.7
MLL4	0.996858	4.30E-29	78.78	QGAIYHGLAT(0.003)LLNQPS(0.99	4	0.75522	8640.1	8490.6
Ppp1r13b	0.558226	7.86E-40	121.77	RS(0.439)S(0.558)IT(0.003)EPEGP	3	-0.2839	17731.6	19196.0
Abca9	1	9.73E-10	128.57	DVES(1)LVELER	2	-0.38478	92216.8	93652.4

19200.8	20971.8	17286.4	18705.0	0.0	0.7	949
27006.8	24957.0	26098.4	27429.0	0.0	0.5	306
44236.9	45982.7	46639.9	44536.0	0.0	0.5	453
14544.1	13387.6	14791.1	15182.0	0.0	0.6	1285
90521.2	85966.3	90740.7	95141.0	0.0	0.6	114
6461.8	5354.3	6608.0	6676.0	0.0	0.8	110
5959.2	5372.9	5974.7	6245.9	0.0	0.6	191
14616.5	15184.9	14689.6	14841.0	0.0	0.5	2058
412900.1	415652.8	377402.3	416460.0	0.0	0.5	160
32995.4	30906.7	33051.0	34008.0	0.0	0.4	1255
45764.7	47907.6	50896.3	45385.0	0.0	0.7	489
41818.1	42399.0	45790.3	42793.0	0.0	0.6	336
14717.6	16027.5	14455.5	15415.0	0.0	0.7	902
89252.1	84596.8	81089.8	86002.0	0.0	0.4	88;88
13752.0	11378.0	12409.1	13702.0	0.0	0.8	114
35255.6	34040.5	33459.2	32928.0	0.0	0.3	179
15226.5	14130.1	14836.0	15401.0	0.0	0.4	628
6315.5	5908.8	5738.9	5725.2	0.0	0.8	474
43045.6	39042.0	40350.9	45380.0	0.0	0.7	38
2887.9	2911.2	3761.7	2766.5	0.0	0.8	236
12338.1	10000.9	9332.1	13538.0	0.0	0.9	216
5911.5	5335.0	5621.6	6757.1	0.0	0.8	207
32389.6	32786.5	33878.1	34589.0	0.0	0.5	339
72674.6	67534.2	76010.5	73827.0	0.0	0.5	150
218283.5	212017.2	225024.3	222200.0	0.0	0.4	188
5768.7	4909.6	5599.9	6014.1	0.0	0.7	666
450439.4	434462.1	456642.2	456190.0	0.0	0.3	331
26250.9	24671.0	26389.1	25112.0	0.0	0.5	310
6390.6	5113.7	6326.9	5490.1	0.0	0.8	187
9376.9	8575.4	8070.8	9220.7	0.0	0.6	540
11470.5	10444.0	11205.8	11500.0	0.0	0.5	143
8147.8	7726.3	8428.7	8509.6	0.0	0.5	1114
18709.0	18380.3	16646.3	19259.0	0.0	0.6	663
99438.6	90743.4	94702.2	92936.0	0.0	0.4	848



Sparcl1	0.844226	2.19E-11	55.588	GEES(0.844)QEQPVS(0.078)DS(0.0	4	0.6684	5336.5	5356.1
Gtf3c4	1	6.05E-54	99.064	ILLVDS(1)PGMGDGEDEQQEEGTSK	3	1.1744	133234.2	133297.1
Map7d1	0.966787	5.85E-07	81.822	S(0.022)RGPT(0.967)PT(0.01)AT(0	3	0.44323	29498.5	32199.9
Ttbk1	0.990438	0.000170717	69.971	KGTIIS(0.99)PS(0.009)R	3	-0.10233	24007.4	23127.4
RGD13046	0.989789	3.06E-76	108.68	S(0.01)HS(0.99)ANDSEEFFR	3	-0.44379	82261.5	78728.9
Macf1	0.551742	0.00492978	52.579	QKS(0.18)S(0.268)LEAT(0.552)R	3	0.51516	17276.0	18625.6
Daxx	0.991616	0.0115128	54.982	DAS(0.992)PPS(0.008)K	2	1.4229	19237.9	16435.1
Sarm1	0.905232	6.48E-05	56.397	RNS(0.905)GS(0.09)QLAS(0.004)LI	3	-1.0083	9764.6	9500.2
Sorbs1	0.984558	8.85E-34	137.93	SAT(0.015)VS(0.985)PQQPQAQQF	3	0.30269	51208.9	53605.1
Wdr44	0.957991	5.51E-08	58.024	DS(0.04)LPS(0.958)LDLAS(0.002)A	3	-0.57157	6935.2	6704.3
RGD13071	0.520183	4.13E-26	63.295	LFLGDQTVNLPT(0.015)S(0.015)GP	3	-0.81276	4186.7	4680.3
RGD13115	0.999576	1.72E-53	97.469	KPAS(1)PPLPSSQQERPSLTPETGR	4	0.07192	15038.5	14065.7
Fam21c	0.702335	2.22E-15	55.314	EGLLPTSDQEAGGPS(0.003)DIFS(0.	4	0.54587	25241.9	25897.1
Sntb2	0.999916	3.51E-29	139.66	GPAGEASAS(1)PPVR	2	-0.3308	245835.1	254944.9
Efcc1	0.999445	3.95E-11	68.088	SEGPQLLT(0.999)PPQTSPR	3	0.42	10071.1	9624.0
Cic	0.94244	1.42E-137	160.56	S(0.044)MS(0.942)ET(0.013)GTAA	4	-0.26114	80013.3	65051.4
Dtx3l	0.952951	7.33E-05	52.391	IGMPT(0.009)LLS(0.953)S(0.038)G	3	0.15995	4005.6	3813.8
Fbxo42	0.999986	0.00255602	101.66	EGSLS(1)PAR	2	-0.9427	7873.6	7804.1
Phrf1	1	0.00204756	50.354	EKHPHS(1)PEK	4	0.62133	9240.0	8737.4
Rbmxrtl	0.996305	1.41E-05	125.3	RS(0.004)T(0.996)PSGPVR	2	-0.19942	53285.3	51824.8
Ppap2b	1	1.81E-09	98.58	NGGS(1)PALNNNPR	2	0.083148	12721.1	12502.6
Rltpr	0.5	7.31E-33	133.52	GPRPDLET(0.5)S(0.5)PGAAAR	3	-0.34583	22115.9	22741.2
Akap11	0.726923	0.000355034	46.156	KS(0.26)FS(0.727)EDVFQS(0.013)\	3	-1.865	27482.9	27324.1
Zzef1	0.741752	1.03E-106	146.19	LLPSSGPSAAEVs(0.742)T(0.026)AE	3	-0.080544	19489.6	20482.7
Zc3h18	1	1.19E-15	91.355	DRQS(1)PPAKK	4	-0.36301	79872.6	80153.8
Brd9	1	1.34E-14	69.071	EKEHCDS(1)EGEADAFDPGKK	5	0.094745	18909.9	18730.9
Pikfyve	0.942674	2.46E-12	93.106	GT(0.002)AGKS(0.943)PDLs(0.054	4	0.2779	25065.4	24092.6
Hdac4	0.521419	5.44E-12	50.611	T(0.022)QHS(0.171)S(0.521)LDQSI	4	-0.13986	9754.0	9470.0
Tbcb	0.880642	0.00499873	73.499	S(0.881)LT(0.119)IAEFK	2	-0.87724	8857.3	7890.5
Akap13	0.613673	0.000273402	60.161	RT(0.005)ES(0.382)DS(0.614)GLKK	4	0.73953	12745.0	12632.1
Atf7	1	0.0030617	46.069	KAS(1)DDDEKK	4	0.23602	18789.5	16904.6
Rcsd1	0.526931	6.70E-20	65.766	RNT(0.527)CS(0.158)S(0.158)T(0.1	4	-0.085351	6668.9	6435.6
Eif4b	0.935833	1.65E-138	204.51	T(0.004)GS(0.021)ES(0.936)S(0.03	3	0.11476	18317.2	18355.8
Prpf4b	0.998577	0.00784103	68.132	KS(0.999)KS(0.935)PT(0.067)LR	3	0.42059	52293.0	55516.0

5839.8	5156.7	4621.1	6353.4	0.0	0.8	151
136220.9	126880.4	133644.6	132470.0	0.0	0.2	607
30964.0	28270.1	29803.4	32345.0	0.0	0.6	99
22494.8	23591.9	22897.8	21454.0	0.0	0.5	1033
80387.9	78853.9	77703.2	78980.0	0.0	0.2	324
17285.5	17571.9	16787.3	17541.0	0.0	0.5	4128;4070
17377.1	17249.6	18185.1	16333.0	0.0	0.7	616
8751.6	8824.8	9456.3	9058.3	0.0	0.6	572
52616.7	49300.2	53120.2	51209.0	0.0	0.4	953;1160;767
6326.6	6192.4	7285.7	6006.5	0.0	0.7	305;305
4636.9	4368.6	4182.9	4626.8	0.0	0.6	4290
13985.1	13359.0	14067.6	14624.0	0.0	0.5	1139
28564.3	25872.2	25090.7	26820.0	0.0	0.6	780;746
244622.8	240154.2	238093.9	249200.0	0.0	0.3	92
8912.1	9309.6	10065.3	8543.8	0.0	0.7	312
81798.6	75881.8	71802.2	73724.0	0.0	0.8	1207
3597.3	3702.2	3751.6	3688.5	0.0	0.5	526
7961.3	7092.3	7577.8	8401.0	0.0	0.6	429
8624.1	8548.8	8159.7	9254.1	0.0	0.6	982
50968.7	52006.1	53223.8	47102.0	0.0	0.6	163
13599.7	11914.8	13015.0	12962.0	0.0	0.6	19
19765.1	20730.9	21258.5	21083.0	0.0	0.6	1080
24619.8	26410.0	26529.1	24584.0	0.0	0.6	86
20012.1	18642.1	20065.9	19839.0	0.0	0.4	1508
82251.0	78086.1	75555.3	82834.0	0.0	0.4	861
17384.5	18606.9	16998.9	18102.0	0.0	0.6	103
27344.3	23216.8	25957.4	25498.0	0.0	0.7	1728
10143.5	9982.6	8802.6	9879.8	0.0	0.6	182
8536.4	7958.8	7909.1	8811.7	0.0	0.6	31
11597.1	11430.8	12340.7	12319.0	0.0	0.6	2448;1119
17774.2	17218.8	17340.9	17632.0	0.0	0.5	82
6955.2	6651.8	6279.6	6649.7	0.0	0.5	213
19239.1	18236.2	17955.4	18387.0	0.0	0.2	424
53577.0	52710.1	52869.0	51958.0	0.0	0.3	240

Prpf4b	0.934768	0.00784103	68.132	KS(0.999)KS(0.935)PT(0.067)LR	3	0.42059	52293.0	55516.0
Sphkap	0.999874	5.15E-70	115.69	ANS(1)LDGFAQNC PQDSINVQPVSF	3	-0.65812	58244.5	58705.8
Arhgap12	0.986379	6.43E-15	82.349	LCLPENES(0.986)PPT(0.011)S(0.00	3	-0.30629	36164.4	36517.4
Sh3bp2	0.542827	0.00669167	86.67	AHS(0.215)FT(0.543)S(0.242)K	2	0.1574	14197.7	14637.2
Prx	0.99993	4.96E-17	99.044	MPS(1)FGISVAGPEVK	2	1.931	21705.6	20728.4
Slc6a15	0.782893	1.77E-07	82.417	IPS(0.124)EMS(0.783)S(0.093)PNF	2	-1.1903	63738.0	62263.1
Sphkap	0.996509	2.54E-30	85.737	ETVTWTES(0.003)GPLGCQS(0.997	3	-0.74739	10080.2	7862.4
Sos1	0.758427	0.000230828	41.911	IPES(0.004)ET(0.033)ES(0.073)T(0	3	-0.44347	25658.1	24436.0
Stub1	0.91837	3.62E-05	47.942	S(0.918)PLT(0.082)QEQLIPNLAMK	3	1.7013	3622.3	3193.8
Gtf3c3	0.591431	3.00E-63	112.39	GKS(0.591)S(0.398)PKENPGDAEVF	6	-0.098606	14592.4	14592.3
Tp53bp1	0.765228	1.61E-46	106.12	TEEVGENTQVEDT(0.01)EPS(0.208)	3	0.12058	3195.9	3678.7
Fhod1	0.99974	0.000314673	45.384	SLEPEPKPVS(1)PR	3	-2.0188	24900.8	28823.6
Fxr2	0.986468	1.44E-151	203.33	T(0.015)DGS(0.986)IS(0.999)GDRC	3	0.83013	105615.3	98701.5
Stx12	1	0.000763516	56.569	AGS(1)RLS(1)AEDR	2	0.10311	13254.2	15546.6
Ifitm3	0.785177	4.48E-33	93.876	IKEEYEVSELGAPHGS(0.215)AS(0.7	4	-1.5905	14742.7	13696.1
Exoc4	1	3.01E-48	115.5	S(1)GELQGGPDDNLIIEGGGTK	3	-0.99836	52332.4	48993.7
Acbd4	0.947409	2.62E-42	87.772	DVQAAPEPS(0.003)HPPKEPAPPS((	4	0.53477	20871.9	21454.6
Frmd4a	0.686963	2.74E-84	131.97	RFPSTGSCTEAGVS(0.237)S(0.687)!	3	-0.56912	45815.6	46207.5
Larp1	0.706007	8.85E-13	65.16	PATGIS(0.002)QPPT(0.232)T(0.70	3	0.44006	14962.2	15260.3
Rusc2	1	0.0417103	58.426	MLS(1)CPVR	2	-0.49225	19150.9	18840.6
Th	1	0.00106854	79.86	RQS(1)LIEDAR	2	-0.6691	35027.8	37336.8
Kmt2a	0.809413	0.00909911	54.259	T(0.001)PS(0.009)YS(0.809)PT(0.1	2	-0.56013	5816.6	5505.5
Pcm1	0.980623	0.000688903	71.806	QAES(0.014)LS(0.981)LT(0.005)R	2	0.82313	13540.5	15605.8
Map1a	0.999586	3.87E-05	55.097	DSEEKDKS(1)LELR	4	-0.73533	22090.8	20692.2
Srsf3	1	0.0180969	40.861	ERS(1)LS(1)RER	3	0.61712	62278.1	61936.2
Srsf3	1	0.0180969	40.861	ERS(1)LS(1)RER	3	0.61712	62278.1	61936.2
Hectd4	0.652869	2.66E-17	69.747	S(0.155)S(0.155)S(0.653)FT(0.038	3	-1.4193	2222.3	3094.0
Add2	0.60499	8.15E-63	110.03	DKTESVTSGPLS(0.002)PEGS(0.19)I	6	1.3525	16027.2	16273.8
Bag6	0.99989	1.27E-57	103.18	TSPEPQREDAS(1)PAPGTTAEEAMS	3	0.36613	24990.2	25387.0
Bcas1	0.815618	0.000154733	60.657	T(0.003)LVS(0.816)PNKT(0.171)ET	3	-0.24459	35001.6	36298.0
Fry	0.671915	1.32E-06	52.019	LLLPGS(0.212)S(0.672)PS(0.083)S(	3	-2.0201	11817.8	11087.6
Nucb1	0.984834	4.56E-70	164.94	S(0.015)GKLS(0.985)QELDFVSHNV	3	0.11123	59963.2	58632.3
Pmp2	0.95065	4.37E-14	78.078	LGQEFDET(0.951)T(0.049)ADNRK	3	0.51352	18431.7	19343.0
Dpf3	0.979571	4.68E-05	63.185	S(0.009)GRGS(0.98)PT(0.011)ADK	4	1.376	35165.0	36633.7

53577.0	52710.1	52869.0	51958.0	0.0	0.3	242
56730.5	57194.6	58120.3	54225.0	0.0	0.4	1284
37493.5	35792.7	35481.1	36275.0	0.0	0.1	397
13352.7	13532.8	13894.5	13755.0	0.0	0.4	227
21427.0	19936.8	21620.8	20782.0	0.0	0.4	425;425
55843.7	60298.7	61395.7	55819.0	0.0	0.7	686
10491.7	8600.9	10102.6	9053.6	0.0	0.8	775
25707.9	23330.1	26244.8	24422.0	0.0	0.6	1078
2973.7	3165.5	3225.5	3165.9	0.0	0.7	274
12717.1	13298.5	13928.7	13678.0	0.0	0.6	42
3927.5	3178.9	3516.9	3849.4	0.0	0.8	554
24367.5	24814.0	27314.5	24108.0	0.0	0.7	523
99297.0	100133.7	97710.4	98557.0	0.0	0.4	603
15129.6	13665.9	14294.2	14927.0	0.0	0.7	139
16347.6	13682.4	15544.5	14496.0	0.0	0.7	40
52502.8	48997.7	50388.7	50792.0	0.0	0.4	469
19706.5	20379.0	21283.1	18899.0	0.0	0.6	164
45368.7	44935.6	44755.9	44441.0	0.0	0.0	685
15244.6	14573.4	14495.1	15320.0	0.0	0.3	940
19246.6	17727.0	19938.8	18215.0	0.0	0.5	521
36135.0	36405.4	32060.4	37462.0	0.0	0.7	40
5697.4	5305.3	6064.7	5246.2	0.0	0.7	2112
15985.6	16007.7	13401.9	14653.0	0.0	0.8	372
20394.3	19516.6	20749.9	21414.0	0.0	0.5	1691
59261.2	58962.2	61156.4	59011.0	0.0	0.3	138
59261.2	58962.2	61156.4	59011.0	0.0	0.3	140
2965.9	2823.9	2418.7	2843.4	0.0	0.8	1643
17393.1	15322.4	16342.8	16852.0	0.0	0.6	698
27505.0	25659.9	24106.5	26274.0	0.0	0.6	987
32441.8	31232.3	34127.1	35929.0	0.0	0.7	296
10558.4	11326.3	10438.3	10908.0	0.0	0.6	1379
57084.0	56404.8	59732.9	55390.0	0.0	0.4	85
17577.2	17180.3	17306.7	19557.0	0.0	0.7	74
31533.6	33152.8	33475.3	34263.0	0.0	0.6	348

Senp3	0.999341	2.33E-22	87.352	GS(0.999)PPVPS(0.001)GPPMEED	3	-0.66795	30749.7	30209.0
LOC68698	0.970948	1.07E-25	70.028	TQLWAS(0.007)EPGT(0.971)PPAP	4	-0.43611	39862.9	41245.1
Chordc1	0.996347	2.65E-15	90.379	RPS(0.996)PDEPMT(0.004)NLELK	3	-0.17817	16303.9	17012.1
Ttc28	1	6.31E-22	81.878	RREPES(1)PPAPIPLFGAK	3	0.8985	15481.0	15050.8
Arhgef16	0.986578	3.67E-58	105.55	GLNT(0.002)S(0.011)HES(0.987)DI	3	0.77541	62026.5	59301.4
Fermt2	0.766337	0.00114729	40.278	GS(0.048)IY(0.009)S(0.766)S(0.17	3	1.0344	7247.1	7106.6
Dst	0.795893	5.30E-10	84.94	KES(0.796)LGT(0.164)S(0.037)VT((	3	0.58154	15481.0	16135.6
Rap1gap	0.816238	2.24E-21	79.346	SENS(0.002)S(0.008)T(0.037)QS(0	3	0.42933	12183.2	12907.4
Phrf1	1	1.98E-12	99.238	EVS(1)PAPAPQGEP	2	1.0995	29537.9	33140.0
Sntb1	0.999071	1.32E-58	117.61	LVHS(0.001)GPGKGS(0.999)PQAA	4	-1.4501	74336.1	79534.0
Rps6kc1	0.999965	0.000280582	78.884	SSRES(1)LDIK	3	0.11214	72567.4	77364.3
Dennd4b	0.999955	5.79E-05	97.452	S(0.005)APS(0.995)S(1)PAPR	2	0.25081	30017.4	30490.9
Aff4	0.884971	2.67E-07	42.733	LS(0.885)PGNS(0.056)GS(0.056)Y(	3	1.3735	10091.3	9253.1
Akap12	0.969056	1.74E-08	95.264	S(0.031)KEDDLET(0.969)AEK	4	-0.48574	119673.5	101068.6
Ythdc1	0.753202	0.00978621	42.976	IRLS(0.753)S(0.197)S(0.038)S(0.01	3	0.43532	1974.2	1752.8
Amer2	0.778392	8.58E-16	66.152	AAGPGSLVLPGS(0.778)LT(0.205)A	3	-0.31712	12921.5	12077.0
Mvd	0.535068	6.59E-31	127.3	S(0.456)T(0.535)GDGDALPLS(0.00	3	0.52848	87578.5	88983.9
Polr2a	0.703579	3.76E-21	71.651	YS(0.009)PT(0.134)S(0.59)PT(0.24	3	-0.39967	19456.2	17052.6
Rbm15	0.802852	2.97E-06	76.645	ISHLS(0.004)GS(0.193)GS(0.803)G	2	0.12237	16984.9	19616.1
Pam	0.966918	3.52E-08	60.272	GKGS(0.967)GGLNLGNFFAS(0.033	3	-0.35942	5218.2	4504.0
Srp68	0.776913	0.00170299	47.491	LRS(0.223)GGT(0.777)EGLLAEK	3	-2.5061	7150.6	6621.2
Ahnak	0.979017	2.21E-53	94.15	GDVDVS(0.001)IPNVEGDLQGPS(0	4	0.5154	57781.7	54009.9
Epb41l2	0.999889	6.09E-20	72.566	RVS(1)RS(1)LDGAPIGVVDQSLMK	4	0.23344	42211.3	46831.7
Kcna2	0.739969	0.00498886	93.598	S(0.034)AS(0.74)T(0.215)IS(0.012)	2	1.512	27459.1	24494.1
Phrf1	0.598129	0.000253766	67.999	GIGS(0.038)S(0.598)FES(0.364)FR	2	-1.5325	14882.3	16360.5
Cic	0.656142	2.69E-09	65.207	VCPGLAGS(0.064)T(0.016)S(0.057	3	-0.0114	37267.7	35968.9
Plcb2	1	0.0176484	42.835	LRPGKGS(1)R	3	0.91118	15707.6	15587.2
Zfc3h1	0.953583	0.00027396	81.877	LDNS(0.954)PVS(0.032)S(0.014)PF	2	0.047318	10474.7	10664.0
Fam117b	0.804325	1.87E-05	52.569	Y(0.011)AT(0.182)S(0.804)PKPNN	3	-0.54976	25648.6	24935.1
LOC10369	0.630486	1.34E-11	49.114	VKS(0.63)PEPT(0.335)LT(0.035)MI	4	-1.3825	3744.9	5496.3
Map1b	0.988026	4.18E-06	125.72	S(0.009)DIS(0.988)PLT(0.003)PR	3	-0.10969	49770.5	49008.0
Inf2	0.941045	3.39E-54	84.855	GQGTHLPRPGEDEDEEDT(0.048)AI	4	1.8652	10768.6	10457.5
LOC10091	0.969359	6.43E-10	64.476	T(0.969)AT(0.997)PPGY(0.003)KPC	3	-1.0472	107161.1	100672.6
Mkl1	0.604874	1.39E-05	52.071	RAQQPAPAS(0.605)S(0.395)PVKR	4	-0.56038	4134.7	4941.1

32474.8	28478.0	32062.5	30686.0	0.0	0.6	206
38820.0	38028.9	39176.5	39890.0	0.0	0.3	352
15455.4	15736.0	15935.6	15948.0	0.0	0.4	110
14776.2	14037.7	15470.8	14730.0	0.0	0.5	24
59188.8	59272.4	58406.7	58577.0	0.0	0.2	230
7265.0	6888.1	7214.8	7005.7	0.0	0.2	86
15619.4	15979.1	15278.4	14864.0	0.0	0.4	2619;2682
12274.3	11793.8	12698.7	11991.0	0.0	0.5	632;640
30858.6	28921.2	28999.8	33413.0	0.0	0.7	993
74967.8	74620.2	77528.0	71302.0	0.0	0.5	390
69261.3	74449.7	70782.7	68801.0	0.0	0.6	245
28979.6	27998.4	29733.9	29650.0	0.0	0.4	697
11542.8	10085.8	9817.2	10258.0	0.0	0.7	1029
123966.9	109734.2	108862.8	118010.0	0.0	0.7	311
1781.6	2112.7	1583.6	1682.8	0.0	0.8	118
12737.4	11775.1	12283.0	12792.0	0.0	0.5	222
84170.6	85719.9	85843.1	83050.0	0.0	0.3	97
18737.7	18405.6	17461.6	18083.0	0.0	0.6	1906
18211.8	17964.5	17914.7	17648.0	0.0	0.6	211
4982.0	4586.1	4656.7	5116.7	0.0	0.7	816
6528.9	6613.8	6199.5	7011.4	0.0	0.6	269
60996.5	53833.1	57115.8	57793.0	0.0	0.6	2657
47073.1	41574.1	47051.3	44306.0	0.0	0.7	543;543;543
23488.1	24041.8	26577.2	23060.0	0.0	0.7	451
15221.2	15522.6	14763.3	15093.0	0.0	0.5	564
39475.9	35697.0	36706.8	37678.0	0.0	0.5	20
17042.8	14940.8	16690.1	15579.0	0.0	0.6	952
11416.2	9826.2	10778.3	11191.0	0.0	0.6	954
25411.9	23094.8	25741.5	25387.0	0.0	0.5	213
4249.5	3486.8	5671.9	4017.5	0.0	0.9	127
54253.1	49232.0	51579.2	48654.0	0.0	0.6	1778;1652
9853.3	10033.3	10114.8	10207.0	0.0	0.4	1269
105571.0	97425.6	105665.4	103010.0	0.0	0.5	645
4019.9	4054.1	4675.1	4061.3	0.0	0.8	570



Caprin2	0.99999	4.95E-58	105.55	VGS(1)PQEEQNVQETPKPWVQPC	4	0.12994	56746.5	55767.2
Plekhg3	0.755957	0.000139957	41.615	S(0.207)PLS(0.756)PFDT(0.028)ET	3	0.43048	3753.7	4234.9
Supt16h	0.999994	0.010972	52.495	YEEEEEQS(1)R	2	-0.19696	12784.3	13499.7
Nefh	1	1.20E-36	106.93	S(1)PAEVKS(1)PAVAKS(1)PAEVK	5	0.70787	1124649.0	1152747.8
Usp54	0.958885	4.24E-33	94.632	KADAPQAS(0.021)GY(0.959)HS(0.1	3	-0.66225	37689.9	40354.4
Magi1	0.775641	4.98E-86	107.39	S(0.004)LHT(0.045)AS(0.169)PS(0.	4	1.0229	28594.5	28038.2
Cnksr2	0.99999	2.93E-16	140.01	LGDS(1)LQDLYR	2	0.16254	45289.6	46462.0
RGD13099	0.809929	3.50E-13	62.589	LPS(0.81)LS(0.19)VQPVSADWVM	3	-0.9868	10241.5	10082.7
Daam2	0.5	3.41E-34	148.24	ELGS(0.5)T(0.5)EDIYLASR	2	0.15723	106006.5	100829.5
Mapkap1	0.934369	0.0245653	66.962	T(0.056)S(0.01)FS(0.934)FQK	2	1.3242	12230.9	12033.2
Map1a	0.653176	3.56E-09	41.354	FPTSTYDLS(0.003)GPEGPGPFAS((	4	0.78135	5895.4	5265.4
Kif21a	0.946988	4.60E-12	61.959	MVS(0.052)ES(0.947)PQMNEFET((	4	-0.19233	40814.7	42594.3
Synpo2l	0.563976	1.48E-11	60.382	RFS(0.436)T(0.564)PAPQPTAEPLA	3	0.0099768	7302.2	8305.7
Wdr60	0.794692	0.000937945	43.914	GS(0.037)S(0.168)LS(0.795)DREIEI	3	-0.17813	7797.0	7742.5
Cpne3	0.537261	4.64E-15	109.83	S(0.463)S(0.537)PVEFECINEK	2	0.073172	26613.4	26668.2
Arid1a	0.609085	8.40E-22	80.382	GPS(0.391)PS(0.609)PVGSPASVAC	3	0.51911	8617.7	8491.5
Nipbl	0.786545	0.000125141	49.298	AAMY(0.002)DIIS(0.186)S(0.787)P	3	-0.21163	14188.1	13904.5
LOC10091	0.850211	8.78E-17	93.753	DANIKS(0.85)PT(0.15)AQAAPR	3	0.26859	39934.5	34653.7
Syde1	0.957516	0.00035673	75.618	GGPES(0.958)PPS(0.042)NR	2	-0.57413	21403.8	19089.6
Flna	1	1.51E-14	121.42	CSGPGLS(1)PGMVR	2	-0.57951	45781.0	45251.0
LOC10036	0.999371	6.66E-27	81.594	GPIIPAVAS(0.999)LPGS(0.001)PAP	4	1.1005	9389.5	9238.5
Arglu1	0.5	0.000184899	71.085	ERAS(0.5)S(0.5)PPDR	3	-0.0099051	13262.6	16200.3
Ahctf1	0.601437	1.51E-05	93.374	S(0.003)AS(0.395)VEDT(0.601)QK	3	0.42844	26382.1	25697.4
Dbnl	0.997383	1.34E-32	97.352	EPT(0.002)S(0.997)PVS(0.001)R	2	0.020785	50052.0	47232.1
Dtna	0.801885	3.76E-05	112.59	S(0.802)S(0.192)PS(0.005)HT(0.00	3	0.085347	47639.2	47914.3
Kmt2a	0.528602	8.05E-18	58.325	S(0.004)PGCRPLPS(0.021)AGS(0.5	4	-0.55098	5302.5	5283.9
Parp8	0.932972	0.0124309	75.109	S(0.002)LS(0.065)S(0.933)DPR	2	-0.068576	10390.0	10340.9
Srrm2	0.999995	3.86E-07	92.039	SAVRPS(1)PS(1)PER	3	0.25204	289809.2	302112.3
Hmg1l1	0.98562	1.06E-07	60.062	KHPDAS(0.986)VNFS(0.014)EFSK	3	0.82151	20947.0	23316.0
Zc3h14	0.565229	5.05E-11	52.898	SVTTEPS(0.001)S(0.004)LKS(0.104	4	-1.0051	8607.1	8960.8
Sarm1	0.998757	8.24E-39	82.988	EMLHS(0.999)PLPCT(0.001)GGK	2	-0.68484	58598.7	61211.1
Itgb4	0.978649	2.42E-66	126.97	SPASSQRPS(0.02)VS(0.002)DDT(0.	4	0.21992	16982.6	17230.3
Akap12	0.981856	2.63E-28	151.38	KAS(0.982)S(0.616)S(0.402)DDEG(	3	-0.27607	46692.2	46271.2
Mtcl1	0.997873	4.04E-20	73.831	THVLTEQS(0.002)GVHVLHS(0.998	3	-1.1458	24483.3	26056.1



54693.9	52601.2	54578.8	56135.0	0.0	0.3	443
4346.1	4121.2	3974.0	3952.4	0.0	0.6	939
12656.5	12601.1	12784.2	12649.0	0.0	0.3	1013
1198893.3	1166177.3	1081147.0	1148100.0	0.0	0.5	544;544
36044.5	37443.7	36612.8	37379.0	0.0	0.5	422
30473.2	27791.6	27618.0	29671.0	0.0	0.5	760
43814.3	45307.3	43563.3	43544.0	0.0	0.3	876
9595.9	10700.1	9037.5	9487.2	0.0	0.7	1881
99984.8	101686.9	95662.9	102340.0	0.0	0.4	629
12436.1	11802.6	11232.5	12813.0	0.0	0.6	476
5601.3	5541.9	5735.0	5096.2	0.0	0.6	1034
42676.2	42345.1	40973.9	39841.0	0.0	0.4	257;257;257
8224.1	7866.9	8235.1	7177.2	0.0	0.7	665
7915.9	7007.4	8180.8	7723.4	0.0	0.6	256
27119.6	25608.2	27593.5	25336.0	0.0	0.4	243
10673.0	8395.3	9446.9	9296.1	0.0	0.8	695
14831.5	13163.2	14667.1	14099.0	0.0	0.6	350
34545.5	33043.9	37045.6	36516.0	0.0	0.7	156
22506.5	19918.1	17870.9	23752.0	0.0	0.8	645
45006.7	43892.8	42862.2	46135.0	0.0	0.4	1459
8777.2	8204.8	9849.2	8717.0	0.0	0.7	380
14215.1	13913.4	14584.9	14169.0	0.0	0.7	74
24083.3	24712.8	26346.3	23343.0	0.0	0.6	1898
48566.8	44696.9	48856.3	48927.0	0.0	0.5	311
48650.9	44137.0	44139.3	52598.0	0.0	0.7	587
5711.3	5603.4	5229.0	5089.0	0.0	0.6	2128
10826.3	10021.6	9910.3	10897.0	0.0	0.5	345
281235.8	277871.8	293321.4	281810.0	0.0	0.4	350
20912.8	19094.2	20043.5	24534.0	0.0	0.8	35
8980.6	8381.5	8796.0	8758.8	0.0	0.3	93
57869.7	57553.2	60148.6	55881.0	0.0	0.4	548
17179.1	16617.1	16513.8	17077.0	0.0	0.1	1371
48882.0	43375.8	48934.3	46269.0	0.0	0.6	683
26929.1	23531.4	27110.4	25043.0	0.0	0.7	1167

Mapk8ip2	0.533125	1.81E-13	65.854	S(0.458)S(0.533)QELS(0.007)S(0.0	3	-1.0605	4087.4	4535.2
Fam189b	0.950602	1.04E-08	54.225	FSDSS(0.003)GS(0.046)LT(0.951)P	4	0.036615	24823.2	25426.5
Canx	1	1.97E-84	156.24	AEDEILNRS(1)PR	3	-0.70048	674138.2	718896.0
Acbd5	0.99974	3.62E-09	117.79	SSSGT(1)PHREK	4	0.65562	11423.4	10484.5
Psd3	0.998984	5.18E-40	119.38	SHSSPSLNPDAS(0.999)PVT(0.001),	3	-0.29497	104859.2	104247.5
Ndrgr1	0.947461	3.27E-43	150.37	T(0.001)AS(0.045)GS(0.947)S(0.06	3	0.13519	76353.0	80053.9
Fam98c	0.99857	2.54E-17	77.746	DPS(0.999)PVPS(0.001)FGEGTK	2	0.36764	98610.7	99368.4
Scn7a	1	0.00535994	61.78	LRQS(1)DKK	3	0.13546	68657.8	72610.3
Ddx23	0.623226	0.0020261	55.196	KRS(0.623)S(0.38)LS(0.997)PGR	3	0.96202	40378.2	42286.1
Srrm2	1	9.32E-06	103.08	RKET(1)PS(1)PR	3	0.1846	234182.6	244414.6
Sorbs1	0.999891	6.26E-06	50.957	SVLEGGDIPLQGLS(1)GLK	3	1.0459	1389.1	1281.0
Rlim	0.999994	7.22E-22	130.95	RLS(1)VESMESSQR	3	0.22236	10040.1	9475.5
Gigyf2	0.841875	2.17E-149	148.88	AGTDANEEVPQT(0.842)S(0.05)LS(	4	0.57057	19437.1	20739.4
Hip1r	1	9.74E-11	61.942	RPGHS(1)LEAEREQFDK	4	-0.014151	18576.0	19313.4
Tomm34	1	3.34E-09	98.676	VPS(1)AGDVER	2	0.035345	75317.7	77440.0
Nefh	1	9.91E-11	129.34	S(1)LAEAKS(1)PEKAK	3	0.60578	1357865.6	1394836.9
Clip1	0.998748	2.20E-46	138.97	TASESISNLS(0.001)EAGS(0.999)VK	3	-0.14078	113941.4	118642.3
Celf1	0.762049	2.48E-21	69.361	LDFLPEMMVDHCS(0.762)LNS(0.18	3	-0.85367	14134.4	14408.0
Arl3	0.682002	5.81E-09	53.998	QLAS(0.682)EDIS(0.223)HIT(0.083	3	1.2391	6446.2	6176.6
Fxr1	0.972997	6.89E-79	127.9	RGPNYTSGYGT(0.001)NS(0.012)EL	3	0.27949	15851.9	16381.3
Map7d1	0.499986	7.21E-11	51.264	TAEKEPAAPAS(0.5)PAPS(0.5)PVP	6	1.0904	4162.9	4351.6
Map7d1	0.499987	4.46E-72	106.93	TAEKEPAAPAS(0.5)PAPS(0.5)PVP	6	1.0904	4162.9	4351.6
Spast	0.789693	0.000232715	57.288	S(0.15)VS(0.054)PQT(0.79)LEAY(0	2	2.49	14500.6	13533.7
Eif3c	0.527736	0.000498917	59.663	KKPDS(0.085)S(0.387)GES(0.528)F	3	-0.026848	36541.3	29296.4
Kcnh7	0.96088	1.43E-06	46.35	HPS(0.961)LPDS(0.015)S(0.015)LS	4	-2.01	2075.9	2041.6
Scaf11	0.997538	0.00127859	110.54	S(0.001)S(0.003)QS(0.998)PS(0.99	2	-0.22782	42655.0	44830.9
Ank3	0.90456	1.12E-12	102.87	AAMASTLS(0.095)S(0.905)PLK	2	1.3887	28847.3	32411.6
Matr3	1	2.25E-107	175.85	RDS(1)FDDR	3	-0.13194	254947.2	255394.7
Fxr2	0.732369	1.02E-07	86.944	T(0.01)KPS(0.101)EDS(0.732)LS(0.	3	0.58384	58361.4	51361.9
Sar1a	0.985439	5.75E-05	66.674	IDRT(0.985)DAIS(0.015)EEK	3	0.58054	17069.6	17365.3
Ccdc85b	0.525436	5.22E-07	43.233	DLGDGSSS(0.001)T(0.002)GS(0.00	3	-0.75358	14361.1	14767.8
Limch1	0.525893	1.84E-16	92.439	S(0.265)PEPEAT(0.526)LT(0.209)F	2	-0.22666	19035.2	16315.5
Vamp1	0.999182	1.92E-12	71.853	ADALQAGAS(0.999)VFES(0.001)SA	3	-1.291	4330.5	3412.4
RGD15620	1	5.38E-22	87.411	GVPVQWGHGNS(1)AEQK	3	0.77527	11082.7	12195.5

3890.0	4167.9	3488.5	4568.3	0.0	0.8	249
24520.8	22710.9	25882.6	24457.0	0.0	0.6	471
679348.0	685241.9	663029.4	676500.0	0.0	0.4	582
9654.1	10321.3	11081.8	9433.8	0.0	0.7	312
98454.9	101678.1	96929.2	101890.0	0.0	0.4	1268
77992.5	75609.0	75828.8	77579.0	0.0	0.2	332
89027.5	92218.4	96856.5	91342.0	0.0	0.6	129
76531.8	67458.3	76872.9	68470.0	0.0	0.7	1607
38371.8	39538.1	40471.7	38249.0	0.0	0.5	105
222744.4	227339.7	229897.4	228020.0	0.0	0.4	2693
1537.9	1383.0	1245.2	1483.3	0.0	0.8	909;697;904;567
9528.4	9148.5	9927.4	9302.3	0.0	0.5	163
20025.9	18620.1	19012.2	21192.0	0.0	0.6	374
17873.2	18364.9	17241.5	18880.0	0.0	0.5	19
71336.3	73134.1	73755.7	72077.0	0.0	0.4	186;186
1351350.1	1399368.7	1285899.2	1324900.0	0.0	0.4	774;744
115524.3	110963.9	110743.6	118440.0	0.0	0.4	203
14005.4	13925.5	13588.9	14061.0	0.0	0.2	18
6774.5	6245.0	6806.1	5903.0	0.0	0.7	39
15469.2	15237.7	14852.0	16523.0	0.0	0.6	435
3971.8	3834.0	4053.5	4313.6	0.0	0.6	512
3971.8	3834.0	4053.5	4313.6	0.0	0.6	522
11916.5	13484.4	12476.4	13078.0	0.0	0.7	565
31309.0	28198.6	34122.9	32610.0	0.0	0.8	207
2504.3	1811.9	2421.5	2237.3	0.0	0.8	1169
43433.1	42329.7	43722.5	41883.0	0.0	0.3	818
29733.3	31539.1	29323.6	28057.0	0.0	0.7	1701
259123.2	244378.0	249645.9	257920.0	0.0	0.2	188
53020.2	54056.4	54826.8	50155.0	0.0	0.7	639
18199.0	16757.9	16683.7	17994.0	0.0	0.5	139
13986.2	14624.0	13537.6	13972.0	0.0	0.4	199
19361.6	17366.2	16452.8	19648.0	0.0	0.8	567;558
3810.4	3693.7	3630.1	3966.6	0.0	0.8	77
11835.6	10680.3	12206.1	11429.0	0.0	0.7	810

Caskin1	0.508833	2.41E-06	47.223	QVLPS(0.015)GVS(0.509)HFT(0.39	3	0.81778	13046.7	14323.5
Lmnb2	0.675557	4.63E-33	82.773	QRLETEDTPGSPSS(0.005)AS(0.207	3	-0.73835	13643.1	13442.7
Add1	0.78878	2.87E-39	83.236	SPGTPAGEGS(0.211)GS(0.789)PPK	4	0.15069	16182.3	16974.8
Mtdh	0.926476	4.65E-36	110.81	QGEDNS(0.926)IT(0.073)QDTEDE	5	-0.92639	36796.5	38997.5
Kif1a	0.975648	2.63E-16	140.63	AASVS(0.024)S(0.976)LHER	2	-0.11958	17205.6	17381.7
Map7d2	0.608231	2.40E-51	110.03	S(0.071)NS(0.295)LDDS(0.608)T(0	3	-0.86673	40182.6	33893.6
Igf2bp1	1	8.10E-07	70.197	QGS(1)PVAAGAPAK	2	1.9867	13051.5	13906.7
Tle4	0.931539	0.0254511	70.256	S(0.035)T(0.014)T(0.932)PVS(0.02	2	0.51684	38548.6	39815.8
Asb3	1	0.000409384	92.409	S(1)VDVADNR	2	1.0327	33864.9	33052.2
Nefh	0.636013	0.00161648	55.724	ET(0.636)KS(0.364)PVKEEAK	2	0.17437	28877.2	28769.9
Lats1	0.943264	1.27E-06	94.538	QIT(0.006)T(0.041)S(0.943)PIT(0.C	2	0.17765	20927.9	22827.9
Rgs14	0.942603	4.66E-17	60.158	EPGS(0.011)S(0.044)HLGS(0.943)F	3	-0.55966	3305.7	3216.5
Fam65a	0.996449	8.15E-16	89.451	FSTYS(0.003)QS(0.996)PPDTPSLR	3	-0.74985	23219.1	20448.7
RGD13115	0.917542	1.73E-58	107.24	KPASPLPSSQQRPS(0.074)LT(0.9	4	0.25516	20251.7	19650.1
Fli1	0.575885	6.05E-06	52.52	ADMT(0.002)AS(0.034)GS(0.576)F	3	0.019001	10088.6	10254.9
Cryab	1	0.000986074	71.451	HFS(1)PEELK	3	1.0664	8783.2	7916.7
Nrbp2	0.99941	1.39E-06	61.276	AKT(0.998)PT(0.999)PEPFDS(0.00:	4	0.35114	112720.1	117315.0
Prpf4b	1	0.0133164	44.639	AKS(1)RS(1)LER	3	1.0868	20843.3	23197.6
Prpf4b	1	0.0133164	44.639	AKS(1)RS(1)LER	3	1.0868	20843.3	23197.6
Nefh	1	3.89E-41	111.84	S(1)PAEAKS(1)PAEVKS(1)PAVAK	4	0.56778	2127978.7	2118800.7
Mib2	1	3.19E-17	131.08	RVS(1)ADGQPFQR	2	-0.28547	32859.5	34750.3
Ahctf1	0.976069	3.36E-07	63.682	TTS(0.002)LAS(0.976)PS(0.02)QS(C	3	-0.73714	10134.3	9675.2
Zfyve28	0.927787	2.68E-09	52.866	AGDEMS(0.002)S(0.006)LLS(0.928	3	-1.8456	30061.5	30429.5
Rtn4	0.715466	2.65E-05	43.835	ET(0.059)KLS(0.267)T(0.715)EPS(C	3	1.8981	20394.8	20516.7
Plekhg5	0.965702	3.14E-15	78.95	S(0.966)LS(0.034)ELCLITMAPGVR	3	-0.24156	2411.6	2987.0
LOC10091	0.635208	3.63E-25	70.67	AQS(0.635)LPS(0.36)VPLS(0.004)C	3	0.86928	11900.0	10481.5
Sf3b1	0.989143	1.01E-06	56.29	GGDS(0.012)IGET(0.987)PT(0.989	3	0.11855	24049.2	25353.0
Prph	0.998936	1.05E-69	137.96	RAS(0.999)QPGLS(0.001)ATEQYAL	4	0.81498	17992.8	19417.6
Herc1	0.999133	6.70E-53	132.39	RAQT(0.999)PPIS(0.001)SLPASPSC	3	0.76947	35983.1	37759.1
Mapt	0.690715	6.38E-29	123.34	S(0.052)GY(0.001)S(0.691)S(0.262	2	-0.16599	12350.2	10566.7
Abca1	0.909204	1.82E-05	73.233	SHPGS(0.909)S(0.091)QK	3	-1.6806	2621.7	3119.3
Sf3b1	0.999999	4.36E-12	94.692	TMIIS(1)PER	2	-0.35713	35223.4	36443.9
Arvcf	1	0.00153034	105.4	GSLGS(1)LDR	2	-0.34946	49167.0	47144.3
Tcof1	1	1.99E-10	63.46	AAS(1)GQGVAPLHAQK	3	-1.2938	10837.6	11049.2

14021.3	14212.6	12949.8	13288.0	0.0	0.6	704
12341.3	12744.1	11806.4	13981.0	0.0	0.7	453
16564.8	16271.7	16435.7	15885.0	0.0	0.3	366;366
41577.5	37432.7	37912.3	39361.0	0.0	0.6	456
15263.8	16359.7	15576.6	16784.0	0.0	0.6	419
39369.4	33823.8	37400.4	39648.0	0.0	0.8	671
13328.3	12492.2	13347.4	13533.0	0.0	0.5	181
40323.3	37626.3	39639.2	38730.0	0.0	0.3	293
30815.0	31458.8	33276.5	30780.0	0.0	0.6	35
29830.2	28502.2	26821.9	30171.0	0.0	0.6	510;510
20766.9	20379.0	21041.6	21641.0	0.0	0.6	613
3476.9	3502.4	3345.3	2925.1	0.0	0.7	203
23877.8	21427.2	22626.4	21964.0	0.0	0.7	347
22137.1	19827.9	18689.5	22119.0	0.0	0.7	1153
10913.6	10494.1	10012.6	10044.0	0.0	0.5	39
8819.1	7877.8	7397.5	9667.0	0.0	0.8	85
116887.0	109089.6	117679.1	112320.0	0.0	0.4	409
20691.3	20339.4	22134.8	20797.0	0.0	0.6	394
20691.3	20339.4	22134.8	20797.0	0.0	0.6	396
2259276.7	2125012.1	2103411.8	2130800.0	0.0	0.3	532;532
34271.9	29634.0	34837.8	35111.0	0.0	0.7	150
10661.3	9311.3	10307.2	10165.0	0.0	0.6	1214
30694.7	28860.7	29260.5	31009.0	0.0	0.4	361
21491.9	20207.4	20418.6	20371.0	0.0	0.3	686
2969.3	2756.3	2813.0	2610.1	0.0	0.8	928
12094.3	10509.9	12177.2	11012.0	0.0	0.7	398
24734.8	23514.9	23528.3	25425.0	0.0	0.5	328
18795.2	17349.7	18802.8	18788.0	0.0	0.5	316
40280.7	36049.0	36935.5	38474.0	0.0	0.6	2699
9812.6	10821.6	11511.4	9660.8	0.0	0.8	443;527
3024.1	3112.3	2686.0	2769.9	0.0	0.8	818
37302.9	36002.8	34250.0	36271.0	0.0	0.4	129
46947.5	45438.2	46352.4	48252.0	0.0	0.4	272
10827.4	10026.1	10609.7	11344.0	0.0	0.6	628

Ppig	1	0.000677395	102.95	RNS(1)EKDDK	4	0.24533	49560.6	49500.5
Map1a	0.814367	1.82E-54	99.753	HS(0.814)PGEIT(0.179)GPGGHFM	4	0.94505	31343.6	35565.3
Ppm1j	0.979007	0.00812028	53.237	S(0.021)KS(0.979)PDLPK	2	0.077248	28848.5	29861.3
Zfp691	0.5	4.87E-07	78.888	THLGEQDEKDS(0.5)S(0.5)	3	0.10566	10658.5	12539.9
Zfp691	0.5	4.87E-07	78.888	THLGEQDEKDS(0.5)S(0.5)	3	0.10566	10658.5	12539.9
Exoc1	0.841279	6.65E-25	70.67	RSQSSSLDMGNMS(0.841)AS(0.15)	3	-2.6116	5979.5	5945.3
Braf	0.938884	1.23E-27	106.6	AGFQTEDFS(0.001)LY(0.939)ACAS	3	-0.22373	18746.5	18291.1
Slc4a3	0.826401	4.67E-11	66.068	ALPS(0.002)VGLPS(0.172)DQS(0.8	3	-0.20829	4867.8	4604.7
Map1b	0.999959	1.44E-39	116.43	EECPRPMSISPPDFS(1)PK	4	0.037252	71804.1	73797.1
Wdr91	0.589627	1.73E-21	70.112	LGDSELALVCS(0.001)QRPAS(0.08)	3	1.3928	8471.5	8228.2
Usp6nl	0.999987	9.83E-06	98.368	RKS(1)VDEGSK	2	0.52996	72616.3	69184.6
Srsf4	0.990916	4.07E-09	111.83	S(0.037)HS(0.429)PS(0.543)RHDS(	3	-0.60234	59939.3	64469.0
Nkapl	1	1.97E-14	77.221	IGELGAPEVWGLS(1)PK	2	0.45394	28998.8	30330.8
Optn	0.793576	0.000743822	60.118	S(0.206)IPIHS(0.794)CPK	3	-0.79	5306.7	4991.0
Syt6	0.809099	2.53E-22	85.937	IS(0.029)HT(0.809)S(0.162)PDIPAF	3	0.38359	7634.5	5839.6
Bcas1	0.765131	4.49E-06	55.011	DAENS(0.048)PT(0.187)T(0.765)P/	3	0.082382	11422.1	16461.4
Add1	0.573853	5.87E-11	47.73	KY(0.001)S(0.001)DVEVPAS(0.155	4	1.6282	9336.9	8730.9
Map2	0.771218	3.80E-58	116.74	LSVEIPCPPVVS(0.002)EADS(0.227)	4	0.56652	36936.1	36686.3
Dus3l	0.983928	5.40E-85	101.84	HSSCHVQLDNVGGDGAGQGS(0.98	4	-0.66047	29626.2	30462.4
Trim46	1	3.46E-30	127.59	LQESFQGAPDVIS(1)PR	2	-0.025764	38888.5	39829.0
Ranbp2	0.983464	0.009384	101.9	YS(0.005)LS(0.983)PS(0.012)K	2	-0.48674	48037.6	45546.1
Ermp1	0.94017	0.00263827	46.069	GRT(0.057)ES(0.94)GGES(0.003)R	3	0.93381	1273.9	1007.2
Hist3h2ba	0.936532	3.58E-06	79.886	PEPSRS(0.063)T(0.937)PAPK	3	0.10962	29312.5	24104.7
Rbmxrtl	0.71923	1.49E-14	78.95	DY(0.001)S(0.205)HS(0.719)S(0.03	4	0.66237	8186.1	7346.8
Kdm1b	0.92759	3.14E-20	74.543	AAVTATAT(0.003)GS(0.068)AS(0.5	3	0.27134	33680.1	28898.2
Atl1	0.968599	2.37E-71	164.59	S(0.969)S(0.031)DWS(0.001)SEEEI	2	-0.14758	51990.1	53054.5
Caskin2	0.68425	2.49E-10	59.547	LS(0.233)S(0.684)VS(0.082)GSTEP	3	-0.58237	35675.4	32507.1
Abca2	0.991937	5.65E-15	55.153	ALVADEPEDLDT(0.008)EDEGLIS(0.	3	1.1154	7820.3	8017.7
Nefm	0.883758	2.97E-21	141.45	IT(0.115)S(0.884)EGGDGAT(0.001	2	0.62924	47839.6	49175.8
Pcyt1b	0.99987	1.24E-25	99.957	MLQALS(1)PKQS(0.959)PVS(0.034	3	-1.9149	24199.5	24920.8
Pcyt1b	0.95933	1.24E-25	99.957	MLQALS(1)PKQS(0.959)PVS(0.034	3	-1.9149	24199.5	24920.8
Clip1	0.781838	1.35E-69	118.85	S(0.782)PS(0.206)AS(0.012)SLSSM	3	-1.7395	20660.8	20517.8
Lpin1	0.644766	3.23E-53	93.876	IHFQTIHS(0.006)ES(0.162)S(0.042	4	-1.21	31518.9	31751.3
Nek1	0.985072	0.00240352	82.417	S(0.985)PT(0.013)DS(0.002)VLK	2	0.036949	30193.9	31968.5

50912.2	49156.1	44174.5	53277.0	0.0	0.7	440
34499.7	31165.2	34915.8	33052.0	0.0	0.7	1518
25348.1	28174.4	27357.3	26640.0	0.0	0.7	43
10407.3	10197.2	9842.7	12812.0	0.0	0.8	282
10407.3	10197.2	9842.7	12812.0	0.0	0.8	283
6542.3	5924.7	5921.7	6206.6	0.0	0.6	499
18516.3	18091.0	17743.8	18474.0	0.0	0.2	736;724
4844.7	4896.5	4458.5	4641.6	0.0	0.5	198
70132.2	68924.6	69297.3	72681.0	0.0	0.4	1618;1492
8412.9	8356.2	8184.7	8009.4	0.0	0.2	202
69089.9	67214.1	72704.1	66252.0	0.0	0.5	352
60504.7	62001.4	55604.7	63170.0	0.0	0.6	297
29295.8	27981.9	27883.1	30778.0	0.0	0.6	139
4496.5	4823.8	5148.7	4490.8	0.0	0.7	561
6117.2	6522.3	6165.2	6465.6	0.0	0.8	137
13231.4	11775.1	13142.2	15278.0	0.0	0.9	362
10373.7	9437.0	8615.9	9752.4	0.0	0.7	417;417
38691.2	36039.1	34413.5	39351.0	0.0	0.6	1274;1188
30626.6	29395.3	30292.8	29000.0	0.0	0.2	163
39063.8	38314.9	37619.5	39216.0	0.0	0.2	604
44925.8	44559.4	44696.0	46161.0	0.0	0.4	788
1012.6	882.1	1244.8	1093.3	0.0	0.9	51
32939.0	32180.4	24140.7	28107.0	0.0	0.9	8
8762.0	7759.1	7213.3	8780.0	0.0	0.8	246
31414.4	26798.3	30624.1	34472.0	0.0	0.8	251
54038.0	52467.0	49185.4	53879.0	0.0	0.5	18
32612.1	32287.1	31827.4	34431.0	0.0	0.6	875
7426.0	7421.3	7862.0	7461.6	0.0	0.5	2349
45559.2	45241.3	47671.1	46482.0	0.0	0.5	792
21862.4	22789.0	24110.7	22500.0	0.0	0.6	277
21862.4	22789.0	24110.7	22500.0	0.0	0.6	281
19963.1	19505.6	20065.9	20207.0	0.0	0.2	309
34415.6	31284.0	31340.1	32886.0	0.0	0.5	356
33374.4	30299.5	31925.7	31186.0	0.0	0.5	760



Osbp15	0.98815	1.62E-34	104.3	KTNES(0.012)GS(0.988)DLLDSPGG	3	0.12492	32265.6	32783.5
Srrm1	0.996384	1.42E-05	65.219	HRPS(0.152)S(0.851)PAT(0.996)PF	3	-0.28029	121009.3	127384.7
Scaf1	1	4.00E-07	79.471	APS(1)PAPAVS(1)PKR	2	0.78034	133353.5	131662.7
Hecw1	0.952426	2.48E-15	90.872	CS(0.952)PCS(0.037)S(0.01)PQNSF	2	-0.19108	28927.2	31628.4
Ccdc93	0.513686	1.81E-06	50.202	LT(0.033)AS(0.453)S(0.514)VGQIV	3	0.61697	6954.6	6696.8
Camk2b	0.813191	1.27E-31	73.458	RGS(0.997)GAPEAEGPLS(0.078)CP	4	-0.58029	19304.7	19320.0
Nucb1	0.999996	2.82E-35	152.34	AQRLS(1)QETEALGR	3	0.52012	42641.9	41013.6
Leng8	1	0.00149008	89.171	EPVAES(1)PKK	3	0.97084	68301.2	66826.2
Epb41l1	0.740098	2.87E-15	58.349	CT(0.002)DPELVS(0.74)PDS(0.186)	3	-0.94495	18296.9	17789.8
LOC10036	0.622183	1.31E-09	80.245	S(0.378)AEAGAVGEAQS(0.622)K	2	0.21241	10882.8	10752.2
Kcnq2	0.999609	2.76E-06	80.917	GKGS(1)PQAQTVR	3	-0.1783	31798.0	32168.1
Pkn2	0.753771	2.07E-101	160.04	T(0.123)S(0.123)T(0.754)FCGTPEF	3	-1.304	54423.2	55009.2
Ndr1	0.850737	1.92E-42	150.27	T(0.07)AS(0.851)GS(0.075)S(0.005	3	-0.54217	11944.7	11636.1
Msn	1	0.00785713	56.432	QRIDFES(1)M	2	-0.96511	62404.6	71889.6
Rbm6	0.999912	6.51E-09	135.08	LQSFDS(1)PER	2	0.4782	14680.7	14902.7
Kank3	0.499963	1.14E-71	105.05	S(0.5)S(0.5)PAPNPALASPSVPLASPI	4	-1.0296	9346.3	8404.2
Kank3	0.499963	1.14E-71	105.05	S(0.5)S(0.5)PAPNPALASPSVPLASPI	4	-1.0296	9346.3	8404.2
Nacad	0.793881	1.06E-57	90.559	EGVPELQDT(0.002)PVAS(0.794)S(i	3	0.62591	55978.4	52911.9
LOC68801	0.947224	4.03E-46	103.02	ATHVPENS(0.947)DT(0.053)EQDV	4	0.31724	27685.7	29837.2
Cep131	0.950265	4.53E-05	49.595	T(0.012)GAAS(0.95)LEHLLAS(0.038	3	-0.27679	5189.9	4712.2
Helz	0.613409	2.30E-22	65.378	S(0.355)PPAVPS(0.613)PPS(0.343)	4	0.18878	16089.2	14934.5
Hypk	1	6.70E-06	68.978	KHDS(1)GAADLER	3	-0.77297	21694.8	20467.3
Ppp4r4	0.803484	5.10E-16	65.223	NT(0.004)S(0.019)S(0.062)VS(0.80	3	1.4919	4037.0	4278.6
Arhgap35	0.698923	1.13E-38	80.664	NIIETHMYDNVAEACS(0.699)T(0.1	4	0.15845	20775.3	19525.1
Ptdss1	0.551005	7.90E-09	46.862	EKT(0.551)YS(0.446)ECEDGT(0.00	4	-0.86633	7256.3	7268.5
Zfp36l2	0.950782	0.000180407	65.295	S(0.049)FS(0.951)ENGER	2	-0.87654	10122.0	9542.1
Wdr44	0.515008	7.10E-07	52.898	S(0.05)NS(0.159)GRELT(0.515)DEF	3	1.5491	9281.2	8677.4
Sharnin	0.999873	1.76E-14	121.45	EVSCHS(1)PQHSK	3	-0.21765	35943.8	36282.7
Lmo7	0.942005	8.36E-22	87.793	S(0.058)AS(0.942)VNKEPICTGIMIF	4	-1.2051	80466.5	79949.7
Eif3c	0.927774	2.49E-05	69.209	KPDS(0.928)S(0.057)GES(0.015)R	2	-0.53793	115871.2	105634.0
Mlip	0.994331	2.19E-05	44.341	AEY(0.001)VFIIVDS(0.994)DGEDEA	3	3.5726	3585.8	6535.9
Mapk8ip3	0.697525	2.32E-07	81.565	LFS(0.002)S(0.013)S(0.091)S(0.698	3	-0.21842	22127.8	23896.3
LOC10091	1	0.00228336	59.038	CRS(1)PLGQAAR	2	0.42641	11163.8	11512.1
Hectd4	0.735692	2.18E-49	119.41	S(0.198)MS(0.736)APS(0.066)DLEI	3	0.82462	35762.5	37441.0

31207.9	30670.2	31345.5	32100.0	0.0	0.3	327
119644.5	121325.6	118459.2	120070.0	0.0	0.3	321
130684.8	125989.4	131282.9	129630.0	0.0	0.2	684
26575.6	27926.9	29223.1	28045.0	0.0	0.7	1189
6989.7	6138.7	6990.1	7053.8	0.0	0.6	274
18861.2	20014.9	18183.0	18011.0	0.0	0.6	436;421;412
44914.1	40497.2	39906.4	45311.0	0.0	0.7	368
67630.3	66632.3	66459.0	65167.0	0.0	0.1	352
19208.3	18423.2	16512.7	19132.0	0.0	0.7	1177;1169
11188.3	11024.9	9852.1	11218.0	0.0	0.6	38
29630.1	29086.2	31833.8	30600.0	0.0	0.6	429
53581.3	52792.6	52292.0	54314.0	0.0	0.2	767
11441.7	12100.7	11041.2	11104.0	0.0	0.5	330
62226.2	62749.4	65397.8	64022.0	0.0	0.7	576
14999.7	14146.6	14610.5	14839.0	0.0	0.2	1022
9870.4	8194.6	9178.3	9636.8	0.0	0.8	166
9870.4	8194.6	9178.3	9636.8	0.0	0.8	167
56668.8	53790.2	55300.2	52806.0	0.0	0.4	673
26184.9	27607.9	24926.1	29322.0	0.0	0.7	1279
3906.0	4526.3	4635.3	4341.2	0.0	0.8	286
17550.6	16677.6	15636.4	15187.0	0.0	0.7	1641
20330.4	20804.6	19977.2	20330.0	0.0	0.4	30
3810.4	3877.0	4283.7	3697.4	0.0	0.7	790
18143.6	19309.8	19748.5	18095.0	0.0	0.7	962
6935.2	7103.0	6376.8	7506.3	0.0	0.7	415
8752.8	9326.3	10050.9	8412.3	0.0	0.8	123
8521.4	8988.5	8824.0	8082.8	0.0	0.6	351;351
31481.5	34588.2	33635.6	33196.0	0.0	0.7	307
78793.1	77450.4	77590.0	78892.0	0.0	0.1	1229;1212
99321.5	104739.3	104647.0	104370.0	0.0	0.7	203
6333.4	6008.0	4175.0	5909.5	0.0	0.9	56
23868.2	22500.8	23314.6	22537.0	0.0	0.5	584
9403.7	9758.2	11709.1	9906.0	0.0	0.8	10
37502.0	35142.6	35302.7	37823.0	0.0	0.5	1611

Gtf2i	0.998882	6.05E-09	122.46	ESTSS(0.001)KS(0.999)PPR	2	0.54025	152138.2	153776.5
Slc7a8	0.71702	1.24E-20	76.049	GS(0.059)DT(0.224)S(0.717)PEAE/	3	0.048792	8722.4	8232.3
Ilf3	0.991619	8.37E-13	74.618	RPMEEDGEEKS(0.992)PS(0.008)K	4	-0.12222	43240.6	40909.4
Npm1	0.757854	0.0369058	40.496	DLKPS(0.242)T(0.758)PR	3	0.035443	6038.9	6035.3
Taf6l	0.899229	0.00502569	54.683	EPAT(0.09)T(0.899)PDS(0.01)VR	2	-0.51645	4396.2	4663.9
Foxk1	1	0.0106474	52.788	QS(1)PGPALAR	2	-0.27884	10460.8	10463.1
Epn3	0.69148	2.56E-41	105.94	GKS(0.156)PS(0.691)PVELDPFGDS	3	-0.56934	41346.6	41251.7
Picalm	0.620588	2.71E-10	59.359	ATTLNAVS(0.006)S(0.021)LAS(0.(	3	0.6806	5956.6	5503.7
Plekhg2	1	0.0620184	51.949	NPAPS(1)PR	2	-0.62598	9639.6	9032.1
Zc3hc1	0.942792	3.92E-41	110.38	SMGTGDSAGLEVPS(0.057)S(0.943	3	-0.18871	35980.8	34476.0
Uhrf1bp1	0.983418	0.0137112	40.941	S(0.001)PLDKS(0.983)PT(0.016)QC	2	-0.135	5246.8	5365.2
Mpz	0.999171	0.000137985	42.976	DAIS(0.999)IFHY(0.001)AK	2	-0.23672	7002.3	6705.9
Synj2	0.996763	5.60E-11	41.521	RPS(0.997)GGKPEPDDAPPVT(0.00	5	-0.44144	7921.4	9527.1
Dmap1	0.813648	0.000844515	50.194	ESAS(0.001)S(0.003)S(0.016)S(0.1	3	0.56938	21494.5	25896.0
Synpo	0.595294	1.88E-08	71.08	CPS(0.398)PT(0.595)MS(0.006)LP	2	-0.23432	28924.9	26910.6
Isl2	0.663306	4.07E-08	56.681	ASLQGLT(0.091)GT(0.245)PLVAGS	2	1.21	10584.7	10346.1
Kcna1	0.947524	6.90E-85	137.3	TVMSGENADEAS(0.052)AAPGHPC	3	0.80976	45952.7	42516.4
Vps8	0.672768	0.00664242	58.433	MS(0.105)PS(0.167)Y(0.673)HQS((	3	0.78945	12693.7	13029.2
Hmbox1	0.983234	0.00861699	65.535	RDS(0.983)S(0.017)VIK	3	0.71636	11507.0	11565.9
Fdx1	0.626636	0.000135811	47.506	S(0.627)S(0.166)S(0.166)EDKVT(0.	4	-0.078148	3255.1	3795.1
Tdp1	0.999968	5.70E-14	110.51	VEDRS(1)PPDSHR	3	-0.094324	12762.9	13528.3
Stim1	0.638518	1.75E-29	81.974	NTLFGTFHVAHS(0.181)S(0.181)S((	4	0.11786	16801.3	19314.5
Kazn	1	0.0648831	55.503	FGT(1)PPGR	2	0.37727	13746.8	14494.6
Dpysl2	1	0.0039931	54.276	GS(1)GQVVAQQR	2	1.5187	3527.0	3162.0
Lcp1	0.966031	1.52E-36	145.49	GS(0.034)VS(0.966)DEEMMELR	2	-0.39245	99873.8	94513.5
Gtf2f2	0.959947	0.000282155	71.03	HY(0.001)QT(0.96)EEKS(0.04)D	3	0.16548	34766.6	35962.4
Knop1	0.705073	7.51E-11	67.326	VAS(0.002)QGS(0.098)GLKT(0.705	3	0.37133	38423.4	37454.2
Hid1	0.999999	0.00759157	83.783	T(1)PEPLSR	2	-0.81757	7268.0	6947.6
Git1	0.998298	1.71E-101	155.73	HGS(0.998)GAES(0.002)DYENTQSC	5	-0.40427	78894.6	78976.8
Arhgap32	0.967548	2.62E-06	68.044	DVINRS(0.968)PT(0.032)QLGK	2	-0.63821	13422.4	13573.2
Prrc2b	1	5.69E-40	120.63	LKFS(1)DDEDEEDVVKDGR	4	0.13473	226609.1	227149.1
Rptor	0.997975	3.33E-19	72.99	NY(0.001)PLPS(0.998)PAAT(0.001	3	0.17401	22668.1	22386.9
Zfp462	0.917729	3.58E-05	42.863	GSALAQLS(0.082)FEVGAPMS(0.91	3	2.9045	9376.8	8709.2
Thsd1	0.623508	0.000766354	59.225	GS(0.376)FS(0.624)DAGDGPR	2	-0.14963	6766.7	6926.8

148038.5	141795.8	150967.3	151200.0	0.0	0.4	738
9010.5	8036.0	8187.6	9170.3	0.0	0.7	23
41454.0	41795.2	39294.0	41751.0	0.0	0.4	382
6095.6	5437.2	5982.9	6350.4	0.0	0.6	217
5307.6	4743.0	5038.8	4270.1	0.0	0.8	484
10421.7	9198.1	11240.0	10219.0	0.0	0.7	87
41043.0	38978.2	41130.0	40819.0	0.0	0.3	419
5297.2	5078.1	5245.1	6066.5	0.0	0.8	315
9898.7	9495.3	8876.8	9571.6	0.0	0.6	423
33413.8	33697.3	34029.9	33866.0	0.0	0.4	394
5888.1	5840.3	5535.4	4762.8	0.0	0.8	442
6496.9	6654.2	6648.9	6459.3	0.0	0.4	78
9463.3	8733.7	8960.0	8628.5	0.0	0.7	1262
21493.0	25941.4	22314.4	19119.0	0.0	0.8	461
31171.7	27998.4	29150.5	27954.0	0.0	0.6	505
11263.9	11279.0	10138.1	10073.0	0.0	0.6	279
47523.5	42891.8	42475.4	47651.0	0.0	0.7	23
10943.5	12298.6	11916.4	11650.0	0.0	0.7	1341
11506.7	11092.0	10849.9	11882.0	0.0	0.5	170
3678.6	3479.7	3483.0	3531.6	0.0	0.7	65
12365.8	12406.4	13327.1	12079.0	0.0	0.6	132
17924.3	17443.2	17779.0	17638.0	0.0	0.6	401
13124.9	12765.0	13469.2	14229.0	0.0	0.6	689
3664.8	3222.2	3904.2	3001.4	0.0	0.8	61
101093.1	95640.4	95040.9	98352.0	0.0	0.4	7
35537.7	34022.9	34190.2	35737.0	0.0	0.3	244
37268.9	38709.8	37161.0	34809.0	0.0	0.5	193
6668.3	6308.4	7470.6	6649.7	0.0	0.7	583
78300.2	77954.1	75623.7	77447.0	0.0	0.1	601
14367.3	13738.5	13673.3	13050.0	0.0	0.5	603
216494.9	213238.2	216956.1	225470.0	0.0	0.4	387
22779.1	22540.4	21865.5	21952.0	0.0	0.1	696
8463.6	8821.9	8765.9	8384.1	0.0	0.6	1032
6573.6	6688.6	6853.0	6284.5	0.0	0.5	421

Map6	1	1.77E-08	68.168	AQS(1)PLLPEPLK	3	1.9903	95035.1	101650.0
Etv6	0.965807	8.89E-26	74.561	IS(0.032)S(0.115)T(0.883)PPES(0.9	3	0.38058	17874.7	17533.1
Sgcd	0.652707	5.51E-17	98.654	S(0.088)T(0.11)MPS(0.653)S(0.149	3	-0.2094	25796.5	25887.2
Pkp4	0.929121	8.99E-10	88.385	VGS(0.929)PLT(0.053)LT(0.017)DA	2	-0.88837	26949.8	25048.1
Gls	0.929415	2.03E-11	61.477	GPGSGGLS(0.004)S(0.013)S(0.054	3	-1.8808	4578.7	4795.1
Hdgf	1	1.51E-46	104.12	KGNAEGS(1)S(1)DEEGKLVIDEPAK	4	0.20009	401515.5	390797.8
Dicer1	0.999997	3.03E-09	77.13	SPSGSCAAAVS(1)PR	2	0.22307	28824.7	29247.0
LOC102551	0.999756	5.07E-05	44.963	S(1)PDPFGAAAAQSLSLAR	3	-0.6736	5517.5	5779.3
Cnn3	0.993517	1.21E-08	98.582	GPS(0.994)YGLS(0.006)AEVK	2	0.12458	34107.1	34246.8
Rgs3	0.797344	4.68E-48	87.881	GPCFASDTTLHCS(0.797)DGEGT(0.	3	-1.2051	21375.2	21456.8
LOC65295	0.990094	5.29E-13	76.015	T(0.01)NGS(0.99)VDLGEEEEAAR	2	0.78393	16091.6	17802.9
Tsc1	0.735062	1.60E-43	99.454	VTGGS(0.007)S(0.032)S(0.149)S(0	3	0.22904	19909.4	18496.2
Tram111	0.999978	2.81E-09	59.539	KGTENGVENPNRIDS(1)PPK	4	-0.089379	13458.2	14673.4
Myh10	0.982178	2.76E-15	97.138	GGPIS(0.982)FS(0.018)SSR	2	0.056461	23045.0	22895.9
Ablim1	0.797765	5.12E-70	117.94	SGLHRPVS(0.798)T(0.198)DFAQY(	3	0.47513	34822.7	36154.3
Pxn	0.842403	1.54E-19	63.706	QKS(0.842)AEPS(0.1)PT(0.004)VM	4	-0.10728	3384.1	3517.4
Mycbp2	0.5	5.92E-05	62.088	ALLS(0.5)S(0.5)PEGEEK	3	1.3614	10031.3	10199.1
Mycbp2	0.5	5.92E-05	62.088	ALLS(0.5)S(0.5)PEGEEK	3	1.3614	10031.3	10199.1
Ostf1	0.999866	9.35E-15	86.367	TLSNAEDYLDDEDS(1)D	2	0.80323	282665.0	278956.4
Plekhg2	0.998377	6.77E-27	77.584	VATSESLDLT(0.998)PPHSPSLSTR	3	1.6992	10571.7	11508.8
Igf2r	0.812213	0.000929216	56.414	SSGVS(0.015)Y(0.009)KY(0.164)S(	3	-0.15348	36417.3	40954.4
Hcfc1	0.814973	0.0153742	51.286	RPMS(0.815)S(0.185)PEMK	2	-0.36891	15037.3	13726.8
Trpm4	0.999996	3.14E-10	84.195	TNLPAS(1)PVFEHFR	3	0.060541	11783.2	12710.0
Wfs1	0.777319	1.10E-14	112.03	KGIT(0.223)S(0.777)ENEAEVK	3	0.11162	89968.6	93943.1
Dlgap3	1	0.00098365	51.252	HAS(1)EPQPGPR	3	0.81998	6387.2	7497.4
Sec24c	0.8813	0.0120825	62.463	AVVS(0.119)S(0.881)PVK	2	-0.296	11872.1	12244.9
Pkn2	0.999999	3.96E-233	218.55	GREVSNFDDFTSEAPILT(1)PPREF	4	0.070236	96151.4	101136.6
Inpp5j	0.919293	4.63E-58	101	RPIPPADGCLHTPVQAAGLAT(0.081	4	0.76156	74897.9	82518.7
Exoc6b	0.678251	2.95E-08	59.709	DVYTIFDT(0.13)EVES(0.678)T(0.15	3	-0.17864	10369.6	10973.5
Mpp2	0.957268	1.50E-22	65.069	T(0.038)Y(0.001)ET(0.957)PPPS(0.	4	-0.65278	8334.4	7357.7
Pacsin3	0.998362	2.51E-33	113.42	GGRS(0.998)PDEVT(0.002)LTSIVP1	3	0.65133	18818.1	19442.8
Pkm	0.898895	0.000661476	41.615	T(0.014)GLIKGS(0.899)GT(0.087)A	3	-0.10403	18058.4	20159.1
LOC10091	0.996932	6.43E-10	64.476	T(0.969)AT(0.997)PPGY(0.003)KPC	3	-1.0472	119339.5	112631.2
Ank2	0.994487	6.79E-05	66.989	THPVVS(0.994)PS(0.004)S(0.001)K	3	-0.58479	14667.6	14101.9

110318.2	99342.9	101270.0	99711.0	0.0	0.6	736
20766.9	17525.7	18451.2	18976.0	0.0	0.7	22
24675.2	24668.8	25583.3	24447.0	0.0	0.3	15
28733.6	25213.3	26995.0	26769.0	0.0	0.7	313
5273.1	4798.0	4642.6	4888.0	0.0	0.7	77
392214.1	381147.0	388088.7	389580.0	0.0	0.1	133
28116.1	27780.6	28387.5	28149.0	0.0	0.2	1624
4714.6	5035.4	5507.8	5120.6	0.0	0.8	271
33050.7	32963.6	32561.6	33679.0	0.0	0.2	9
23449.8	20842.0	21417.8	22584.0	0.0	0.6	735
17710.3	17961.2	16731.8	15793.0	0.0	0.7	57
20159.0	18461.7	19816.9	19017.0	0.0	0.6	1036
13779.7	14059.7	13303.5	13640.0	0.0	0.5	354
23877.8	21306.2	23153.2	23848.0	0.0	0.6	1956
38250.5	37235.8	34963.9	34666.0	0.0	0.6	649;562
3307.6	3242.9	3622.3	3123.2	0.0	0.7	126
10010.8	8763.9	10350.5	10473.0	0.0	0.7	4005
10010.8	8763.9	10350.5	10473.0	0.0	0.7	4006
292521.0	274406.9	278114.6	283160.0	0.0	0.3	213
10725.2	10913.6	10596.1	10587.0	0.0	0.5	1177
37227.3	37815.5	36657.7	37650.0	0.0	0.6	2342
13226.0	12870.6	13848.6	14364.0	0.0	0.7	2030
11222.4	12097.4	11102.1	11745.0	0.0	0.6	1097
84276.0	86224.7	88597.0	87578.0	0.0	0.5	158
6608.7	6673.3	7227.6	6150.1	0.0	0.8	620
11741.9	12628.6	10995.3	11462.0	0.0	0.6	847
99384.3	95302.7	94215.9	100760.0	0.0	0.4	909
77294.1	69912.3	72055.5	87688.0	0.0	0.8	259
10879.6	9631.2	11370.4	10528.0	0.0	0.7	259
7282.6	6395.2	7762.6	8323.1	0.0	0.8	106
19121.0	19084.3	18190.5	18874.0	0.0	0.3	319
18991.1	18016.2	19868.2	18095.0	0.0	0.7	127;231
116354.7	109619.8	117005.8	114220.0	0.0	0.4	647
13813.7	14402.9	13871.0	13395.0	0.0	0.5	1803



Mapk6	0.952978	3.12E-08	102.87	GHLS(0.953)EGLVT(0.047)K	2	1.561	24570.4	24694.8
Prkar1b	0.782598	6.58E-64	114.68	S(0.194)NS(0.783)QCDS(0.023)HD	5	0.27306	22774.2	23041.8
Arhgap31	0.768025	1.77E-41	112.88	HRPS(0.226)S(0.768)LNLDS(0.006)	3	0.47336	8633.3	5514.8
Camk2g	0.674105	2.37E-47	144.17	GS(0.025)T(0.674)ES(0.027)CNT(0	3	-0.60517	25946.7	25995.8
Camk2g	0.674105	2.37E-47	144.17	GS(0.025)T(0.674)ES(0.027)CNT(0	3	-0.60517	25946.7	25995.8
Psd3	0.702706	7.57E-18	70.837	S(0.145)HS(0.703)S(0.145)PS(0.00	4	-0.49438	33899.5	34539.7
Bclaf1	1	0.0533064	54.066	CDS(1)ADLR	2	-0.17737	10738.3	9662.1
Aff4	0.86764	1.56E-78	126.47	VNPHKVS(0.001)PAS(0.04)S(0.868	4	0.32746	22331.7	24366.9
Gatad2b	0.816239	1.69E-32	94.271	LTPSPDIIVLS(0.019)DNEAS(0.165)	3	0.82024	4942.9	5801.8
Rundc1	0.999863	0.0318523	51.436	AYVES(1)PAR	2	-0.16366	22319.8	26445.5
Prph	0.669544	1.50E-21	80.738	EQHS(0.001)ELDKS(0.29)S(0.67)IH	3	-0.70784	126913.0	126408.5
Zfp37	1	0.0102613	50.194	CDKS(1)PNNK	2	-0.85591	21815.3	22163.2
Caskin1	0.811256	2.64E-46	101.86	HMS(0.032)S(0.157)S(0.811)QELL	3	-0.30266	14828.6	14615.3
Fcho2	0.727133	4.93E-77	110.01	LSGINEIPRPFS(0.001)PPIT(0.005)S	4	-0.89546	21269.1	21456.8
Fkbp15	0.947003	2.42E-32	72.566	VLGPPT(0.001)S(0.003)IPPKPPGP	4	0.06361	13558.4	14055.9
Map3k3	0.708609	1.23E-07	50.87	VKPS(0.012)QS(0.086)AGDINT(0.7	4	0.61241	9311.0	9375.3
Dst	0.946992	7.41E-05	89.43	S(0.947)FS(0.039)EDVIS(0.014)HK	3	-0.8898	44928.2	44106.9
Tom1l2	0.5	0.0246329	48.423	KQS(0.5)S(0.5)EMK	3	0.75108	7921.1	7364.7
Tom1l2	0.5	0.0246329	48.423	KQS(0.5)S(0.5)EMK	3	0.75108	7921.1	7364.7
RGD13062	0.998929	0.000254077	67.997	LAEET(0.001)AIS(0.999)PR	2	1.1472	16433.9	14673.4
Zfp644	0.999681	5.13E-08	93.649	CGEGNS(1)PVHTR	3	0.96191	8167.0	8537.2
Mast3	0.751948	5.56E-05	42.633	IAVQGAEAT(0.752)PGS(0.248)PGF	3	-0.25848	7450.1	6569.9
Gys1	0.999513	4.74E-11	66.022	LYESLLVGS(1)LPDMNK	3	0.65063	10584.0	10802.9
Ms4a1	0.911842	4.85E-15	81.618	RPS(0.912)S(0.088)LVGPTQSFFMF	3	0.26648	4568.9	3746.6
Kdm5c	0.90306	0.00516517	85.862	MES(0.097)AS(0.903)PK	2	0.63028	22226.8	21704.7
Srrm1	1	8.99E-07	83.633	RES(1)PS(1)PAPKPR	3	-1.8576	160964.0	162749.3
Kcna2	0.585559	3.27E-40	109.14	ETEGEEQAQY(0.586)LQVT(0.373)S	3	-0.23856	23333.6	25871.8
LOC10369	1	0.00024563	73.499	LLED(1)RGVR	3	0.81427	4115.1	3981.0
Epb41l2	0.997884	3.56E-21	84.156	RDGKS(0.998)PT(0.002)K	2	0.16046	308748.9	302167.1
RGD13046	0.994075	4.82E-71	104.84	SHS(0.006)ANDS(0.994)EEFFREDD	3	-0.095942	12068.7	12672.7
Plekhg5	0.621161	8.11E-54	97.913	S(0.131)KS(0.246)EAS(0.621)LLQL	3	-0.27886	20392.4	20827.1
Ppip5k2	1	3.70E-135	198.24	FFHHADEEEEEEEES(1)PPER	3	0.27294	6482.1	7269.1
LOC10369	0.739198	5.45E-06	42.347	KAGS(0.739)PS(0.261)PAQELAEPN	4	1.5556	35682.6	35986.5
LOC10036	0.990513	0.00169214	87.806	T(0.005)T(0.004)S(0.991)PNKGGK	3	-0.084545	235828.5	234366.8



23475.4	23852.6	23177.8	24149.0	0.0	0.3	189
23156.0	21740.7	22613.6	23138.0	0.0	0.3	51
9471.5	3997.0	14448.1	4668.0	0.0	1.0	1096
25440.7	26547.5	23536.9	25640.0	0.0	0.6	380
25440.7	26547.5	23536.9	25640.0	0.0	0.6	403;392;380
34092.0	34300.0	32525.2	33508.0	0.0	0.3	1259
10110.9	10020.4	9612.9	10224.0	0.0	0.6	688
22498.0	21638.4	23093.4	22983.0	0.0	0.6	458
4701.4	5392.4	4626.3	5096.7	0.0	0.8	135
24297.3	20504.3	25751.1	25243.0	0.0	0.8	493
124201.1	122062.5	127232.7	120150.0	0.0	0.3	502
23887.4	22204.9	21260.7	22949.0	0.0	0.6	227
15259.5	14301.7	14287.8	15158.0	0.0	0.4	638
21606.9	20667.1	22032.2	20259.0	0.0	0.4	540
13990.5	13938.7	13923.4	12854.0	0.0	0.5	1047
9773.3	9343.2	9370.4	9138.3	0.0	0.3	153
46245.9	44407.6	43493.8	44491.0	0.0	0.2	3994;4057
9104.6	7652.4	8187.6	8029.5	0.0	0.8	423
9104.6	7652.4	8187.6	8029.5	0.0	0.8	424
14606.9	14732.9	15222.8	14784.0	0.0	0.6	148
8301.4	7850.6	8563.5	8058.5	0.0	0.5	393
5500.5	6184.3	6480.4	6439.8	0.0	0.8	1289
10693.3	10218.4	10855.3	10323.0	0.0	0.3	412
3843.1	3530.7	4135.7	4233.4	0.0	0.8	35
21923.1	19961.0	21334.4	23157.0	0.0	0.6	287
148783.7	154907.3	154151.9	153400.0	0.0	0.5	367
25393.8	24658.9	23127.6	25228.0	0.0	0.6	429
4104.9	4123.9	3650.6	4167.5	0.0	0.6	268
328207.8	294019.2	313262.3	311900.0	0.0	0.5	591;591;591
13336.8	11978.6	12524.5	12767.0	0.0	0.6	328
21456.8	19992.9	20622.7	20732.0	0.0	0.3	908
7119.3	6592.7	6825.6	7009.8	0.0	0.6	38
36900.5	33529.0	32611.8	40128.0	0.0	0.8	288
204773.2	220255.9	222042.8	218370.0	0.0	0.7	445

Taf6	0.999313	5.78E-05	49.188	QET(0.016)GDS(0.985)PPPAPGT(0	3	0.075581	3578.3	4008.0
Ssfa2	0.650348	1.48E-72	140.57	S(0.001)AQAS(0.135)S(0.65)S(0.21	4	0.56556	22495.1	23834.9
Nek7	0.909304	3.09E-05	43.383	T(0.014)T(0.014)AAHS(0.909)LVG	3	-2.4679	25364.7	24766.1
Tns1	0.758102	7.37E-15	68.42	AT(0.043)S(0.758)ET(0.198)LAADF	3	-0.24801	6760.6	6426.2
Aatk	0.839235	5.38E-46	102.21	ECPTFLEGS(0.135)PGS(0.839)PS(0	3	-2.9534	12593.5	14320.2
RGD15611	0.695876	5.81E-14	62.099	T(0.062)LS(0.191)PS(0.696)S(0.05	3	-0.72923	22713.4	25510.9
Arhgef40	0.903138	7.18E-59	95.551	NS(0.903)PS(0.092)LQS(0.005)PNI	3	0.34868	15707.6	18171.5
Psm2	0.876361	1.70E-42	94.019	DKT(0.094)PVQS(0.876)QQPS(0.0	3	-0.46033	21569.6	20321.4
Cast	0.643886	3.14E-12	63.158	KGSDEVT(0.001)AS(0.016)S(0.016	3	-0.29033	40171.8	40376.3
Rictor	0.515969	2.06E-06	41.256	FS(0.001)GIS(0.012)GCS(0.516)DG	3	-2.1893	18540.2	19300.2
Gbf1	0.989933	1.76E-06	51.798	ETARPGFEAVDGS(0.99)PDT(0.008	3	-0.025296	17682.7	17217.2
Hcn1	1	1.06E-09	92.65	RLGT(1)PPGGGAAGK	3	0.52758	102681.4	99172.1
Dido1	0.954726	4.73E-12	65.038	S(0.009)DS(0.037)PVADMEDS(0.9	3	-0.30528	5677.8	6062.1
Dopey2	0.775235	9.18E-16	88.176	S(0.001)S(0.001)ES(0.046)LS(0.58	4	1.0719	12084.2	11132.6
Camsap1	0.791773	5.51E-58	104.24	T(0.013)DVS(0.159)PHS(0.828)PEI	4	0.94077	23059.3	26218.5
RGD15652	0.999864	0.0239827	47.062	SLGFIGS(1)PCR	2	-0.45917	2981.7	3154.0
LOC10091	0.986551	5.12E-05	116.84	RAPS(0.987)PGS(0.013)YK	2	-0.21077	23974.0	23792.1
Tnks1bp1	0.973531	2.38E-66	151	S(0.974)PPS(0.026)GSQSLLEGIMP	4	0.60909	100712.2	103915.1
Sptbn4	0.875309	3.14E-07	89.911	QES(0.125)T(0.875)DQPPEAAR	2	-1.258	4689.9	4033.9
Apba1	1	2.57E-134	133.07	APT(1)PPGGHPDS(1)PGLPAPAGQ	3	-0.43328	47163.3	47277.0
Zfp318	0.978537	0.0176118	56.548	SEY(0.001)S(0.979)PQS(0.021)R	2	1.3564	4363.5	3870.1
Hdac5	0.96786	0.000146161	50.354	T(0.001)QS(0.015)S(0.016)PAAPG	2	-0.65515	4211.9	3969.2
Slc37a2	0.710077	8.75E-07	43.241	ES(0.247)S(0.71)VDIAAS(0.031)S(C	2	-0.086453	9082.1	9309.4
Smchd1	0.913759	0.000140814	61.167	RCS(0.914)DS(0.086)LCLSPK	3	1.4754	5626.5	4974.2
LOC10091	0.799222	1.17E-06	91.024	CS(0.004)VS(0.197)LS(0.799)NVEA	2	0.23549	14018.8	15914.0
Gpr155	1	2.54E-10	48.655	FLQKS(1)PER	2	0.64052	30452.7	31875.2
Rlf	0.965597	4.93E-24	98.684	S(0.966)PT(0.016)GS(0.019)LEQNF	2	-0.25176	5557.6	6089.4
Fcho2	0.775511	4.79E-111	164.3	AES(0.776)S(0.181)S(0.043)SISSSA	3	-0.93355	10135.2	9864.4
Sorbs1	0.763869	9.90E-39	78.642	MS(0.015)S(0.013)AVS(0.764)PT(C	5	-0.14727	29105.0	28339.9
RGD15599	0.997711	2.38E-71	105.69	VLS(0.002)HDRDS(0.998)PPPPPPP	5	0.52227	193261.8	197236.3
Akr7a2	0.555804	1.16E-05	78.191	FFGNS(0.556)WS(0.442)ET(0.003)	2	-0.081448	12291.8	12254.7
Pygm	0.966283	0.00531639	49.715	VEHT(0.966)S(0.034)QGAK	2	-0.11043	4655.7	5408.2
Sybu	0.998941	1.20E-17	69.765	SPNS(0.001)AILLS(0.999)PVEIPFSK	3	-1.5548	7598.7	7955.0
Rgs3	0.651821	8.06E-59	140.63	RS(0.348)S(0.652)LIETGQGAEGGL	3	0.29315	24585.9	28096.4

4545.3	3933.5	3869.7	4071.5	0.0	0.8	660
21725.1	20597.8	22464.0	23552.0	0.0	0.7	441
25520.5	23046.4	26247.0	24756.0	0.0	0.6	195
6693.1	6723.0	6007.2	6729.4	0.0	0.6	1776
15129.6	12393.2	13656.2	15105.0	0.0	0.8	1212
24623.0	24225.5	21616.5	25469.0	0.0	0.7	533
17557.0	16955.9	14117.9	19278.0	0.0	0.8	1477
20282.5	19635.4	18363.6	22864.0	0.0	0.8	13
41375.2	39392.9	41514.7	38446.0	0.0	0.4	39
19658.6	18190.0	19189.6	18909.0	0.0	0.4	1524
17387.7	16564.3	17118.6	17505.0	0.0	0.3	620
95171.5	91158.1	102621.9	97000.0	0.0	0.6	39
5480.5	5993.6	5287.3	5577.4	0.0	0.7	1698
11886.7	12140.3	12089.6	10136.0	0.0	0.8	714
26115.7	23403.8	25480.7	24925.0	0.0	0.7	571
3194.9	3067.1	3092.0	2975.4	0.0	0.4	287
22886.6	21906.8	24304.2	22958.0	0.0	0.6	639
104750.1	98902.9	103559.1	100420.0	0.0	0.3	1422
3983.7	4289.7	4258.2	3892.8	0.0	0.8	2251
47639.5	45845.2	45574.5	47679.0	0.0	0.2	308
4614.9	3953.5	4516.5	4109.1	0.0	0.8	269
4604.7	4068.1	4425.8	4023.8	0.0	0.7	657
9810.5	9887.0	8201.7	9521.9	0.0	0.7	268
5038.1	5107.0	4996.4	5207.8	0.0	0.6	1968
16380.6	13800.1	16575.7	14969.0	0.0	0.8	133
31469.8	31149.8	30347.3	30341.0	0.0	0.3	835
5947.2	4794.0	5790.3	6642.4	0.0	0.8	631
10065.4	9332.8	10218.7	9885.6	0.0	0.5	553
31586.9	26485.9	29480.7	31207.0	0.0	0.7	510
192785.4	181383.4	197977.0	191750.0	0.0	0.5	138
11711.1	11420.9	11630.1	12450.0	0.0	0.5	234
5517.1	5294.9	5031.4	4929.9	0.0	0.7	210
7113.2	7665.7	7077.2	7451.4	0.0	0.6	556
27123.9	25252.9	27528.3	25363.0	0.0	0.7	687

Mief1	0.932218	5.48E-134	179.86	S(0.932)LQT(0.064)LPT(0.001)DS(0.001)	5	0.11657	60763.4	63452.1
Slc26a11	0.554911	0.000841038	57.175	S(0.001)S(0.001)LLKS(0.444)PS(0.001)	3	-0.11231	9951.4	11089.8
Pds5b	0.741241	2.69E-05	82.417	GRPS(0.209)KT(0.776)PS(0.741)PS(0.741)	4	-0.48119	55371.3	57375.2
Trps1	0.807526	1.43E-15	56.131	ATEET(0.001)GPVQS(0.808)GQAN	4	0.83322	6922.0	7248.1
Ash1l	1	0.0440346	41.399	PAIKT(1)T(1)VK	2	2.3205	29440.1	27105.9
Ash1l	1	0.0440346	41.399	PAIKT(1)T(1)VK	2	2.3205	29440.1	27105.9
Kcnq2	0.978143	1.40E-15	90.453	RS(0.978)PS(0.017)ADQS(0.002)LI	4	0.39955	15440.4	16667.6
RGD15640	0.874624	2.24E-21	71.354	SDLAVS(0.001)NIS(0.875)PPS(0.12)	3	-0.95411	122512.0	110371.6
Slc38a10	0.999984	1.68E-18	76.015	LSVQDPVVVMAEDS(1)QEK	3	-0.98866	20803.9	18941.5
Pdpk1	0.997546	6.78E-93	171.29	ANS(0.002)FVGT(0.998)AQYVSPEL	3	-1.4746	83325.4	81868.2
Fnbp1	0.989658	2.00E-56	175.6	T(0.008)VS(0.99)DNS(0.951)LS(0.008)	2	-0.69098	215171.3	214227.5
Ank2	0.964559	3.31E-12	95.197	S(0.01)KS(0.965)ES(0.01)DAS(0.01)	2	0.31462	50434.8	47482.2
Champ1	0.892564	0.000174748	46.569	DS(0.002)QES(0.102)S(0.893)DAEI	2	0.58478	5223.9	5639.2
Ppp1r2	0.931876	2.75E-65	150.95	TREQES(0.068)S(0.932)GEEDNDLS	3	-0.49315	68649.4	68149.1
Erc2	0.976533	5.65E-06	85.45	TISNPEGS(0.977)PS(0.023)R	2	-0.44713	12702.0	12170.3
Srrm2	1	0.00306926	62.633	S(1)RS(1)PLAIR	3	-0.3373	39292.8	38359.1
Pcdhgc3	0.98928	0.00136435	91.265	APVS(0.011)S(0.989)LYR	2	-0.049664	22428.3	24727.8
LOC100911	0.991048	0.000421523	122.98	FYDS(0.991)NT(0.009)VK	3	-1.4575	30775.9	32093.5
Map1b	0.899323	2.58E-37	107.39	LSPAKS(0.098)PS(0.899)LS(0.002)I	5	0.41621	248101.2	264707.5
Map1b	0.999971	2.10E-117	135.15	ASAEGEATAVVSPGVTQAVVEEHCA	5	0.4999	498778.6	223452.5
Acap3	0.793666	5.20E-13	74.428	CQRPHS(0.794)S(0.206)PHAPTTR	4	-0.54309	7857.5	7258.6
Flot1	0.930382	2.64E-15	81.656	ITLVS(0.004)S(0.021)GS(0.93)GT(C	3	1.0405	22365.1	22178.5
Mpz	0.918788	0.0174193	43.958	S(0.919)T(0.08)KAAS(0.001)EK	3	1.4208	65251.5	53748.8
Usp20	0.995012	0.000107162	81.215	LSS(0.005)S(0.995)PPR	2	-0.69408	42541.7	44329.6
Map1b	0.997062	1.95E-07	69.331	ADS(0.999)RES(0.997)LKPAT(0.001)	3	0.07081	127008.4	121680.8
Mtmr3	0.809211	6.54E-05	99.589	S(0.809)S(0.189)DPS(0.002)LNEK	3	0.51597	62503.6	58069.6
Pds5b	0.801334	6.16E-05	84.605	KAS(0.801)VT(0.199)DPEEK	3	0.47598	29523.6	29477.4
Twist2	0.670682	0.00161176	45.433	S(0.001)S(0.001)EDGS(0.327)PT(0.001)	3	-0.52537	4573.3	4244.0
Map1b	0.998044	5.26E-32	132.14	TPQASTYS(0.998)YET(0.001)SDR	2	0.15659	25835.8	25633.8
Tenc1	0.868435	3.08E-15	87.99	HLPGSGQQS(0.131)S(0.868)PPAR	2	0.84814	32452.8	33544.8
Fzd3	0.848769	0.0211202	41.448	AGS(0.849)VHS(0.151)K	3	0.79619	15850.7	16214.6
Foxk1	0.800778	2.08E-39	81.241	YS(0.001)QS(0.007)APGS(0.801)PA	4	0.69593	40320.9	40596.8
Tacc1	0.825066	5.90E-05	56.46	IS(0.004)VVRPFS(0.825)IET(0.171)	3	-0.32093	4174.7	3671.2
Sec16a	0.958854	5.50E-16	64.27	S(0.959)PPGS(0.025)ARPQELVGT(I	3	0.24469	19039.9	17715.2

58102.8	59008.4	61848.8	57667.0	0.0	0.6	94
9109.7	10001.7	10785.8	8736.0	0.0	0.8	190
57156.4	53696.7	55208.3	57464.0	0.0	0.4	1348
6926.1	6952.0	7138.5	6567.0	0.0	0.5	173
28419.6	26036.0	28611.9	28551.0	0.0	0.6	113
28419.6	26036.0	28611.9	28551.0	0.0	0.6	114
17119.4	14803.3	17249.0	16152.0	0.0	0.7	438
112128.1	109584.6	129883.0	98375.0	0.0	0.8	108
20033.4	18688.3	18878.7	20970.0	0.0	0.7	441
82857.9	79570.0	80446.4	82884.0	0.0	0.2	248
210298.7	204867.5	211078.5	210470.0	0.0	0.1	296
50560.9	45408.5	50101.2	49887.0	0.0	0.6	3375
6604.6	5302.4	5766.0	6037.0	0.0	0.8	617
68749.3	66186.8	64347.3	70753.0	0.0	0.5	122
11393.8	12634.1	11914.3	10966.0	0.0	0.7	14
38095.0	39139.9	38898.6	35310.0	0.0	0.6	2000
25476.9	22638.3	24330.9	24160.0	0.0	0.7	733
33632.0	31253.2	30883.8	32367.0	0.0	0.5	132
264467.7	240066.2	268005.2	253130.0	0.0	0.6	1250;1124
249977.9	221641.9	360870.4	369650.0	0.0	0.9	1305;1179
6355.5	7459.9	6844.7	6724.4	0.0	0.8	273
22389.4	21782.5	21998.0	21773.0	0.0	0.0	385
60184.2	59541.9	57396.9	58554.0	0.0	0.7	228
37527.6	42033.9	42045.8	37757.0	0.0	0.7	391
127863.5	120236.6	118950.8	129610.0	0.0	0.5	544;418
63732.7	58692.7	61838.1	59979.0	0.0	0.6	632
31541.1	29685.7	29075.7	29916.0	0.0	0.4	1187
4828.6	4611.7	4459.1	4294.1	0.0	0.7	46
24280.2	24277.2	25012.7	24901.0	0.0	0.4	2051;1925
31542.1	30627.3	31012.0	33893.0	0.0	0.6	1064
16072.9	15943.9	16039.3	15165.0	0.0	0.3	577
40656.5	39060.7	40332.8	39681.0	0.0	0.1	458
4467.7	3625.7	4037.0	4397.7	0.0	0.8	154
24307.9	19336.2	18316.6	22156.0	0.0	0.9	546

Tbc1d22a	0.525163	2.78E-16	59.305	S(0.525)QS(0.444)LPHS(0.029)AT(	5	2.0348	13953.2	14092.1
Lrrc16b	0.5	1.53E-30	84.529	RS(0.5)S(0.5)DDAGPGAWKPPPPPC	4	-0.6942	9077.2	9442.6
Lrrc16b	0.5	1.53E-30	84.529	RS(0.5)S(0.5)DDAGPGAWKPPPPPC	4	-0.6942	9077.2	9442.6
Bod1l1	0.961234	5.11E-19	73.294	TETDIT(0.003)T(0.036)VEQS(0.961	4	0.42971	16628.3	16084.1
Hivep2	0.611072	0.0046565	40.287	S(0.022)ES(0.063)T(0.063)EMAVS(	2	0.48681	14535.2	14286.2
Ctnnb1	0.499928	4.72E-46	153.92	T(0.5)S(0.5)MGGTQQQFVEGV	3	-0.24465	10848.3	11035.0
Ctnnb1	0.499928	4.72E-46	153.92	T(0.5)S(0.5)MGGTQQQFVEGV	3	-0.24465	10848.3	11035.0
Daam2	0.947651	3.41E-34	148.24	ELGS(0.948)T(0.052)EDIYLASR	2	0.70658	114075.0	107922.2
Itsn1	0.92573	4.45E-21	71.794	AQS(0.074)FDVAS(0.926)APAAAEV	2	0.32909	10319.9	8974.7
Osbpl3	1	9.24E-56	132.72	T(0.021)YS(0.979)APAINAIQGGAF	3	-0.041615	249091.1	236012.2
Nefh	1	1.92E-37	110.57	S(1)PGEAKS(1)PAEAK	3	-0.034272	1537483.1	1563981.2
Nefh	1	1.92E-37	110.57	S(1)PGEAKS(1)PAEAK	3	-0.034272	1537483.1	1563981.2
Akap12	0.831256	4.03E-39	121.26	ALGS(0.002)LGGS(0.166)PS(0.831	3	0.41386	73367.7	76503.2
Nmnat1	0.566572	3.71E-06	48.872	QDS(0.419)S(0.567)PQKPQEPKPT(	3	-0.16331	20336.4	18079.4
Trim2	1	5.17E-05	89.992	VKS(1)PGS(1)GHVK	3	-0.1331	206273.9	205770.3
Srrm2	1	0.00306926	62.633	S(1)RS(1)PLAIR	3	-0.3373	34412.4	33733.4
Ppap2a	0.998466	5.75E-17	94.325	KEDS(0.009)HT(0.992)T(0.998)LHE	4	0.85851	38038.1	36456.0
Poc5	0.99987	1.92E-26	80.786	ETALEVGKGS(1)DLNISSLSK	3	0.27085	39396.6	42256.5
Sbf2	0.988355	9.85E-05	54.259	LGLGT(0.988)IS(0.011)GSSSR	3	0.1648	1406.3	1458.5
Srrm2	0.939954	3.29E-07	83.226	GRSECDS(0.06)S(0.94)PEPK	3	-0.093606	34636.6	33979.1
Dock6	0.749731	1.90E-46	103.52	S(0.004)IS(0.052)S(0.194)S(0.75)N	3	-0.16955	8457.4	7873.2
Slc12a4	0.969614	4.47E-06	66.004	LVS(0.97)YT(0.03)NLTQGAK	3	-0.97596	6147.0	4863.9
Arhgef7	0.999879	9.32E-05	91.123	MS(1)GFIYQGK	2	1.4875	376457.3	389141.5
Dnm2	0.646161	2.53E-31	68.366	EALNIIGDISTSTVSTVPPPVDDTWL	4	-0.70042	5700.3	5358.1
Ahnak2	0.859503	9.09E-05	69.229	MPS(0.86)FGVS(0.14)VPR	2	0.35546	11080.0	12096.8
Sdpr	0.982543	0.0189074	45.368	S(0.017)LT(0.983)PNHQK	3	0.05167	5606.0	5271.9
Akap1	0.673002	7.01E-05	52.731	RS(0.103)ES(0.673)S(0.223)GNLPS	3	0.50497	4310.1	3733.0
Pgk1	1	1.80E-47	85.337	DCVGS(1)EVENACANPAAGTVILLEP	3	-0.15252	7807.8	7744.8
LOC100361	0.715072	7.27E-62	91.424	QFIAAQNLGPASGLPTPTSSPS(0.00	4	-0.39897	9401.1	8808.6
Ccdc136	0.635457	2.39E-38	79.512	S(0.002)YAS(0.038)S(0.151)S(0.63	4	-0.19622	20481.9	18785.8
Trim36	0.72764	1.92E-42	87.704	NS(0.07)LT(0.203)PRPT(0.728)MFI	4	0.21986	11163.8	11131.5
Mgrn1	0.591045	0.00257689	79.614	TQSKS(0.021)PDS(0.591)T(0.387)L	2	0.043062	10179.2	9716.8
Fnbp1	0.954231	3.05E-23	109.1	T(0.185)VS(0.775)DNS(0.954)LS(0	3	0.11602	114680.9	116152.3
Sntb1	0.868665	9.18E-27	80.729	KGS(0.869)PVS(0.13)EIGWET(0.01	4	0.12715	10721.5	11758.9

14802.8	13088.4	14845.6	14034.0	0.0	0.6	162
9607.3	9496.8	8861.8	9191.3	0.0	0.5	1099
9607.3	9496.8	8861.8	9191.3	0.0	0.5	1100
16482.8	16490.6	15450.5	16245.0	0.0	0.4	2847
17234.4	14833.0	13765.2	16513.0	0.0	0.8	822
10739.0	9609.6	10972.8	11371.0	0.0	0.7	552
10739.0	9609.6	10972.8	11371.0	0.0	0.7	551
108125.0	109336.0	104098.7	109920.0	0.0	0.5	628
8615.4	8591.8	9566.2	9180.1	0.0	0.8	208
234114.8	241881.1	232098.8	230500.0	0.0	0.5	264
1595153.1	1462396.4	1553701.4	1584300.0	0.0	0.5	586
1595153.1	1462396.4	1553701.4	1584300.0	0.0	0.5	586
86407.4	75330.7	75996.6	80114.0	0.0	0.7	1354
21967.8	18056.9	19284.7	21806.0	0.0	0.8	137
186993.7	196353.8	195796.9	194630.0	0.0	0.6	457
33225.3	34357.2	34204.1	30736.0	0.0	0.6	2002
40522.4	36812.4	40009.0	35846.0	0.0	0.7	266
42384.5	37459.1	39192.5	44853.0	0.0	0.7	80
1779.8	1608.0	1572.9	1368.7	0.0	0.8	1077
36115.8	32820.6	35651.0	34122.0	0.0	0.5	1442
8238.3	7742.3	8072.7	8252.4	0.0	0.5	884
5524.0	5722.0	4683.7	5791.8	0.0	0.8	57
368536.5	357288.9	381185.3	372530.0	0.0	0.4	437
6666.0	5057.5	5973.7	6332.1	0.0	0.8	764
11045.7	10856.8	11343.7	11325.0	0.0	0.6	4909;6275
6015.0	5362.3	5885.6	5301.7	0.0	0.7	275
4202.9	3999.2	4226.2	3771.8	0.0	0.7	103
6776.3	7298.2	7140.9	7436.1	0.0	0.7	102
9258.3	8569.6	9871.3	8469.1	0.0	0.7	54
18125.5	18949.0	17740.6	19538.0	0.0	0.7	943
10791.2	11519.9	10669.6	10226.0	0.0	0.6	99
9776.9	9872.7	10501.8	8696.6	0.0	0.7	431
108071.8	110260.0	111203.1	110570.0	0.0	0.4	299
11267.1	10991.5	11520.0	10552.0	0.0	0.6	206



Mcoln1	0.984579	9.17E-21	100.97	RGS(0.985)GS(0.015)TCSLLCCCGR	3	-1.0905	57228.3	60173.5
Akap12	0.942354	7.94E-84	134.91	GPLEAPQDGEAEEGT(0.012)T(0.04	4	-0.43071	122428.5	119454.0
Rad18	1	0.0439888	46.352	EVS(1)PQQNR	2	2.3298	10633.0	9561.9
Cttnbp2nl	0.866085	1.06E-06	66.246	VS(0.132)S(0.866)PLS(0.001)PLS(0	2	1.5359	15320.0	16452.6
Dock6	0.976088	5.01E-21	100.97	S(0.024)HS(0.976)WVNSAYAPGGS	4	0.21866	29282.7	24224.3
Nefh	0.72151	1.05E-127	162.58	GAGAAS(0.019)S(0.115)T(0.722)D	4	-0.64782	46489.5	45575.7
Cyba	1	5.88E-05	90.707	ERPQVGGT(1)IK	3	-1.6648	65504.3	66482.9
Nfatc2	0.813724	0.014479	63.694	T(0.814)S(0.183)PIMS(0.004)PR	2	0.060046	24470.2	26143.9
Hnrnpa1	0.729427	2.41E-08	60.708	S(0.729)S(0.25)GPY(0.015)GGGGC	3	2.821	17448.9	18605.9
Kiaa1671	0.712069	2.00E-09	60.253	AQEQQDS(0.712)PT(0.287)EPSGSI	3	0.17754	5876.5	5427.2
Ncoa5	1	0.00460154	44.639	DRS(1)PIRGS(1)PR	3	-0.0076302	14427.8	15103.4
Pcif1	0.963233	3.19E-10	84.046	QLS(0.963)EEQPS(0.037)GNGVK	3	-0.92745	8907.9	8370.2
Camk2b	0.884384	1.14E-80	107.39	RSGTPEAEGLPVGPVPPCPS(0.884	4	0.35125	110053.3	112225.4
Cdc42bpa	0.96097	5.43E-08	58.079	VTAGPT(0.039)S(0.961)LDLDVNV(	3	0.39465	2470.3	2382.8
Crk	0.764391	3.14E-54	85.412	VSHYIINSSGPRPPVPPS(0.054)PAQ	4	-0.76827	33584.7	32314.0
Mast4	0.810397	2.14E-06	64.52	T(0.81)PS(0.153)PT(0.036)PQPTSP	2	1.7697	5332.0	5550.8
Mpond	0.732071	5.03E-58	104.72	S(0.193)GS(0.732)LGGS(0.075)GG	3	-0.29212	12062.8	12503.7
Srsf10	0.761382	0.00797166	79.986	NVYS(0.761)S(0.238)SR	2	0.22363	19140.1	20762.4
Prune2	0.999983	1.43E-223	226.81	IISTSSGSGHDS(1)GGEEELLEKELHL/	4	0.7059	242257.1	234915.3
Sncg	1	3.81E-28	140.96	EQEEGEEAKS(1)GGD	2	0.087527	65564.0	56700.6
Wrnip1	1	0.000911195	56.569	GPS(1)PPGAK	2	-0.19338	88185.5	86698.0
Irf9	0.99996	8.16E-23	130.72	SISSVS(1)PER	2	-1.9015	209637.3	199616.6
Kank4	0.766032	6.47E-79	129.27	ESPVPPS(0.117)S(0.766)T(0.117)P	3	0.058805	241744.2	246981.3
LOC68141	0.562911	3.07E-05	46.543	LFIGGLNVQT(0.094)S(0.343)ES(0.5	3	-0.36728	1087.5	1048.0
Cep44	0.746741	6.00E-05	56.339	S(0.747)IS(0.25)EKPEPCS(0.001)S(	3	-0.076877	20843.3	19255.2
Ldha	0.68548	0.000133954	88.275	VT(0.315)LT(0.685)PDEEAR	2	0.94646	11726.2	13222.2
Champ1	0.968786	2.22E-10	59.628	RPT(0.012)PAVS(0.969)PGS(0.019	4	1.5365	17961.8	17380.6
Ttbk2	0.865775	1.09E-08	57.735	S(0.032)PGS(0.125)PHNPKT(0.977	4	0.2078	24005.1	25249.9
Ttbk2	0.976641	1.09E-08	57.735	S(0.032)PGS(0.125)PHNPKT(0.977	4	0.2078	24005.1	25249.9
Srp72	0.70761	5.14E-105	149.88	T(0.037)VS(0.708)S(0.191)PPT(0.0	3	-0.076595	78226.7	76128.1
Ssh1	1	4.50E-09	98.337	RLS(1)DPLLLPHR	3	-0.061534	6000.3	7065.6
Uaca	1	6.81E-33	98.684	EHHS(1)FQDLEMENEDLKEK	5	-0.0055764	27315.9	27704.8
Eif4g3	0.62262	2.79E-157	174.28	T(0.623)RT(0.377)PDEVLEAEAEPK	4	-0.10855	113250.9	112850.6
Sipa112	0.70235	3.32E-22	147.24	EYGS(0.291)T(0.702)S(0.006)SIDR	2	0.29621	10977.1	11500.1

60094.8	54371.0	60647.7	58881.0	0.0	0.6	557
122401.9	115660.8	120927.7	120320.0	0.0	0.3	585
11838.8	10226.3	9461.0	11698.0	0.0	0.8	449
16789.4	16385.0	14590.2	16604.0	0.0	0.7	556
28728.3	26142.7	26209.6	28219.0	0.0	0.8	913
46194.8	45071.9	45332.9	45058.0	0.0	0.0	74;74
77957.3	66579.5	67578.9	71539.0	0.0	0.8	147
23860.8	27183.3	22591.1	23194.0	0.0	0.8	218
18057.4	17079.1	19189.6	16749.0	0.0	0.7	285
5275.3	5393.1	5826.1	5024.4	0.0	0.7	1196
12701.2	12233.8	14270.7	14874.0	0.0	0.8	34
9169.8	7876.0	9725.1	8312.2	0.0	0.8	116
107603.4	107977.5	103058.9	112180.0	0.0	0.5	522;507;498
2352.3	2153.6	2526.4	2380.1	0.0	0.7	424
31420.8	31954.9	33876.0	29526.0	0.0	0.7	83
5496.2	5205.7	5804.6	5038.6	0.0	0.7	1121
12407.3	11711.3	12495.7	12022.0	0.0	0.4	41
20463.5	18172.4	20354.5	20623.0	0.0	0.7	106
248434.2	231442.5	243351.6	236200.0	0.0	0.4	1438
70734.8	57632.4	63589.7	67891.0	0.0	0.8	120
81266.3	81549.9	84778.7	84668.0	0.0	0.5	65
212875.2	193955.9	218249.1	197410.0	0.0	0.7	139
243217.5	228219.6	247241.5	241770.0	0.0	0.5	636
1169.0	1019.8	1233.1	985.1	0.0	0.8	21
22012.5	18576.1	21406.0	20881.0	0.0	0.7	88
11737.7	11486.9	12710.5	11752.0	0.0	0.7	309
15223.3	16159.5	16557.6	16834.0	0.0	0.7	298
22617.3	22650.4	23670.5	24110.0	0.0	0.6	1072
22617.3	22650.4	23670.5	24110.0	0.0	0.6	1068
74828.4	76809.1	76657.0	71126.0	0.0	0.5	556
6123.0	6161.4	5809.9	6833.2	0.0	0.8	376
28009.7	26085.5	27435.3	27848.0	0.0	0.4	282
109349.4	109498.8	112303.8	106940.0	0.0	0.3	548
11148.9	11537.5	10226.2	11190.0	0.0	0.6	196

Ppp1r2	0.963258	5.15E-21	100.77	TSTTS(0.001)S(0.035)VVAS(0.963)	3	2.3821	5104.4	7054.4
Cadm4	0.999987	8.23E-188	218.42	GSYLTHEAS(1)GLDEQGEAR	3	-1.2323	188025.9	202293.0
Rbm17	1	4.16E-47	141.07	RPDPDS(1)DEDEDYERER	3	0.078885	113438.1	117337.0
Ncoa1	0.836255	4.16E-14	78.95	KGS(0.129)PCDT(0.836)LAS(0.027	3	-0.60537	38341.1	41245.1
Nefl	0.598373	2.44E-58	104.18	AFPAYYTSHVQEEQS(0.402)EVEET(	4	0.14192	26584.8	25710.6
Slc44a1	0.752593	0.00509101	42.242	ELKPMAS(0.023)GAS(0.753)S(0.22	2	-1.3528	18689.3	19313.4
Xpo6	0.580666	9.42E-32	72.105	HS(0.002)VT(0.017)AAT(0.673)PPI	4	0.72961	10836.0	10784.3
Xpo6	0.672859	9.42E-32	72.105	HS(0.002)VT(0.017)AAT(0.673)PPI	4	0.72961	10836.0	10784.3
RGD13071	0.613387	0.00442921	68.436	S(0.182)LS(0.115)GT(0.613)AT(0.0	2	-0.63923	16469.7	15435.8
Sh3pxd2a	0.997443	0.000168002	93.325	S(0.003)AS(0.997)DAGIR	2	-0.9693	50251.2	47523.8
Uhrf1bp1l	0.600089	4.21E-26	76.446	DHNLGS(0.995)PPKS(0.268)PT(0.7	5	-0.019526	21515.9	20554.0
LOC10369	1	0.0146657	56.916	RS(1)LMNEK	3	-0.0050466	15518.0	14372.9
Eif5b	0.959927	6.04E-33	98.957	KT(0.039)S(0.96)FDENDS(0.001)EE	5	0.22478	72675.9	74488.2
Akt1	0.996993	2.31E-46	105.63	S(0.035)GS(0.149)PS(0.82)DNS(0.9	4	-0.56608	107131.2	117501.5
Thumpd2	0.960349	0.00105012	61.989	ASAS(0.001)GLS(0.96)PS(0.038)R	2	2.2688	10071.2	10495.1
Ddx10	0.954	2.40E-09	80.738	APS(0.954)LT(0.045)S(0.001)DEVE	3	0.53182	38465.1	38541.2
LOC68482	0.796831	0.00141461	75.416	KT(0.006)S(0.797)S(0.197)AAGK	3	-0.37454	22938.8	25559.2
LOC68372	0.992882	1.77E-42	88.186	IGS(0.002)LGLGS(0.993)GEDEDY(C	3	-2.5491	18504.4	21203.4
Adgrl2	0.993382	3.48E-05	56.514	GNS(0.993)DGY(0.007)IIPINK	3	0.67386	3263.4	2691.0
Reps2	0.601104	2.68E-07	79.886	S(0.008)YS(0.291)S(0.601)T(0.096	3	-0.75087	7006.0	6879.7
Ugdh	0.999946	7.37E-06	72.891	RIPYT(1)PGEIPK	3	-0.44366	19342.9	16843.1
Itsn1	0.874195	1.62E-30	122.96	LPEEPS(0.126)S(0.874)EDEQQVEK	3	0.047654	126269.0	124554.7
Atl1	0.999989	3.93E-09	98.421	DRNS(1)WGGFSEK	2	-0.080467	71109.9	60049.5
Hdac4	0.999987	4.50E-29	116.39	QEPIES(1)EEEEVEATR	2	-0.051463	23316.9	23964.3
Ralgapa1	0.873114	1.12E-14	121.48	RGS(0.873)S(0.127)PGSLEIPK	2	0.88636	125362.5	126320.7
Chrm2	0.96441	9.59E-20	76.693	KEPVANQDPVS(0.964)PS(0.036)LV	4	-0.13372	40132.5	43108.8
Rtn4	0.67997	4.39E-12	49.354	KPAAGLS(0.001)AAAVPPAAAPLL	5	0.4826	8213.5	8801.0
Ptbp3	0.5	0.00117688	54.276	GDRPPCS(0.5)PS(0.5)R	3	0.54585	4320.1	4068.9
Sec23ip	0.932542	2.66E-15	86.575	T(0.008)KEMAS(0.933)PS(0.056)S(	3	0.17734	26236.6	27324.1
Cic	0.85619	1.43E-22	65.378	FAELPEFRPEEVLPSPT(0.002)LQS(0	4	-1.0127	10323.5	9666.6
Mtor	0.649957	6.31E-07	98.105	LHVS(0.35)T(0.65)INLQK	2	0.92561	12477.8	11233.5
Tjp1	0.615093	3.51E-18	76.068	DDIS(0.001)EIQS(0.362)LAS(0.615	3	-3.5829	12830.8	13442.7
Tmcc2	0.83308	7.33E-21	122.33	ALS(0.004)GS(0.153)AT(0.833)LVS	3	-0.34919	18760.8	18603.7
RGD13054	0.802087	9.21E-18	74.505	S(0.802)S(0.186)FS(0.011)EGQTVF	3	-2.7246	15578.8	16817.9

6556.0	6055.4	6417.3	5868.2	0.0	0.8	28
190272.8	186091.2	192163.5	190740.0	0.0	0.5	361
116897.7	110535.0	118726.3	111470.0	0.0	0.5	155
41685.0	36828.9	40112.6	41910.0	0.0	0.7	26
27336.8	26868.7	24794.7	26380.0	0.0	0.5	458
20032.3	18363.8	18849.8	19664.0	0.0	0.5	654
9614.9	10664.3	9425.1	10523.0	0.0	0.7	208
9614.9	10664.3	9425.1	10523.0	0.0	0.7	204
14286.4	14432.6	15233.5	15605.0	0.0	0.7	3804
49686.8	49018.6	47278.9	48225.0	0.0	0.4	670
21454.7	20443.9	20247.6	21567.0	0.0	0.5	427
15421.3	13969.5	14986.7	15453.0	0.0	0.6	122
73757.3	73138.5	70190.7	73190.0	0.0	0.3	108
109030.0	98576.2	116888.3	111550.0	0.0	0.7	129
10473.5	10717.3	10280.8	9423.4	0.0	0.6	492
39804.8	36066.6	40123.3	38295.0	0.0	0.6	540
29406.5	24484.0	23152.2	28717.0	0.0	0.8	28
19549.0	20835.4	18486.5	18755.0	0.0	0.7	311
2926.4	2597.2	3311.0	2795.8	0.0	0.8	1391
7656.3	6799.3	6903.5	7411.0	0.0	0.7	326;452
18423.6	17028.5	17573.8	18922.0	0.0	0.7	474
126777.6	117134.7	122605.5	130360.0	0.0	0.6	335
65546.8	65677.5	64142.1	62981.0	0.0	0.7	10
22608.7	21664.8	22037.6	24800.0	0.0	0.7	541
123115.2	120973.6	120885.0	125510.0	0.0	0.2	859
42131.1	42024.0	42331.1	38533.0	0.0	0.6	232
7789.2	7264.6	8510.7	8537.0	0.0	0.8	82;228
3964.3	3995.8	3977.4	4135.4	0.0	0.5	26
24547.5	24992.2	26858.2	24711.0	0.0	0.6	454
9700.2	9954.4	9687.3	9460.7	0.0	0.5	2286
10435.1	11486.9	10644.5	11339.0	0.0	0.7	1262
14430.2	12826.6	13099.4	13973.0	0.0	0.7	443
17005.5	17507.0	18578.4	17210.0	0.0	0.6	405
20853.1	16479.6	17303.5	18415.0	0.0	0.8	335

Wdr44	0.999312	6.18E-07	64.52	HLT(0.999)PEPDIVAS(0.001)TK	3	0.84021	7043.5	8305.8
Zeb1	0.753784	7.17E-11	64.298	S(0.003)CT(0.042)S(0.165)S(0.754	3	-0.1841	19705.5	19639.2
Hars	0.999937	1.91E-06	53.625	EQKAS(1)AEQIEEEVTK	4	-0.74673	31532.1	32595.9
Srrm1	1	4.90E-07	93.345	T(1)AS(1)PPPPPKR	3	-0.51382	405248.6	430089.3
Stard13	0.81759	2.78E-12	67.136	KKGDDS(0.182)DEEDLCIS(0.818)N	5	-0.23688	15721.9	16423.0
Nol4l	0.99961	3.08E-61	156.73	STPES(1)PPYSSGSYDSIK	3	0.50936	57155.6	58762.8
Dennd4a	0.928484	1.36E-30	104.81	LPSKPS(0.001)S(0.012)PGS(0.928)	4	-1.3662	56336.2	59360.6
LOC68517	0.961039	2.09E-10	88.565	KRS(0.996)PS(0.961)PS(0.042)PTP	3	-0.11094	191138.8	191301.9
Trip12	0.999942	3.92E-05	110.93	RSAS(1)PDYNR	2	-1.2677	28980.9	27834.2
Otud5	1	1.52E-19	76.059	AS(1)PPPQGPLPGPPGALHR	3	-0.018889	32709.2	31750.2
Srrm2	0.730228	6.44E-08	89.43	HS(0.001)HS(0.109)GS(0.73)T(0.0	3	-0.030191	12257.2	14455.1
Kif1c	0.999997	9.65E-06	122.18	RNS(1)LDGGSR	2	0.14357	12964.4	13291.3
Srsf2	0.999976	5.02E-09	95.981	YGRPPDSHHS(1)R	3	0.15092	23940.7	25924.5
Rpl34	0.967026	1.11E-06	86.592	RLS(0.028)YNT(0.967)AS(0.005)N	3	0.34717	15797.0	14558.3
LOC10091	0.997476	4.97E-05	90.434	IPS(0.002)AS(0.997)PQT(0.001)QF	2	0.29005	13259.0	13387.8
LOC68372	0.861422	1.68E-19	63.225	GPTSVEGALDLS(0.861)DGHPPS(0.1	4	0.78984	20407.9	23562.8
Slc5a3	0.726137	5.26E-09	77.776	ES(0.003)CS(0.726)QKDEPY(0.271	3	-0.76441	34110.6	38955.8
Ncor2	1	1.66E-12	86.014	T(1)PELPLAPRPLK	3	0.32745	22587.0	20279.8
Nefm	0.986959	4.59E-57	100.76	GSGQEEEEKGVVT(0.987)NGLDVS(0	3	-4.4284	91106.4	90950.7
Ssr3	1	3.16E-33	136.35	QQS(1)EEDLLLQDFSR	3	-0.25609	56306.4	56170.8
Cttnbp2nl	0.568595	4.39E-08	69.045	DLS(0.431)PT(0.569)LLDNSAAK	3	0.75134	13839.9	12524.6
Wiz	0.953843	5.10E-14	79.489	S(0.007)PQLS(0.04)LS(0.954)PRPT	3	0.36111	17420.3	16714.8
Wiz	0.590919	7.35E-15	79.92	S(0.007)PQLS(0.04)LS(0.954)PRPT	3	0.36111	17420.3	16714.8
Map1b	0.948947	3.60E-149	191.65	DVMSDETNNNEET(0.018)ES(0.949)	3	-1.0858	334331.9	318006.6
Cdk11b	0.999913	0.0138657	73.233	EYGS(1)PLK	2	-0.040096	95552.7	104132.3
Btf3	0.99699	0.0178817	71.03	T(0.003)AT(0.997)ADDKK	2	-0.62371	14658.0	11810.5
Tp53bp1	0.720933	6.72E-24	66.419	S(0.211)DS(0.721)PEIPFQAAT(0.0	3	0.12384	20993.5	20763.5
Zmynd8	0.5	0.001632	53.6	LNFDMT(0.5)AS(0.5)PK	3	0.29527	4435.0	3910.3
Psm2	0.884456	2.51E-07	54.768	GYS(0.884)FS(0.108)LT(0.006)T(0.	3	0.73485	8723.9	7413.1
Pdzn3	0.987853	1.91E-16	106.38	S(0.988)PT(0.012)AS(0.001)PK	2	-1.729	55309.3	48741.4
Map1b	0.984748	8.90E-70	163.85	TIKS(0.008)PCDS(0.985)GYS(0.007	2	-1.0575	863774.3	896168.4
Smchd1	0.87019	3.17E-05	68.548	CS(0.082)DS(0.87)LCLS(0.047)PK	3	0.39074	10522.8	10937.6
Fam122a	0.929772	4.59E-12	82.765	RIDFIPVS(0.003)PAPS(0.93)PT(0.0	2	0.30775	42758.8	40463.0
Rnmt	0.994913	3.82E-39	121.4	GGGS(0.995)EDEPS(0.005)PGGLTE	3	0.77008	59224.9	61156.3

7127.5	7052.4	7942.3	7038.6	0.0	0.8	221;221
19860.9	19604.6	18273.8	20159.0	0.0	0.5	682
28429.1	28756.2	29244.5	32731.0	0.0	0.7	27
415433.9	392982.6	415413.9	417730.0	0.0	0.5	551
16190.0	15950.5	16053.2	15379.0	0.0	0.3	23
54116.8	55028.8	57510.1	54147.0	0.0	0.5	130
53743.1	55012.3	57748.4	53343.0	0.0	0.6	732
176783.8	177027.5	184661.7	186530.0	0.0	0.5	188
27712.6	26855.5	28950.6	27059.0	0.0	0.5	77
33835.4	32996.6	31949.2	31416.0	0.0	0.4	137
11229.8	13428.3	11064.7	12703.0	0.0	0.8	964
12963.1	12517.5	12814.1	13116.0	0.0	0.3	1028
23662.7	23646.9	24009.2	24426.0	0.0	0.6	101
14527.0	14688.9	14261.1	15050.0	0.0	0.6	15
14548.3	13287.5	13888.1	13210.0	0.0	0.6	999
21404.6	22333.6	20763.8	20994.0	0.0	0.7	152
38173.8	33091.2	37903.7	38062.0	0.0	0.8	559
22457.6	21344.7	20775.5	21922.0	0.0	0.6	1407
93750.2	88312.5	94841.1	87242.0	0.0	0.5	760
53798.5	53536.1	54731.7	54746.0	0.0	0.3	11
14071.4	13244.6	13841.1	12557.0	0.0	0.7	490
18253.3	17042.8	17005.3	17313.0	0.0	0.5	323
18253.3	17042.8	17005.3	17313.0	0.0	0.5	327
369303.0	328206.0	340106.6	333300.0	0.0	0.7	1022
112841.4	104161.8	89659.2	112580.0	0.0	0.8	544
14223.6	12872.8	12843.0	14179.0	0.0	0.8	38
22839.8	21425.0	20429.3	21477.0	0.0	0.6	1422
3992.7	3932.2	3994.7	4169.5	0.0	0.7	399
8081.5	7507.9	8244.2	7993.3	0.0	0.7	7
52833.9	48713.9	54279.6	50829.0	0.0	0.7	845
948276.6	845077.0	932049.8	878260.0	0.0	0.6	1912;1786
10160.4	10083.3	10404.6	10516.0	0.0	0.5	1970
42752.8	42653.1	39549.4	41315.0	0.0	0.5	146
55236.8	53913.4	60152.9	58127.0	0.0	0.7	94



C2cd5	0.99973	2.94E-30	124.62	STHNS(1)PIHTATGSR	3	-0.91054	25593.7	28570.2
Agps	0.967814	2.26E-25	73.072	AAS(0.002)AAGAS(0.968)PAAS(0.002)	4	-1.3758	119852.4	118192.6
Mon1a	0.927904	1.14E-21	72.474	EAS(0.065)GDS(0.928)PKEY(0.004)	3	2.9812	20738.3	22004.1
Cobl1	0.667502	8.23E-31	88.239	S(0.165)NT(0.668)IS(0.165)KPYISN	4	1.4343	7894.0	9373.9
Map2	0.97595	6.42E-122	194.19	ET(0.011)S(0.976)PET(0.013)SLIQE	2	-1.2973	326448.3	325926.3
Parva	0.946859	1.35E-06	84.753	SPSVPKS(0.053)PT(0.947)PK	4	0.39723	80872.0	72811.0
Lmnb1	0.931351	0.000920638	87.123	LS(0.002)PS(0.931)PS(0.066)SR	2	-0.58851	31013.2	31384.9
Kmt2d	1	2.27E-06	89.663	ALS(1)PVIPIPR	2	0.3417	9325.8	9712.4
Ehbp1	0.999998	5.05E-51	154.34	QRS(1)IQEDTERGDEEK	4	-0.17266	110068.8	104266.1
RGD15604	0.998937	1.72E-26	110.12	VALAAGS(0.999)PT(0.001)RPPPAR	4	0.82812	31013.2	32893.2
Mark3	0.587526	0.00177835	74.464	S(0.412)T(0.588)FHGQPR	3	0.29294	3455.0	3289.4
LOC68482	1	0.0236509	54.539	KAACS(1)PAK	3	0.062503	117141.4	113037.1
Brsk1	0.757525	1.66E-32	97.08	SVSGAST(0.003)GLS(0.014)S(0.205)	3	-1.375	55032.6	54847.9
Tbc1d9b	0.846004	3.14E-15	78.95	QFS(0.004)T(0.021)S(0.129)S(0.84)	3	0.53769	20642.9	21404.1
Rab34	0.907349	2.81E-10	68.044	INS(0.037)DDKNLY(0.907)LT(0.055)	3	0.65425	59294.1	55899.9
Tbc1d4	0.708633	6.54E-10	56.131	T(0.014)S(0.014)S(0.05)T(0.193)CS	3	-1.9333	26221.1	26985.2
Dmxl2	0.821229	1.01E-12	72.583	AS(0.821)T(0.178)QFS(0.001)FVYL	3	1.2248	6753.5	7371.5
Agps	0.999942	1.79E-57	100.7	RAAS(1)AAGASPAASPAAPESGTIPK	3	-0.42613	94027.3	90347.4
Pelo	0.987252	3.03E-17	94.958	KVQTESS(0.001)T(0.01)GS(0.987)\	3	-0.42587	6343.4	6497.9
Hacd3	1	8.29E-18	137.93	WLDES(1)DAEMELR	3	-0.17899	590304.8	603171.5
Stip1	1	0.000297712	86.014	HDS(1)PEDVKR	3	-0.76181	121879.9	120923.9
Synm	0.597539	2.83E-12	70.197	SEVSTIHLQS(0.598)S(0.402)GRK	3	-0.56964	15659.9	15318.4
Camlg	0.999816	1.02E-09	87.363	GS(1)HHGLEQYLSR	3	0.49924	7502.6	7535.7
Mrgprd	0.805301	0.0122252	41.242	ET(0.031)PS(0.805)T(0.162)CT(0.0	2	-0.13421	13762.3	14377.3
Suco	0.835272	0.0071506	84.368	T(0.835)S(0.165)FPLIR	2	-0.058698	2462.3	2644.1
Slc4a4	0.842655	1.52E-34	84.327	GS(0.002)LDS(0.141)DNDDEKDPQ	4	-0.2048	20102.6	19009.5
Cobl	0.636796	0.000401213	47.506	S(0.169)S(0.194)LGNDDET(0.637)DI	3	-0.83571	19299.9	18948.1
Sec16a	0.780383	2.71E-16	57.088	VVSSTVS(0.001)APGPELS(0.78)PS(	4	0.9466	21081.8	20129.5
Rims2	0.629051	3.31E-42	107.98	IPDSTHAQLES(0.007)S(0.025)S(0.1	3	-0.9894	22802.8	20707.6
Srrm2	0.957689	0.00745937	63.401	S(0.958)RT(0.891)S(0.147)PVT(0.0	2	-0.43466	64155.4	65466.1
Srsf4	0.968079	1.13E-12	73.448	ARS(0.999)RS(0.968)T(0.025)S(0.0	3	1.092	50277.4	51240.2
Aldoc	0.986661	2.29E-25	110.35	GILAADES(0.987)VGS(0.013)MAK	2	-0.43833	55013.5	55067.3
Adgrb3	0.998995	5.24E-23	62.345	IS(0.999)LNDEEEKGT(0.001)NPEE	4	0.21515	21232.1	19760.9
Gatad2b	0.901671	0.0118801	47.894	S(0.043)S(0.055)S(0.902)RMEER	2	-0.49719	5518.3	5387.9



27175.0	26620.1	25869.7	27263.0	0.0	0.6	284
125670.3	110886.9	121130.8	124610.0	0.0	0.6	82
20787.1	19870.8	21814.2	20607.0	0.0	0.6	72
8040.8	8242.2	8741.8	7831.7	0.0	0.8	307
300080.0	328140.0	308314.4	297450.0	0.0	0.6	1244;1158
76207.1	74910.6	77583.5	72922.0	0.0	0.6	16
32463.1	30795.6	30630.5	31589.0	0.0	0.3	393;403
8458.0	9159.4	8835.0	8967.1	0.0	0.7	4722
104892.8	102764.8	104916.3	105340.0	0.0	0.4	973;1009
31852.0	29986.0	31855.2	32056.0	0.0	0.5	854
3061.2	3224.3	3166.1	3224.6	0.0	0.6	564
110957.0	114329.8	102113.2	118070.0	0.0	0.7	188
53508.9	52449.4	53468.5	54300.0	0.0	0.2	353
21557.9	19590.3	21875.1	20905.0	0.0	0.6	1219
59785.0	57964.6	58762.6	54856.0	0.0	0.5	247
27628.5	25140.7	24442.0	29684.0	0.0	0.8	574
5958.8	6252.8	7404.1	6038.0	0.0	0.8	203;221
93966.4	88117.8	94363.4	90473.0	0.0	0.5	77
6341.9	6201.1	6233.2	6377.6	0.0	0.2	55
590099.1	576477.9	576479.9	596150.0	0.0	0.2	114
122359.3	115011.8	121280.4	121820.0	0.0	0.4	481
17283.4	14661.4	17755.5	14914.0	0.0	0.8	596;596
7347.2	8151.3	6564.9	7237.8	0.0	0.8	146;147
13997.9	14382.0	14361.5	12582.0	0.0	0.7	312
2500.0	2316.3	2372.8	2770.7	0.0	0.8	1065
20470.9	17380.5	18418.1	22637.0	0.0	0.8	1040
19724.6	19063.4	17589.9	20203.0	0.0	0.7	225;225
19899.2	20343.8	19748.5	19842.0	0.0	0.4	2286
22553.4	20414.2	22317.6	22061.0	0.0	0.7	505
64045.7	62853.9	64519.4	62568.0	0.0	0.2	1928
45968.0	46956.2	50820.4	46873.0	0.0	0.7	440
52437.9	51170.1	54626.9	53597.0	0.0	0.5	36
21594.1	21291.9	20205.9	19886.0	0.0	0.6	1220
5434.7	4844.3	5311.2	5872.0	0.0	0.7	140

Map1a	1	9.99E-27	113.54	GPDS(1)GAEVEKEK	3	-0.34313	97710.3	100880.0
Samd4b	0.862407	6.57E-07	51.39	QNLWFANPGGS(0.12)NS(0.862)M	3	1.3013	8785.4	8192.0
Phf2	0.992836	4.50E-13	74.029	EKEEPPS(0.993)PIES(0.006)T(0.00	3	1.6659	15943.7	20039.5
Trim2	0.973826	2.44E-09	51.473	T(0.974)PGS(0.025)NGEDPSILQTV	4	0.25644	9534.4	8739.6
Strip1	0.999891	7.95E-177	219.95	AAS(1)PPASASDLIEQQQK	2	-0.11259	118146.8	118203.5
Dnajb6	0.879462	1.34E-09	46.259	VPS(0.06)QARPPT(0.879)PAPT(0.C	4	-0.11178	19385.8	19651.2
Ap3b1	0.998352	0.00010338	85.355	S(0.002)AS(0.998)EDREK	2	0.4313	48438.3	48074.5
Csdc2	0.527088	0.00498886	88.177	T(0.001)YS(0.527)AT(0.472)AR	2	-0.26642	38949.3	43100.0
Myl12b	0.834408	1.85E-30	86.557	AT(0.166)S(0.834)NVFAMFDQSQI	4	-0.90871	30909.5	24487.5
Prpsap2	0.999939	6.44E-119	159.89	LGIAVIHGEAQDAES(1)DLVDGRHSF	5	-1.0597	207514.3	208534.5
Drp2	0.944158	8.52E-06	48.423	EKGQT(0.015)T(0.04)PDT(0.944)E	3	-0.15897	22340.1	25483.5
RGD15623	0.999912	3.07E-15	79.332	FASVFQPLPPDS(1)PR	3	0.39927	31105.1	30037.9
Vcl	0.999856	5.25E-13	75.682	ALASQLQDS(1)LKDLK	4	0.66614	43439.8	43373.1
Mark2	0.643631	0.000500757	57.164	S(0.109)MS(0.644)AS(0.247)VHPN	3	0.22633	13020.5	13870.5
Mast3	0.596863	1.03E-83	122.06	DS(0.235)S(0.597)PS(0.127)RDPS(	5	-1.1913	18387.5	18385.4
Ankhd1	1	3.79E-08	90.689	DAES(1)PPQQCSHR	3	-1.2318	11521.3	10754.6
Etl4	0.999966	1.53E-25	73.383	CPPEEPAPACVPS(1)PPPVPASSSK	4	-1.2144	17952.2	17178.8
Bag6	0.999991	9.14E-08	76.728	LQEDPNYS(1)PQR	2	0.50712	31553.5	29227.3
Rab5c	1	8.77E-08	59.252	QAS(1)PNIVIALAGNK	3	-1.0857	15689.7	13829.9
Synpo2	0.553366	1.28E-12	74.428	CT(0.553)S(0.447)DPIVTLLGNEK	3	-0.95635	11978.1	11776.5
Mylk2	0.975637	3.12E-20	73.672	RGS(0.993)PAFLHS(0.016)PS(0.97	5	0.28198	27759.6	28435.3
Nek1	0.999222	4.78E-05	76.228	SHS(0.001)DS(0.999)PPKAK	4	-0.10295	58138.4	56891.5
Prpf38a	1	0.0078683	78.149	VPS(1)PDHR	2	0.33464	42033.6	45709.5
Mapk4	0.59529	0.00117462	49.28	GYLS(0.595)EGLVT(0.405)K	3	0.40393	12964.4	15367.8
RGD13048	0.999486	1.06E-30	124.29	TVT(0.001)VIS(0.999)PEDEQKGEK	4	0.1504	264250.1	248944.8
Bclaf1	0.999821	1.18E-05	61.127	GSRES(1)DGFREEK	4	0.36098	29669.1	30255.1
Slmap	0.92665	2.05E-29	116	AKESDLS(0.001)DT(0.052)LS(0.92	4	0.11757	17556.2	17150.3
Pdap1	0.994745	3.32E-59	143.93	KSLDS(0.003)DES(0.995)EDEDDDY	4	-0.60099	120269.8	112137.6
Mpp6	0.519563	3.17E-71	104.53	CYES(0.381)PPS(0.52)S(0.1)PEMN	3	-0.10003	9221.6	8551.4
Limch1	0.790423	7.63E-27	101.17	CS(0.081)PT(0.79)VALVEFS(0.043)	2	-1.1069	18707.2	17465.1
Scml4	0.933404	0.0439465	50.034	LPAS(0.067)S(0.933)PKR	2	-0.18735	19538.5	20607.7
Cdk12	1	3.72E-05	91.313	AIT(1)PPQQPYK	2	0.29051	49584.5	49677.1
Inpp5b	0.999988	3.11E-13	103.14	CAESEAES(1)PKPR	3	-0.47227	26287.8	23636.3
Use1	0.837297	4.10E-05	83.204	DNQT(0.001)LS(0.162)HS(0.837)LI	3	0.6678	13021.7	13911.1

102228.0	96712.9	96158.7	102180.0	0.0	0.5	849
8563.0	8282.9	8596.0	8172.0	0.0	0.5	621
19025.2	16077.0	18033.4	19844.0	0.0	0.8	357
8701.6	9389.1	8292.6	8777.4	0.0	0.7	110
117515.2	113537.8	116685.2	116870.0	0.0	0.1	390
19091.2	18579.4	18814.5	19622.0	0.0	0.4	272
47756.6	46751.6	47447.8	47310.0	0.0	0.0	756
35242.8	38741.7	39898.9	36410.0	0.0	0.8	59
22507.6	25973.3	24091.5	26351.0	0.0	0.9	20;20;20
209223.4	205219.5	201824.1	206280.0	0.0	0.0	133
24833.8	21806.7	24644.0	24820.0	0.0	0.8	835
30126.2	31285.1	29322.5	28920.0	0.0	0.5	118
40118.9	40317.9	41458.0	42734.0	0.0	0.6	579
12586.2	12630.8	13337.7	12756.0	0.0	0.6	532
18120.2	16702.9	17838.9	19306.0	0.0	0.7	929
11067.0	11062.3	11032.7	10613.0	0.0	0.5	861
18417.2	18228.5	16575.7	17725.0	0.0	0.6	963
27759.5	28961.9	28530.7	29363.0	0.0	0.6	1131
14260.9	14650.4	14092.2	14205.0	0.0	0.7	124
11392.7	11578.2	11580.9	11320.0	0.0	0.3	205
30368.9	26436.4	29553.3	28929.0	0.0	0.7	168
55862.8	54009.1	58981.7	54655.0	0.0	0.6	963
42259.9	41120.9	44046.3	42366.0	0.0	0.6	209
13495.4	12675.9	13973.6	14384.0	0.0	0.8	186
262061.6	248051.9	261005.6	251490.0	0.0	0.5	275
31780.6	28192.0	31183.0	30592.0	0.0	0.6	448
15827.0	15807.5	17786.5	15982.0	0.0	0.7	342
99271.5	107721.3	113564.8	104110.0	0.0	0.8	63
9585.0	8874.5	8676.3	9289.7	0.0	0.7	109
21630.3	18605.8	20386.5	17718.0	0.0	0.8	515;506
18047.8	20079.8	18673.5	18342.0	0.0	0.7	69
47002.9	46990.3	46560.8	49956.0	0.0	0.5	688;687;688
24287.7	24055.0	24287.1	24471.0	0.0	0.6	156
13722.2	13239.1	13035.3	13615.0	0.0	0.5	215

Npr2	0.817494	1.12E-06	63.473	GS(0.007)S(0.039)Y(0.001)GS(0.15	3	-1.3403	52367.0	51068.0
Ahnak	0.784408	4.68E-41	112	ASLGSLEGEAEAEET(0.016)S(0.2)S(0	3	0.36238	123537.7	121516.2
Synpo	0.619108	3.92E-17	60.219	VAS(0.133)LS(0.384)PART(0.468)P	5	-0.29141	5450.7	6035.8
Trio	0.812921	5.86E-11	67.646	NFLNALT(0.187)S(0.813)PIEYQR	3	1.2375	3177.4	3597.4
Phldb1	0.941785	0.0107048	66.617	KLS(0.942)S(0.058)GDLR	2	-0.25786	45665.3	45845.6
Gigyf2	0.99386	0.00578994	83.783	S(0.006)ES(0.994)ENWR	2	-3.3921	26253.3	25740.2
Apc	0.616416	9.83E-07	70.54	HS(0.343)S(0.616)PS(0.04)GT(0.00	3	1.4698	3854.5	3821.8
Fam120a	0.9309	9.91E-58	103.31	NLTEQNSY(0.028)S(0.931)NIPHEG	4	-0.38138	25280.0	30685.1
Map1a	0.969088	6.81E-101	135.7	FTDQS(0.031)LS(0.969)PEDAESLS\	5	0.36455	190113.1	194504.9
Adam22	0.919733	4.47E-06	60.307	SPSS(0.001)S(0.004)T(0.053)GS(0.	2	0.088619	8341.8	7672.8
Eif5b	1	2.90E-53	148.75	TSFDENDS(1)EELEDKDSK	3	-0.078923	133520.5	135019.2
Kat7	0.885192	0.00049367	49.487	NT(0.115)ADHDES(0.885)PPR	3	-0.045357	13744.4	15781.3
Las1l	0.992782	8.70E-15	77.505	GNEEVAS(0.007)HPELS(0.993)PR	3	0.075898	18263.5	18699.1
Inpp5f	0.999822	3.97E-07	118.28	IVPS(1)PDDSK	2	-0.60656	215445.6	275556.0
Tp53bp1	0.937714	7.26E-24	66.828	LQDDEAVDIEKPLLPS(0.938)QPAVS	4	0.72391	16061.8	15239.4
Copg1	0.770993	3.17E-15	58.812	SVPLAT(0.181)T(0.771)PMT(0.045	3	0.083205	15242.4	14841.3
Ajuba	0.993929	1.13E-05	78.529	LET(0.003)T(0.003)APALS(0.994)P	2	0.22854	52141.6	51960.9
Srrm1	1	0.00162918	65.252	RHS(1)PS(1)PRPR	3	-0.21981	6237.8	7183.7
Fam102b	0.958093	1.24E-05	89.561	S(0.019)S(0.019)S(0.958)FS(0.004)	3	0.059936	5585.2	6129.6
Sybu	0.913357	7.02E-15	56.854	VSPAS(0.003)ES(0.082)PFS(0.913)	3	-1.824	31548.8	30847.4
Tln1	1	4.84E-05	47.774	QELAVFCS(1)PEPPAK	3	0.89489	10479.0	12025.5
Utrn	0.955102	2.84E-09	79.337	NVRPQPPT(0.045)S(0.955)PEGR	2	-0.53965	4411.2	4946.8
Tns1	0.999954	1.11E-79	103.62	WDS(1)YDNFNHGHREDGMEEVVGH	5	-0.31505	18518.7	17898.4
RGD13048	0.97931	0.00575644	71.03	S(0.979)LDES(0.002)T(0.018)LR	2	0.27343	5594.0	5487.5
lqsec2	0.881595	8.88E-79	127.49	S(0.059)S(0.059)S(0.882)PGAGGG	3	-1.7959	44503.6	50261.7
Stmn3	0.549642	9.03E-28	101.92	SPSDL(0.003)PES(0.045)PVLS(0.4	2	0.068253	23925.2	23472.9
Hacd3	0.867657	8.71E-21	93.738	LES(0.132)EGS(0.868)PETLTNLKK	3	0.96365	18605.8	17584.6
Hecw2	0.990265	5.07E-26	111.63	QRS(0.99)HS(0.01)AGEVGEDSR	3	0.53783	6445.2	6157.2
Khsrp	0.671412	8.36E-32	89.663	LASQGDS(0.328)IGS(0.671)QLGPII	3	-0.94143	3149.5	3038.0
Wnk1	0.79595	2.17E-94	157.75	KEKPELAEPShLNGPS(0.204)S(0.79	4	2.0655	46862.8	47845.2
Nucks1	0.99999	6.25E-49	145.02	NSQEDS(1)EDS(1)EEKDVK	3	-0.30733	473696.5	443855.6
Cep104	0.998678	2.05E-12	68.41	HS(0.001)AVDRS(0.999)PPAAGPAI	3	-0.173	12352.6	12000.2
Rap1gap	0.739284	3.34E-51	110.25	T(0.739)PDS(0.257)GHVS(0.004)Q	3	-0.072882	21236.9	22003.0
Ttbk2	0.995648	0.00246774	97.741	S(0.003)S(0.001)S(0.996)PHLGR	2	-0.46979	12091.4	12185.6

49746.5	47609.6	50514.8	52173.0	0.0	0.6	529
138328.9	126154.4	120511.0	129500.0	0.0	0.7	5451
5839.7	5784.6	5051.1	6164.5	0.0	0.8	538
3366.4	3018.6	3559.8	3372.1	0.0	0.8	2243
48176.1	42288.0	48319.8	46453.0	0.0	0.7	564;621
24645.4	24693.0	25782.1	24723.0	0.0	0.5	202
4335.2	3883.8	4247.2	3654.9	0.0	0.8	2670
25748.4	27424.2	26847.5	25908.0	0.0	0.8	417
198438.6	182153.3	194001.6	195960.0	0.0	0.5	1372
8103.1	7693.6	8456.9	7514.7	0.0	0.7	919
138627.0	131929.2	129434.1	138170.0	0.0	0.4	114
13165.4	13812.2	13494.8	14584.0	0.0	0.8	125
19949.3	16427.9	19079.6	20338.0	0.0	0.8	201
251489.7	263759.3	219638.4	245190.0	0.0	0.8	123
15458.6	15923.0	15432.3	14529.0	0.0	0.6	426
15410.7	13639.5	15134.1	15869.0	0.0	0.7	584
51923.7	51482.5	51228.7	50398.0	0.0	0.0	129
6611.1	6748.4	7047.1	5862.7	0.0	0.8	618
5111.0	5466.7	5711.0	5333.5	0.0	0.8	228
35468.5	32066.0	30587.8	33382.0	0.0	0.7	54
10856.2	11044.7	11031.6	10661.0	0.0	0.7	2162
4249.6	4242.9	4022.8	5088.1	0.0	0.8	1405
18109.6	17617.0	17026.7	18866.0	0.0	0.6	511
4408.3	5205.6	4813.3	5182.1	0.0	0.8	127
46940.1	43452.8	49149.1	46461.0	0.0	0.7	214
24723.1	23289.4	23362.7	24125.0	0.0	0.4	73
16489.2	17645.6	17265.0	16788.0	0.0	0.6	138
6658.3	6234.7	6500.7	6167.3	0.0	0.5	1046
2914.6	2811.1	3431.1	2691.0	0.0	0.8	133
51644.7	45177.5	51725.6	46735.0	0.0	0.7	2255
501680.6	445989.7	475909.9	471030.0	0.0	0.7	58
12416.9	11631.0	12600.4	11857.0	0.0	0.5	362
24171.6	21526.2	21695.6	22941.0	0.0	0.7	612;620
13023.8	12420.7	12054.3	12135.0	0.0	0.5	1111

Srrm2	0.921689	0.000377013	77.185	S(0.922)LS(0.026)GS(0.005)S(0.04	2	-0.64819	40577.3	50531.6
Tanc2	0.814877	1.46E-05	45.735	VDENMAAS(0.031)T(0.103)Y(0.05	3	-0.81106	20722.8	21948.2
Nek3	0.999489	0.000110951	71.153	NAS(0.999)PAS(0.001)PHR	3	0.94069	3690.2	4289.9
Gemin5	0.992237	2.83E-14	110.35	APS(1)QPPS(0.992)PT(0.008)EER	3	0.17064	97311.9	103409.5
Copb2	0.868428	1.25E-76	111.09	ATAQQEPDGKPAS(0.112)S(0.868)	5	-0.15473	84773.3	89415.0
Caskin1	0.999918	3.21E-36	103.75	AQPGS(1)PQALGGPHGPATAK	4	0.17421	106726.9	114704.4
lkbkb	0.825004	1.83E-29	124.04	GPVS(0.172)GS(0.825)PDS(0.003)I	3	-0.60294	7265.3	7731.2
Snta1	1	1.77E-13	109.83	KADAGGLGIS(1)IK	2	-0.25092	67158.6	53794.9
Tmem55a	0.942842	5.11E-28	104.38	CTVCNEAT(0.042)PIKT(0.943)PPT(	3	0.4349	80362.7	81897.9
ltpkb	0.769805	2.12E-21	80.545	T(0.001)KS(0.007)WGEQCT(0.77)E	3	-0.29712	30617.3	29097.9
Deaf1	0.595768	7.12E-05	43.164	IVLT(0.001)S(0.004)LPALAVPPS(0.	3	-1.3839	2664.4	2524.2
Map9	0.553267	2.21E-17	93.226	S(0.443)PS(0.553)AAT(0.003)SSHY	3	-0.30542	8391.3	9314.3
Arl6ip4	0.781786	0.00443323	53.388	AS(0.004)S(0.049)T(0.165)S(0.782	2	0.17909	5420.7	5555.7
Dlgap1	0.99932	0.000515242	69.342	ERS(0.999)LESSQR	2	0.32823	27126.3	26183.4
Pde4d	0.790665	1.80E-21	80.994	S(0.791)GNQVS(0.209)EYISNTFLDI	3	-0.78315	4561.0	5016.3
Pi4kb	0.809893	2.67E-40	126.81	S(0.006)KS(0.077)DAT(0.81)AS(0.1	3	-0.022499	80806.4	77605.6
Map1a	0.755289	4.23E-48	89.973	EGEGGAGAPDS(0.042)S(0.165)S(0	3	-1.3059	86652.9	79625.0
Sept2	1	3.92E-107	183.05	IYHLPDAES(1)DEDEDFKEQTR	3	-0.24189	777448.1	805409.7
Magi2	0.594853	2.43E-05	51.727	SPGSVST(0.001)HHS(0.595)S(0.40	3	-0.21334	24092.1	23658.3
Kpna3	0.999718	3.06E-56	146.97	NVPQEESEDS(1)DVDADFK	4	1.1492	219822.8	225185.6
Rasgef1a	1	2.31E-09	79.92	VTQCDEENGT(1)VKK	3	-0.74052	29462.8	29345.8
C2cd2l	0.999922	1.59E-135	194.75	SLSPAIVTVELHYEQGS(1)PR	3	0.3375	153796.0	163034.5
Tsc1	0.93941	3.52E-19	62.032	WEPTMGEPSSSIPT(0.007)T(0.026)	3	0.18542	6712.0	6452.1
Tbrg4	0.922001	3.87E-06	46.249	GPFLPAS(0.004)AVAPS(0.922)PS(C	3	-1.2761	3756.9	4557.8
Sox8	0.997467	1.65E-32	94.384	TEQLSPSHYNDQS(0.003)HGS(0.99	3	-0.43537	8894.8	10253.0
Mpz	0.999959	5.43E-05	109.44	SS(0.001)KDS(0.999)S(1)KR	2	0.097792	1298589.4	1361051.9
Mon2	0.912356	9.47E-16	54.926	DS(0.036)EKPET(0.912)PVG(0.05	4	0.41788	2570.1	2870.1
LOC10036	0.673238	7.11E-06	45.099	KPGGGDLPLHS(0.673)AS(0.319)DI	4	3.0154	16967.1	17723.9
Srrm2	0.999431	1.40E-10	90.498	RSSSELS(0.999)PEIVEK	3	1.3096	145912.4	147732.5
Tjp2	0.991476	2.10E-09	104.55	ERPS(0.006)S(0.991)REET(0.002)S	3	0.021891	27345.8	26492.7
LOC10254	0.695423	7.30E-22	81.357	T(0.013)HS(0.38)T(0.553)S(0.091):	3	0.60993	29430.6	26357.8
H2afx	0.507083	0.00232371	54.982	KAS(0.008)QAS(0.485)QEY(0.507)	2	-0.017409	11353.8	10084.9
Map1b	0.627464	3.98E-05	74.173	T(0.019)T(0.005)T(0.348)T(0.627)I	3	-0.31021	13378.3	14378.4
Cbx4	0.910288	6.45E-05	50.305	CLS(0.91)ET(0.09)HGEREPCK	3	-0.15997	5231.1	4716.3

42299.3	51831.2	39859.3	39248.0	0.0	0.9	772
19494.7	22221.4	18913.9	19880.0	0.0	0.8	312
3397.7	3382.7	4085.5	3699.0	0.0	0.8	303
93428.7	96764.6	93309.7	98636.0	0.0	0.6	1408
83603.1	79743.8	84963.6	88319.0	0.0	0.6	860
108338.0	109140.2	111865.6	102670.0	0.0	0.6	719
8561.5	7494.8	7662.4	7966.3	0.0	0.7	672
59443.2	50096.6	60658.4	66316.0	0.0	0.9	95
81003.3	76904.8	82168.0	79708.0	0.0	0.4	89
31053.5	28635.3	30715.0	29746.0	0.0	0.5	215
2804.7	2100.9	2759.7	2985.5	0.0	0.9	347
7927.6	8263.3	8271.8	8626.0	0.0	0.7	391
5601.1	5298.1	5471.3	5502.8	0.0	0.3	51
27021.7	24536.8	28344.7	25971.0	0.0	0.7	947
5684.3	5217.0	4668.1	5095.8	0.0	0.8	262;252
73689.2	73282.6	76921.0	77628.0	0.0	0.6	280;280
88543.1	81138.5	88599.1	80396.0	0.0	0.7	2133
794467.8	811737.3	741489.3	780410.0	0.0	0.5	218
23802.2	20735.3	24052.0	25452.0	0.0	0.8	884
221828.8	214756.1	216058.4	223790.0	0.0	0.3	36
29454.4	28098.5	30120.8	28425.0	0.0	0.4	157
152903.9	147482.6	157721.2	155920.0	0.0	0.6	411;411
6121.1	6223.9	6256.8	6451.1	0.0	0.6	1072
4222.7	4117.5	4617.1	3573.2	0.0	0.9	479
10281.7	9253.4	9810.2	9827.2	0.0	0.7	366
1118938.7	1366040.0	1157448.2	1186000.0	0.0	0.8	210
2691.7	3185.7	1929.4	2868.1	0.0	0.9	1184
17017.2	16425.7	15431.2	18906.0	0.0	0.8	1292
137498.5	136703.0	143999.8	142560.0	0.0	0.5	1345
27900.0	27043.6	27935.4	25266.0	0.0	0.6	421;448
27340.0	24753.5	29919.9	26937.0	0.0	0.8	166
11051.0	10458.7	10786.9	10651.0	0.0	0.6	143
14337.5	13010.3	14999.5	13316.0	0.0	0.7	2298;2172
4899.7	4648.5	4338.7	5588.9	0.0	0.8	340



Lmna	0.97784	8.80E-31	125.41	IRIDS(0.978)LS(0.022)AQLSQLQK	4	-0.6975	28675.6	29880.0
Tbc1d17	0.632313	0.004685	40.015	GGVY(0.039)LHT(0.329)S(0.632)AI	3	0.045636	5303.7	6015.5
Pgam1	0.990755	2.89E-06	47.942	FS(0.001)GWY(0.009)DADLS(0.99)	3	0.51513	8505.8	9567.5
Hnrnnp	1	0.00483975	90.135	MGLS(1)MDR	2	-0.69222	45445.9	46350.1
Map1b	0.988828	1.84E-40	122.29	ITSPES(0.006)ES(0.989)Y(0.003)S	3	-0.56905	35763.7	34913.7
Rab22a	1	0.00472933	77.662	RQPS(1)EPKR	3	0.0271	9888.1	10855.4
Rps6ka1	0.994981	3.54E-55	135.36	AYS(0.995)FCGT(0.005)VEYMAPEV	4	-0.28568	130801.2	131706.6
Thrap3	0.999638	1.33E-54	130.16	S(1)PPATGSAYGSSQK	3	0.22903	258728.0	251807.8
St13	0.994992	1.45E-06	81.448	AKS(0.995)EENT(0.005)KEEK	3	-0.026388	43346.7	37888.5
Tsnax	0.767556	3.85E-10	81.904	DAS(0.016)S(0.108)S(0.768)S(0.10	3	-0.31384	4528.7	4037.6
Scn11a	0.963519	3.09E-84	132.72	TAQAS(0.007)AS(0.964)DS(0.03)EI	5	0.42821	50148.6	51756.8
Stxbp5l	0.923857	3.72E-13	106.32	S(0.001)S(0.001)S(0.055)IS(0.924)	2	0.93249	110494.6	109540.1
Steap3	0.999982	1.80E-29	120.63	RLVDSGDS(1)LAEVPK	3	0.59683	104468.0	113366.1
Eml1	0.734191	3.79E-15	119.96	TGST(0.003)S(0.113)S(0.113)S(0.0	4	-0.35234	26165.0	27785.9
Dpysl2	0.959959	3.51E-29	136.27	TVT(0.003)PAS(0.037)S(0.96)AKT(	3	-0.10479	1496216.4	1511548.6
Hp1bp3	0.999996	7.62E-14	113.69	AVNSTRET(1)PPK	3	-0.22466	284919.2	294444.8
Scaf1	1	4.00E-07	79.471	APS(1)PAPAVS(1)PKR	2	0.78034	98453.3	101888.0
Ppp1r13b	0.523701	2.47E-08	50.891	EAEPEGSPVPEGS(0.026)T(0.026)	3	-0.48713	4651.7	4930.6
Uvrag	0.610524	5.95E-40	83.826	LQYKT(0.611)PPPS(0.23)YNS(0.08)	4	0.99259	9168.7	8381.1
Tjp2	0.999988	3.20E-07	82.529	S(1)IDRDYDRDYER	3	-0.36964	17459.6	19069.9
Myo1c	0.999999	0.00204406	116.52	RQS(1)LATK	2	0.62662	51436.7	49663.9
Zc3h13	0.552596	0.00204298	47.621	RS(0.447)PERPT(0.553)GDLR	3	0.10025	8727.9	8263.5
Pex19	0.952377	5.49E-46	101.3	AKPS(0.247)PAPS(0.952)PT(0.794)	4	-0.49156	220025.5	236637.4
Uhrf2	0.999999	7.44E-21	110.57	RPAS(1)DDECPSDSK	3	-0.56484	26095.8	30312.1
Srsf10	0.999989	7.21E-05	86.911	S(1)RS(1)FDYNYR	2	-0.49646	37676.7	41181.5
Marcks1l	0.999999	1.90E-17	94.203	GDVTAEAAAGAS(1)PAK	3	2.0427	139436.2	164965.0
Bcas1	0.549072	2.27E-15	84.213	T(0.451)PS(0.549)PPEPEPAGTAQK	3	0.96451	48754.4	50556.8
Ice1	0.963036	2.55E-18	76.329	ESGQDELLPVPGS(0.963)PS(0.037)	3	-0.51836	48749.6	47773.9
Rpl23a	0.864292	0.004147	65.933	IRT(0.864)S(0.136)PTFR	3	-0.20879	3955.6	4466.4
Map7d1	0.557541	6.59E-06	64.244	ARPT(0.558)S(0.438)PS(0.002)T(0.	3	-0.13038	10890.2	11952.0
Kidins220	0.998648	0.000857538	89.731	QMS(0.999)FDLT(0.001)K	3	-0.75464	42818.4	45109.5
Rtkn	0.958837	3.59E-21	69.016	ASLDS(0.015)AGGS(0.959)GNS(0.0	4	1.2308	9380.2	8943.0
Pcyt1b	0.718524	2.40E-07	49.708	S(0.05)PS(0.064)PT(0.265)FS(0.12	3	0.20748	12617.4	12757.1
Ssh3	1	0.0110446	50.353	RQS(1)FAVLR	3	0.25881	895.7	766.5

25780.3	27541.9	28367.2	26889.0	0.0	0.7	301
5416.2	5394.0	5231.2	5805.0	0.0	0.7	20
9504.6	9194.6	9215.2	8665.4	0.0	0.7	31
47496.9	46112.5	46755.3	43888.0	0.0	0.5	408
38095.0	34682.8	39055.7	33054.0	0.0	0.8	2015;1889
12630.9	9520.8	10403.9	12843.0	0.0	0.9	180
130461.2	126869.4	130417.3	128540.0	0.0	0.1	205;198
278670.0	252143.8	248192.5	274530.0	0.0	0.7	320
38612.4	37654.9	38150.6	41865.0	0.0	0.8	51
4414.6	4453.3	4011.8	4280.1	0.0	0.7	32
47617.2	46708.7	50129.0	49969.0	0.0	0.6	477
100859.9	107430.9	103865.8	103770.0	0.0	0.6	821
116674.1	111887.9	105286.0	111260.0	0.0	0.7	20
26853.5	25717.1	29450.8	24170.0	0.0	0.8	133
1402559.3	1440177.2	1451111.5	1439000.0	0.0	0.5	518;619
296076.9	277101.8	294454.1	288000.0	0.0	0.4	51
98701.9	97070.3	99538.8	97008.0	0.0	0.3	678
5058.8	5004.5	4538.0	4833.0	0.0	0.7	624
10761.4	9584.3	9585.3	8628.1	0.0	0.8	517
16757.5	16225.5	18481.1	17614.0	0.0	0.8	213;240
48103.7	50578.3	47540.8	48381.0	0.0	0.5	717
8516.6	8392.1	8954.0	7699.7	0.0	0.7	82
225587.0	219870.9	233947.5	216070.0	0.0	0.6	39
28807.1	27077.7	28761.5	27834.0	0.0	0.7	668
38789.2	35812.5	40572.1	39135.0	0.0	0.7	131
152531.3	157426.2	144149.4	147100.0	0.0	0.8	22
49893.4	45505.3	49531.6	51472.0	0.0	0.6	527
50979.3	46190.6	48918.2	49730.0	0.0	0.6	253
3360.3	4124.0	3847.3	3598.8	0.0	0.9	42
11086.1	10718.4	11113.9	11485.0	0.0	0.6	436
41689.3	44846.5	38323.7	44113.0	0.0	0.8	919
9108.0	8673.3	9176.0	9088.0	0.0	0.5	239
12891.7	12647.3	12227.4	12703.0	0.0	0.2	308
619.1	792.0	725.0	723.3	0.0	0.9	37

Tmem229i	0.964217	2.77E-15	101.75	AGSDLASEGS(0.036)S(0.964)PR	2	1.5225	7372.1	6699.0
Pdzd2	1	0.00475684	51.286	GNLES(1)PKQGNCK	3	1.1213	7849.5	6893.8
Srpk1	0.915939	1.12E-33	96.881	AHT(0.083)PS(0.916)GDEQEREHN	3	0.23318	50438.4	51593.4
RGD15626	0.798172	2.13E-07	67.415	KCPDS(0.798)PNS(0.202)AQNQK	3	-0.11973	7095.8	7056.3
Tmf1	0.541044	1.02E-05	61.657	IDS(0.541)FS(0.458)VQS(0.001)LD	3	0.49037	2714.5	2649.8
Pspc1	0.96223	2.44E-17	70.334	FPQGPPS(0.038)QMGS(0.962)PMI	2	2.1962	37784.1	34217.2
Aff4	0.744412	1.24E-05	53.448	QKS(0.195)PAQS(0.744)DS(0.027)	3	0.009241	6165.9	6412.0
Dennd5b	1	0.00033643	72.434	QCRT(1)PPQQK	4	0.1498	30311.9	32738.5
Ubap2	0.934463	5.51E-43	89.684	IAY(0.001)QS(0.065)PAS(0.934)PA	3	-0.52438	54553.2	57600.1
Prrc2a	0.539101	1.05E-62	170.42	SDS(0.015)GGS(0.303)S(0.539)S(0	2	-0.3788	17279.5	18914.1
Aup1	0.838162	0.000132785	40.137	FPS(0.009)S(0.008)GLVT(0.838)PC	3	-1.2688	3844.4	3618.5
Ggta1p	0.824654	2.05E-06	83.823	S(0.135)KS(0.825)ET(0.038)S(0.00	3	-0.054081	11659.6	11396.9
Pebp1	1	0.0118021	59.052	FKVES(1)FR	3	-0.20592	14427.8	15338.2
Bin1	0.998614	7.75E-37	103.12	GNKS(0.999)PS(0.999)PPPDGS(0.0	3	-0.2071	61673.5	69230.7
Ptpa	0.96483	2.55E-09	107.17	QAGS(0.019)HS(0.016)NS(0.965)F	3	0.63557	48218.8	46879.9
Ttll7	1	8.47E-15	125.73	QIS(1)QEEHENR	3	0.41293	36486.5	35733.1
Ifit2	0.99731	1.20E-06	41.933	EGQGADKAS(0.997)EGEEDPGNRV	3	0.018316	13305.5	7313.5
Hivep2	0.998948	0.00639581	57.204	GS(0.001)HS(0.999)FDER	2	1.256	18851.5	18648.6
Rsf1	1	6.07E-37	138.73	IES(1)DEEEDFENVGK	3	1.8441	65812.1	69286.6
Rbm10	0.854266	0.000110951	71.153	QHT(0.146)S(0.854)MDLPK	3	-0.50118	21263.1	22292.6
Cep76	0.609215	6.01E-37	107.39	ELNFVTDSDVQELPS(0.609)S(0.391	3	-0.4721	24043.2	25857.6
Prx	0.999511	9.48E-41	108.14	VRLPSVGFSETAAPGS(1)AR	3	0.37441	29456.8	30121.3
Pde1c	0.989222	7.05E-115	206.43	S(0.011)S(0.989)LNSINSSDAK	2	-0.21933	168263.2	162442.1
Stxbp5l	0.980532	8.53E-10	97.2	S(0.001)S(0.003)S(0.091)IS(0.905)	3	0.17081	91034.8	92174.9
Ptpn12	0.997025	1.67E-21	96.153	HSGAEKDADVS(0.003)EES(0.997)F	4	1.3849	28122.2	29091.3
Ahnak2	0.999943	5.65E-122	171.19	GEVRS(1)PDLEVTLPGVELDIPVTTAF	4	0.15184	231475.2	238600.9
LOC10036	0.953123	0.0180034	43.651	S(0.047)AS(0.953)RDNLK	3	-0.29105	16028.4	14539.6
Cntnap1	0.845004	6.20E-30	123.14	DQNLQPQILEES(0.155)RS(0.845)E	3	0.016475	23084.3	24228.7
Cic	0.589337	3.46E-06	52.99	S(0.589)S(0.193)S(0.076)EAKPAS(	3	-0.33357	31863.6	29799.9
Rab23	0.962683	3.32E-21	81.992	QQVADEPEQT(0.963)HS(0.028)S(C	3	0.54942	8407.1	9052.1
Stk10	0.903043	6.45E-10	61.962	LSEEAET(0.016)RPT(0.08)T(0.903)	2	-0.16163	53968.7	58240.7
Epb41l3	0.8986	8.69E-06	48.919	DS(0.051)MS(0.899)AAEVTG(0.04	3	0.024452	19322.6	19985.8
Fam184a	0.823209	4.99E-08	56.882	T(0.177)QS(0.823)LDEEQKQQUELEM	3	-0.091555	30988.2	36666.6
Rltpr	0.575834	2.12E-27	79.426	RT(0.576)S(0.424)PAPDILSLPEDPC	4	-1.4624	1952.7	1843.3

7413.4	6449.5	8942.6	5705.9	0.0	0.9	12
7308.1	7310.9	6775.6	7568.5	0.0	0.7	440
46790.0	49920.6	50939.0	45287.0	0.0	0.7	455
7098.1	6374.0	7296.7	7197.7	0.0	0.7	375
2483.1	2538.5	2544.9	2623.1	0.0	0.6	325
43083.9	36179.9	36922.7	39916.0	0.0	0.8	476
6104.0	5800.6	6246.9	6299.0	0.0	0.6	520
30928.9	30067.4	30163.5	32061.0	0.0	0.6	1062
56051.3	54305.0	54188.8	56691.0	0.0	0.4	596
17631.5	16650.1	17312.0	18897.0	0.0	0.7	766
3692.7	3130.5	4081.9	3743.1	0.0	0.8	367
10268.4	11165.7	10781.5	10780.0	0.0	0.7	19
13945.7	13086.2	15379.9	14462.0	0.0	0.8	153
65243.4	62154.3	62789.2	67688.0	0.0	0.7	280
45030.1	45738.5	45816.0	46065.0	0.0	0.4	183
33794.9	35055.7	34799.3	34261.0	0.0	0.5	433
11701.5	13290.8	9019.4	9432.0	0.0	0.9	448
19547.9	17205.6	19961.2	18861.0	0.0	0.7	565
66999.0	64792.0	69360.3	64331.0	0.0	0.6	1352
23647.8	20286.6	23684.4	22031.0	0.0	0.8	632
23725.5	23870.2	24178.1	24262.0	0.0	0.6	61
29223.4	28714.4	29657.0	28843.0	0.0	0.3	1372;1372
164189.1	163663.0	157518.1	164870.0	0.0	0.4	356
83115.5	89992.1	86194.7	85380.0	0.0	0.6	822
28814.5	28861.8	27994.2	27635.0	0.0	0.3	548
244920.9	226822.7	236907.7	238510.0	0.0	0.5	4861;6227
16154.9	15366.4	14793.2	15730.0	0.0	0.7	1315
24120.5	23158.6	24166.3	22835.0	0.0	0.5	1303
33521.3	31674.4	30848.5	30965.0	0.0	0.6	1183
9822.5	8506.4	8537.4	9751.6	0.0	0.8	184
51496.7	54283.0	47949.0	58557.0	0.0	0.8	964
19843.9	18857.7	19843.6	19397.0	0.0	0.4	465;465;465
33901.4	28537.4	35160.5	36049.0	0.0	0.8	310
1825.6	1731.6	2045.4	1744.5	0.0	0.8	1285

LOC68698	1	1.64E-15	85.909	HEL5(1)PPQKR	4	0.033939	144898.6	139911.5
Tubb3	0.861635	2.73E-05	58.079	IS(0.862)VY(0.013)Y(0.079)NEAS(C	3	0.40935	7224.4	7662.4
Zdhhc20	1	1.03E-30	87.319	LVGMDPEQAS(1)IANQGEYIR	3	0.51684	26081.5	24747.5
Epn3	0.808469	1.78E-12	60.86	TPVLPS(0.001)GPPIT(0.077)DPWA	4	-0.72924	40134.9	40559.5
Sos1	0.999589	4.90E-40	119.62	IPES(0.002)ET(0.078)ES(0.854)T(0	3	-0.40628	59973.9	56947.4
Sin3a	0.98663	3.14E-07	71.279	RHS(0.987)GT(0.007)GAT(0.006)P	3	1.9614	25877.6	21050.9
Arhgef2	1	4.54E-17	135.14	EAQELGS(1)PEDR	2	-0.35219	25280.0	24393.2
Setd5	0.994265	2.41E-15	55.662	GLPYADHNY(0.007)GAPPPPT(0.99	4	-0.80778	8728.0	8307.5
Setd5	0.991976	2.41E-15	55.662	GLPYADHNY(0.007)GAPPPPT(0.99	4	-0.80778	8728.0	8307.5
Sptbn1	0.707316	5.68E-42	113.65	AQT(0.707)LPT(0.272)S(0.021)VV1	3	-1.3325	37174.6	37769.0
Cog3	0.999999	7.93E-31	88.504	LNS(1)NNALIEFLLEGTPAIR	3	2.0447	1307.9	1790.1
Scrib	1	1.58E-27	103.41	GVS(1)FDQANNLLIEPAR	3	-0.28131	13961.5	13895.7
Prkag2	0.757134	1.06E-07	54.69	ESS(0.001)PNS(0.007)NPS(0.118)T	3	0.40551	5948.0	6326.8
Klc2	0.99442	0.0061763	70.363	RS(0.006)GS(0.994)FGK	3	-0.38085	22825.5	22775.2
LOC10369	0.647155	0.00155502	44.608	S(0.176)T(0.176)S(0.647)PEHLHKP	3	3.2896	26275.9	29040.8
Peg3	0.884937	0.000152907	58.595	T(0.104)HS(0.885)GGIT(0.009)Y(0.	3	-1.6604	23557.8	22352.9
Impact	0.999434	2.65E-56	175.15	NFT(0.001)NS(0.999)PEESAK	3	0.29617	44721.9	45848.8
Hsp90ab1	1	0.0220886	71.451	RLS(1)ELLR	2	0.012989	4556.2	4459.2
Map3k2	0.999089	4.12E-33	103.36	RGS(0.999)DIDNPT(0.001)LTVTDIS	3	-0.68204	12917.9	14330.1
Srrm2	0.916562	7.79E-05	111.39	S(0.917)S(0.083)PELTR	2	-0.2364	93632.5	105842.4
Bclaf1	0.999161	6.54E-51	156.61	YS(0.908)PS(0.093)QNS(0.999)PIH	3	0.26169	98674.0	97474.0
Igf2r	0.98202	0.00347406	99.174	RS(0.018)S(0.982)GVSYK	2	0.41517	36216.9	36740.1
Stat3	0.539122	5.85E-16	66.536	YCRPESQEHPEADPGS(0.539)AAPY	3	0.36057	7086.3	5679.8
LOC10036	1	1.62E-07	87.914	S(1)PPGHPHAR	2	0.075627	29993.5	27854.0
Tmpo	0.981427	7.86E-60	154.48	S(0.001)S(0.018)T(0.981)PLPTVSS:	2	-1.0259	123120.3	125498.0
Wdr20	0.998945	0.00105201	77.124	FAT(0.001)LS(0.999)LHDR	2	0.66007	15739.8	16157.6
Clock	0.82976	2.68E-18	76.176	KS(0.83)S(0.157)HT(0.013)AVSDP:	4	1.5643	6390.3	8120.2
Camkk2	0.785661	1.03E-35	100.39	CICPSLS(0.012)Y(0.182)S(0.786)PA	3	0.29701	31021.6	30247.4
Hmga1	0.996515	0.0138708	60.167	KVTT(0.003)T(0.997)PGR	2	0.19039	43672.3	46431.3
Atp1a1	0.999905	5.96E-60	164.99	VDNSSLTGES(1)EPQTR	2	-0.11265	46965.3	48454.0
Ccny	0.999711	4.21E-06	53.453	S(1)LFINHHPPGQTSR	4	-0.6177	17546.7	16797.1
Ets1	0.941265	2.81E-22	74.876	VPS(0.941)YDS(0.058)FDSEDPAA	4	0.58139	25256.2	22576.7
Sos2	0.631959	1.51E-26	79.514	DVST(0.001)CPNS(0.632)PS(0.184	3	-0.11094	8268.0	8066.4
Dmnl2	0.996533	3.58E-13	72.359	KQS(0.997)EVEADLGY(0.003)PGGI	4	-0.84589	16448.2	16537.1

147133.5	145667.7	135333.1	143260.0	0.0	0.5	74
6711.5	8081.2	6012.2	7120.9	0.0	0.9	48
24557.0	24356.4	25285.2	24405.0	0.0	0.5	309
40538.4	38335.8	41123.6	39620.0	0.0	0.4	359
58746.9	55517.2	58991.3	58043.0	0.0	0.5	1082
21818.8	22318.2	22223.5	22986.0	0.0	0.8	431
25406.6	24829.4	23517.6	25401.0	0.0	0.5	1124
8871.6	8469.2	8484.4	8494.6	0.0	0.4	74
8871.6	8469.2	8484.4	8494.6	0.0	0.4	70
39579.1	36379.0	37665.4	38451.0	0.0	0.5	2314
1458.3	1524.5	1555.5	1395.7	0.0	0.9	663
12649.0	13059.8	13568.6	13162.0	0.0	0.6	692;692;692
7064.1	5886.5	6881.5	6229.1	0.0	0.8	143
19506.4	20406.5	24389.7	19161.0	0.0	0.9	545
29792.9	28864.0	27986.7	26756.0	0.0	0.7	250
21434.4	21502.0	21580.2	23074.0	0.0	0.6	710
46621.7	43963.2	44535.7	46273.0	0.0	0.4	295
3915.4	4372.4	4291.1	4039.1	0.0	0.8	452
13371.9	12366.8	13604.9	13932.0	0.0	0.7	331
90162.4	92009.4	101047.8	91474.0	0.0	0.8	1652
100838.6	94218.1	96782.8	100750.0	0.0	0.5	287
36162.7	34644.3	35407.4	37145.0	0.0	0.4	2335
7274.8	6309.9	6753.8	6624.3	0.0	0.8	701
24817.9	27544.1	25272.4	28394.0	0.0	0.8	401
133027.0	123360.5	122199.4	129380.0	0.0	0.6	159;159
15100.9	14455.7	14604.1	17113.0	0.0	0.8	404
7579.7	7239.7	7158.3	7304.3	0.0	0.8	440
29093.5	30129.0	29277.6	29370.0	0.0	0.4	128
41235.7	45403.0	42276.6	41355.0	0.0	0.7	78;67
46188.4	44553.9	49297.6	45272.0	0.0	0.6	222
18929.3	18135.0	17570.6	16633.0	0.0	0.7	83
24972.2	23688.7	24873.8	22966.0	0.0	0.7	282
6349.6	8189.1	7417.9	6679.3	0.0	0.9	1087
16110.2	15732.7	16163.2	16339.0	0.0	0.3	2638



Map2k6	0.71747	1.45E-20	79.614	MCDFGIS(0.001)GY(0.717)LVDS(0	3	0.078724	13323.4	12946.9
Pkd2	0.999703	3.37E-65	150.69	SLDDS(1)EEEDDEDSGHSSR	3	-0.13326	15584.7	15962.3
Eef1d	1	1.45E-13	104.17	IAS(1)LEVENQNLN	3	0.27502	3391.9	3543.9
Trim2	0.999908	9.57E-46	166.9	VIRS(1)ADVS(0.964)PT(0.018)T(0.(	3	-0.47386	160975.9	167674.4
Rbmxrtl	0.770646	6.81E-05	57.616	DS(0.013)Y(0.004)S(0.771)S(0.018	3	1.196	14548.3	15173.6
Stk32c	0.999788	4.33E-17	96.805	GSSAAAPPGS(1)PPPGR	3	-0.21221	85127.5	84590.8
Gab1	0.796378	2.27E-07	43.795	NVLAAGNVS(0.018)GEELDENY(0.1	5	-0.86447	3893.4	3830.6
RT1-A2	0.994468	1.58E-16	92.474	DSSQS(0.001)S(0.004)DVS(0.994)l	2	0.99467	107313.7	82999.2
Kcnb2	0.975819	8.75E-15	122.63	DS(0.004)VDDNHLS(0.976)PS(0.02	3	-0.81529	18836.0	16661.0
LOC68389	0.999995	1.84E-81	168.08	DADEEDS(1)DEETSHLER	3	-0.10287	201383.9	214797.9
Ibtk	0.935452	1.31E-08	54.964	DLQS(0.044)PDFT(0.935)AGFHS(0	3	0.83521	14134.4	14308.2
Ppig	0.999806	1.56E-06	86.413	KADIDQS(1)PVSK	3	-0.78126	138076.5	165162.5
Map1b	0.82521	8.34E-17	54.68	GS(0.055)AES(0.825)PDEGIT(0.025	4	-0.23218	14519.7	12892.0
Chd9	1	0.0125987	63.816	EGT(1)PHAK	2	0.095721	25519.8	23939.1
Srrm2	0.868255	0.0092603	62.714	S(0.868)RS(0.132)PQWR	3	0.2679	3512.7	4054.6
Map1b	0.996185	2.04E-95	161.68	IAELEERS(0.996)QGS(0.003)T(0.C	5	-0.26624	127247.0	136895.0
Pacs2	1	0.012031	75.387	S(1)QLQIPR	2	-0.14749	15334.3	15110.0
Arhgap23	0.998522	1.10E-23	93.909	SKS(0.001)CDDGLNT(0.999)FRDEC	4	-0.51968	45379.1	42876.2
Map3k11	0.731314	0.0113872	66.486	GNS(0.044)S(0.225)GT(0.731)PK	2	-0.29304	16837.1	17957.6
Slk	0.992759	1.42E-42	94.834	RDS(0.993)FIGT(0.007)PYWMAPE'	4	-0.36982	25469.7	25410.0
Map4	0.721505	4.78E-84	118.57	NADLHSGTELTLDNS(0.032)MT(0.7	4	-0.69419	35452.4	34552.8
Smchd1	0.997922	0.000211745	83.948	CS(0.001)DS(0.001)LCLS(0.998)PK	2	0.77911	33485.7	31560.4
Bad	0.76509	2.42E-22	75.404	HS(0.22)S(0.765)Y(0.001)PAGT(0.(	3	1.4133	24667.0	24884.6
Snrpa	0.784736	0.00615834	69.721	S(0.785)QET(0.215)PAAK	2	1.3518	7445.7	8249.5
Tnik	0.981986	4.39E-05	51.76	KNS(0.982)PGNGS(0.018)ALGPR	3	-1.1234	12195.1	11237.9
Arhgef12	0.974574	7.14E-06	46.273	TDWSSGDAS(0.001)RPS(0.005)S(0	4	0.58295	13157.6	14555.0
Sept7	1	1.71E-17	103.67	S(1)PLAQMEEERR	3	0.17289	122297.4	128207.4
Prx	1	4.43E-84	157.42	VS(1)PGEKLEAIAGQLK	4	0.4049	1694797.5	1698572.6
Khsrp	0.99968	6.79E-16	106.31	VQIS(1)PDSGG LPER	3	-0.24446	29613.0	29876.7
Ttc9	0.979007	7.10E-66	93.903	AS(0.021)GNPS(0.979)PPALGEGPF	4	-0.32258	18164.5	19654.5
Mapre2	0.941236	1.98E-52	123.58	PGSTPS(0.005)RPS(0.941)S(0.054)	3	0.47684	294758.8	278276.3
Csdc2	0.999666	3.76E-05	69.03	DLPS(1)PLPTKR	3	-0.35784	61083.1	61133.3
Ddx3x	1	0.0101681	64.73	FS(1)GGFGAR	2	-0.015994	11673.5	9493.4
Tfe3	0.990986	2.46E-27	100.97	AASDLLS(0.002)S(0.007)VS(0.991	3	-0.13579	5021.4	5599.0



13922.3	14049.8	12197.5	13241.0	0.0	0.7	203
16154.9	14501.9	15408.8	16956.0	0.0	0.7	810
3329.3	3324.3	3152.6	3608.5	0.0	0.7	455;456
158312.3	153829.4	165532.9	159080.0	0.0	0.6	441
14004.3	16595.1	12269.1	14097.0	0.0	0.9	325
85116.0	84968.6	83312.5	82097.0	0.0	0.2	18
3722.1	3839.7	4107.5	3298.7	0.0	0.8	454
86300.9	86790.1	82479.0	102520.0	0.0	0.9	360
18029.7	19683.8	16197.4	16713.0	0.0	0.8	488
201888.1	196012.8	196363.3	214930.0	0.0	0.7	106
14681.4	13214.9	14901.2	14257.0	0.0	0.7	1049
161250.7	154962.3	147964.4	153480.0	0.0	0.8	685
15569.3	14244.5	14208.7	13780.0	0.0	0.8	884;758
23585.0	23898.8	24103.3	23771.0	0.0	0.5	1701
3941.9	3718.2	3937.5	3653.6	0.0	0.7	504
127661.2	124559.4	136968.1	123470.0	0.0	0.7	336;210
15116.9	15331.2	14580.6	14858.0	0.0	0.3	464
39372.6	40950.4	43740.7	40721.0	0.0	0.7	422
17395.2	17289.2	16891.0	17104.0	0.0	0.4	638
26182.7	23689.8	25265.9	26770.0	0.0	0.7	113
36581.1	33932.7	38558.8	32249.0	0.0	0.8	546;546
32742.0	30523.9	32566.9	33004.0	0.0	0.6	1974
28553.7	25755.6	24218.7	26780.0	0.0	0.8	71
8227.4	7915.6	7728.8	7864.6	0.0	0.6	115
10897.7	10422.2	12113.1	11202.0	0.0	0.8	604
14203.4	13698.9	13369.8	14123.0	0.0	0.6	309
123008.7	121435.6	124155.0	121470.0	0.0	0.4	333
1895488.6	1699327.7	1725859.9	1772300.0	0.0	0.7	1020;1020
31410.1	28386.7	32174.7	28769.0	0.0	0.7	182
17200.4	18930.3	17797.2	17342.0	0.0	0.7	15
276828.2	279708.8	287155.3	268330.0	0.0	0.6	221
55997.0	57833.7	59871.8	57432.0	0.0	0.6	48
10749.7	10229.2	10645.9	10491.0	0.0	0.8	593
5471.2	4786.5	5649.8	5377.9	0.0	0.8	449

Cep170b	0.608987	2.35E-07	44.848	T(0.001)PGMAAQMEQQS(0.609)L	3	-0.34473	5387.8	6108.1
Champ1	0.755352	4.38E-57	86.566	ET(0.118)ES(0.093)GKS(0.755)PS(	5	-0.22781	19439.5	18061.8
Uba1	0.959163	6.45E-05	50.305	AT(0.041)LPS(0.959)PDKLPGFK	3	0.34749	7239.2	6949.8
Rc3h1	0.886034	4.61E-79	103.05	RPLS(0.886)AS(0.114)LGQLNEVGL	4	-0.38697	12814.1	12549.8
Reps1	0.679961	2.70E-33	79.209	S(0.002)HS(0.038)GAS(0.952)PDN	4	-0.14262	10651.9	9995.2
Avl9	0.927219	2.14E-13	65.207	DS(0.007)VPS(0.064)DS(0.927)PPI	3	2.019	23439.7	22931.0
Cdk13	0.889955	0.0197384	70.028	S(0.003)GS(0.89)EAS(0.107)K	2	0.83727	10892.0	10725.2
Cacna1b	0.992067	7.86E-12	93.181	RGS(0.008)PEEAT(0.992)EREPR	2	0.46613	16069.0	16543.7
Nefh	1	2.36E-48	119.76	S(1)PAEVKS(1)PAEAK	3	0.0009657	1951939.2	2109586.6
Cops5	0.999577	0.000333405	54.486	GSFMLGLET(1)HDR	2	0.80089	16843.0	16189.4
Yes1	0.881273	0.000437804	89.542	GAY(0.881)S(0.116)LS(0.002)IR	2	0.86851	31873.2	32703.4
Tln1	0.989657	4.27E-63	112.34	SKDHFGLEGDEESTMLEDS(0.01)VS	4	-0.54539	64066.0	65112.9
Phf2	0.999661	1.09E-10	70.837	RKGS(1)DDAPYSPTAR	4	-0.10766	41767.6	40166.8
Akt1s1	0.992878	6.31E-66	93.993	AATATRPPGPPAPQPPS(0.993)PA	5	-0.12324	38701.3	40758.1
Caskin1	0.905107	7.70E-28	115.38	T(0.094)LS(0.905)GPVT(0.001)GLL	3	-0.32064	3863.8	3967.5
Ahnak	1	6.89E-140	206.69	LRS(1)EDGVEGDLGETQSR	3	0.14404	238631.3	258981.6
Rab8a	0.923721	1.37E-15	89.859	LEGNS(0.005)PQGS(0.924)S(0.072	2	-1.7856	87335.1	86831.8
Hsp90ab1	0.705368	3.87E-05	83.652	LGIHEDS(0.705)T(0.295)NR	3	-0.033647	9747.7	10128.1
Zfp282	0.764186	5.99E-06	42.557	AIPT(0.001)ES(0.007)IT(0.164)DS(i	3	-0.65441	7613.2	8973.9
Clk1	1	2.45E-42	92.416	S(1)VEDDEEGHLCQSGDVLSAR	3	0.48722	8038.9	7643.3
Hspa4	0.862081	5.82E-05	68.168	VT(0.003)PQS(0.862)DGS(0.112)Si	2	-0.013516	9003.9	10715.0
Plec	1	7.79E-07	82.529	AQLEPVAS(1)PAK	3	2.5319	170970.6	160621.2
Tjp1	0.912469	1.28E-07	88.19	S(0.954)VAS(0.912)S(0.133)QPAKI	3	1.2599	147117.0	145012.1
Rbsn	0.943161	3.11E-53	131.35	DSLS(0.001)T(0.008)HT(0.943)S(0.	3	-0.91073	9286.1	10286.5
RGD13046	0.999922	0.00185331	104.22	SLVGS(1)WLK	3	0.90493	56253.9	51157.9
Dock5	0.589029	6.21E-84	133.76	T(0.175)LS(0.589)S(0.175)PS(0.06	4	-0.51422	6282.4	5275.4
Ahnak	0.924864	2.76E-08	114.86	MPFLS(0.001)IS(0.074)S(0.925)PK	2	-0.27622	47676.2	45158.9
Magi2	0.612955	0.0189997	46.844	NKS(0.387)VT(0.613)NMEK	3	0.16383	13206.5	14549.5
Dmxl2	1	4.48E-12	67.312	QLDHES(1)DDADREDDER	3	-0.35401	7260.0	8061.7
Mta1	1	1.17E-06	71.513	NNMS(1)PHGIPAR	3	0.10508	42725.4	42763.2
Kcnh2	0.894564	1.13E-11	54.857	ALVGPAS(0.089)AS(0.895)PVAS(0.	3	1.1036	13211.3	13138.8
Ehd2	0.653216	0.00015246	42.068	Y(0.004)DEIFY(0.653)NLAPADGKLI	3	-4.0029	26580.1	25289.4
Ncoa2	0.836865	7.63E-09	69.261	LLQDS(0.025)S(0.138)S(0.837)PVC	3	-0.31446	18930.2	16927.6
Cmklr1	0.874325	0.0173108	49.418	MS(0.874)S(0.126)LIEK	2	0.15432	32853.5	29968.8

5554.1	5254.8	5802.2	5699.2	0.0	0.7	675
18888.9	18133.9	17540.7	19744.0	0.0	0.7	108
6335.0	6272.9	6894.4	7003.4	0.0	0.8	835
13269.7	13211.6	12018.0	12739.0	0.0	0.6	460
10771.0	10283.3	9618.0	10976.0	0.0	0.7	556;251
23614.8	22232.4	23142.6	23406.0	0.0	0.4	368
10979.7	10879.3	9489.7	11667.0	0.0	0.8	226
16654.2	16961.4	16327.8	15133.0	0.0	0.6	946;947
2070622.2	1988287.2	1990242.4	2048500.0	0.0	0.5	562;562
14206.6	16493.9	15143.8	14792.0	0.0	0.8	274
33297.7	32372.9	31176.6	32648.0	0.0	0.4	192;185
64761.1	62217.0	66130.9	62271.0	0.0	0.5	425
41481.6	37636.2	41696.3	41971.0	0.0	0.7	776
45042.9	38009.1	39516.3	44846.0	0.0	0.8	88
3767.8	3538.0	4013.4	3849.2	0.0	0.7	997
233678.3	277893.8	201044.0	239840.0	0.0	0.9	136
86114.6	83950.0	86555.9	85324.0	0.0	0.1	185
9267.1	8565.4	10156.0	9923.1	0.0	0.8	445
9034.8	8949.9	7903.2	8330.7	0.0	0.8	319
8394.5	7701.1	7573.6	8390.5	0.0	0.7	139
9585.1	9166.6	9516.6	10120.0	0.0	0.8	471
155267.4	161386.1	157015.8	160140.0	0.0	0.6	1438;1324;1295
149507.7	140816.8	143337.2	149940.0	0.0	0.5	324
9825.7	9692.4	9047.1	10157.0	0.0	0.7	213
52116.4	50447.5	53421.5	52937.0	0.0	0.6	362
6620.2	6120.0	5444.0	6304.5	0.0	0.8	1801
40716.2	42725.7	42311.9	46240.0	0.0	0.8	2812
13955.3	13467.9	13568.6	13965.0	0.0	0.6	222
7518.5	7561.0	6885.0	8005.9	0.0	0.8	405;423
41808.5	40698.5	41519.0	42917.0	0.0	0.4	449
14686.7	12949.8	13206.3	14184.0	0.0	0.7	241
27914.9	23951.6	26638.1	27840.0	0.0	0.8	458
17332.4	17087.9	17861.3	17338.0	0.0	0.7	699
32482.2	30673.5	31886.2	31127.0	0.0	0.6	356

Eps15l1	0.652322	1.74E-24	82.302	STPSHGS(0.001)VS(0.012)S(0.012)	3	0.14617	26824.6	25664.5
Sec22b	0.99919	4.03E-17	95.197	RNLGS(0.999)INT(0.001)ELQDVQF	2	1.3558	19679.2	18195.6
RGD13099	0.999797	1.15E-69	116.52	LEELRDGAESSRDS(1)MEINEADFR	4	0.81428	37032.7	37364.2
Utrn	0.931548	0.00720383	57.164	NKAS(0.932)S(0.055)S(0.014)DLR	2	0.59198	7576.4	8353.3
Dclk1	0.99405	1.56E-23	102.64	S(0.994)PS(0.006)PSPTSPGSLR	2	0.091714	85633.2	85642.7
Map1b	0.938268	1.61E-58	117.83	DYNASAS(0.001)T(0.007)IS(0.085)	3	1.0675	129131.4	134920.5
Apbb1ip	0.982914	0.00742575	103.8	S(0.983)S(0.017)PLPAK	2	0.05048	34634.2	30654.4
Ccdc86	0.835575	2.81E-09	70.197	LS(0.836)PT(0.154)QDS(0.01)EVAI	3	-0.44539	13671.7	13235.4
Irf2bp2	0.538761	6.52E-15	69.27	S(0.458)PT(0.539)GAQPAS(0.003)	4	-0.28561	55328.4	54421.2
Jdp2	0.835096	3.90E-06	41.475	T(0.011)DS(0.03)VRT(0.835)PES(0	4	1.0305	6527.3	6183.4
Srrm1	0.959024	3.65E-05	59.728	HRPS(0.045)S(0.959)PAT(0.996)PF	3	-0.57872	115799.6	121571.1
Sec61a1	0.973759	4.78E-05	81.923	ET(0.026)S(0.974)MVHELNR	3	-0.51186	31031.1	32242.7
Scel	1	4.71E-07	93.623	RGQS(1)LENLIK	3	-0.1762	17296.2	18130.9
Pak4	1	2.91E-22	139.3	LAAGRPFNT(1)YPR	3	0.35294	11754.1	12993.0
Rufy3	0.959792	3.79E-100	131.2	ELDDIS(0.038)LT(0.96)PDPEPT(0.0	3	-1.2201	63262.1	57997.2
Cdc37l1	0.499985	4.08E-13	65.184	LGLSLALHNS(0.5)ES(0.5)LDQEHAK	3	-1.0424	10966.7	11188.5
Wdr44	0.951927	5.31E-101	134.91	YELSDAT(0.048)QS(0.952)DDEEK	4	-0.51696	86220.0	80604.6
Camta2	0.923443	3.08E-39	73.128	FFIQDDDS(0.006)GEELKPGGT(0.0	4	0.86175	9707.7	9457.4
Ryr3	0.999785	1.86E-10	50.891	QVS(1)VDADGNFDPKPINTMNFSLF	4	0.93781	5382.1	5328.5
Ssfa2	0.996574	8.81E-11	49.209	DS(0.997)FEMEEVQS(0.001)T(0.0	4	1.1229	4905.6	4837.2
Tle4	0.783466	0.000119515	52.527	HRNS(0.783)T(0.21)DY(0.004)S(0.1	4	-0.12327	15891.3	12807.6
Tmem132l	0.753006	9.14E-10	88.319	DQT(0.002)EDPAS(0.753)S(0.234)	2	0.61852	5751.3	6070.0
Tmem160	1	4.45E-05	67.999	GS(1)FAPGHGPR	3	0.67501	4476.0	4922.3
LOC100901	0.874671	3.52E-14	118.61	S(0.061)RS(0.875)ES(0.044)ET(0.0	2	-0.91214	53569.2	49966.7
Kctd8	0.892183	6.84E-43	95.444	HSTLLSVPDS(0.004)T(0.004)LAS(0	3	0.15352	16348.1	15282.2
Sgip1	0.931664	2.48E-20	58.93	EKVVT(0.932)PPAAS(0.039)DIPAD	5	2.2271	66677.9	67046.7
Fam193b	0.999999	5.29E-10	84.195	GSRPGPIQAAS(1)PK	3	0.070247	25646.2	22267.4
Fam126b	0.950167	0.00876101	53.756	T(0.006)AS(0.006)AS(0.006)S(0.03	2	-0.20164	59529.0	79740.2
Ints1	0.759353	2.09E-08	48.286	RDS(0.759)T(0.238)EAPKPES(0.00	3	-0.75913	4562.0	4552.5
Svil	0.855094	1.86E-33	80.412	ATDPASPHT(0.03)GRS(0.114)NEEE	4	-0.87906	7354.2	7220.3
Gtf2i	0.816155	2.43E-31	91.64	S(0.816)S(0.184)EPPPPPVPEPTN	4	0.2383	13374.7	13209.0
Vdac1	0.997404	3.08E-26	113.33	LTFDSS(0.002)FS(0.997)PNTGK	3	-0.45463	127091.9	123030.0
Cpeb4	0.829514	1.16E-26	80.702	QQLS(0.17)PS(0.83)PGQEAGILPET	3	-0.71067	7416.0	6611.1
Sptan1	0.981795	4.40E-12	60.621	EAFLNTEKGDGDS(0.018)LDS(0.982)	4	1.7694	4350.5	4725.8

23564.8	24248.6	25821.6	24693.0	0.0	0.7	255
18252.2	17423.4	18891.5	18860.0	0.0	0.7	137
35354.6	37131.3	34767.3	35991.0	0.0	0.5	471
8310.3	8103.1	7779.6	7946.2	0.0	0.6	2285
82377.7	83014.0	81776.9	84562.0	0.0	0.3	23
142236.2	131060.2	132950.0	135390.0	0.0	0.6	1205;1079
33584.1	33375.0	31192.6	32630.0	0.0	0.7	617
13263.3	12314.0	13806.9	13369.0	0.0	0.7	124
54689.6	53295.2	53102.0	55257.0	0.0	0.3	73
6925.4	6954.2	6286.2	6063.4	0.0	0.8	148
115630.8	116738.7	115402.9	114890.0	0.0	0.4	318
30848.0	30119.1	31557.1	30854.0	0.0	0.4	408
18780.3	17491.6	20289.3	15510.0	0.0	0.8	342
10997.8	12066.6	12050.0	11024.0	0.0	0.8	207
64877.2	60905.9	62589.4	59495.0	0.0	0.7	51
12358.4	10859.9	12167.6	10903.0	0.0	0.8	86
83062.3	79216.9	82775.0	83674.0	0.0	0.5	409
10005.5	8559.1	9758.7	10360.0	0.0	0.8	464
4822.2	4858.9	5183.5	5228.2	0.0	0.7	2599
5495.6	4913.4	4505.3	5562.5	0.0	0.8	465
12308.3	14250.0	12834.4	13231.0	0.0	0.9	197
5898.3	5568.9	5464.0	6387.9	0.0	0.8	913
4845.6	4623.1	4683.8	4697.1	0.0	0.6	36
52264.3	50282.5	49951.6	52949.0	0.0	0.6	145
16228.3	15319.1	15944.2	15792.0	0.0	0.5	78
73741.4	67352.7	65639.3	70992.0	0.0	0.7	363
20643.4	22523.9	22825.2	22058.0	0.0	0.8	629
47512.8	67715.7	52356.1	63578.0	0.0	0.9	453
3841.8	4418.9	4141.4	4178.8	0.0	0.8	1336
8738.6	6973.6	7713.9	8235.3	0.0	0.8	62;62
15761.0	12473.5	14634.0	14529.0	0.0	0.8	241
119687.1	115561.8	123652.8	124410.0	0.0	0.6	104
6846.5	7079.1	6717.5	6728.1	0.0	0.7	99
4821.8	4150.8	4728.6	4786.6	0.0	0.8	1459

Prkab1	1	4.39E-55	131.04	S(1)QNNFVAILDLPEGEHQYK	4	-0.18144	63931.2	59350.8
Trim2	0.592624	1.01E-06	69.92	SADVS(0.385)PT(0.593)T(0.023)EC	2	0.1373	9118.0	8439.9
LOC100911	0.781255	1.94E-09	83.37	DGFPS(0.781)GT(0.219)PALNTK	3	3.602	30728.2	30152.0
Pikfyve	1	2.11E-15	130.47	SASITNLS(1)LDR	2	0.53042	9173.7	9010.9
Kcnj13	0.999635	6.36E-07	75.764	TVPEHPT(1)PVVSK	3	-0.49999	39625.6	38212.1
Garnl3	0.99605	0.000102352	64.454	SIERPLKS(0.996)PLVS(0.004)K	3	-3.3741	16936.0	18696.9
Spp2	0.891398	5.64E-07	63.691	GEQFY(0.006)DRS(0.891)IEIT(0.10	3	0.73134	8128.5	9659.4
Fam134a	0.717206	7.27E-16	56.288	AT(0.233)T(0.717)PQLT(0.046)DV!	4	0.54126	10684.0	9754.5
Epn2	0.999011	3.40E-58	119.87	AGGS(0.046)PAS(0.954)Y(0.001)H	3	-0.37558	25503.1	27229.8
Cdh11	0.999146	3.41E-13	65.428	PGLRPAPNS(0.999)VDVDDFINT(0.	3	0.78165	17671.9	14638.3
Cds2	0.926151	0.042316	47.053	ALS(0.926)NLS(0.059)S(0.015)R	2	-0.11197	24017.0	23226.1
Xylt2	1	0.00587078	44.968	AQQPVS(1)GPLVR	2	0.74976	11728.2	10098.0
Tmem176l	0.960785	1.45E-21	98.062	LLGGDS(0.068)APAS(0.971)PT(0.9	3	-1.7732	416877.3	449768.0
Champ1	0.962874	8.25E-05	73.386	KPS(0.037)GS(0.963)PDLWK	3	0.52032	40381.7	37765.7
Kifap3	0.999886	0.00184116	83.869	RDS(1)LSGK	3	0.21315	180154.2	170318.0
Tanc2	0.998741	7.94E-06	65.949	QIAS(0.035)DS(0.966)PHAS(0.999	3	1.0796	24465.4	23964.3
Tbc1d2b	0.69819	0.000158421	81.565	T(0.255)S(0.698)PT(0.047)PGDFPK	2	1.1837	50870.2	49930.5
Tcof1	0.999974	2.35E-07	75.764	AASAPVKES(1)PNK	4	0.18047	88167.6	82912.5
A1i3	0.99409	4.05E-09	52.059	GMY(0.001)ES(0.005)LPVVAVKS(0	4	-0.12413	6890.2	6934.9
Mapk1	0.999883	3.48E-59	141.11	VADPDHDHTGFLT(1)EY(1)VATR	4	0.12543	211819.9	179203.0
Vps13b	0.808093	0.00784024	40.496	LVHNL(0.192)S(0.808)PK	3	0.13576	4914.6	5108.1
Tpbgl	1	3.63E-05	59.634	RAPAPAAPAGS(1)R	3	0.5818	6841.1	6246.8
Tra2a	0.502351	0.0358349	41.502	S(0.049)Y(0.001)T(0.447)PEY(0.50	2	0.24334	16630.7	15299.8
Arhgap35	0.997056	2.65E-14	115.83	NLNLVS(0.001)S(0.997)T(0.001)AS	3	0.21908	38808.6	26615.5
Naa15	0.942563	9.78E-09	54.834	ITVNGDS(0.943)S(0.057)AETEELAI	3	1.2076	14814.3	15498.3
Acss2	0.84861	2.64E-26	75.436	AELGMNDS(0.849)PS(0.148)QS(0.	4	-1.1831	155919.0	156891.7
Gfap	1	0.048089	45.829	S(1)VS(1)EGHLK	2	0.50538	33459.4	34819.4
Hdac5	0.652625	1.53E-31	75.343	T(0.153)QS(0.653)S(0.193)PLPQS(	4	0.38461	18446.0	17670.2
Vav3	1	0.000277628	43.794	VNS(1)VEQGPFKPEK	3	0.2143	17124.5	15192.3
Srrm2	0.999725	2.71E-14	107.97	ARS(1)RT(1)PPSAPSQSR	3	-0.5799	52613.9	50257.3
Myo9b	0.999553	3.65E-138	172.05	DKKPSLEGVEET(1)EGSGGQAAQEA	4	-0.28508	58823.0	55100.2
Inpp5j	0.855078	0.00569766	57.785	S(0.855)RS(0.172)PS(0.973)PGK	3	-0.060767	39577.9	41283.5
Synpo2	0.917419	4.43E-17	59.748	GT(0.001)GAGGDS(0.917)GPEEDY	3	-0.78103	9223.3	7740.1
Fasn	0.691635	0.000174603	40.315	WLS(0.001)T(0.002)S(0.005)IPEAC	3	0.025619	9248.8	8896.7

59844.6	57232.0	60086.6	62751.0	0.0	0.7	108
9194.8	7677.2	10098.8	8530.2	0.0	0.9	447
28081.0	27948.9	27941.8	31586.0	0.0	0.8	152
9949.3	9495.0	9325.1	8844.6	0.0	0.7	343
43120.1	36310.8	40266.5	42364.0	0.0	0.8	327
16009.0	16036.3	18137.0	16608.0	0.0	0.8	852
8488.0	9177.6	8775.8	7884.8	0.0	0.8	174
10473.2	9008.2	10878.8	10510.0	0.0	0.8	325
25459.8	25276.0	27968.5	23647.0	0.0	0.8	199
17722.0	16319.0	15519.9	17361.0	0.0	0.8	714
21714.4	22731.8	21858.0	23221.0	0.0	0.7	59
11398.1	10847.8	11792.5	10032.0	0.0	0.8	228
396664.3	418314.7	428451.4	395560.0	0.0	0.7	255
41584.9	37782.5	39569.7	40392.0	0.0	0.7	434
164795.9	157723.2	183753.3	165240.0	0.0	0.8	58
24356.9	21410.7	26268.3	23900.0	0.0	0.8	478
53619.6	50500.2	47998.1	53361.0	0.0	0.7	29
84869.0	80543.4	82735.5	88432.0	0.0	0.6	792
7576.6	7384.5	6453.6	7209.3	0.0	0.8	713
198044.7	183858.3	197806.0	197650.0	0.0	0.8	183
5370.5	4747.8	5236.8	5153.8	0.0	0.7	3026
6948.2	6412.9	6248.5	7043.4	0.0	0.8	375
15661.9	15720.6	16161.1	14924.0	0.0	0.7	89
29065.8	30536.0	29037.2	33355.0	0.0	0.9	770
16375.3	15697.5	15004.8	15214.0	0.0	0.6	854
144450.6	148923.5	155145.7	145640.0	0.0	0.6	307
36237.2	33705.0	33557.6	35531.0	0.0	0.6	396
17975.4	16908.6	18399.9	17892.0	0.0	0.6	489
14800.7	15777.8	14476.9	16087.0	0.0	0.8	567
54658.7	51645.3	52480.0	50813.0	0.0	0.6	2365
55628.6	52618.8	56153.0	57996.0	0.0	0.7	1405
32925.1	37481.1	37255.1	37182.0	0.0	0.8	861
8750.1	8354.6	8233.0	8703.8	0.0	0.8	724
7809.0	8578.8	7524.6	9425.3	0.0	0.8	725



Dclk1	0.757697	3.58E-15	85.855	IS(0.001)QHGGG(0.48)S(0.483)T(0	2	0.51358	21618.5	22523.0
Prph	0.988885	2.10E-26	113.88	EQHSELDKSS(0.001)IHS(0.989)Y(0	3	0.19907	103350.4	102821.5
Plekha6	0.861591	7.59E-12	92.8	ELS(0.138)T(0.862)PDKVLIPER	3	-0.24623	18960.0	18777.0
Larp1	0.745338	3.07E-41	112.85	T(0.006)KS(0.745)DES(0.249)GEEK	3	0.48658	15809.0	16085.2
C2cd2l	0.724688	5.55E-23	67.799	SSSCGDAELLGQAT(0.027)LPVGS(0	4	0.14104	20834.9	22442.9
Pgam5	0.998669	6.20E-13	105.09	NVES(0.999)GEDELAS(0.001)R	2	-2.3682	15111.2	13606.1
Tubb3	0.776384	1.16E-10	65.949	NS(0.223)S(0.776)YFVEWIPNNVK	3	-0.43451	6634.8	6151.3
Ptpn13	1	2.53E-09	71.031	LPHPLDVS(1)PGQIR	2	-1.2907	10128.6	9693.3
Add2	0.99816	3.75E-14	112.96	S(0.001)T(0.001)PAS(0.998)PVQS(	3	-2.344	74086.9	76558.1
Nefh	0.999786	2.68E-53	129.9	SPASVKS(1)PGEAK	2	-0.34232	948287.5	975047.6
Cdh6	0.927796	8.99E-11	65.184	LADMY(0.021)GGMDS(0.928)DKD	2	-0.9612	59222.5	61862.7
Srrm2	1	9.12E-23	146.43	RQPS(1)PQPS(1)PR	2	0.92722	95277.2	101344.0
Trim3	0.999544	2.56E-09	92.8	S(1)PGGPGSHVR	2	-0.083166	38848.0	38852.7
Anks1a	0.821782	1.36E-14	128.22	S(0.006)ES(0.151)LS(0.822)NCS(0.	3	-1.2845	117935.7	117578.3
Nefh	0.999492	7.02E-53	128.29	SPVEVKS(0.999)PASVK	2	-0.30393	1946572.2	2072401.2
Dnajc6	0.916734	5.03E-05	62.68	AT(0.003)T(0.062)S(0.917)AS(0.01	2	1.2354	13179.1	12616.7
Chd6	0.858681	7.49E-08	56.719	QT(0.007)AS(0.133)PS(0.859)DGS	3	-0.88045	6113.6	6570.5
Bmp2k	0.813385	0.0219099	41.598	SLQKLS(0.813)S(0.186)R	3	0.11142	15071.9	17487.0
Rab5a11	1	8.92E-13	103.88	NEPQNPGANS(1)AR	3	0.5435	28266.5	28086.5
Matr3	0.998009	3.16E-26	112.82	S(0.002)YS(0.998)PDGK	2	-1.1804	1272708.3	1289642.8
Tbc1d4	1	0.00108832	55.04	AHGLRS(1)PLLR	3	-0.1451	5044.4	4916.0
Fam13a	0.949641	2.39E-10	91.401	AST(0.001)VPIIGS(0.95)PS(0.039)S	3	0.49559	23898.9	26723.0
Arfgef2	0.690462	1.83E-06	54.951	GQS(0.004)QLS(0.23)NPT(0.69)DC	2	0.83942	17937.9	17161.2
Jakmip1	0.960215	3.02E-11	51.034	S(0.96)PAFNLQIT(0.01)T(0.01)FPE	5	0.86308	8715.4	8978.7
Akt1s1	0.849149	8.44E-43	136.84	SSDEENGPPS(0.151)S(0.849)PDL	2	0.10169	32463.5	37075.7
Pcp4l1	0.975224	4.68E-11	67.997	TPPAT(0.002)S(0.023)QAS(0.975)I	3	0.23321	21549.3	20391.6
RGD13117	1	7.65E-26	109.04	TNEDDVNKQS(1)PVRK	3	-0.14861	74631.9	74113.1
Arhgap35	0.995902	1.44E-22	65.854	AGSPLCNS(0.004)NLQDS(0.996)EE	3	0.27665	21154.6	22754.4
Rps6kc1	0.759182	9.59E-49	122.47	KGVDLLLLEGVQGES(0.216)S(0.759)	3	0.82512	116889.7	116064.6
Trim5	0.552863	0.000739936	68.626	S(0.447)S(0.553)PEEPEK	2	-2.3888	14357.5	13188.2
Uqcrh	1	0.00076819	77.062	LES(1)CDRR	2	-0.27048	90186.8	89714.5
Epn3	0.785278	2.56E-41	105.94	GKS(0.785)PS(0.215)PVELDPFGDS	4	0.4334	39827.1	38731.0
Srrd	0.791304	3.52E-39	90.955	LHLGS(0.203)S(0.791)PGGS(0.006	3	0.43126	36395.8	33054.4
Slc4a7	0.900856	6.94E-19	72.583	NGILAS(0.099)PQS(0.901)APGNLD	3	3.6945	14581.7	15002.5

21916.7	22525.0	22079.3	20371.0	0.0	0.6	48
100912.1	101886.0	101581.0	98589.0	0.0	0.3	505
18546.1	18450.7	17747.0	19164.0	0.0	0.5	1174;490
14987.0	15242.1	14922.5	15950.0	0.0	0.6	90
20524.2	20759.5	21801.4	20198.0	0.0	0.7	374;374
14771.9	14409.5	15384.2	12985.0	0.0	0.8	79
7083.1	6807.7	6359.8	6377.0	0.0	0.7	);339;339;339;339;339
10412.5	10074.0	10119.2	9547.5	0.0	0.6	1711
67764.5	67761.9	71971.0	75110.0	0.0	0.7	602
947723.0	947989.3	962431.4	913780.0	0.0	0.4	622
61081.7	58777.4	61501.5	58916.0	0.0	0.4	785
90724.5	93250.2	93558.7	95850.0	0.0	0.6	2659
37775.6	37938.7	38645.4	37009.0	0.0	0.4	437
113693.1	117530.7	110508.5	115480.0	0.0	0.5	106
2081375.1	2058244.6	1919070.7	2023700.0	0.0	0.6	676;646
12734.2	11455.0	13618.8	12829.0	0.0	0.8	621;591
6331.2	5693.0	6139.3	6873.8	0.0	0.8	1337
15015.7	15143.1	16794.8	14863.0	0.0	0.8	915
26615.0	27886.2	25999.0	27734.0	0.0	0.6	193
1166528.2	1270673.4	1206926.4	1190800.0	0.0	0.7	598
4612.7	4747.1	4767.9	4821.9	0.0	0.6	494
25095.7	25311.2	24572.4	24608.0	0.0	0.7	511
17924.3	16613.8	17616.6	17935.0	0.0	0.6	1537
7844.3	9102.9	7718.1	8304.3	0.0	0.8	608
33532.0	36218.4	32412.0	32774.0	0.0	0.8	213
20954.3	20318.5	21822.8	19737.0	0.0	0.7	16
76758.6	73582.9	75705.9	72572.0	0.0	0.4	130
20415.6	21371.1	20624.8	21290.0	0.0	0.7	985
112766.9	112954.9	113767.8	113420.0	0.0	0.2	100
14530.2	13032.3	13203.1	15162.0	0.0	0.8	86
92892.1	89859.0	92135.3	86402.0	0.0	0.5	50
40710.8	38599.8	39612.5	39136.0	0.0	0.4	417
34117.5	34379.2	34973.5	32548.0	0.0	0.7	109
13890.4	12939.9	14278.2	15557.0	0.0	0.8	263

Eif4g1	0.714169	6.53E-35	73.791	T(0.017)AS(0.051)T(0.176)PT(0.71	4	-3.2783	14983.6	15099.0
Chgb	0.985408	2.81E-06	53.453	HT(0.015)EES(0.985)GEEKHNAFSNK	4	1.728	9031.3	9672.9
Hps5	0.894937	2.59E-07	80.287	S(0.091)PS(0.895)PLLS(0.014)LQA'	3	-0.94811	22152.8	21830.8
Limch1	0.996622	4.88E-61	157.01	GSS(0.001)DGRGS(0.997)DS(0.993	3	-0.86283	32520.8	32359.0
Mia3	0.999836	0.00622122	59.227	KLS(1)QEEYER	2	-0.023244	13564.3	13533.7
Cblb	0.559493	0.00239221	40.405	S(0.235)PCGS(0.559)PT(0.202)GS(	3	0.95177	26881.8	28418.9
Prkag2	0.980729	0.00898701	59.931	MS(0.019)PGS(0.981)PK	2	0.65456	11309.0	11029.5
Ranbp2	0.977683	3.61E-10	82.663	YIAS(0.001)VQGS(0.021)APS(0.971	3	0.29005	2882.8	3078.8
Ccdc132	0.998983	1.03E-53	128.19	QGLKS(0.999)PPES(0.001)LNDLGA	3	-1.1996	34605.6	31975.1
Anapc4	0.936488	1.06E-76	112.95	IKEEVLS(0.936)ES(0.063)ET(0.001)	5	0.50414	7599.0	8171.8
Wdr53	1	0.025061	61.161	QQKS(1)PVK	3	0.82332	82364.1	78482.1
Cep170b	0.950083	6.95E-20	71.376	S(0.007)DT(0.028)LPDHT(0.95)PY(	4	-0.83701	6095.7	5340.5
Sept2	1	0.000391582	51.726	ILDEIEEHS(1)IK	3	0.22732	6322.3	6423.5
Prkcb	1	2.37E-33	137.79	HPPVLT(1)PPDQEVIR	4	0.52108	35299.7	36112.6
Clasp1	0.903201	1.13E-28	155.56	IPRPS(0.097)MS(0.903)QGCSR	3	-0.013635	18484.1	21032.2
Tmem63b	0.810384	2.29E-20	112.17	LTS(0.004)VS(0.181)S(0.81)S(0.00	2	-1.0392	34871.6	30799.2
Prpf4b	0.97735	4.15E-58	120.9	LCDFGSASHVADNDIT(0.015)PY(0.1	3	0.57141	13223.2	12844.9
Wnk1	0.918486	1.27E-32	74.876	QVAVDS(0.001)S(0.002)QEELS(0.9	4	1.4157	7674.5	8061.2
Phkb	0.793702	1.05E-14	96.247	RQS(0.185)S(0.794)T(0.022)ADAP	3	0.47685	4297.7	4065.8
Loh12cr1	0.87917	2.33E-20	110.22	GLLS(0.002)GQT(0.06)S(0.879)PT(	2	-0.46488	24129.1	24419.5
Prx	1	1.40E-05	74.611	GKEAT(1)EAK	2	0.62213	32784.4	28073.3
Prrg4	0.596788	3.74E-07	82.822	RPYPS(0.268)S(0.597)S(0.124)AIY1	3	-0.26581	15595.5	18155.0
Ppp2r5b	0.969852	0.000229226	109.79	S(0.003)HS(0.024)S(0.97)S(0.004)(	2	-0.021456	34602.0	37516.7
Snx13	0.831737	0.00151823	54.784	T(0.168)DS(0.832)DPEHCR	3	1.9646	4668.6	4388.5
Sntb1	0.99687	3.82E-59	141.19	KGSPVSEIGWET(0.003)PPPE(0.99	4	0.18864	294818.4	310053.9
Tmx1	0.999931	3.02E-179	200.48	KVEEQEAEDEEDVS(1)EEETENREGE	5	0.18225	953559.2	983811.9
Pi4k2a	0.998286	4.71E-50	122.6	VAAAGS(0.002)GPS(0.998)PPCSPC	4	-1.7404	117542.1	122744.8
Dst	0.780042	5.40E-08	59.502	LLDPEDVDVS(0.22)S(0.78)PDEK	3	-0.075685	13463.0	15398.5
Cep97	0.5	8.41E-24	92.563	KIS(0.5)T(0.5)EGNEEAGLLPCPK	3	0.30965	26345.1	24097.0
Sptbn1	1	5.16E-107	160.47	GDQVSQNGLPAEQGS(1)PR	2	0.089063	127115.8	130927.8
Trim2	0.59515	1.32E-47	85.337	TGNAYLT(0.002)AELS(0.595)T(0.3	4	0.96659	16078.5	17085.5
Mprip	0.850182	5.17E-20	72.935	AEEQLPPLLS(0.85)PPS(0.132)PS(0.	3	-0.38946	12402.7	10811.7
RGD15602	1	0.00566615	83.998	S(1)IEDLHR	2	-0.12822	40153.9	44813.4
Tanc2	0.95282	1.86E-27	104.84	SLPS(0.047)S(0.953)PLLTHQISISVR	3	0.68099	14983.6	15174.7

15619.4	14686.7	15183.3	15097.0	0.0	0.4	207
10097.1	10001.9	9046.0	9290.8	0.0	0.7	190
22749.3	20992.7	22661.7	22007.0	0.0	0.6	534
32325.7	30204.9	32765.7	32675.0	0.0	0.6	72;75
12700.1	13738.5	11398.2	14023.0	0.0	0.8	1557
26254.1	25872.2	26249.1	28126.0	0.0	0.7	525
10816.8	11191.0	11298.8	10134.0	0.0	0.7	101
2830.0	2453.8	3264.8	2932.2	0.0	0.9	21
33524.5	33701.7	31689.6	33110.0	0.0	0.6	15
8077.4	6711.3	9116.3	7639.0	0.0	0.9	777
72113.5	77846.3	78494.0	72894.0	0.0	0.7	280
6523.9	5350.4	6687.3	5635.4	0.0	0.9	166
6403.6	6323.4	6093.4	6426.6	0.0	0.4	207
33734.2	34429.8	34856.0	34182.0	0.0	0.5	641
18241.6	18283.5	19486.7	19066.0	0.0	0.8	750
30629.7	31700.8	29206.0	33860.0	0.0	0.8	101
13907.4	13195.1	12462.5	13682.0	0.0	0.7	849
8515.4	7563.8	8022.6	8279.2	0.0	0.7	1092
4182.1	4092.5	4290.8	3962.9	0.0	0.6	701
21319.5	20746.3	23425.7	24586.0	0.0	0.8	75
28267.3	28803.5	31868.0	27038.0	0.0	0.8	373;373
17495.3	17225.4	16477.4	16730.0	0.0	0.8	151
32472.6	34213.1	32715.5	36004.0	0.0	0.8	47
4990.9	4765.8	4554.2	4505.5	0.0	0.7	679
300623.0	288860.4	306091.7	296200.0	0.0	0.5	220
962415.1	961507.8	915528.6	976830.0	0.0	0.5	245
112873.3	112910.9	121921.6	112740.0	0.0	0.7	46
14561.1	13099.4	15058.3	14578.0	0.0	0.8	352;415
26156.1	23657.9	26133.7	25597.0	0.0	0.7	356
133090.9	124559.4	129284.5	131120.0	0.0	0.5	2124
14003.2	15478.6	15656.7	15288.0	0.0	0.8	387
11422.5	11479.2	11590.5	11021.0	0.0	0.7	294;294
44872.5	38911.1	45033.7	43849.0	0.0	0.8	171
15100.9	15588.6	14936.4	14021.0	0.0	0.6	88

Srrm2	1	0.0110719	66.504	S(1)VS(1)PCPK	2	-1.2633	91583.5	89919.6
Ralgapa1	0.715092	8.45E-26	74.364	HFS(0.014)QS(0.271)EDT(0.715)G	4	-0.4272	7283.2	6307.2
Carhsp1	1	9.82E-05	99.985	DRS(1)PS(1)PLR	3	0.36759	180857.9	182636.3
Gnal	1	0.000946081	58.63	S(1)PVELQNR	2	0.10071	57748.3	55168.2
Larp1	1	5.77E-32	140.91	ET(0.002)ES(0.998)APGS(1)PR	2	0.46985	340688.9	342248.4
Cd2ap	0.990052	5.45E-11	91.07	FNGGHS(0.99)PT(0.01)QSPEK	3	2.5837	76484.1	81575.4
Pitpnm2	0.832418	0.00929467	54.023	WS(0.168)S(0.832)NDLMDK	2	0.63732	10772.5	9964.2
Med14	0.518067	3.17E-15	57.902	LPGMSPANPS(0.004)LHS(0.078)P	4	0.27423	13163.6	12691.3
Ap4e1	0.999917	4.08E-13	63.691	IIEQPGCPS(1)PVMEAESTK	3	-0.82714	131302.1	129479.8
Fam171a1	0.980479	1.56E-19	62.858	LPGDHS(0.018)Y(0.002)VS(0.98)Q	4	1.8268	16569.9	16554.6
Eepd1	0.994006	1.39E-21	87.802	S(0.994)RPPS(0.015)T(0.009)HT(0	3	-0.23296	58707.3	63598.0
Eepd1	0.803172	1.39E-21	87.802	S(0.827)RPPS(0.192)T(0.09)HT(0.8	4	0.17454	58707.3	63598.0
Erbp3	0.999731	8.20E-41	108.69	RAS(1)GPGT(1)PPAAEPSVLTTK	3	1.07	85403.0	86191.2
Sphk2	0.886003	2.76E-33	92.565	AKS(0.888)ELALAPAPAPAAT(0.88€	5	0.48176	36744.1	35417.2
Lmnb1	1	0.000448997	123.75	FHQGGT(1)PR	2	-0.0037718	23796.3	24200.1
Mprp	1	0.0404544	46.462	AKS(1)LDRR	2	-1.1871	19161.6	19867.3
Mapt	0.679389	9.97E-17	72.864	T(0.096)T(0.096)PS(0.679)PKT(0.8	3	-2.3381	94982.6	100923.8
Gps1	0.676129	0.000170917	44.595	EGSQGELT(0.064)PANS(0.676)QS(	3	-0.29545	4740.7	4622.6
Hic1	0.999864	4.21E-12	65.887	S(1)PPGSSVPERPLSER	3	0.47041	32085.5	33636.9
Rhbdf1	0.999999	0.00153853	118.41	RIDS(1)YVK	2	-0.12828	85525.9	89484.1
Arhgef10	0.92481	0.0111018	63.624	S(0.925)LVS(0.075)QDHR	2	-0.29823	19726.9	15665.0
Pdlim5	0.915946	3.28E-57	85.648	KANSTPEPSQQSASPLS(0.001)AAE€	5	-1.245	6541.8	5631.1
Ube4b	0.509478	4.56E-19	74.11	LAGGQTS(0.001)QPT(0.017)T(0.0€	2	-0.52231	35861.5	35269.1
Akap12	0.857216	9.81E-48	118.15	AEDS(0.143)S(0.857)VEQLSTEIEPS	3	0.88315	56852.6	58082.7
Rcan1	1	3.30E-15	78.078	QFLIS(1)PPAS(1)PPVGWK	3	1.2781	115757.9	115099.3
Srrm1	1	1.45E-13	69.088	APKPEPVPEPKEPS(1)PEK	4	-0.24532	105689.3	112411.8
Gltsr1	0.889948	9.23E-06	73.927	GAGS(0.89)PT(0.047)PLPT(0.064)†	2	-0.18518	9698.0	9925.0
Sptan1	0.971864	2.34E-05	58.885	LGES(0.972)QT(0.028)LQQFSR	3	-0.30421	9169.8	7771.2
Snap91	0.878041	9.30E-33	114.52	S(0.192)S(0.251)PAT(0.442)T(0.11	2	0.41894	111472.6	107599.7
Ranbp2	0.990659	1.77E-06	77.42	S(0.002)ALS(0.764)PS(0.243)KS(0.	3	-0.4964	111792.2	120847.1
Ano3	0.997821	0.000140852	44.998	CS(0.998)FADLS(0.002)EFCLALGK	3	2.1573	1692.3	1380.1
Utrn	0.682368	5.74E-15	69.188	TMNDLSS(0.002)QLS(0.682)PLDL†	4	-0.20751	9873.5	10012.6
Sin3a	0.988715	1.76E-71	96.499	S(0.989)PPVQPHT(0.011)PVTISLG†	5	-0.59126	15025.4	15546.6
Arb1	0.985504	5.29E-59	142.23	DDKDEEDDGT(0.014)GS(0.986)PH	4	0.72478	120007.4	119322.4

86123.1	84036.9	90556.9	88819.0	0.0	0.6	927
7226.6	6596.9	7138.3	6754.1	0.0	0.8	777
182192.2	174596.6	187279.8	175240.0	0.0	0.5	30
59511.4	53286.4	59135.5	57299.0	0.0	0.7	66
326067.9	326699.0	331514.7	334960.0	0.0	0.4	390
75230.8	73392.6	79242.1	76996.0	0.0	0.7	510
9305.1	9308.2	9761.3	10501.0	0.0	0.8	365;341
12889.6	11884.0	12657.0	13596.0	0.0	0.7	1147
124903.8	124130.5	125031.3	130480.0	0.0	0.5	750
17142.9	15622.7	17562.1	16295.0	0.0	0.7	473
60264.1	67395.6	53625.6	58688.0	0.0	0.8	200
60264.1	67395.6	53625.6	58688.0	0.0	0.8	207
94583.9	83704.7	90114.5	88189.0	0.0	0.7	984
35230.1	36054.5	35590.1	34066.0	0.0	0.5	377
22995.2	23699.7	22058.9	24122.0	0.0	0.6	576
19052.8	18121.8	19588.2	19463.0	0.0	0.6	494;494
100412.8	96470.9	98342.0	96872.0	0.0	0.5	423
4530.1	4422.3	4829.0	4424.8	0.0	0.7	478
33807.7	32667.7	30929.8	34377.0	0.0	0.7	201
84296.2	85301.9	90823.0	79129.0	0.0	0.7	391
18775.0	17500.4	17297.1	18523.0	0.0	0.8	386
6366.3	5465.0	6136.4	6648.2	0.0	0.8	328
37667.0	35501.2	33625.9	37973.0	0.0	0.7	31
61719.4	55472.1	59116.3	59311.0	0.0	0.7	771
107262.7	110798.9	109867.3	112180.0	0.0	0.6	112
91784.9	97096.7	111865.6	96092.0	0.0	0.8	177
10559.3	9700.2	9898.6	10113.0	0.0	0.6	1366
7619.1	8039.9	8084.3	8053.4	0.0	0.8	1530
105659.3	106267.1	106389.9	107020.0	0.0	0.4	313
105314.4	111359.9	109642.9	111700.0	0.0	0.7	2155
1555.4	1983.3	1249.9	1322.8	0.0	0.9	95
9554.2	9089.7	9750.5	10143.0	0.0	0.7	2747
15801.4	14534.9	16359.9	14759.0	0.0	0.7	277
114555.5	113823.8	111053.5	123520.0	0.0	0.7	412



Psm2	0.802863	1.69E-06	75.826	FGGS(0.009)GS(0.803)QVDS(0.188	2	-0.13317	11044.1	10321.9
Rgs7bp	0.623087	0.000681511	60.547	GS(0.294)GS(0.623)ES(0.082)AHK	3	0.46529	25865.6	25319.0
Ncoa7	0.742544	1.05E-38	79.616	GALDSETGEKQDEAPEVDKQS(0.25	5	-0.82254	27140.6	25972.7
RGD15602	0.756786	0.00358656	40.798	GNNLPS(0.757)PVGNS(0.122)VS(0	2	1.332	12492.1	12678.1
Mtus1	0.997647	2.61E-20	100.18	RS(0.998)PT(0.002)SSAIPFQSPR	3	1.0935	55520.4	57105.4
Mprp	0.941347	1.07E-83	122.06	DQPDGT(0.01)S(0.044)LS(0.941)P'	3	-0.0051578	26219.9	25733.6
Nedd4l	0.670784	6.64E-11	52.642	AVKDT(0.089)LS(0.905)NPQS(0.03	5	-0.2908	5246.8	7111.5
Mapk8ip3	0.72767	0.00115835	49.448	S(0.019)YPS(0.728)VNIHY(0.253)K	3	1.5974	4662.9	5087.9
Prx	0.999316	5.41E-15	84.508	MPS(0.001)FGIS(0.999)VAGPEVK	3	-0.33114	8577.9	7668.9
Pgk1	1	7.00E-23	91.589	ALES(1)PERPFLAILGGAK	4	-0.13924	28426.3	26901.8
Rps6kc1	0.873131	3.18E-12	71.309	LQQPSASPQGS(0.074)YS(0.873)VE	3	2.3916	16228.8	17792.0
Smap1	0.650142	3.08E-79	107.59	NAIAITNISS(0.002)S(0.002)DAPLQ	4	-1.3446	15096.9	17097.6
Tjp2	0.945888	6.58E-30	128.22	QQYS(0.003)DQEY(0.946)HS(0.04:	3	0.42687	98481.9	97118.6
Pcyt2	0.775756	0.000408155	43.592	AHHS(0.203)S(0.776)QEMS(0.016	3	0.88075	1630.4	1526.9
Cacna1b	0.512946	1.16E-34	70.609	S(0.341)LEKGPS(0.513)LS(0.073)V	4	-0.20943	31106.3	30801.4
Polr2a	0.615143	1.54E-15	66.075	YS(0.043)PT(0.182)S(0.615)PT(0.1	3	0.82426	29514.0	27360.3
Map1b	0.993803	1.99E-21	97.235	TPEEGGYSY(0.006)EIS(0.994)EK	3	0.24603	33590.6	33498.7
Cst3	1	7.03E-18	72.793	LLGAPQEADAS(1)EEGVQR	3	0.11474	11750.2	11976.1
Stub1	0.91543	2.63E-59	135.64	LGTGGGGGS(0.007)PDKS(0.915)PS(	4	-1.1317	134760.9	132759.6
Prune2	0.535876	2.62E-49	91.079	KPGYQMTVLHIHEDPEALS(0.214)S	6	-0.10941	10911.8	11761.1
Apc2	0.994383	3.13E-10	59.005	Y(0.001)QAAAMAVS(0.994)PGT(0	3	0.78005	12666.3	13045.6
Tnks1bp1	0.841876	2.22E-21	104.76	VPS(0.842)S(0.158)DEEVVEEPQSR	3	0.20979	9643.3	8519.1
Abca8a	0.508435	0.000122607	78.488	CAGS(0.492)S(0.508)LFLK	2	0.081851	27596.2	29695.7
Tubb4a	0.938272	8.47E-06	56.817	AVLVDLEPGT(0.062)MDS(0.938)V	3	-1.1496	4391.9	4381.5
M6pr	1	1.71E-08	49.765	GVGDDQLGEES(1)EERDDHLLPM	3	0.45316	28932.0	32875.6
Rragc	0.570066	0.000157918	48.907	MSPNETLFLES(0.43)T(0.57)NK	3	0.033832	44519.1	43853.6
Zeb2	0.606438	2.46E-38	87.72	T(0.113)GS(0.356)S(0.414)PNS(0.1	3	3.718	18887.3	17589.0
Ociad1	0.999994	5.14E-15	111.83	S(1)LPPGHYTQKPK	4	0.37905	113317.7	119980.5
Cabin1	0.999995	4.24E-70	115.89	APLS(1)PDGEEVSGVTEGSPFLSQEP	3	-0.46003	11975.7	11179.8
Tab2	0.598612	1.71E-10	74.793	LKSEVNEMENS(0.401)LT(0.599)R	3	1.4796	10627.3	10237.6
Zeb1	0.805863	2.31E-15	55.051	MQAGQIPGQS(0.806)LEPPS(0.19)	3	1.7232	11577.0	12765.9
Tshz3	0.629619	2.29E-10	49.525	VQSVPLAAT(0.004)T(0.012)FT(0.0	3	1.1588	10809.6	9951.2
Mag	1	1.52E-06	70.134	IS(1)GAPDK	2	0.02073	114132.3	139845.7
Gfpt1	0.754061	3.94E-07	62.861	VDS(0.754)T(0.194)T(0.052)CLFPV	3	0.61547	21549.3	22190.6



11200.0	9968.4	11298.8	10794.0	0.0	0.7	363
25189.4	25402.5	24360.8	25427.0	0.0	0.4	40
26776.8	25237.5	27095.5	26320.0	0.0	0.6	405
12373.3	12094.1	13204.2	11664.0	0.0	0.7	183
56307.8	53829.8	57341.3	55147.0	0.0	0.5	1184
26476.6	25934.8	25780.0	25501.0	0.0	0.2	226;226
5643.0	5995.0	5805.4	5922.3	0.0	0.9	471
4956.9	4130.9	5273.0	5076.2	0.0	0.8	595
7691.1	7655.5	7924.8	7987.1	0.0	0.7	429;429
27263.4	26047.0	28732.6	26534.0	0.0	0.7	203
16866.1	17891.9	15568.0	16640.0	0.0	0.8	273
14990.2	15066.1	15583.0	15806.0	0.0	0.8	152
96180.8	94834.1	92806.4	99630.0	0.0	0.5	408;435
1573.2	1384.0	1714.3	1559.2	0.0	0.8	144
29294.7	28661.6	30268.3	30865.0	0.0	0.6	2089;2088
29069.0	29375.5	26777.0	28465.0	0.0	0.7	1892
34562.5	32328.9	33342.8	34413.0	0.0	0.5	1953;1827
10495.3	11312.0	11304.1	11078.0	0.0	0.7	39
128395.8	127342.3	135226.2	127250.0	0.0	0.6	24
9489.9	10550.3	11350.1	9767.3	0.0	0.8	2208
13462.4	12107.3	13778.0	12686.0	0.0	0.7	708
9075.2	9200.0	8962.2	8656.4	0.0	0.7	1596
27364.5	26961.1	29686.9	26706.0	0.0	0.7	694;730;698
3604.2	3506.0	4705.7	3975.6	0.0	0.9	75;75
29481.0	30493.1	30973.6	28418.0	0.0	0.8	268
43359.7	42587.1	43144.4	43976.0	0.0	0.3	95
19538.3	18504.6	18761.1	17888.0	0.0	0.7	296
114268.0	111326.9	116941.7	113960.0	0.0	0.5	122
11733.4	11856.5	11749.7	10747.0	0.0	0.7	2003
10251.5	10272.9	10670.8	9695.0	0.0	0.6	573
12163.5	11689.3	12203.9	12054.0	0.0	0.6	619
10405.1	10967.1	10031.5	9690.0	0.0	0.7	419
126596.6	129762.2	130556.2	114430.0	0.0	0.8	565
20824.4	23084.9	20231.6	20260.0	0.0	0.8	243

Ablim1	0.962241	1.52E-71	175.17	T(0.027)LS(0.962)PT(0.011)PSAEG	2	1.405	123096.4	126748.5
Nalcn	0.698329	2.38E-21	78.554	GKS(0.015)LET(0.264)LT(0.698)QC	4	1.4733	5981.9	5408.9
Tmem245	1	8.03E-15	101.56	GGPAEEPS(1)PRGS(1)PR	3	-0.77075	155358.4	160171.5
Nmnat1	0.96409	1.83E-10	63.16	S(0.964)HPQS(0.033)S(0.003)PVLE	4	-0.50031	16066.6	16472.4
Phtf1	0.985176	7.56E-08	54.898	GTET(0.015)DNDS(0.985)GCFHPIII	4	-0.477	6527.9	6473.7
Ncor2	0.718654	2.56E-07	52.97	QS(0.719)PLAY(0.266)EDHGAPFT(	4	0.11728	7288.9	7211.7
LOC10091	0.679788	0.0478749	42.317	S(0.019)INDDGS(0.68)S(0.301)DPF	2	-2.4957	11593.3	12625.5
Raver1	0.998163	1.55E-07	60.55	MS(0.998)PPPS(0.001)SFSEPR	2	0.20715	20334.0	20125.1
Epb41l2	0.829917	6.37E-05	58.889	DGKS(0.255)PT(0.83)KVT(0.915)PI	5	0.60429	59179.6	58401.9
Ranbp2	0.693347	6.34E-67	130.29	QNQPTS AVSAPAS(0.001)S(0.012)E	3	-0.82072	36797.7	38137.5
Syde1	0.894286	1.16E-26	80.702	VLEGSQAGA EVPLS(0.894)PET(0.10	3	0.51965	6705.0	6438.6
Myo9a	1	0.00925183	59.265	ENKEPS(1)PK	3	1.327	83401.7	79477.0
Chd4	0.990419	7.43E-05	63.062	MS(0.99)QPGS(0.009)PS(0.001)PK	2	-0.37533	31659.7	32633.2
Zfp37	0.999022	0.00127534	56.205	IHS(0.001)EEQS(0.999)QEED	2	-0.53002	3638.1	3790.2
Akap12	0.651029	6.42E-07	54.253	ALGS(0.651)LGGS(0.268)PS(0.081)	2	-0.054118	9155.4	9615.4
Suclg2	0.530946	0.000155183	50.358	S(0.003)S(0.003)GLPIT(0.531)S(0.4	3	1.4775	11487.5	12140.7
Cic	0.850948	2.48E-46	102.21	S(0.002)AAAT(0.147)S(0.851)PAPF	3	0.3547	26118.5	23656.1
Pkn1	0.89778	4.15E-07	45.992	T(0.01)S(0.01)T(0.075)FCGT(0.898	2	-0.22501	3763.7	3594.9
Pvr1l	0.627652	2.23E-20	67.367	AGIPQHHPMAQNLQY(0.372)PDC	5	-0.18075	28230.7	26357.8
Fermt2	0.997978	1.54E-26	66.43	KLDDQS(0.998)EDEALELEGLIMP(	5	1.401	4181.8	4128.7
Stard3nl	1	6.27E-12	132.5	LLLVDAS(1)ER	3	0.20288	27500.8	27042.2
Tusc5	0.930516	3.94E-07	98.501	QPS(0.01)LS(0.931)GS(0.056)PS(0	2	-0.21156	19542.1	18896.6
Akap13	0.876083	0.00284768	80.834	S(0.876)NT(0.124)EEALK	2	0.45932	24659.8	29444.5
Ptpn13	0.998047	6.27E-16	91.414	CPT(0.998)PDQDAQS(0.002)QAPE	4	0.096866	74763.1	81360.4
Rab11fip5	0.848706	4.27E-07	98.811	T(0.849)YS(0.14)DEAS(0.012)QLR	2	0.68439	21313.2	18897.6
Mcoln1	0.542026	0.00309879	47.621	NS(0.458)PEDHS(0.542)LLVN	2	-0.67797	9708.4	9352.6
Ank2	0.997597	2.14E-29	79.36	LLRDPDGS(0.998)AEDDS(0.002)LE	4	-1.0207	35015.9	35898.7
Ppp2r5a	0.51689	0.00394688	76.927	S(0.002)QGS(0.517)S(0.481)QFR	2	-0.34041	23873.9	23003.4
Cenpc	0.957034	2.01E-69	146.25	RPS(0.043)KPNIAQELS(0.957)MGC	4	-0.6015	22878.0	19765.3
Dgki	0.590119	7.50E-18	88.637	RT(0.59)S(0.409)MPLLNDPQS(0.00	3	0.42201	50506.4	50359.4
Srrm2	0.999989	0.00931579	49.333	S(0.134)KT(0.866)PPRQS(1)R	3	0.52184	26914.0	25864.2
Srrm2	0.969831	0.00931579	49.333	S(0.03)KT(0.97)PPRQS(1)R	4	0.69061	26914.0	25864.2
Pkn1	0.615982	2.85E-15	63.701	TDVSNFDEEFT(0.014)GEAPT(0.616	3	0.15006	26229.4	27701.5
Hnrnpa3	0.998321	8.40E-73	144.18	SS(0.001)GS(0.998)PYGGGYGSGG(	2	0.28294	428267.3	451259.8

125872.6	121952.5	117882.1	130140.0	0.0	0.6	458;359
5337.6	5452.7	6009.6	5010.4	0.0	0.8	786
146995.1	149924.5	150187.2	155350.0	0.0	0.6	12
17179.1	14803.3	16868.5	17287.0	0.0	0.8	112
5286.1	5704.9	6507.5	5796.0	0.0	0.9	207
8473.8	7475.2	8088.5	7060.2	0.0	0.8	1510
12179.5	11572.7	11836.3	12434.0	0.0	0.7	117
19991.8	19338.4	20235.8	19955.0	0.0	0.3	626
60994.4	57444.3	59388.8	59027.0	0.0	0.4	593;593;593
38024.8	36259.1	36532.7	38451.0	0.0	0.5	1641
6579.1	5901.3	6927.5	6594.1	0.0	0.8	60
86451.1	78206.0	79469.7	87867.0	0.0	0.7	1898
30404.0	30719.7	30244.8	32299.0	0.0	0.6	1518
3700.1	3663.9	3807.9	3488.2	0.0	0.6	622
10339.6	8877.1	9469.1	10324.0	0.0	0.8	1348
11016.9	10940.5	12022.2	11159.0	0.0	0.7	415
24825.3	25773.2	25119.5	22581.0	0.0	0.8	1642
4426.0	3769.1	3581.6	4256.3	0.0	0.9	782
27426.2	26207.6	27250.4	27320.0	0.0	0.6	383
4133.9	3886.5	4290.9	4079.4	0.0	0.6	159
28202.4	26291.2	28263.5	26945.0	0.0	0.6	193
19945.0	17607.1	20949.7	18948.0	0.0	0.8	72
29115.8	28018.2	22858.3	31091.0	0.0	0.9	2356;1027
77178.0	75189.9	75162.0	79439.0	0.0	0.7	1458
22171.2	21613.1	19170.4	20660.0	0.0	0.8	305;305
9692.1	9830.7	9439.1	9050.8	0.0	0.6	576
34918.1	34922.6	33903.8	35416.0	0.0	0.4	2506
24767.8	22261.0	23698.2	24610.0	0.0	0.7	41
21025.6	20997.1	21977.7	19738.0	0.0	0.8	414
48266.6	49378.3	49940.9	47574.0	0.0	0.5	704
28242.8	25963.4	27713.1	26129.0	0.0	0.7	809
28242.8	25963.4	27713.1	26129.0	0.0	0.7	804
26083.7	24269.5	28377.8	26168.0	0.0	0.8	918
430211.2	422912.5	441681.2	425520.0	0.0	0.5	337

Sbf1	0.989886	2.41E-14	119.72	LGLGTLSS(0.01)S(0.99)LSR	2	1.0255	32154.6	33342.9
Tmem47	0.998898	0.00203737	52.484	AS(0.001)AGS(0.999)GMEEVR	2	-0.41464	16461.4	17055.9
Marcks1	0.999767	0.0091172	68.536	SNGDLT(1)PK	3	0.014713	69132.5	76001.9
Wbp1l	0.988225	3.00E-27	80.664	SST(0.001)RPPS(0.988)VADPQS(0.	3	2.8981	11356.3	10627.9
Srrm2	0.977527	0.0185573	53.013	S(0.978)RT(0.83)S(0.169)PVS(0.02	2	0.28136	10744.7	11567.0
Nefm	0.997416	0.0410024	48.822	GT(0.003)KES(0.997)LER	2	0.10485	32498.1	31504.5
Ppapdc3	0.872399	5.00E-24	95.622	KAS(0.872)GPS(0.064)T(0.064)QPI	3	1.0221	24940.1	24770.5
Dlgap3	0.732543	5.09E-59	92.589	S(0.208)NS(0.733)VT(0.06)AGVQA	4	0.05713	8825.5	7577.0
Pvrl1	0.82959	1.27E-53	98.299	AGPLGGS(0.83)S(0.17)YEEEEEEEG	3	0.54612	5059.8	5174.1
Unkl	0.534917	1.06E-05	43.794	AAAAALS(0.092)GS(0.359)PPQT(0	3	1.5292	3963.3	4632.7
Map2k5	0.786454	5.72E-16	67.214	AGPS(0.006)QHT(0.204)S(0.786)P	4	0.84635	31960.2	31754.6
Nefh	0.999991	1.09E-64	146.39	S(0.915)PAT(0.085)VKS(1)PVEAK	4	-0.32779	2496516.7	2636763.9
Srsf1	0.998289	0.00433644	58.829	GS(0.998)PRY(0.002)S(1)PR	3	0.1386	75853.2	78119.0
Srsf1	0.999863	0.00433644	58.829	GS(0.998)PRY(0.002)S(1)PR	3	0.1386	75853.2	78119.0
Lmna	0.714955	4.79E-10	66.893	S(0.029)GAQAS(0.715)S(0.229)T(C	3	0.46583	6502.6	7483.9
Sarm1	0.999909	7.06E-40	121.26	EVS(1)PGVGTEVQGALER	3	0.88506	35636.1	32463.2
Sptb	0.946586	6.90E-09	56.681	AQS(0.947)LPLPS(0.053)LAGPDAS	3	1.6239	22746.8	24716.8
Tsc22d1	0.622731	9.58E-13	50.49	LS(0.012)T(0.03)AGS(0.623)S(0.23	4	-0.93756	874.5	1067.6
Mylk	0.76207	2.73E-12	75.445	KS(0.069)S(0.254)T(0.255)GS(0.43	3	1.3746	40534.4	38792.4
Mylk	0.763467	2.73E-12	75.445	KS(0.001)S(0.001)T(0.001)GS(0.01	3	1.0089	2729.8	2972.3
Mgll	0.593813	4.14E-11	53.123	RT(0.594)PQNVPY(0.406)QDLPHL	4	0.47814	3552.6	3916.2
Cbarp	0.999873	1.77E-26	82.8	GAGDEVSELPAPARS(1)PPR	3	0.10023	73775.6	79361.8
Slc39a10	0.94318	0.00546411	53.869	QST(0.001)EES(0.056)T(0.943)JGR	2	0.3757	14154.7	16427.4
Stac	0.996838	2.05E-31	85.51	EATGTEQPPS(0.997)PAS(0.002)T((	3	0.23608	29807.4	28948.7
Rapgef1	0.69219	0.000116378	43.768	S(0.104)CGGES(0.871)PRLS(0.692)	3	-2.15	8874.1	10482.3
Rapgef1	0.871342	0.000116378	43.768	S(0.104)CGGES(0.871)PRLS(0.692)	3	-2.15	8874.1	10482.3
Gnas	0.996542	0.000228655	64.534	RDQS(0.997)PES(0.003)PPR	3	0.66549	11762.1	11137.0
Myoc	0.999963	9.94E-21	76.889	RGQCPSTHHPSQDMLPGS(1)R	4	-0.58077	21965.6	23900.7
Kihl17	0.79505	7.61E-48	85.044	T(0.007)QS(0.021)PEHS(0.795)S(0	3	-0.36948	2867.0	2699.7
Myo9b	0.997036	5.32E-08	45.983	RKS(0.997)ELGAEPGHFGVCVDS(0.	4	0.29643	7889.3	7242.2
Wdr81	0.964954	3.18E-09	52.19	QQFT(0.001)VS(0.015)CDDS(0.965	4	-0.76304	5395.7	5689.7
Asap2	1	2.22E-10	71.279	LLHEDLDES(1)DDDVDEK	3	0.78672	33013.4	33742.2
Nefl	0.758758	1.50E-105	140.27	S(0.008)YS(0.155)S(0.759)S(0.075	4	-0.1427	772939.8	713389.5
Dopey1	0.951197	2.35E-30	86.258	CGGHS(0.049)GS(0.951)PILYSNSFF	3	-0.38181	19352.4	20992.8

31317.5	31733.8	32363.9	31267.0	0.0	0.5	1046
17743.3	15979.1	17431.7	17082.0	0.0	0.7	6
73935.1	72816.2	67307.5	75666.0	0.0	0.7	41
11489.6	10658.5	11521.0	10794.0	0.0	0.7	171
10473.9	10930.5	10979.2	10386.0	0.0	0.7	1849
32454.5	31554.5	32285.9	31177.0	0.0	0.4	338
21565.4	21911.2	24543.5	23758.0	0.0	0.8	43
7961.9	8713.7	8130.5	7157.4	0.0	0.8	582
5400.3	4921.8	5282.5	5197.1	0.0	0.6	395
4001.2	4117.1	4303.7	3988.9	0.0	0.8	19
30257.1	32508.2	30433.9	29632.0	0.0	0.7	44
2793407.6	2879584.5	2374419.9	2554800.0	0.0	0.8	646;616
75619.4	72652.3	75029.5	78498.0	0.0	0.6	234
75619.4	72652.3	75029.5	78498.0	0.0	0.6	238
7329.1	6844.4	6758.7	7396.5	0.0	0.8	17
34973.5	33015.3	36376.6	32153.0	0.0	0.8	54
22985.6	22489.8	24187.7	22728.0	0.0	0.7	2300
1348.9	1479.2	854.0	909.1	0.0	0.9	269
38661.4	38544.8	33270.1	44429.0	0.0	0.9	1812
2178.8	2499.8	2168.5	3096.2	0.0	0.9	1813
3816.2	3424.7	3602.7	4090.9	0.0	0.8	10
76910.8	73584.0	74283.6	78785.0	0.0	0.6	253
14865.6	14941.9	14546.4	15289.0	0.0	0.8	542
31526.2	30299.5	28693.1	29958.0	0.0	0.6	27
10558.6	8619.8	11118.2	9736.3	0.0	0.9	354
10558.6	8619.8	11118.2	9736.3	0.0	0.9	350
11601.4	11658.5	9920.9	12413.0	0.0	0.8	241
26796.0	21629.6	25865.5	24098.0	0.0	0.9	198
3056.5	2541.1	3073.4	2882.0	0.0	0.8	18
7687.9	7728.0	7944.9	6811.4	0.0	0.8	1649
4967.8	4899.6	5294.4	5623.6	0.0	0.8	1264
31809.4	30985.9	31218.3	34914.0	0.0	0.7	653
760473.8	744782.7	710936.7	758110.0	0.0	0.7	59
18055.3	18091.0	19313.6	20139.0	0.0	0.8	2408

Ranbp2	0.884109	0.000204633	42.705	S(0.054)QLNES(0.884)AGS(0.061)(	3	0.39836	15399.9	15700.1
Sh3tc2	0.713187	1.63E-14	67.01	EGS(0.713)S(0.213)KDPPLT(0.04	3	-0.74316	26340.3	25564.7
Gnai2	1	3.21E-06	75.483	MFDVGGQRS(1)ER	3	0.68614	8801.3	8965.0
Disp2	0.984483	2.41E-14	109.16	RS(0.001)PS(0.984)FDT(0.011)S(0.	2	-0.51655	90315.7	88002.2
Slc12a4	0.800125	5.92E-09	57.525	LESLYSDEEDES(0.8)VT(0.2)GADK	3	0.016293	8345.3	9809.9
Arhgef11	0.5	3.30E-15	85.166	S(0.5)RS(0.5)DVDMDAAAEAR	3	-0.56908	26488.2	26731.8
Znrf2	0.664509	2.93E-26	109.79	S(0.665)RS(0.335)LGGAVGSAASGF	3	0.11174	12514.8	17784.3
Synpo2	0.999439	0.000342231	125.17	RSES(0.999)LS(0.001)EK	2	0.88814	39773.5	37450.9
Bbx	0.592972	4.16E-05	41.911	T(0.007)ADGRVS(0.593)PAGGT(0.	4	0.39252	18025.0	16689.6
Arhgap26	0.980644	4.82E-06	45.735	IFNTVPDVPLT(0.019)NAQLHLS(0.9	3	0.36118	1956.5	1642.4
Rbm17	0.998881	5.08E-13	68.952	S(0.999)MGGAIIAPPT(0.001)SLVE	3	0.38688	17900.9	16166.3
LOC10255	0.996413	3.34E-36	103.58	S(0.996)GGGELT(0.004)LGLEPSEE(	3	0.27	6229.7	6834.1
Etv6	0.882858	5.05E-58	104.83	IS(0.032)S(0.115)T(0.883)PPES(0.9	3	0.38058	27867.0	27406.4
Bod11	0.557523	1.42E-71	105.19	S(0.144)ES(0.558)CS(0.298)EDKYE	5	0.72824	18348.2	18915.2
Ubr4	0.945799	0.000750776	72.531	HAS(0.946)T(0.051)S(0.003)PADK	2	0.19045	15161.3	13967.0
Osbpl3	0.826073	0.0197191	49.06	KRS(0.169)S(0.826)LS(0.005)K	2	1.1748	26202.0	25763.2
Tbc1d4	1	0.0360133	56.916	VAS(1)PVNK	2	-0.25194	33421.3	34883.0
Kcnn3	0.709044	3.25E-11	68.329	KLS(0.291)DQANT(0.709)LVDLSK	3	-0.41208	28006.5	28603.2
Ahnak	1	2.72E-85	165.49	AS(1)LGS(1)LEGAEAEETSSPK	3	0.21249	992869.9	954831.5
Tbc1d4	0.929702	4.69E-13	69.935	HAS(0.93)APS(0.07)HVQPSDSEK	5	-0.010838	42451.0	42558.1
Arhgef28	0.931924	1.10E-06	55.128	NLES(0.006)GRS(0.932)PS(0.062)E	3	1.1648	12666.3	12463.1
Fam193a	0.760771	2.10E-08	42.385	T(0.055)EES(0.048)KVNT(0.761)PF	5	0.31519	4647.6	4700.5
Pds5b	1	3.77E-13	65.207	HKEELLGNEDEQNS(1)PPKK	5	0.022958	68255.9	65432.1
Srrm2	0.999934	6.15E-258	244.72	ELSHS(1)PPR	2	-0.43673	218021.8	214622.4
Gapdh	1	0.0110577	76.064	AAFS(1)CDK	2	0.32667	30753.2	32407.3
Sorbs1	0.998905	7.36E-14	105.99	SEDDDS(0.001)DLHS(0.999)PR	2	0.39754	13322.2	13529.3
Cit	1	0.0166928	54.539	RHS(1)LENK	3	1.7404	16813.2	17558.3
Syn1	0.911576	2.62E-05	50.358	GS(0.016)HS(0.912)QT(0.145)PS(C	3	0.66483	11544.1	10988.9
Syn1	0.927707	5.33E-17	70.26	GS(0.016)HS(0.912)QT(0.145)PS(C	3	0.66483	11544.1	10988.9
Prkab1	1	0.0307563	42.599	QAGHKT(1)PR	3	0.064702	7746.6	7938.4
Sytl2	0.98734	1.07E-22	66.378	S(0.987)VPAFLQDES(0.012)DDRET	4	1.0602	10970.7	11368.4
Limch1	0.972098	0.00306078	44.045	S(0.972)INHQIES(0.028)PGER	2	-0.018896	8675.1	8985.4
Cacul1	1	1.56E-13	69.088	ELPGGQLLAVHAGS(1)MDR	3	0.75727	4911.3	5058.4
Peg3	0.92135	5.55E-08	60.134	S(0.921)QDAES(0.078)YQNVVELK	3	-0.084524	7685.3	6709.1

15723.7	14550.3	16455.0	15132.0	0.0	0.7	1706
26797.0	23964.8	25548.1	28036.0	0.0	0.8	45
8709.9	8677.7	9108.8	8301.8	0.0	0.6	207
85801.6	86947.4	86854.0	86451.0	0.0	0.4	1121
9595.9	8894.2	9459.0	8991.8	0.0	0.8	942
27162.2	24742.5	28633.2	25830.0	0.0	0.8	675;664
17357.9	16444.4	14184.1	16331.0	0.0	0.9	79
33476.6	36558.3	34194.5	38331.0	0.0	0.8	357
20583.8	18232.9	18613.6	17644.0	0.0	0.8	792
1280.7	1675.6	1603.8	1528.9	0.0	0.9	584
17065.1	16493.9	16941.2	16951.0	0.0	0.7	169
6709.1	6452.6	6679.0	6352.7	0.0	0.7	514
30387.0	25899.7	28471.9	30040.0	0.0	0.8	18
19935.4	18234.0	20193.1	17938.0	0.0	0.8	864
13827.6	13813.3	14021.7	14495.0	0.0	0.7	1761
23716.0	23552.3	27611.6	23416.0	0.0	0.8	185
33414.9	30899.0	36217.4	33124.0	0.0	0.8	602
23240.1	25875.5	27536.8	25278.0	0.0	0.8	628
1071562.2	991118.7	1004920.7	979410.0	0.0	0.7	5440
39743.1	42300.1	40150.0	40492.0	0.0	0.6	169
12215.7	12011.6	12076.7	12715.0	0.0	0.5	312
4239.1	4445.3	4499.5	4445.4	0.0	0.7	599
69233.7	66602.6	65920.4	67458.0	0.0	0.5	1249
222020.4	212292.2	216293.5	216600.0	0.0	0.3	1280
32770.7	31133.3	31422.4	31988.0	0.0	0.5	22
12640.5	12129.3	13633.8	13158.0	0.0	0.7	673;724
16414.7	15239.9	17430.7	17382.0	0.0	0.8	233
10675.2	10492.0	11497.5	10739.0	0.0	0.7	432
10675.2	10492.0	11497.5	10739.0	0.0	0.7	436
7900.7	7413.2	8169.5	7662.6	0.0	0.6	19
12827.9	11774.0	11050.8	11835.0	0.0	0.8	561
8271.1	8526.6	8218.3	8813.5	0.0	0.7	809;823
4737.1	4627.6	5344.0	4523.7	0.0	0.8	72
7610.4	6820.9	7287.6	7579.7	0.0	0.8	97



Ncf2	1	0.000875908	88.596	LQLS(1)PGHK	2	0.3474	39003.0	39773.0
Clasp1	0.964445	2.37E-92	129.76	VSSSSGSTAFSSAAALPPGS(0.035)Y.	3	0.48342	64261.6	66860.2
Kmt2e	0.875575	1.96E-30	86.557	T(0.062)S(0.062)KPGS(0.876)PGPI	4	0.42524	105302.9	106090.3
Lap3	0.888042	1.17E-08	56.817	T(0.008)KS(0.026)WIEEQEMGS(0.:	3	0.41665	15897.2	15807.6
Rapgef2	0.61334	8.32E-26	70.718	HIPAAALPVS(0.071)GT(0.071)LS(0.C	4	0.47457	4786.9	5204.5
Purb	0.5	1.73E-137	159.38	DSLGFDFIEHYAQLGPS(0.5)S(0.5)PEI	4	-0.19347	57228.3	61753.0
Purb	0.5	1.73E-137	159.38	DSLGFDFIEHYAQLGPS(0.5)S(0.5)PEI	4	-0.19347	57228.3	61753.0
Map7d2	1	1.45E-97	184.92	GATSVSSGGLGS(1)PLR	2	0.77588	174202.8	179762.4
Uri1	0.697413	8.87E-70	116.7	S(0.151)PS(0.697)S(0.151)EETEAG	4	0.31967	20019.1	21765.0
Nelfe	0.695499	6.70E-15	69.27	S(0.192)LS(0.695)EQPVVDT(0.096	2	2.044	2869.1	2556.6
Pdlim4	1	0.0015101	46.069	CGHGIVGT(1)IVK	3	2.343	3619.2	3726.7
Iscu	1	0.00539862	93.267	ELS(1)APAR	2	-0.40712	66637.4	71762.4
C2cd2l	0.983902	3.54E-30	93.176	NLGT(0.984)PT(0.748)S(0.143)S(0	5	0.019458	193452.6	194801.1
Pcm1	0.598172	8.95E-09	55.208	ACPDLQLS(0.034)AT(0.05)S(0.05)I	4	2.4171	21142.6	21639.9
Rbm8a	0.998551	0.000237341	87.878	GFGS(0.999)EEGS(0.001)R	2	0.011129	30057.9	33885.9
Acap2	0.862103	4.61E-17	86.54	KS(0.061)S(0.862)PS(0.064)T(0.01	3	0.76207	47425.7	46256.9
Fez1	1	6.03E-08	89.624	S(1)MEDLVNEFDEK	3	1.2375	14640.1	12636.5
Cir1	0.998205	2.92E-70	179.79	SRPHQS(0.998)PS(0.002)EEQK	3	0.37331	33262.6	33221.2
Eif3e	0.805927	5.78E-28	83.404	LGHVVMGNNAVS(0.806)PY(0.194	3	0.19136	14148.8	14330.1
Mapt	0.999906	3.87E-32	112.55	T(1)PPGSGEPPK	2	0.29773	286565.1	291538.0
Cep170b	0.936996	1.73E-05	78.488	S(0.002)NS(0.033)LS(0.937)T(0.02	2	0.11888	16350.4	13097.2
Hnrnpul2	0.999998	0.015378	71.614	EEAYHS(1)R	2	0.21277	9374.6	8944.5
Map4	0.730578	0.0111018	63.624	AVS(0.731)PS(0.235)S(0.034)VK	2	-0.05118	12185.6	17538.6
Rab6a	1	6.36E-71	122.8	S(1)REDMIDIK	3	3.052	90492.2	93982.6
Trpm3	0.705533	0.000392478	47.217	T(0.087)S(0.087)S(0.706)DCT(0.10	2	0.091193	33161.3	35586.1
Pds5b	0.754688	6.80E-15	69.255	METVSNAS(0.003)S(0.005)S(0.018	3	0.38777	8275.8	9115.8
Sphkap	0.624429	3.01E-38	79.177	IIADDGEAANAS(0.624)PGPVS(0.09	3	0.69428	12261.9	11662.4
Gng12	0.999109	1.42E-17	73.138	S(0.999)DPLLMGIPTSENPFK	3	1.3497	7314.8	7901.8
Fgf13	1	7.62E-61	154.42	EPS(1)LHDLTEFSR	3	-0.20097	321009.7	388461.4
Map1b	0.977164	2.71E-09	94.09	DLTGQVS(0.023)T(0.977)PPVK	3	-1.0154	57712.6	63888.7
Rims1	0.705212	4.82E-22	87.554	QGS(0.292)PT(0.705)QS(0.003)PP.	3	0.29546	28755.5	31954.2
Sgip1	0.999996	7.83E-07	87.519	AT(1)PPPPPPPTYR	2	0.46203	36585.4	39512.0
Anks1a	0.963619	0.000189451	57.148	S(0.964)ADLLLPS(0.025)VDT(0.006	2	0.50609	4568.7	4198.7
Trim28	1	0.0330705	61.691	LS(1)PANQR	2	0.19306	9691.8	9544.3

42878.5	37792.4	39953.4	42160.0	0.0	0.8	251
62891.6	62442.5	66094.6	62688.0	0.0	0.6	636;636
112351.7	99651.9	108991.0	110450.0	0.0	0.7	1355
15568.3	15692.0	16448.6	14454.0	0.0	0.7	247
5080.6	4946.1	4864.3	5045.4	0.0	0.6	391;740
55620.1	54856.1	59373.9	57866.0	0.0	0.7	103
55620.1	54856.1	59373.9	57866.0	0.0	0.7	104
163976.2	171857.7	171741.8	166910.0	0.0	0.6	299
23292.2	21461.3	22267.3	20414.0	0.0	0.8	441
3038.7	2466.5	2793.1	3083.3	0.0	0.9	51
3915.1	3372.1	4278.3	3449.1	0.0	0.9	206;265
62161.3	68388.9	59999.0	69300.0	0.0	0.8	29
167713.1	180833.4	197741.9	169430.0	0.0	0.8	417;417
22368.1	20526.3	21116.4	22575.0	0.0	0.7	780
30739.4	31580.9	30818.6	30928.0	0.0	0.7	42
46760.1	45279.8	47959.7	45195.0	0.0	0.5	379
13864.8	13132.4	13886.0	13535.0	0.0	0.8	58
34671.1	31781.1	30841.1	37088.0	0.0	0.8	426
15046.6	14715.3	14113.6	14075.0	0.0	0.6	399
301283.0	284196.6	290852.8	291780.0	0.0	0.4	426
13457.1	13579.0	13688.3	15025.0	0.0	0.9	1131
8717.5	7998.2	9108.7	9544.0	0.0	0.8	222
17965.8	16554.4	14627.6	15828.0	0.0	0.9	869
94146.3	90241.8	91753.8	92653.0	0.0	0.4	184;184
34493.3	31090.4	32659.9	38019.0	0.0	0.8	1301
9197.5	8899.2	8310.7	9000.2	0.0	0.7	1166
12405.2	12115.0	10453.0	13244.0	0.0	0.8	1359
7507.4	6854.3	7614.6	7931.5	0.0	0.8	49
301889.9	355067.0	289859.0	352030.0	0.0	0.9	155
61668.3	61630.7	60454.3	58576.0	0.0	0.7	527;401
30141.1	29057.6	30230.9	30270.0	0.0	0.7	1176
36914.3	36903.6	36534.8	37966.0	0.0	0.6	437
3790.9	4219.6	4412.2	3747.9	0.0	0.9	327
9836.9	9648.0	8858.0	10154.0	0.0	0.7	698

Zc3h18	0.999399	0.000367469	107.58	KRPLS(0.999)PQS(0.001)K	3	0.015272	61694.9	63951.2
Pdlim3	0.565578	1.95E-18	76.494	T(0.431)S(0.566)GCS(0.003)T(0.003)	3	-0.31835	7550.1	8533.6
Rtn4	0.970111	2.28E-10	48.798	S(0.97)PAAPAPS(0.03)LPPAAAVLP	3	0.25207	23208.3	22368.3
Plcl1	0.999768	1.54E-06	86.498	RVS(1)GDYNGEQK	3	-0.2664	12644.8	11260.9
Srgap1	0.947744	4.55E-05	54.281	VS(0.948)GS(0.052)QVEVNDIK	3	0.2213	10863.3	12390.7
Thoc2	0.653024	2.39E-15	81.157	HKS(0.024)ES(0.653)PCES(0.321)C	4	-0.69194	16945.6	17745.9
Nolc1	0.998655	5.11E-40	119.27	AGKES(0.999)EEEEEDT(0.001)EQN	5	0.071326	431094.0	419624.8
Nefl	0.994063	6.00E-09	122.34	FTVLT(0.006)ES(0.994)AAK	3	-0.45887	60948.3	54320.3
Tbc1d5	0.918712	5.52E-17	97.095	TIS(0.002)S(0.006)S(0.05)PS(0.919)	3	0.040422	15444.0	15430.3
Hoxc10	0.999641	3.04E-05	57.434	TEHLES(1)PQLGGK	3	1.4092	11337.5	12469.7
Atf2	0.545787	6.82E-173	147.77	AQS(0.256)EES(0.546)RPQS(0.198)	4	-1.0351	5339.7	5280.0
Rims1	0.820733	9.08E-22	88.983	QGS(0.821)PT(0.09)QS(0.089)PPA	2	0.46447	9062.8	7916.8
Bicd1	0.702586	0.0026687	58.996	RGVS(0.703)S(0.285)PVES(0.012)F	3	-0.10228	24849.5	28128.2
Txnrd3	0.502366	0.000857834	41.938	LT(0.15)S(0.502)PGT(0.132)S(0.21)	3	0.29886	30589.8	28954.2
Prdm2	0.997212	2.27E-13	86.944	ET(0.003)GS(0.997)PPCFDEYK	3	0.2132	73423.7	75030.1
Arhgef12	0.900292	5.98E-49	91.748	TEGVQDADT(0.073)QS(0.9)LVGS(0.9)	3	-2.3621	31889.9	30048.9
Phf6	0.648544	1.74E-25	70.67	TAHNSEADLEES(0.142)FNEHELEPS	4	-0.037875	28409.6	28098.6
Atp2b3	0.797939	6.78E-05	91.694	S(0.202)GS(0.798)FQGAVR	2	-0.24694	16360.0	15903.1
Pcbp1	0.799474	2.86E-53	94.594	VMTIPY(0.001)QPMPAS(0.2)S(0.7)	4	-0.85337	76169.3	78307.7
Tmcc2	0.727051	0.00185466	52.862	GAS(0.727)LHS(0.249)S(0.012)GGI	2	2.8108	7538.1	6884.6
Carhsp1	0.999889	3.55E-14	123.95	GNVVPS(1)PLPTR	3	-0.36721	133293.9	138639.1
Samd14	0.859511	7.60E-08	54.559	DAS(0.86)PPEPAS(0.847)PT(0.294)	3	-0.81503	25674.8	23698.8
Map2k4	0.997964	1.76E-21	81.157	LCDFGIS(0.002)GQLVDS(0.998)IAK	3	-0.025423	45757.1	47453.6
Apc	0.561509	1.21E-31	78.272	S(0.001)GAQT(0.037)PKS(0.4)PPEI	4	1.3139	10815.8	9930.3
Gap43	0.995283	1.11E-29	136.01	ATTDNS(0.995)PS(0.004)S(0.001)K	2	-0.63838	73049.2	76380.4
Hdgf	0.821712	2.54E-12	46.033	NS(0.019)T(0.043)PS(0.117)EPDS(	4	0.32286	2528.0	2322.7
Plcb1	0.861308	3.35E-25	107.98	VNLKS(0.069)PS(0.861)S(0.069)EE	3	0.8845	15929.4	17639.5
Ccpg1	0.762133	2.75E-58	118.51	T(0.185)VS(0.762)IS(0.053)ESEEPL	5	1.2476	15433.3	14889.5
Paplg	0.907583	4.51E-09	96.866	S(0.088)HS(0.908)PPT(0.004)DGT/	3	0.56036	13738.5	13968.1
LOC102551	0.999066	2.17E-07	44.721	ELPPPPPAPPPAPS(0.999)PPPAPAT	4	-0.043117	11622.3	11775.4
Rab11fip5	0.808975	3.11E-26	81.477	GS(0.319)PS(0.629)LGAS(0.809)PI	3	0.13745	18351.8	16484.4
Ptdss2	0.988215	1.16E-38	117.82	RVAGGSGS(0.012)ES(0.988)PLLEG	2	-0.12242	48282.1	49499.4
Yap1	0.965202	1.42E-24	97.767	DESTDS(0.023)GLS(0.965)MS(0.01)	3	0.72021	10050.2	11130.4
Tor1aip1	0.971081	1.53E-42	117.35	EVRF(0.971)EPPPEVY(0.029)GDF	3	-0.25225	19277.3	19794.9

65147.6	62914.4	60198.8	64974.0	0.0	0.6	911
9337.4	7553.8	9147.7	8359.1	0.0	0.9	132
24076.9	21896.9	22221.4	24548.0	0.0	0.8	111;257
14048.0	11690.4	11997.7	13728.0	0.0	0.9	570
11823.9	10801.6	12480.7	11299.0	0.0	0.8	481;376
19707.6	17458.6	17472.3	18698.0	0.0	0.8	1516
437301.7	410032.0	437054.0	422700.0	0.0	0.6	566
53913.5	53826.5	57346.6	55614.0	0.0	0.8	291
16960.8	15147.5	14861.6	17149.0	0.0	0.8	524
10402.6	10503.7	11587.3	11635.0	0.0	0.8	189
5974.6	4750.5	5182.5	6426.9	0.0	0.9	292
7766.8	8066.0	8439.0	7891.9	0.0	0.8	1174
24876.4	25831.5	24566.0	26358.0	0.0	0.8	569
27317.6	27922.5	29824.8	27889.0	0.0	0.7	50
76760.7	72357.5	76291.6	73389.0	0.0	0.5	707
29527.8	29308.4	31719.5	29150.0	0.0	0.7	337
29423.5	27051.3	27448.1	30224.0	0.0	0.7	75
14491.9	15480.8	14878.7	15738.0	0.0	0.7	1112
73781.8	75350.5	78053.7	71646.0	0.0	0.7	171
6128.9	7202.8	6843.0	6217.1	0.0	0.9	108
145887.9	135592.0	137021.5	139340.0	0.0	0.6	41
24952.0	25632.4	24293.5	23357.0	0.0	0.7	173
45631.6	45265.5	45087.2	46546.0	0.0	0.4	255
10427.0	10523.4	9853.8	10360.0	0.0	0.7	1272
77699.7	70039.9	77509.8	76406.0	0.0	0.7	142
2947.2	2354.6	2526.8	2807.7	0.0	0.9	206
15860.0	16301.4	16761.7	15676.0	0.0	0.7	1199
14622.9	13725.3	14609.4	15984.0	0.0	0.8	183
14156.5	13724.2	14909.7	12646.0	0.0	0.8	651
11250.1	11481.4	11873.7	10810.0	0.0	0.7	632
18437.5	17105.5	17422.1	18004.0	0.0	0.7	489;489
49839.1	48617.1	47754.5	49195.0	0.0	0.3	16
10141.1	10719.1	9831.0	10336.0	0.0	0.8	369
20900.0	18232.9	20493.4	20413.0	0.0	0.8	60

Fbxo41	0.994835	0.0127619	46.64	MERGS(0.995)PS(0.005)R	3	-0.67105	9560.9	9832.5
Armc10	0.99955	9.28E-203	231.49	S(1)AEDLTEGSYDAILSAEQLEK	4	-0.34002	1178224.2	1191249.5
Lamtor1	0.976022	8.71E-07	84.508	LLLDP(S(0.001)NT(0.976)PT(0.023)	3	-0.52368	70378.8	75534.7
Wfs1	0.825353	1.17E-08	98.974	KGIT(0.825)S(0.175)ENEAEVK	4	0.7211	60168.3	64176.1
Myo9a	0.866455	0.00394688	76.927	ES(0.124)S(0.866)MDFS(0.01)K	2	-0.23874	25697.5	24848.4
Bnip2	0.955055	3.84E-10	80.719	KGS(0.038)IT(0.955)EY(0.006)AAT	4	1.3724	9994.8	9239.6
Aes	0.965353	4.47E-06	66.004	HS(0.965)GS(0.03)S(0.005)HLPQQ	3	0.55257	8623.9	8146.9
Wdr44	0.519015	2.56E-09	59.539	S(0.519)NS(0.456)GRELT(0.025)DE	4	-1.5891	2779.7	2581.5
Nhsl2	0.999996	4.54E-19	100.04	CPSTGDDQKS(1)PGKR	4	-0.21929	41332.3	37008.8
Eef1g	0.628899	2.01E-42	93.633	VLS(0.186)APPHFHFGQT(0.186)NF	5	0.48237	2850.5	2105.4
Zc3h13	0.933033	0.00696545	93.166	T(0.053)LT(0.933)PS(0.014)LR	2	-0.16991	13385.4	13388.9
Myo9a	1	4.29E-07	88.596	S(1)LEDLHQKK	4	-0.18921	120436.8	119443.1
LOC69114	0.910911	1.16E-58	94.15	KPENPS(0.038)ES(0.911)DT(0.05)E	4	-0.22526	30525.4	30312.1
Scn9a	0.499994	1.91E-09	116.71	ISGYGS(0.5)S(0.5)LDK	2	-0.026941	25615.2	26742.8
Ash1l	0.942005	9.33E-12	56.854	RHS(0.942)FEHIS(0.057)LIPPETSTV	4	-0.1751	7145.1	6861.5
Nefh	0.99286	5.56E-06	76.759	VEEEKT(0.007)PAT(0.993)PK	4	0.065137	142262.8	143443.6
Grip1	0.966183	0.00790117	67.414	SLYS(0.005)T(0.029)S(0.966)PR	2	-0.58041	19433.5	17832.5
Map1b	0.868963	2.08E-29	107.65	IT(0.13)S(0.869)FPES(0.001)ESYSY	3	0.2465	40934.0	35932.7
Akap12	0.552403	1.05E-19	75.548	S(0.068)PES(0.337)PS(0.552)S(0.0	2	1.1994	43992.0	44501.8
Ank2	0.582767	2.39E-11	67.645	ETIKVET(0.413)PT(0.583)DIHS(0.0	4	-0.37245	58150.3	60064.9
Ppp1r3e	0.996525	6.82E-70	117.1	S(0.003)QRPS(0.997)LEEESEEEEPGE	4	-0.081547	36398.2	41065.2
Mios	0.793058	1.51E-11	93.495	GFSQYGVS(0.012)GS(0.793)PT(0.1	2	-0.44932	7710.2	7867.0
Map1b	0.951616	5.42E-18	83.081	EECPRPMS(0.044)IS(0.952)PPDFS(	4	0.28709	8509.9	8808.9
Pdzd2	0.607288	0.0033151	52.247	S(0.607)RLS(0.393)GGVHR	3	1.0753	4465.0	4281.4
Bnip3l	0.880805	0.00510361	86.67	AAS(0.881)LS(0.119)MR	2	-0.70035	21091.3	21899.9
Baiap2l1	0.85622	1.03E-13	68.42	TPISTPVS(0.003)GT(0.856)PQPS(0	3	0.13028	64998.6	63247.0
Tmem245	0.993311	0.00504509	60.598	TAGPS(0.007)ET(0.993)PR	2	-0.98115	3660.2	4646.2
Ehd4	1	0.0221782	48.794	FHS(1)LKPK	3	-0.76051	18580.8	19402.2
RGD15629	0.683943	0.000408155	43.592	S(0.156)HS(0.684)IT(0.156)NMET(	3	-1.2236	17914.0	16414.2
Trpm7	0.885908	8.03E-42	160.03	RAS(0.886)T(0.114)EDSPDVDSR	2	0.32813	5107.8	3576.7
Ankrd35	0.993927	1.87E-15	128.44	FQPEQGLS(0.006)QS(0.994)PR	2	0.22446	36228.8	39063.3
Ctnnal1	0.999999	1.52E-45	165.49	S(1)AAEELELTVLK	3	-0.37559	137492.1	142247.9
Ranbp2	0.957937	8.80E-47	106.75	QNQPTS(0.002)AVS(0.958)APAS(C	4	-0.25217	53506.0	54812.8
Epb4l13	0.999989	5.76E-56	131.38	QLEYQQFEDDKLS(1)QK	3	-0.86355	282104.5	264817.2

8679.8	9260.3	9727.0	8696.2	0.0	0.8	536
1150665.1	1153307.7	1126671.3	1191300.0	0.0	0.5	43
67907.1	68544.0	74245.1	68065.0	0.0	0.8	28
56317.4	58777.4	59990.5	59388.0	0.0	0.7	157
25075.5	24975.7	25687.0	23910.0	0.0	0.6	1224
10593.2	9676.5	9567.6	10170.0	0.0	0.8	116
9019.3	7918.9	8298.1	9215.5	0.0	0.8	9
2956.7	2784.9	2828.4	2589.3	0.0	0.8	344;344
37720.3	37232.5	38755.4	38465.0	0.0	0.7	1076
2149.1	2216.7	2263.9	2525.9	0.0	0.9	46
14866.7	13274.3	14621.2	13169.0	0.0	0.8	362
117760.0	117024.7	114633.4	121030.0	0.0	0.5	1259
33668.2	29617.5	30539.7	33041.0	0.0	0.8	376
27406.0	27704.7	25671.0	25286.0	0.0	0.7	1063
6846.3	6512.6	6872.0	7180.1	0.0	0.7	1224
144099.3	141410.8	139971.0	142490.0	0.0	0.1	894;864
19011.3	19794.9	17726.7	17982.0	0.0	0.8	432
34002.5	36009.4	39348.5	33988.0	0.0	0.9	2009;1883
47840.8	43821.3	44544.3	46097.0	0.0	0.7	273
61179.7	56312.4	58040.2	62579.0	0.0	0.7	2266
38411.2	38807.7	39574.0	35903.0	0.0	0.8	33
8187.2	7189.6	7901.4	8347.4	0.0	0.8	766
8817.6	8409.4	8229.9	9139.2	0.0	0.7	1613;1487
4485.2	4121.5	4212.6	4716.5	0.0	0.8	452
21181.1	23398.3	19761.4	20135.0	0.0	0.8	126
69564.8	62427.1	63973.3	68707.0	0.0	0.8	257
4258.7	3784.3	4372.8	4236.4	0.0	0.9	32
18358.7	18322.0	18607.2	18643.0	0.0	0.5	376;373
16995.9	16608.3	17873.1	16142.0	0.0	0.7	854
4465.0	3617.0	4830.9	4522.2	0.0	0.9	1501
35819.9	37264.4	34771.5	37562.0	0.0	0.7	370
139574.6	127969.3	141702.2	143930.0	0.0	0.7	333
49294.0	54058.6	51667.9	49740.0	0.0	0.7	1633
273293.6	256730.6	287946.1	264370.0	0.0	0.7	91;91;91;91



Dgkb	0.5	1.23E-105	132	ANS(0.5)VT(0.5)MDGQGLQITPIPG	4	-0.58397	7700.8	8027.3
Fam129a	0.733991	8.03E-52	112.18	HNLFEDNMALPS(0.008)ES(0.036)	3	0.37005	73539.4	74017.6
Sh3pxd2a	0.999555	1.83E-30	83.602	RGS(1)ADIHPLATTPPCVPK	4	-0.6181	52888.2	50905.6
Glcci1	0.781219	9.18E-06	73.877	S(0.017)AS(0.781)WGS(0.202)ADC	2	0.24588	8610.5	9156.6
Trpm7	0.94213	0.000319258	73.082	NAS(0.002)S(0.007)S(0.048)T(0.94	2	0.38048	10366.1	10251.9
Ankhd1	0.895355	0.00783053	80.231	LNLT(0.105)S(0.895)PK	2	0.12055	40818.3	36063.3
Zfp219	0.607515	0.000506782	43.592	T(0.608)HQPERPRS(0.392)PAAR	4	-0.6635	4552.2	4500.3
Eef2	0.998239	0.00148438	89.266	S(0.002)ANS(0.998)PDGK	2	0.13484	35101.7	34254.5
Rgl2	0.634249	3.27E-26	78.75	S(0.011)AS(0.052)CGS(0.634)PLS((	2	0.65379	26884.2	28131.5
Nup188	0.870051	1.02E-43	135.79	GAPS(0.13)S(0.87)PAAGVLPSPQGI	3	0.55948	66505.0	62513.2
LOC68502	1	2.68E-12	69.979	EANGDVGEKS(1)PGLK	3	-0.69421	25552.0	26858.0
LOC100911	0.968758	7.15E-10	83.633	EFGFLPT(0.027)T(0.969)PS(0.004)	2	0.79028	40365.0	42090.8
Leo1	0.823432	5.22E-16	104.24	KLNS(0.03)DEEGES(0.823)S(0.146)	3	-0.06911	159520.9	153732.6
Nefh	1	7.13E-36	110.57	S(1)PAEVKS(1)PAVAKS(1)PAEVK	5	0.70787	2377964.3	2544294.0
Actn1	0.999622	6.03E-15	83.204	FAIQDIS(1)VEETSAK	3	-0.18044	19435.9	20375.2
Prpf40a	1	0.00858921	51.252	DRES(1)EKDR	3	-0.27002	14859.6	14345.5
Rc3h2	0.993247	5.21E-05	40.986	T(0.993)KEEDPIIPFS(0.006)DGPIIS	4	-0.38843	4457.0	3852.4
Nsfl1c	1	7.82E-22	116.61	S(1)PNELVDDLK	3	-0.34186	118216.0	106858.2
Dusp12	0.714635	3.50E-09	58.339	S(0.715)S(0.277)ILDHS(0.006)EGSI	4	0.276	2743.3	2848.7
LOC68570	1	0.0433094	58.981	S(1)LPRPAK	2	0.43354	22402.1	20122.9
Pten	1	5.21E-33	98.298	VENGS(1)LCDQEIDSICSIER	3	0.014499	12283.4	13503.0
Osbp16	0.629322	6.77E-07	51.31	LAAAVAT(0.023)T(0.096)VPFS(0.0	3	0.21882	7693.7	6548.0
Champ1	1	2.49E-08	115.33	AVLPAS(1)PEPR	2	-0.32108	43130.9	41260.5
Pxn	0.622598	1.31E-22	76.152	S(0.374)AEPS(0.623)PT(0.004)VM	3	-1.4372	5816.2	6088.1
Akap2	0.786354	2.61E-13	116.9	S(0.107)PS(0.786)DS(0.107)MAEG	2	1.2376	29647.6	28889.4
Rplp2	0.898398	3.18E-55	85.337	LASVPAGGAVAVS(0.071)AAPGS(0	5	0.40121	26857.9	30089.5
Wdr37	0.65749	1.90E-08	93.766	ASHS(0.163)T(0.657)S(0.085)QLS(i	3	-0.61695	19345.3	19879.4
Ahnak	0.933748	2.13E-94	150.4	GDVDVSIPNVEGDLQGPS(0.934)LD	4	-0.5218	37329.7	38219.8
Pard3b	0.996973	7.51E-08	58.093	DGRPLS(0.997)PDHLEGLY(0.003)A	3	3.0699	26159.0	27089.4
Tmem230	0.911788	2.24E-72	176.4	LS(0.008)S(0.912)T(0.081)DDGYID	3	0.20832	321045.5	332935.6
Sugp2	0.999825	3.05E-17	96.391	S(1)LNMAHQEGTLIGK	3	-0.19936	26587.2	25880.6
Mapk8ip1	0.951944	5.26E-16	60.34	T(0.068)GEQT(0.89)PPHEHICLS(0.1	4	-0.11073	14377.8	15215.3
Mapk8ip1	0.890492	5.26E-16	60.34	T(0.068)GEQT(0.89)PPHEHICLS(0.1	4	-0.11073	14377.8	15215.3
RGD15620	0.977051	0.000197199	56.569	S(0.023)ADS(0.977)MEEPDPLK	2	2.3847	61423.0	58828.6



7409.2	7923.9	7452.2	7446.2	0.0	0.7	413
80508.2	75645.3	73723.6	75592.0	0.0	0.7	581
52792.4	49753.4	51551.4	53156.0	0.0	0.6	761
9086.8	8784.9	8680.0	9024.6	0.0	0.6	107
10865.7	9690.9	10720.6	10645.0	0.0	0.7	555
35965.7	38530.5	35781.4	37005.0	0.0	0.8	1669
4707.2	4864.9	4676.9	4031.7	0.0	0.8	65
31746.6	34368.2	32786.0	32581.0	0.0	0.7	279
28390.8	26531.0	28107.5	27640.0	0.0	0.6	611
66814.8	62844.0	63464.6	66877.0	0.0	0.7	1710
27874.5	26594.8	25136.6	27468.0	0.0	0.7	144
43681.2	43054.6	39955.5	41424.0	0.0	0.7	73
152456.7	150265.5	157849.4	151310.0	0.0	0.6	648
2586441.2	2660802.5	2308591.4	2438000.0	0.0	0.8	538;538
19355.2	19877.4	19657.7	18833.0	0.0	0.6	140;75
14845.4	14833.0	14077.2	14546.0	0.0	0.5	820
4191.1	4525.6	4137.0	3669.4	0.0	0.9	783
117249.0	106608.1	120863.6	110240.0	0.0	0.8	114
3042.0	3203.2	2465.8	2848.7	0.0	0.9	231
19056.0	20009.4	22468.2	18274.0	0.0	0.9	952
13901.0	12812.3	12483.9	13857.0	0.0	0.8	294
6401.2	6799.6	7143.2	6422.6	0.0	0.8	362
43263.9	42312.1	42622.9	41005.0	0.0	0.5	532
6402.2	6110.4	5926.7	6023.5	0.0	0.7	130
31386.7	27847.7	32163.0	28705.0	0.0	0.8	163
31483.6	28250.3	28391.7	30601.0	0.0	0.8	79
21107.6	18498.0	20904.8	20119.0	0.0	0.8	115
39834.6	36336.1	39180.8	38318.0	0.0	0.7	2652
26376.5	24900.9	26905.2	26750.0	0.0	0.6	932
330315.8	320506.3	325092.2	325510.0	0.0	0.3	24
26961.0	26392.4	24414.2	27558.0	0.0	0.7	126
15321.3	14056.4	14297.4	15959.0	0.0	0.8	210
15321.3	14056.4	14297.4	15959.0	0.0	0.8	193
68049.8	56807.4	64445.6	64531.0	0.0	0.8	1121

Tnrc18	0.805153	0.00196016	44.511	AS(0.002)GPT(0.193)S(0.805)PDK/	3	1.9941	21773.6	20622.0
Cdo1	0.975954	1.82E-05	66.989	TPFT(0.001)T(0.003)S(0.02)GS(0.9	2	1.5291	21193.9	20997.1
Srsf6	1	0.000156846	71.176	S(1)MS(1)PPPK	2	0.025193	207120.7	221061.2
Phb2	0.895324	0.00348939	52.579	KIS(0.067)S(0.895)PT(0.031)GS(0.1	3	-0.28868	24120.7	23510.2
Dnajc5	0.91127	6.17E-40	118.52	S(0.024)LS(0.911)T(0.032)S(0.032)	3	0.33732	89123.0	93367.2
Nup35	0.998522	2.10E-14	80.738	GVLSSPS(0.001)LAFT(0.999)PPIR	2	-1.1478	7872.8	8535.2
MacroD2	1	0.00364282	69.825	GLS(1)PPHKK	3	-0.0059493	76217.0	77283.1
Slx4	0.993049	1.09E-17	74.029	ESQEQSS(0.001)QAGS(0.993)PES(i	3	0.467	2765.9	2395.9
Palm	0.999914	3.61E-11	64.522	EPAPLNGS(1)AAELPATK	3	1.1256	37019.6	39000.8
Srrm2	0.97005	0.00181258	90.964	ET(0.01)PQT(0.97)PS(0.02)R	3	0.35822	32972.8	32197.7
Clasp2	0.990048	1.25E-62	110.17	DKS(0.99)FDDEES(0.008)VDGNRP!	6	0.1023	118039.5	116470.4
P2ry1	0.993688	0.00436609	56.177	RS(0.994)EANLQS(0.006)K	3	-0.078095	19833.1	19745.6
Nelfb	0.939658	2.66E-39	84.152	KPS(0.94)PPQAAET(0.06)PALELPLF	4	-0.57332	25509.0	24536.9
Ncoa3	0.977641	1.99E-12	66.152	ALS(0.978)LDS(0.022)PVSVGSVPP!	3	1.1019	7153.8	7243.8
Plec	0.995347	4.28E-14	63.998	DALDGPS(0.995)MEAEPEY(0.003)	3	-1.1941	39452.6	37826.0
Pi4k2a	0.812592	6.88E-25	138.05	S(0.069)S(0.069)S(0.813)ES(0.019)	2	-0.28375	64797.1	63702.2
Golga4	1	8.79E-49	91.437	QKIS(1)EEQQQLQALAPAQASSSS!	4	0.89048	3837.7	3925.5
Tanc1	0.518147	1.09E-70	102.6	TSDPTHDLPGT(0.518)PLLS(0.37)P!	3	0.024789	15785.1	16509.7
Ptpn14	0.936862	0.00627343	69.346	S(0.004)VS(0.937)NGT(0.059)LR	2	1.8065	8350.5	7883.6
Sh3pxd2a	1	2.70E-27	77.689	ETEENPAGACENQGS(1)PLK	4	0.23352	133377.3	126803.4
Fam126b	0.771587	8.66E-05	99.752	VEVT(0.772)PT(0.228)VPR	2	-0.55266	20440.1	19275.0
Apc	0.889427	3.40E-16	105.28	AVEFSSGAKS(0.889)PS(0.11)K	3	0.95661	38874.2	38304.3
Pex1	0.77206	6.84E-09	58.093	YQS(0.772)QS(0.211)GEDES(0.017	3	0.10113	9128.6	8567.3
Gas2	1	0.0257387	42.336	LS(1)QGRY(1)R	2	-2.4159	4294.8	4891.5
Gas2	1	0.0257387	42.336	LS(1)QGRY(1)R	2	-2.4159	4294.8	4891.5
Epb41l3	0.999859	1.11E-40	125.59	S(1)LDGAS(1)VNENHEIYMK	3	0.90338	97119.9	103736.3
LOC100911	0.670642	3.88E-170	177.1	IAKT(0.343)PS(0.671)PPEEAS(0.98	5	-1.2457	49870.7	46974.3
Map1a	0.871522	1.11E-53	130.05	ELALS(0.872)S(0.128)PEDLTQDFEE	3	0.52507	60111.0	56589.8
Asap1	0.999968	3.00E-32	91.416	QDEMDES(1)DDDLDDKPSPIKK	4	-0.8431	65479.3	67842.0
Prune2	0.999554	2.77E-13	63.998	GQEENELNS(1)LEIAEPEGSR	3	0.62823	16566.3	17628.5
Rapgef1	0.999428	2.39E-24	132.64	LS(0.001)RS(0.999)DEQLSSLDLDR	3	1.1361	10416.4	11572.5
Rrad	0.901595	0.0459085	46.001	S(0.902)CHDLS(0.098)VL	2	1.5962	3714.2	3489.2
Sipa1l1	0.65974	1.31E-06	51.235	FHGLS(0.108)S(0.66)PQS(0.232)PF	3	-0.158	9201.2	9452.4
Mia3	0.997068	2.52E-12	53.679	LECELES(0.003)EDADKGGNES(0.9!	4	0.32041	9774.5	11290.5

18717.5	19745.4	19647.0	20904.0	0.0	0.8	1890
19310.5	19320.8	21046.9	20312.0	0.0	0.7	196
201345.1	205945.5	207520.0	207650.0	0.0	0.7	316
23933.2	24586.3	23697.2	22325.0	0.0	0.7	92
91304.8	84082.0	92101.1	93956.0	0.0	0.7	10
8288.8	7755.6	8462.4	8149.3	0.0	0.7	247
70419.7	74061.4	74810.4	72061.0	0.0	0.7	32
2396.1	2501.5	2412.6	2543.0	0.0	0.8	1394
42237.5	38010.2	37139.6	41531.0	0.0	0.8	345
32501.4	32397.1	31303.8	32669.0	0.0	0.4	1431
108135.7	106977.7	112378.6	118730.0	0.0	0.8	241
21038.4	19551.8	20487.0	19772.0	0.0	0.6	346
27953.2	25162.7	26890.3	24909.0	0.0	0.8	608
7204.5	6559.3	7805.6	6950.3	0.0	0.8	848
42025.7	39973.6	40541.1	37209.0	0.0	0.8	2777;2663;2634
67259.8	65830.4	63377.0	63959.0	0.0	0.5	461
4262.7	3881.1	3990.4	3995.3	0.0	0.7	10
14764.5	16036.3	14876.6	15524.0	0.0	0.7	458
9186.3	8733.5	8399.9	7951.0	0.0	0.8	762
123764.6	130851.2	128974.6	119050.0	0.0	0.7	495
18992.1	17791.8	21301.3	18839.0	0.0	0.8	306
37646.8	39607.3	38112.1	35592.0	0.0	0.7	1256
8991.9	8771.4	9864.7	7700.2	0.0	0.9	1049
5579.3	5330.2	4166.3	5074.6	0.0	0.9	228
5579.3	5330.2	4166.3	5074.6	0.0	0.9	232
100718.3	99421.0	93499.9	104690.0	0.0	0.7	446;446;446
51130.5	46257.7	52308.0	47465.0	0.0	0.8	243
55993.8	55664.6	59789.6	54972.0	0.0	0.7	764
64404.5	60010.5	65738.7	69380.0	0.0	0.8	729
18052.1	16298.1	17071.6	18192.0	0.0	0.8	1416
10475.5	10197.5	12062.9	9778.4	0.0	0.9	365
3451.5	3575.3	3307.9	3632.1	0.0	0.7	300
10211.2	8535.4	10030.3	9921.0	0.0	0.8	1583
11455.5	9892.4	11337.2	10865.0	0.0	0.8	1449

Hnrnpa3	0.778069	1.21E-29	81.682	SSGSPYGGGY(0.044)GS(0.169)GGI	3	-0.57434	7120.9	6973.5
Nefl	0.740123	3.00E-29	77.221	LSFT(0.002)S(0.007)VGS(0.74)IT(0	3	-0.30211	7522.9	7305.1
Pan3	0.827686	0.00852011	46.216	IT(0.002)PHT(0.17)S(0.828)PAPR	2	0.096358	16201.4	17284.1
Erc2	0.788959	7.04E-15	86.367	TISNPEGS(0.013)PS(0.198)RS(0.78	3	0.3386	6640.7	7078.2
Fam188a	0.852168	1.89E-31	79.801	IS(0.101)GS(0.852)PAQS(0.02)S(0.	4	0.2184	10738.4	11045.9
Ralgps2	0.996657	5.83E-05	94.465	IEPGAS(0.003)T(0.997)PR	2	0.26323	22016.9	22439.6
Nolc1	0.998632	0.000257204	47.64	QPAGS(0.001)GQKPQS(0.999)R	3	0.77393	38805.0	37724.0
Rps27a	0.724793	1.52E-21	85.837	TITLEVEPS(0.275)DT(0.725)IENVK	3	0.96347	26956.9	28888.3
Tshz3	0.554228	1.96E-07	66.059	EAS(0.446)PS(0.554)AEPVENGK	3	-1.7637	9052.3	8200.9
Stk11	0.499997	9.02E-09	93.623	IDS(0.5)T(0.5)EVIYQPR	3	-0.80975	11801.1	10525.2
Bcar3	1	2.62E-06	57.148	EGS(1)FAEGRPDVVK	3	-0.0024778	12514.8	10794.4
Cnot4	0.761788	7.79E-09	56.896	S(0.224)PFEGAVT(0.762)ES(0.014)	3	-0.61952	7080.0	6964.1
Stag2	0.835351	1.95E-15	62.108	NSLLAGGDDDT(0.01)MS(0.026)VI'	3	-1.7833	10850.2	12321.6
Tbx2	0.982714	7.36E-15	80.361	EPPPS(0.983)PS(0.017)AAPSPLR	3	0.4823	16788.2	17499.1
Cacnb3	1	3.78E-06	108.31	GEEHS(1)PLER	2	-1.136	46858.0	49024.4
Igf2r	0.999838	2.86E-33	133.47	LVSFHDDS(1)DEDLLHI	3	0.13398	147796.8	147216.9
Evl	0.735005	3.18E-36	105.38	RVQRPEDAS(0.024)GGS(0.735)S(0	4	0.02311	26479.9	27775.0
Hcn4	0.852348	1.52E-25	74.364	GGSGGAGGGS(0.141)S(0.852)LC	3	-0.20444	4749.6	4427.6
Rpap2	0.999681	8.72E-198	213.9	ASDERAS(1)DEEGPGFVSSLLPGNRF	4	0.57808	100012.1	99504.4
Pragmin	0.765585	0.0113079	52.193	AS(0.234)S(0.766)LPAGAR	2	0.10278	8536.5	9587.6
Pcyt1b	0.511512	2.95E-06	44.6	S(0.108)PS(0.41)PT(0.512)FS(0.37	4	0.12846	7276.7	6546.1
Larp1	0.930959	4.68E-42	87.237	EQFDT(0.069)LT(0.931)PEPPVDPN	3	0.59769	39049.5	36884.9
Kctd16	1	0.0052502	70.028	RKS(1)DLLR	3	-0.095043	18317.2	16418.6
Gphn	0.838449	9.60E-26	109.79	DTASLS(0.097)T(0.838)T(0.031)PS	3	0.6258	5016.6	4213.8
Map7	0.967782	3.08E-13	115.34	VTIES(0.032)S(0.968)PDLEK	3	0.10372	10754.4	10613.7
Cgn1	0.921665	3.37E-38	85.087	NCFPKPCGS(0.176)QPNS(0.922)P1	4	-0.76203	40985.2	40619.9
Xkr7	0.973739	6.71E-15	87.654	KTILALEYS(0.013)S(0.013)PAT(0.9'	3	-2.2793	10506.4	11440.8
Nefh	1	5.56E-56	138.03	S(1)PAEAKS(1)PAEAKPPAEAK	5	0.19762	2107106.8	2202495.3
Hmgcr	0.985388	0.000138487	67.136	NPIT(0.002)S(0.012)PVVT(0.985)P	3	1.8878	23695.0	24954.8
Srrm1	1	4.90E-05	84.169	RRAS(1)PS(1)PPPK	4	-0.092945	321975.7	335568.2
Slc25a35	0.999186	0.000911195	61.765	TKEGT(0.001)HS(0.999)PVR	3	1.1699	14337.2	15327.2
Rbbp7	0.999995	7.63E-23	65.875	IGEEQS(1)AEDAEDGPPELLFIHGGH	4	-1.5411	18683.3	17306.0
Clasp1	0.992746	5.77E-19	138.28	S(0.007)RS(0.993)ANPAGAGSR	2	-0.1828	14695.0	14708.5
Klc1	1	1.09E-27	156.2	S(1)RES(1)LNVDVVK	3	1.447	287459.6	278056.9

8447.8	7845.6	6708.1	7693.5	0.0	0.9	349
7641.0	7149.2	7761.7	7264.2	0.0	0.7	408
15769.5	17156.1	15278.4	16176.0	0.0	0.8	350
6300.9	6940.5	6611.5	6206.7	0.0	0.8	18
10592.7	10376.6	11199.4	10379.0	0.0	0.7	124
19223.2	20933.3	21193.3	20727.0	0.0	0.8	290
34912.8	36511.0	36994.3	36494.0	0.0	0.7	426
27559.3	27526.5	27732.4	27067.0	0.0	0.6	22
8652.1	8840.7	8398.3	8331.3	0.0	0.7	640
12253.0	11995.1	11429.1	10708.0	0.0	0.8	31
12622.4	12589.0	10820.0	12058.0	0.0	0.9	186
7404.8	7159.7	7145.4	6866.5	0.0	0.6	328
11951.7	11417.6	11331.9	11920.0	0.0	0.8	1061
17882.8	16717.2	17930.8	16848.0	0.0	0.7	212
49835.9	46552.5	45961.3	51322.0	0.0	0.8	380
142065.8	145326.7	146992.0	139130.0	0.0	0.6	2474
28091.6	26943.5	28028.4	26314.0	0.0	0.6	230
4736.7	4568.1	4668.5	4498.1	0.0	0.6	118
99668.6	98752.2	99296.3	97285.0	0.0	0.1	143
7892.3	8159.9	8512.7	9009.2	0.0	0.8	40
6666.6	6879.6	6829.8	6516.6	0.0	0.7	299
36786.6	35229.5	38416.7	37628.0	0.0	0.7	593
14981.6	17031.8	16621.7	15427.0	0.0	0.9	362
4866.4	4225.8	5165.9	4524.6	0.0	0.9	265
10280.1	9783.4	10051.1	11409.0	0.0	0.8	676
44376.4	40155.1	40515.5	43702.0	0.0	0.8	202
10841.2	10696.7	10335.9	11338.0	0.0	0.7	559
2306866.2	2327514.7	1996547.4	2208100.0	0.0	0.8	712;682
23961.9	23217.9	25066.1	23403.0	0.0	0.7	360
331827.6	318625.3	326641.7	331520.0	0.0	0.5	563
14294.9	14957.3	14623.3	13820.0	0.0	0.7	101
16896.9	17709.4	16927.3	17578.0	0.0	0.7	354
12165.7	12388.8	15978.4	12675.0	0.0	0.9	677;677
289657.1	272900.0	285114.2	286330.0	0.0	0.6	521;521;521

Abcf1	1	4.76E-52	125.45	QLS(1)VPAS(1)DEEDEVPPVPR	3	-0.61315	238512.0	242692.4
Etl4	0.981502	3.17E-84	132.79	AAPTSSSSSSPPS(0.006)PAS(0.982)	4	-0.26528	20888.6	18635.5
Nedd4l	0.955343	3.34E-13	67.76	LQIT(0.955)PDS(0.045)NGEQFSAL	3	0.71522	9036.5	9550.5
Vapa	0.908052	8.29E-19	71.06	QDGPLPKPHS(0.08)VS(0.908)LND	4	2.0168	58852.8	56058.9
Shroom4	0.592982	0.000816021	40.384	ARS(0.593)S(0.201)ECLS(0.127)QA	3	1.6899	6510.0	5450.4
Cog3	0.63309	1.32E-48	87.674	KS(0.633)GS(0.286)T(0.066)DS(0.0	3	1.1437	30962.0	29078.1
Ankrd28	0.980644	7.84E-07	91.307	T(0.019)VS(0.981)FEALPIMR	3	-0.56659	15798.2	15792.3
Pafah1b2	0.999508	3.95E-09	56.453	ELFS(1)PLHALNFGIGGDTTR	3	-0.08731	2981.6	3076.2
Chd2	0.998843	7.66E-05	54.281	SPPAQKS(0.999)PHDS(0.001)K	4	-0.88807	11240.0	11443.0
Itsn1	0.779255	9.92E-44	101.17	SAFTPATAT(0.009)GS(0.172)S(0.7	2	-0.55395	44857.9	43604.6
Gas2l1	0.705889	8.06E-05	41.256	GPS(0.706)PGPELAAT(0.276)PAS(0	2	-1.4971	5511.4	5833.2
Otud7b	0.746414	1.09E-30	71.696	WIPLSS(0.001)ES(0.004)QAPLAQP	3	1.3544	8589.3	8415.3
Kmt2d	0.948542	3.09E-13	62.193	CPS(0.949)LDNLAVPES(0.051)PGV	3	1.1118	9355.1	9954.5
Map1b	0.989269	2.78E-59	139.5	S(0.005)S(0.005)IS(0.989)PMDEPV	4	-1.0169	988194.6	1023684.8
Tanc1	0.772308	1.43E-57	119.48	TAANKS(0.225)PCET(0.772)IS(0.02	3	0.44158	88650.7	88023.0
Txn1	0.919002	3.47E-09	56.424	IKQHLENDPGS(0.919)NEDT(0.081)	4	-1.2042	7204.1	7562.8
Map1b	0.994089	1.61E-57	176.25	SQGST(0.003)S(0.003)NS(0.994)D	2	-0.42112	195766.4	231284.5
Phf10	0.999997	0.00492757	76.927	RYS(1)PDELR	2	-0.32537	20245.7	21584.0
Rltpr	0.759363	7.31E-33	133.52	GPRPDLET(0.759)S(0.241)PGAAAF	2	1.1979	33802.9	35781.4
Shisa3	0.999996	5.05E-07	75.968	EPSQQPIRFS(1)LR	2	1.1804	36394.6	39633.7
Ap3b2	0.789651	7.36E-27	82.177	T(0.01)QFLS(0.79)PT(0.2)QNESLLE	3	-0.0033782	13145.7	13352.7
RGD13081	0.999906	9.08E-11	62.94	VYEDSGIPLPAES(1)PK	3	0.10902	9867.3	10435.4
Cdk14	0.979962	9.54E-08	84.859	RHS(0.98)S(0.015)PS(0.002)S(0.00	2	-1.0584	31823.1	31964.1
Pcnx13	0.999997	2.21E-101	155.86	SFDTVIGAGT(1)PPGQTEPLLVVRPK	4	-0.54394	27616.5	28988.2
Npy1r	1	0.00411132	68.536	QAS(1)PVAFK	3	-0.59106	60251.8	59229.0
Add3	0.862704	4.05E-58	143.04	TEEVLS(0.094)PDGS(0.863)PS(0.5	3	-0.93172	232763.3	230352.1
Specc1	0.75823	1.48E-53	94.028	S(0.359)S(0.359)KGS(0.203)PT(0.1	4	-0.63889	41006.7	41446.9
LOC10255	0.591812	1.76E-08	118.88	AAS(0.408)S(0.592)ANLLLR	2	-0.80964	37098.3	37533.1
Inpp5j	0.876957	0.00023448	72.88	QLS(0.877)PT(0.113)S(0.01)VGPK	2	-0.46865	37866.4	38778.1
Tle1	0.93985	1.38E-30	85.518	DAS(0.037)GS(0.94)PAS(0.018)T(0	3	0.67287	11360.6	11650.3
Piezo2	0.999994	2.14E-08	112.02	SCSSSQIS(1)PR	2	-0.65895	18200.3	18180.3
LOC68482	0.51811	0.000629406	75.088	KAT(0.085)GS(0.397)AT(0.518)PR	3	0.84495	10372.9	10512.7
Nnat	0.999635	0.0186051	70.816	LAHTVS(1)R	2	0.60365	22720.5	21782.5
Bcl10	0.503463	1.54E-06	81.632	S(0.084)NS(0.503)DES(0.411)NFS(	3	1.0073	21327.5	17164.5

248242.6	235369.4	240017.4	244830.0	0.0	0.5	109
19211.5	18854.4	19586.1	19552.0	0.0	0.7	1749
8750.1	9379.0	9419.7	8193.1	0.0	0.8	306
56060.9	55639.3	57369.1	55809.0	0.0	0.5	166
5716.9	5749.5	6143.8	5561.1	0.0	0.8	549
27798.9	29825.4	28276.3	28630.0	0.0	0.7	531
16349.7	15527.0	17278.9	14530.0	0.0	0.8	949
2016.6	2749.5	2738.4	2484.8	0.0	0.9	64
12105.0	10787.1	11680.3	11883.0	0.0	0.7	1771
44182.6	43358.2	43063.1	44555.0	0.0	0.4	899
5271.4	5419.9	5359.7	5627.3	0.0	0.7	493
9034.6	8240.0	8596.2	8875.8	0.0	0.7	449
10926.4	10494.6	9665.8	9696.0	0.0	0.8	2209
1090938.6	1000765.3	1039491.3	1023600.0	0.0	0.7	1371;1245
87277.2	87310.4	87935.5	85391.0	0.0	0.3	208
6575.5	6201.9	7937.9	6935.0	0.0	0.9	113
203548.9	194879.9	212895.2	214920.0	0.0	0.8	343;217
20354.9	21562.5	21125.0	18718.0	0.0	0.8	223
30493.5	33097.8	32557.3	33169.0	0.0	0.8	1079
39514.2	34646.5	39459.7	39989.0	0.0	0.8	137
12321.1	12425.1	12993.6	12915.0	0.0	0.7	296
10648.5	10086.4	9998.2	10480.0	0.0	0.7	62
32371.5	30685.6	31556.0	32718.0	0.0	0.5	119
29219.1	29090.6	28774.3	26889.0	0.0	0.7	370
58589.4	58256.1	57582.8	60012.0	0.0	0.4	367
273517.2	227625.7	231543.1	268290.0	0.0	0.9	644
43964.4	39350.0	41810.7	43683.0	0.0	0.8	359
40055.0	37415.1	35497.1	40346.0	0.0	0.8	178
43276.6	37206.1	40142.5	41080.0	0.0	0.8	164
10381.0	10905.3	11368.2	10703.0	0.0	0.8	179
15388.3	16510.4	17320.6	17294.0	0.0	0.8	2176
8978.1	9249.0	10334.3	9909.0	0.0	0.8	147
20545.5	22090.5	19526.3	22623.0	0.0	0.8	65
23371.0	22153.2	21277.8	17663.0	0.0	0.9	138



Vps18	0.893341	0.0498382	55.37	TFLS(0.106)S(0.893)PR	2	0.52269	6376.8	6889.2
Skiv2l	0.548749	1.61E-50	157.84	GDAAS(0.087)AS(0.353)PS(0.549)!	2	-0.18975	21680.5	21380.0
Gpalpp1	1	4.91E-32	90.601	QDDS(1)PPRPPIIGPALPPGFIK	3	0.18221	139960.9	143399.7
Tmem40	0.903831	0.000116878	44.47	RGS(0.904)GS(0.096)AEGEVEASQI	3	0.093291	4272.8	4948.7
Map2	0.923655	2.31E-74	93.118	AS(0.059)QPS(0.924)PPAHEAGYS(	5	0.48048	37513.3	39080.9
Ahctf1	0.879934	1.27E-20	103.75	EREDS(0.88)VS(0.119)GVT(0.001)!	4	0.65118	21151.0	21170.5
Ttn	1	0.0364638	44.564	S(1)VKAPT(1)VK	2	2.3094	32357.4	33108.2
Flna	0.981277	0.0188217	49.448	AVPT(0.981)GDAS(0.019)K	2	0.93182	12873.8	13213.4
Cobll1	0.962976	8.11E-36	103.84	S(0.001)NT(0.003)IS(0.015)KPY(0.1	3	0.33985	41914.3	44393.2
Itm2c	0.99963	4.70E-66	123.44	AAASGPASASAPAAEILLT(1)PAR	3	1.214	25232.3	25842.2
Stip1	1	2.52E-48	116.74	ALS(1)AGNIDDALQCYSEAIK	3	-2.0216	16721.4	14700.9
Wdr47	0.562927	0.0648058	40.317	LS(0.01)PYPS(0.563)S(0.426)PMR	2	0.042987	33593.0	32979.8
Zfp592	0.999433	5.08E-13	139.98	TSDS(0.001)LS(0.999)PCR	2	-0.60719	18265.9	17736.0
Hnrnpc	0.75819	0.000374489	52.101	SEEEQS(0.758)S(0.224)AS(0.018)V	3	-1.0009	5189.7	5835.9
Sugp2	0.967927	6.25E-14	78.244	S(0.032)LNMADEGEGT(0.968)LIGK	2	0.92748	31493.9	32428.1
Kcnj10	0.998646	2.96E-42	109.85	VYYSQTTQT(0.001)ES(0.999)RPLV.	4	0.78285	4953.0	5956.1
Dsp	0.947755	0.00358656	40.798	GLPS(0.013)PY(0.001)NMS(0.948)	2	0.97093	10921.6	11810.5
Itsn1	0.888088	9.59E-05	53.554	LLS(0.234)PGT(0.365)S(0.407)KIT(	4	0.7123	15193.5	15545.5
Prrt2	0.795292	1.59E-15	62.582	HPS(0.795)S(0.205)QLAGPGVEGG	4	0.062633	21829.6	22438.5
Atrx	0.637742	0.000577627	47.302	VCDQT(0.638)S(0.038)KFS(0.324)!	4	-0.14621	14410.0	14862.1
Suco	0.5	0.0103866	63.216	RT(0.5)S(0.5)FPLIR	3	0.17282	458.0	566.3
Dvl3	0.95545	1.17E-06	71.513	S(0.955)GPAAS(0.043)EHS(0.002)!	3	-0.9559	917.7	1066.2
Ranbp3	0.745125	4.19E-21	102.08	S(0.097)PS(0.745)ES(0.121)AEGT(!	3	0.60278	28082.8	25308.0
Arf6	0.517862	9.91E-29	79.426	LGQS(0.381)VT(0.518)T(0.1)IPTVC	3	3.2104	14384.9	12546.5
Pnn	0.950562	0.00225976	48.532	S(0.005)IS(0.032)ES(0.951)S(0.94!	3	0.36063	31090.8	31363.0
Akap13	1	0.000521673	86.898	RHS(1)WGPGK	3	-0.58813	20505.7	20967.5
RGD13099	0.665367	1.50E-17	98.281	T(0.101)S(0.101)GS(0.665)S(0.134	3	0.44398	8841.1	8719.5
Kmt2c	0.784513	1.24E-05	42.716	TEPGT(0.004)LFFT(0.785)S(0.068)	3	0.8617	10823.3	11615.2
Srsf11	0.776067	0.0293114	41.704	S(0.776)GT(0.289)RS(0.935)PK	3	0.37483	7548.9	9070.4
Srsf11	0.935384	0.0293114	41.704	S(0.776)GT(0.289)RS(0.935)PK	3	0.37483	7548.9	9070.4
Sipa1l3	0.501134	0.0064194	49.794	GS(0.501)QNLS(0.499)ELLR	2	-0.43524	10692.4	11863.1
Larp1	0.985361	4.27E-17	107.7	S(0.985)LPT(0.01)T(0.004)VPESPN	2	0.62179	108332.3	109297.7
Maged2	0.99985	0.000496491	69.721	ALLSLRS(1)PR	2	0.52245	10054.0	10618.6
Nrbp1	0.993452	5.56E-14	114.33	T(0.993)PT(0.007)PEPAEVETR	2	0.33253	22074.1	22523.0

6910.7	6600.2	6884.5	6441.2	0.0	0.7	529
20803.1	20207.4	21245.7	21617.0	0.0	0.6	241
145451.4	135031.1	137673.4	150780.0	0.0	0.7	106
4698.9	4710.2	5024.5	4012.7	0.0	0.9	106
40887.6	36496.7	39688.4	39839.0	0.0	0.8	710;624
19734.2	22489.8	18386.0	20410.0	0.0	0.9	1927
31248.3	29954.1	33335.3	32225.0	0.0	0.7	725
11306.5	10656.5	13945.8	12328.0	0.0	0.9	1639
45116.3	43914.8	42861.2	43020.0	0.0	0.6	316
26372.2	26320.9	25448.7	24718.0	0.0	0.6	39
16273.1	15452.2	16126.9	15526.0	0.0	0.8	16
35321.6	33702.8	33528.7	33405.0	0.0	0.6	296
16350.8	16938.3	18153.1	16616.0	0.0	0.8	458
5426.4	5076.0	5299.9	5873.6	0.0	0.8	246
34625.4	31796.5	29681.6	35857.0	0.0	0.9	135
5518.1	5690.0	5048.6	5486.8	0.0	0.9	17
12986.5	10768.2	11811.7	12700.0	0.0	0.9	2827
13416.6	15349.9	14998.4	13266.0	0.0	0.9	1143
21811.3	22173.0	21813.2	21284.0	0.0	0.5	252
14149.1	15408.2	13733.1	13748.0	0.0	0.8	308
537.8	434.1	601.3	507.6	0.0	0.9	1066
1021.7	1343.2	638.7	987.0	0.0	1.0	577
28470.7	24871.2	28918.6	27071.0	0.0	0.8	148
12283.8	12930.0	12761.7	13045.0	0.0	0.8	40
28383.4	29462.4	31981.3	28286.0	0.0	0.8	706
21407.8	19581.5	21159.1	21374.0	0.0	0.7	1526;71;205
8235.3	8169.3	9031.8	8280.5	0.0	0.8	1045
10503.0	10075.7	10921.5	11543.0	0.0	0.8	3941
6948.5	8097.2	6688.4	8495.2	0.0	0.9	350
6948.5	8097.2	6688.4	8495.2	0.0	0.9	354
11628.0	10716.5	12062.9	10988.0	0.0	0.8	229
107912.1	105730.3	107078.1	108780.0	0.0	0.2	635
10625.6	10190.0	11478.3	9249.8	0.0	0.9	247
22525.7	21131.3	20845.0	24332.0	0.0	0.8	431

Spdye4	0.994445	0.00642541	49.418	S(0.006)ES(0.994)GICGK	3	0.44787	13619.2	14331.2
lqsec2	0.741961	1.77E-22	63.412	T(0.249)VS(0.742)VEGDAPGS(0.00	3	-0.22307	39635.1	41395.4
Brd8	1	1.14E-12	69.361	APS(1)IDGKEDDLAEK	4	-0.99663	37557.5	36482.3
Tfap4	0.854808	3.27E-08	95.981	FIQELS(0.005)GS(0.855)S(0.14)PK	2	-2.3653	15886.5	14892.8
Ccp110	0.81513	6.00E-19	69.765	LS(0.008)S(0.007)AS(0.156)S(0.81	3	-2.2021	5261.1	5191.8
Ero1a	1	7.51E-18	71.853	DCAVKPCHS(1)DEVPDGIK	3	-0.68977	71717.0	75128.8
Ppip5k1	0.991879	2.11E-07	94.82	T(0.008)LHS(0.992)PPLQLR	3	0.34121	20397.2	20920.4
Chmp5	1	0.063511	54.982	AES(1)IDKK	2	-0.92937	10814.4	10626.5
Usp14	0.994875	2.84E-63	120.57	ETESSSAS(0.001)AVT(0.995)PS(0.0	3	0.13608	90615.0	86435.8
Scaper	0.998794	0.00177415	68.536	HFDKS(0.999)PT(0.001)K	4	-0.39761	131576.4	130368.3
Kctd10	0.835381	0.0316909	62.546	GAS(0.082)PS(0.835)S(0.082)K	2	0.52277	15034.9	15088.1
Micall1	0.904326	6.42E-07	89.992	KPS(0.11)PS(0.136)T(0.774)S(0.90	3	-0.024049	160224.6	161542.6
Gpsm1	0.662587	1.84E-14	78.501	APS(0.336)S(0.663)DEECFFDLLS(0.	2	-0.21334	24492.9	25380.4
Trim36	0.771361	0.0641991	43.168	LT(0.167)S(0.771)PS(0.062)MDK	2	0.49484	23735.5	23703.2
Srrm1	1	4.90E-05	84.169	RRAS(1)PS(1)PPPK	4	-0.092945	314306.8	330248.1
Pkp4	0.751961	3.21E-06	53.453	S(0.102)S(0.102)YAS(0.752)QHS(0	3	0.95549	12331.1	12918.4
Prune2	0.956066	1.49E-15	54.425	SEDHQVLAVDY(0.044)ILVNHENDS	5	1.1131	6606.1	6886.4
Snph	0.997929	1.88E-08	71.08	QAGDPS(0.002)NT(0.998)PAEDR	2	0.37126	4430.6	5080.3
Atg2a	0.607296	5.88E-39	89.979	LS(0.016)ES(0.375)PAS(0.607)LPS(	3	0.95107	11771.2	11447.4
Iscu	1	5.67E-07	89.624	AAS(1)ALLLRS(1)PR	3	-0.25813	54878.8	54664.8
Tbc1d22a	0.719187	7.18E-23	64.221	S(0.237)QS(0.719)LPHS(0.04)AT(0	4	-0.31004	78306.6	79136.9
Add3	1	0.00508751	86.882	NMS(1)PDLR	2	-0.20915	50530.3	49885.5
Ccdc177	0.619217	0.00294317	45.992	KS(0.029)HS(0.619)LDS(0.247)LS(C	3	-0.25931	6093.8	6344.6
Srcin1	1	5.13E-05	50.077	AVS(1)VEAAERDWEK	3	2.6859	9436.7	8922.4
LOC30676	0.56689	5.01E-16	67.655	HPAS(0.02)AQS(0.567)S(0.277)PS(	3	0.32212	1730.1	1714.0
Piezo2	0.967282	4.11E-13	71.601	QS(0.033)T(0.967)LDDLGDGQDPVP	3	0.25655	38725.1	39735.7
Ubr4	0.983247	2.69E-49	128.29	TLSDVEDQKELAS(0.983)PVS(0.017	3	-1.1472	40466.4	40501.4
Cmip	0.926753	5.83E-07	50.858	LLHPS(0.927)PDLVS(0.069)QEAT(C	4	0.49609	17792.4	16317.7
LOC10091	0.973426	0.00341263	41.621	IGLPHS(0.027)IKLS(0.973)R	3	-0.012084	5457.5	5356.7
Ahnak	1	8.29E-24	94.281	LDIS(1)APDLNLEGPEGK	3	0.73185	30366.8	29003.5
Prkca	0.984486	2.58E-30	125.39	STLNPQWNES(0.984)FT(0.016)FK	3	-0.78443	99864.2	100933.7
Apc	0.788441	3.53E-06	80.96	NSS(0.003)S(0.013)S(0.097)T(0.78	3	0.03321	20003.6	20984.0
Tbcel	0.992091	1.32E-15	64.257	GPGMGVHVPAT(0.008)PQGS(0.99	4	-0.26642	37515.7	35932.7
Vps26b	0.768	3.29E-06	81.709	FEGT(0.105)T(0.768)S(0.127)LGEV	3	0.37078	2959.8	2934.8

12603.2	12946.5	13660.5	13455.0	0.0	0.8	46
42321.6	41083.5	42445.5	38329.0	0.0	0.7	246
37012.3	34534.3	34555.7	40619.0	0.0	0.8	460
15567.2	14912.2	15262.4	15612.0	0.0	0.6	63
6488.8	4936.5	5509.0	6291.7	0.0	0.9	195
68952.6	69816.6	75008.1	68369.0	0.0	0.8	106
19684.2	19624.4	19891.7	20750.0	0.0	0.6	1003
11044.6	10016.9	11455.9	10621.0	0.0	0.8	30
84625.2	83780.6	88952.8	85792.0	0.0	0.7	200
123498.5	126638.4	126356.5	127810.0	0.0	0.6	85
14959.3	14719.7	15340.4	14480.0	0.0	0.5	30
153340.4	153730.4	157763.9	157900.0	0.0	0.5	507
26159.3	25030.7	25034.1	25054.0	0.0	0.6	491
23870.3	22802.2	23586.0	24064.0	0.0	0.5	75
322320.4	313895.5	321074.1	320290.0	0.0	0.5	561
11882.5	11706.9	12581.1	12398.0	0.0	0.7	391
6935.2	7275.1	6365.3	6542.2	0.0	0.8	2293
4840.5	5087.1	4362.7	4729.3	0.0	0.8	235
9995.4	9675.5	11443.0	11697.0	0.0	0.9	1246
53985.9	54473.3	53165.0	53932.0	0.0	0.2	20
77821.1	75812.5	77156.1	79482.0	0.0	0.5	164
54285.0	50978.7	50452.8	51419.0	0.0	0.7	42
5897.3	5996.2	6322.7	5797.8	0.0	0.7	227
9271.8	9367.8	9375.9	8557.5	0.0	0.7	941
1884.9	1537.0	1726.9	2001.6	0.0	0.9	175
36118.0	38829.7	37009.3	37373.0	0.0	0.7	1779
40221.1	38875.9	42474.3	38394.0	0.0	0.7	178
15895.1	16367.4	17291.7	15750.0	0.0	0.8	224
4375.0	5217.1	5174.5	4616.8	0.0	0.9	95
30220.9	30993.6	30633.7	26898.0	0.0	0.8	1032
102859.3	96687.6	102087.6	101270.0	0.0	0.6	226
18133.0	19383.5	19849.0	19185.0	0.0	0.8	2142
36720.6	34628.9	38410.3	35821.0	0.0	0.7	41
3510.9	3170.3	3278.8	2844.6	0.0	0.9	318

Dctn2	0.985295	6.44E-99	124.82	S(0.007)T(0.007)GGT(0.985)PPDS:	4	1.2132	62780.3	64984.5
Hecw2	0.943205	3.41E-15	77.506	GS(0.943)PVS(0.054)S(0.003)PQN:	3	-0.43931	11256.5	11323.5
Slc38a1	0.977278	0.000109861	75.301	RS(0.977)LT(0.019)NS(0.003)HLEK	3	-0.88829	31075.3	29553.1
Srsf6	1	0.000156846	78.149	S(1)MS(1)PPPK	2	0.025193	233121.1	248341.5
Pdlim4	0.999758	3.66E-14	120.75	SSISGIS(1)LEDNR	2	-0.86639	28858.1	33201.4
Nes	1	1.76E-05	62.055	RPPAPPHGS(1)PVR	3	1.3482	6039.5	6623.2
Scrib	1	1.04E-14	128.85	MQS(1)PELPAPER	2	-0.034591	38727.5	41036.7
Plekha6	1	1.96E-52	123.19	YIDLEPVAPLS(1)PEELKEK	4	0.67776	53551.3	51495.8
Srrm2	1	0.00627775	65.232	KHRS(1)PT(1)PK	4	0.13428	145375.7	160774.8
Srrm2	1	0.00627775	65.232	KHRS(1)PT(1)PK	4	0.13428	145375.7	160774.8
Prkar1b	0.791732	7.52E-44	99.407	SNSQCDS(0.001)HDEEIS(0.792)PTI	3	-0.56794	85831.2	87797.1
RGD15598	0.530383	1.02E-17	70.907	EAEASAPGVQEEES(0.53)S(0.348)S((	3	0.36208	7867.7	8509.1
Lrrk2	0.892883	0.00356127	66.55	ILS(0.104)S(0.893)DES(0.003)LR	2	1.2077	4597.9	4449.7
Cc2d1a	1	2.24E-59	142.93	LANHEEGS(1)DEEEEETPKK	4	0.63435	134045.2	135293.5
Apba1	0.998866	4.01E-19	140.33	QSMS(0.001)S(0.001)QS(0.999)LD	2	0.69013	125732.3	123863.6
Lnp	0.964963	6.31E-07	41.551	NLS(0.001)PAPANS(0.017)NQGPP	4	-0.0032378	11972.1	13145.4
Rasal2	0.999879	3.43E-28	142.35	SLTNPT(1)PIQQQLR	2	-0.55982	64343.9	62566.9
Fam120a	0.997158	6.09E-34	114.64	VEGSSTASS(0.002)GS(0.997)QLAE	3	-0.41507	19404.9	20105.4
Sipa1l2	0.979903	2.36E-22	86.539	EFMDT(0.01)PGERS(0.98)PS(0.01)	4	-1.9401	41334.7	42413.3
Nes	0.921436	1.17E-05	46.318	VPLVAS(0.079)PVHLGPS(0.921)QF	4	-0.4792	2660.0	2485.8
Cep76	0.826999	5.00E-21	69.088	ELNFVT(0.007)DS(0.069)VDQELPS	5	-0.9187	13950.8	13215.6
Sbf2	0.809036	0.000254512	50.088	AS(0.002)EKS(0.188)T(0.809)MEQ	3	-1.111	23229.8	24905.5
Txndc11	1	0.00181679	90.601	T(1)LEQQHR	3	0.57863	5744.3	5849.0
Stk11	0.723143	3.35E-21	142.12	IDS(0.277)T(0.723)EVIYQPR	2	-0.71113	63573.4	59996.9
Npat	0.499999	1.16E-07	58.123	T(0.5)S(0.5)PVII EGLVNVTEK	3	0.41992	10858.0	10388.7
Npat	0.499999	1.16E-07	58.123	T(0.5)S(0.5)PVII EGLVNVTEK	3	0.41992	10858.0	10388.7
Kcnab2	0.997373	1.59E-07	54.225	MYPES(0.011)T(0.043)T(0.186)GSI	3	0.055856	26051.7	25611.9
Rhbdf2	0.987867	0.000345861	96.009	S(0.012)VS(0.988)LQEPR	3	-0.062197	26079.1	30913.3
Ctnnbip1	0.80225	2.88E-32	76.573	TYAGVVNS(0.02)QLS(0.802)QLPQI	4	1.1433	13661.0	13232.1
Ptk2	0.99417	0.000257498	41.615	LQPQEIS(0.994)PPPT(0.006)ANLD	3	0.99011	6759.9	7114.8
Fez1	1	2.13E-41	130.43	RFS(1)MEGISNILQSGIR	3	0.48334	15787.5	15893.2
Vcpip1	0.518848	5.34E-21	74.516	DGPS(0.499)S(0.5)APAT(0.455)PTI	3	0.41754	54263.3	47102.6
Rabep2	0.786611	3.17E-11	65.207	QPAS(1)LHGS(0.787)T(0.214)ELLP	2	1.7508	8919.1	8942.2
Kcnab2	0.9431	0.000175493	49.066	QT(0.032)GS(0.943)PGMIY(0.017)	2	-0.55697	17671.9	19060.0

58721.4	58328.7	66144.8	59798.0	0.0	0.8	199
12034.7	10505.2	12726.5	10972.0	0.0	0.9	1173
31004.5	29793.5	31719.5	29034.0	0.0	0.7	52
223915.5	231387.5	234065.1	231570.0	0.0	0.7	314
31232.3	27659.6	32706.9	31821.0	0.0	0.9	65;124
6556.8	5364.7	7424.9	6202.6	0.0	0.9	169
42354.7	38856.1	39454.3	42365.0	0.0	0.8	1483;1455;1434
47170.0	51155.8	49763.5	49500.0	0.0	0.8	1194;510
138733.5	147306.6	146318.7	146010.0	0.0	0.8	231
138733.5	147306.6	146318.7	146010.0	0.0	0.8	233
85365.1	83698.1	90492.8	81748.0	0.0	0.7	61
9039.1	7985.2	8955.0	8176.4	0.0	0.8	72
4048.5	3873.4	4475.7	4592.8	0.0	0.9	954
131536.5	129212.3	130951.6	135990.0	0.0	0.5	389
133133.5	122821.5	126110.7	129290.0	0.0	0.7	288
12370.1	12746.3	11847.0	12454.0	0.0	0.8	194
71764.3	62533.8	64514.0	69294.0	0.0	0.8	616
19198.7	17072.5	21562.0	19387.0	0.0	0.9	511
42950.9	41211.1	42149.5	41857.0	0.0	0.4	1650
2473.4	2295.0	2672.0	2563.2	0.0	0.8	1873
12227.4	12640.7	13824.0	12469.0	0.0	0.8	62
26549.0	24700.7	24743.4	24368.0	0.0	0.8	1057
4687.9	5143.1	5437.9	5510.2	0.0	0.9	840
67316.2	62775.8	64289.6	61594.0	0.0	0.8	32
10470.2	10219.3	10949.3	10179.0	0.0	0.7	602
10470.2	10219.3	10949.3	10179.0	0.0	0.7	601
24425.0	24662.2	25009.5	25531.0	0.0	0.6	14
29586.4	30288.5	27204.5	28078.0	0.0	0.9	60
13231.4	13601.0	12760.7	13296.0	0.0	0.6	53
7189.4	7323.3	6988.7	6507.3	0.0	0.8	913
16171.9	14991.4	16383.4	15922.0	0.0	0.7	317
44228.4	46765.9	52445.8	44692.0	0.0	0.9	762
9412.8	8308.5	9185.8	9463.0	0.0	0.8	180
18861.2	18457.3	18781.4	17709.0	0.0	0.7	20



Ap3d1	0.999645	1.24E-119	189.07	HSSLPTES(1)DEDIAPAQR	3	-0.60542	201968.3	202260.1
Dennd5a	0.967707	0.00194221	84.06	FNS(0.968)Y(0.005)DIS(0.027)R	2	-0.2039	42300.8	43645.1
Kmt2d	1	2.58E-16	94.61	ASQVEPQS(1)PGLGLR	2	0.6647	31534.4	30663.2
Kif1a	0.999984	4.15E-79	149.74	VTGVYELSLCHVADAGS(1)PGMQR	3	0.47997	221182.4	231251.6
Kcnb1	1	0.000161015	58.32	S(1)IEMMDIVVEK	3	0.49844	6342.8	6816.1
Pxn	0.786936	1.37E-09	52.773	SAEPSPTVMS(0.005)S(0.007)S(0.0	3	1.8453	4817.5	5290.9
Larp1	0.854916	0.000348612	45.829	ILIVT(0.004)QT(0.141)PPY(0.855)N	2	-0.073027	21123.5	21655.3
R3hdm2	1	4.29E-25	136.63	S(1)IEEREEYQR	2	0.56934	99041.3	98461.3
Ablim1	0.603544	6.33E-15	55.406	T(0.016)S(0.016)S(0.016)ES(0.014	3	-1.2589	26068.4	26577.1
Ap3d1	0.897632	0.00297117	117.81	S(0.898)S(0.133)PS(0.969)PQKR	2	0.26117	73626.5	71349.9
Mapk10	0.997241	2.89E-13	75.548	TAGTSFMMT(0.997)PYVVT(0.002)	3	-1.7706	25652.1	26667.1
Cul3	1	0.00710382	46.352	FLPS(1)PVVIK	2	-0.48795	10862.3	13593.0
Sntb1	1	6.01E-09	99.344	QELGGLGIS(1)IK	2	-2.1035	55077.9	47761.9
Hectd1	0.82754	1.44E-46	105.63	KGS(0.828)S(0.068)S(0.096)S(0.00	4	2.7486	18929.0	17836.9
Nefh	0.814196	2.16E-196	194.25	GAGAAS(0.151)S(0.814)T(0.035)D	4	-0.67749	376648.2	382680.7
Dock7	0.998816	0.00757493	80.676	NS(0.001)S(0.999)LVGR	2	-0.64275	25952.7	25404.5
Mtus2	0.795616	1.68E-20	76.237	LQT(0.035)GDPT(0.017)S(0.099)PI	3	-0.079435	10442.3	11059.1
RGD13057	0.993105	2.86E-12	67.214	EPET(0.993)PPPPT(0.007)GPVATD	3	1.697	18463.9	19211.4
Zcchc17	0.800294	3.29E-05	105.65	S(0.8)FQDY(0.008)T(0.192)GQK	2	-0.10358	43116.6	37605.5
Bcas1	0.499998	2.27E-15	84.213	T(0.5)PS(0.5)PPEPEPAGTAQK	4	0.29868	35832.9	37345.6
Golga4	0.540285	2.45E-25	69.47	SPDGVNREES(0.404)S(0.54)PS(0.0	4	0.61084	10070.5	9386.5
Map1s	0.998694	1.58E-15	69.071	STSPHDVDLCLVS(0.999)PCEFS(0.0	4	1.8955	4790.0	4497.6
Msl1	0.99253	3.27E-05	42.705	HS(0.993)PIKEEPCGS(0.005)IS(0.0	4	1.6207	17930.7	17432.2
Trip10	0.770135	1.10E-53	151.96	VPS(0.131)DS(0.77)S(0.099)LGTPL	3	0.15514	25956.3	25090.8
Nktr	0.998731	0.00451879	48.568	AY(0.001)RPPS(0.999)GEEK	2	0.31444	30211.8	31088.8
Trit1	0.601477	8.65E-07	41.247	KLDLDAVS(0.004)ALGS(0.183)QS((	4	-0.95418	2585.1	2913.2
Camsap2	0.755585	1.01E-05	53.168	LS(0.033)QS(0.756)S(0.212)PDNIT	3	4.1606	21089.0	20724.0
Fam208a	0.983607	6.00E-11	68.329	NNS(0.984)RGET(0.008)T(0.008)EI	3	-0.074992	9831.5	10149.5
Tpbgl	0.665899	0.0250192	54.436	AT(0.024)S(0.666)PGS(0.31)GL	2	0.50305	17967.7	19785.1
Cep350	0.999852	2.07E-25	70.67	LGPHGDDDAEDKAAS(1)PGPPGSET	3	0.3608	18851.5	19163.1
Mdh1	0.946864	3.28E-05	69.92	KLS(0.947)S(0.051)AMS(0.003)AA	2	-0.54023	21402.6	23085.7
Zc3h12c	0.982328	0.000877358	59.198	S(0.016)NS(0.982)VPCS(0.002)TK	3	0.62077	24057.5	24034.5
Gstm2	0.986919	0.000331125	46.543	LQLAMVCY(0.013)S(0.987)PDFER	2	-0.022081	10891.0	9632.7
Cox7c	0.968433	0.00448417	44.612	S(0.968)HY(0.032)EEGPGK	3	0.50271	23008.0	22027.1



196128.3	195407.8	202529.4	195460.0	0.0	0.5	760
42792.2	40504.9	46224.2	40517.0	0.0	0.8	193
29090.3	29406.3	31268.5	29556.0	0.0	0.7	2300
221190.0	222708.8	218088.8	225030.0	0.0	0.5	1345
6638.7	6883.9	6476.4	6208.2	0.0	0.8	453
4638.6	4734.6	5263.5	4578.3	0.0	0.9	143
21117.2	20391.1	21029.8	21736.0	0.0	0.6	521
98414.4	96083.7	96776.4	99637.0	0.0	0.4	283;238;279
27983.0	25406.9	29073.5	25217.0	0.0	0.8	385;286
67933.7	72283.9	66115.9	72056.0	0.0	0.8	685
26134.8	25591.7	27309.2	24649.0	0.0	0.7	183
13202.6	11224.0	13158.2	12842.0	0.0	0.9	622
51051.7	46075.1	52233.2	53814.0	0.0	0.9	127
18359.8	17640.1	19002.6	17850.0	0.0	0.7	1266
381897.7	367507.5	384348.5	376270.0	0.0	0.4	73;73
24796.6	23794.3	26372.0	25114.0	0.0	0.7	440
10994.6	9979.8	11043.4	11100.0	0.0	0.8	486
19669.3	17861.1	19796.6	19031.0	0.0	0.8	20
35384.4	38053.1	34594.1	42132.0	0.0	0.9	66
37650.0	34404.5	36487.8	38670.0	0.0	0.8	525
9489.9	9995.8	9991.7	8628.8	0.0	0.8	73
4674.7	4347.8	4806.1	4649.0	0.0	0.8	560
17909.4	17588.4	17467.0	17609.0	0.0	0.3	363
25154.3	23893.3	25604.7	25834.0	0.0	0.7	298
32030.8	30927.6	29923.1	31416.0	0.0	0.6	138
2581.2	2536.1	2601.5	2849.9	0.0	0.8	443
19728.9	19780.6	21462.6	19598.0	0.0	0.8	570
9573.0	9626.8	9456.0	10135.0	0.0	0.7	661
21542.0	17541.1	21647.5	19433.0	0.0	0.9	379
18046.7	19004.0	18240.7	18181.0	0.0	0.6	1785
23582.9	22487.6	22655.3	22157.0	0.0	0.7	241
24002.4	23590.8	23488.8	24198.0	0.0	0.3	470
11121.3	10209.1	10812.5	10265.0	0.0	0.8	117
23020.8	22814.3	23151.1	21321.0	0.0	0.7	17

Kdm3b	0.667181	0.000871379	43.042	S(0.107)AS(0.127)DS(0.667)GCDP,	3	0.58244	51825.5	46656.2
Ppp1r9a	0.69776	2.60E-05	65.942	GS(0.003)S(0.008)DS(0.279)LDS(0	2	2.4342	26218.7	25335.4
Map2	0.9848	1.86E-08	97.767	DQGS(0.985)GEGLS(0.015)R	2	-0.97576	8448.8	6983.9
Srsf4	0.984276	4.07E-09	111.83	SHS(0.984)PS(0.015)RHDSK	4	0.15963	40905.3	43659.4
Oxr1	0.582081	1.36E-15	87.419	VVS(0.582)S(0.168)T(0.205)S(0.04	3	-1.0763	7730.0	7073.8
Setd2	0.884077	1.12E-11	59.359	IIS(0.018)ENS(0.884)MDS(0.075)A	3	1.5792	3915.2	3509.8
Trip12	0.992449	8.36E-46	176.83	S(0.008)ES(0.992)PPAELPSLR	2	0.24107	68568.3	74409.2
Ubxn4	0.596239	7.84E-15	79.346	ATSTEPS(0.001)NS(0.004)AS(0.02	3	-0.0574	2911.0	3540.4
Apc	1	3.13E-06	76.311	LKGEGERQS(1)PR	3	0.21666	32124.8	33183.9
Irs2	0.942667	2.29E-31	92.8	S(0.943)QS(0.049)S(0.005)GS(0.00	2	1.3544	21283.4	21452.4
Tmem184l	0.985302	0.0436948	46.475	GGTHS(0.015)LS(0.985)R	2	-0.28734	12056.8	11695.3
Antxr1	1	4.91E-20	81.157	EVPPPPVEES(1)EEEDDDGLPK	4	0.52794	89711.0	89190.1
Ptpns	1	0.0130213	65.224	RKDS(1)EPR	2	-0.88287	22390.2	23968.7
Lsm14a	0.881878	5.87E-163	197.73	KS(0.882)PT(0.108)MEQAVQT(0.0	4	-0.36172	39593.4	37906.1
Gpsm1	0.804386	4.51E-11	56.172	LT(0.195)S(0.804)PAAAEKPDLAGY	3	-1.9988	19152.0	20410.3
Usp24	0.999918	1.36E-06	82.85	VSDQNS(1)PVLPK	3	-0.88937	75666.0	77525.6
Inpp5d	0.996178	2.38E-21	84.581	GEGPPTPPS(0.004)QPPLS(0.996)P	3	0.22392	106321.4	100365.5
Clasp1	0.99822	3.53E-39	121.59	NSSNAGVGS(0.998)PS(0.002)NTIC	3	0.73027	82220.9	78108.0
Impa1	0.581444	1.72E-10	88.009	S(0.418)S(0.581)PADLVTVDQK	3	0.21673	5972.3	6253.7
Vps4b	0.999341	1.17E-54	99.494	GNDS(0.999)DGEAES(0.001)DDPE	4	0.38342	218701.6	217156.2
Tnks1bp1	0.744192	1.34E-42	89.201	CS(0.205)LGQEVMGIGS(0.744)S(0	3	0.28644	33696.8	35883.4
Apc2	1	5.91E-05	55.66	RGS(1)DGEARPLPR	4	0.73814	26434.5	23554.1
Itsn2	1	0.00812028	53.237	QKFNS(1)LDK	3	0.75517	22305.5	24916.4
Ddx50	0.982832	6.00E-09	122.34	FS(0.001)DEFS(0.983)PS(0.016)HK	2	0.30468	56242.0	57584.7
Madd	1	0.00034594	77.597	REPPS(1)PQGR	3	0.44759	40619.1	37901.7
Bcas1	0.96065	4.50E-13	64.749	GSS(0.001)QPGQAPS(0.961)AGT(C	3	0.73917	3356.8	3611.6
Fgf13	0.992911	0.00258118	106.62	S(0.021)GS(0.978)GT(0.993)PT(0.(	2	0.22619	215839.2	263873.8
Tpi1	0.975475	4.23E-24	135.47	IYGGGS(0.975)VT(0.024)GATCK	2	-0.35632	58604.7	58649.8
Sh3pxd2a	0.870768	5.38E-11	91.657	STQNEGKS(0.871)DS(0.129)LEK	3	-0.056886	48953.5	48424.4
Map3k11	0.961697	8.13E-05	89.133	T(0.038)VS(0.962)PPPGISR	3	-0.11833	34784.5	35314.1
Mief2	0.542294	5.88E-15	55.662	SPVS(0.002)PS(0.015)PS(0.259)AP	4	-0.58177	11080.6	12479.6
Hmga1	0.635872	0.000927272	40.968	KQPS(0.636)KEPS(0.07)EVPT(0.29	3	1.2104	40956.6	37890.7
Sntb2	1	4.21E-15	109.15	GLGPPS(1)PPAPPR	2	1.5363	191854.4	206516.2
Dtd1	0.99587	6.01E-05	69.03	AKGPS(0.996)ES(0.003)S(0.001)K	2	0.49373	34619.9	33916.6

45169.6	48026.4	45874.7	48127.0	0.0	0.8	279
25067.0	25023.0	24772.2	25962.0	0.0	0.6	190
7971.9	7251.4	8904.7	6985.2	0.0	0.9	37;37
38256.8	40886.6	39879.7	40675.0	0.0	0.8	291
8702.1	7310.4	7752.9	8178.4	0.0	0.9	201
4070.1	3733.8	3617.1	4015.1	0.0	0.8	1845
73167.5	69229.3	71924.0	72569.0	0.0	0.7	312
3441.1	3242.4	3087.0	3452.3	0.0	0.9	455
30879.9	32113.3	31679.9	31318.0	0.0	0.6	1962
21637.8	20314.1	22300.5	21038.0	0.0	0.7	304
11315.0	11153.6	12684.8	10836.0	0.0	0.8	384
96753.6	86522.8	91649.0	94399.0	0.0	0.8	374
21443.0	21944.2	23178.9	21921.0	0.0	0.8	1248
42205.6	41436.6	39969.4	36962.0	0.0	0.8	192
20796.7	19254.8	19684.4	20746.0	0.0	0.8	384
73144.1	71927.5	79283.8	72599.0	0.0	0.8	2043
104373.2	99833.4	103367.8	104390.0	0.0	0.6	971
80674.3	79219.1	81539.7	77560.0	0.0	0.6	1092;1064
6056.4	5733.2	5868.5	6477.2	0.0	0.8	38
197214.3	203602.5	219499.5	202920.0	0.0	0.8	102
34195.2	33911.8	34816.4	33892.0	0.0	0.6	800
23060.1	24123.2	26333.5	21779.0	0.0	0.9	2106
23811.8	22563.5	23801.9	23878.0	0.0	0.8	255
52771.1	55590.9	54091.5	55062.0	0.0	0.7	85
38741.3	37921.1	39038.6	38998.0	0.0	0.6	909
3462.4	3442.7	3809.0	3063.3	0.0	0.9	396
198609.0	237371.3	187354.6	246070.0	0.0	0.9	169
61717.3	54896.8	64423.2	57667.0	0.0	0.8	212
43772.8	44827.8	50105.5	44655.0	0.0	0.8	863
32770.7	32519.2	33783.0	35429.0	0.0	0.8	743
11648.2	11612.3	11904.7	11302.0	0.0	0.8	107
44364.7	40102.3	40427.9	41319.0	0.0	0.8	34
190613.5	191635.0	199280.7	191570.0	0.0	0.7	77
34170.7	34029.5	36061.4	31484.0	0.0	0.8	179

Mpdz	0.989471	7.85E-09	105.25	GSLPHIS(0.011)S(0.989)PR	2	-0.63724	22623.9	23647.3
Ablim2	0.555723	4.63E-15	69.071	TSS(0.001)PS(0.003)S(0.012)AGS((	3	0.09542	8495.2	9161.1
Srrm3	0.783888	0.000103457	74.853	RDS(0.784)PS(0.216)FMEPR	3	0.7374	11044.8	10616.9
Gpkow	1	0.00788436	63.816	KHS(1)PDRR	3	-0.3965	25293.2	26783.4
Trak1	1	1.64E-15	127.18	RLS(1)LAESFTNVR	3	-0.50485	9887.7	11231.3
Dnm1	0.999952	1.63E-16	130.78	RS(1)PTSSTPQR	3	-0.48912	109919.7	109673.9
Arhgap39	0.923589	1.74E-19	72.316	ATTLVTSKEET(0.014)S(0.014)S(0.0	4	-1.535	7948.3	7425.1
Cep164	0.948963	0.0208186	69.598	S(0.949)S(0.043)S(0.008)ELLK	2	-0.44096	47488.9	47236.4
Ppip5k1	0.768179	0.0179612	58.592	T(0.014)LS(0.768)S(0.218)DCPR	2	-0.33179	12777.2	15615.7
Rab8a	0.889129	6.78E-12	69.188	LEGNS(0.889)PQGS(0.052)S(0.059	3	-1.0777	28691.1	29256.9
lqsec2	0.999772	2.77E-08	103.76	MQFS(1)FEEYEK	2	0.30502	45004.6	42788.5
Sgip1	0.918015	2.11E-13	118.73	NLS(0.082)S(0.918)EEVARPR	2	-0.30386	142942.6	142258.9
Kcna4	0.555888	8.09E-09	53.998	QS(0.556)S(0.431)FPHCS(0.012)DI	4	1.8079	2544.3	2901.4
Epb41l3	1	2.68E-51	159.26	EVS(1)DKDRDFAAAAAK	3	-0.96524	211223.5	198596.4
Nefh	1	1.20E-36	106.93	S(1)PGEAKS(1)PAEAK	3	-0.034272	1689191.9	1723801.7
Ahnak	0.513345	4.21E-09	58.712	AGAIS(0.487)AS(0.513)GPELEGASI	3	0.1948	12376.4	14212.7
Dgki	0.945416	4.08E-22	90.399	RT(0.055)S(0.945)MPLLNDPQSVPI	3	0.1877	35269.9	33412.0
Arhgef7	0.952351	0.00126913	67.494	MS(0.048)GFIY(0.952)QGK	3	-1.2691	55376.1	53549.2
Prx	0.999926	2.51E-119	185.67	LPS(1)VGFSETAAPGSAR	2	-1.1629	507186.9	514453.1
Thrap3	0.998136	9.23E-64	179.67	RIDIS(0.998)PS(0.002)TFR	2	0.20911	169599.0	175890.3
Ncoa3	0.84761	9.60E-35	77.026	AS(0.032)S(0.029)QDS(0.082)KS(0	4	1.409	11288.5	11991.5
Cobll1	0.98317	4.02E-10	81.346	ENHLT(0.017)AS(0.983)PGPDQK	3	-0.26791	31396.1	34268.7
Fam76b	0.966745	5.75E-17	93.106	VS(0.005)S(0.028)LS(0.967)PEQEC	3	0.9968	34474.4	34458.5
Nsrp1	0.999831	1.53E-63	111.89	VLQKPSVFGNDS(1)DDDEASVSESLC	4	-0.47808	107050.1	109607.0
Srrm2	0.532105	0.0087824	42.469	S(0.434)RS(0.532)GS(0.098)S(0.93	3	0.41356	12240.5	12712.1
Clcn2	1	9.49E-15	109.44	ALQYEQT(1)LMYGR	3	-0.24101	50575.6	49359.0
Slc9a6	1	3.88E-12	63.125	VGVD(1)DQEHLGVPDNERR	3	-0.99258	62935.3	68948.8
RGD13074	0.999998	5.42E-33	116.09	GSPSGAWGDS(1)LEDLRK	3	0.13926	84824.6	92319.6
Zfp318	1	0.0438208	41.338	RVS(1)PS(1)PPR	2	-0.90009	7464.9	8560.1
Zfp318	1	0.0438208	41.338	RVS(1)PS(1)PPR	2	-0.90009	7464.9	8560.1
Sh3bp5	0.571476	0.000393269	41.615	S(0.141)QS(0.571)S(0.184)T(0.081	3	-0.76528	12625.7	12931.5
Ddn	0.896628	1.54E-15	70.761	TTGPVTEVALS(0.003)GS(0.008)T(C	4	1.4418	2353.3	3069.3
Htt	0.97712	0.00030068	108.1	RHS(0.977)LS(0.02)CT(0.003)K	3	-1.1025	24761.2	25644.8
Ptpn13	0.981996	3.48E-08	61.409	CPT(0.018)PDQDAQS(0.982)QAPE	2	0.77558	16317.0	18379.9

23797.9	23367.5	23291.1	22638.0	0.0	0.6	231
9591.9	8952.8	9194.0	8801.5	0.0	0.8	378;408
9695.9	9999.2	10439.5	10574.0	0.0	0.8	562
24216.3	23984.6	25526.7	25943.0	0.0	0.8	347
11284.1	9858.8	10932.2	11256.0	0.0	0.9	613
101176.1	105150.6	107591.1	104510.0	0.0	0.7	774
7641.1	7398.0	7943.8	7420.5	0.0	0.7	171
48840.5	43879.6	48572.0	49543.0	0.0	0.8	234
13946.8	12766.1	14997.3	14113.0	0.0	0.9	889
27665.8	28126.0	28058.3	28494.0	0.0	0.6	181
43655.6	43517.7	42384.6	44111.0	0.0	0.6	393;188
151264.3	131104.2	155017.5	145590.0	0.0	0.8	198
2791.2	2717.1	2814.1	2616.1	0.0	0.8	100
217218.9	201281.6	207381.0	211550.0	0.0	0.7	66;66;66;66
1741434.9	1646749.7	1746271.0	1705300.0	0.0	0.6	592
12353.0	12570.3	13156.1	12792.0	0.0	0.8	234
32635.5	32663.3	33467.8	34084.0	0.0	0.7	705
52495.4	51506.7	54663.3	53497.0	0.0	0.7	441
511539.2	495443.8	523934.7	497150.0	0.0	0.6	1361;1361
162879.6	165202.9	168065.6	169580.0	0.0	0.7	679
11712.1	11701.4	11678.1	11233.0	0.0	0.6	563
31450.6	32370.7	33123.7	30568.0	0.0	0.8	613
35259.9	36703.5	33227.3	33133.0	0.0	0.8	193
112436.8	106050.4	107868.9	111610.0	0.0	0.6	33
11442.8	12143.6	11285.9	12573.0	0.0	0.8	793
50465.1	52416.4	47709.6	48651.0	0.0	0.7	26
66235.6	69868.3	60654.1	65464.0	0.0	0.8	492
84325.0	83389.0	88932.5	86333.0	0.0	0.8	133
8550.4	7842.6	8277.2	8191.3	0.0	0.8	110
8550.4	7842.6	8277.2	8191.3	0.0	0.8	112
13839.3	12545.0	13277.9	13150.0	0.0	0.8	420
3141.0	2398.2	3386.4	2686.9	0.0	0.9	299
22789.7	24797.5	24640.8	22972.0	0.0	0.8	1706;1827
18371.5	17491.6	15792.4	19215.0	0.0	0.9	1465

Camsap1	0.952239	6.26E-79	101.45	NRPVSQPTS FALHHAAS(0.952)CDV	4	1.5362	15331.9	14710.7
Fmnl1	0.937401	4.97E-38	78.642	GPGDVVSIEILPGAAAT(0.937)PS(0.	3	0.15097	22891.1	22603.0
Caap1	0.778672	4.69E-48	144.17	S(0.779)T(0.168)DS(0.053)SSSVSG	3	0.81915	20419.9	19388.0
Slc20a1	0.660841	1.05E-14	80.142	EVKS(0.157)S(0.661)PS(0.378)ES(C	4	0.20615	85820.4	83328.2
Slc20a1	0.99584	1.05E-14	80.142	EVKS(0.164)S(0.598)PS(0.242)ES(C	3	0.56014	85820.4	83328.2
Anapc1	0.995679	0.0021197	42.976	FNLS(0.002)S(0.003)HNQS(0.996)I	2	0.34314	33286.5	32232.8
Rnmt	0.843683	1.66E-32	94.359	TQDDLVEQNS(0.041)S(0.041)Y(0.(	3	-0.58576	60447.4	61396.5
Atxn2	1	8.83E-05	87.026	RMS(1)AEGPPR	3	-0.55871	39772.3	34337.8
Ctr9	0.997405	1.03E-24	99.092	GEEGS(0.997)DDDET(0.003)ENGP	4	1.2613	27065.5	29102.2
Zfp638	0.649334	0.00500148	56.432	ATVVS(0.649)S(0.35)PK	3	0.18779	3659.7	3903.2
Map1b	0.997282	2.84E-49	122.39	DVS(0.003)DERLS(0.997)PAK	3	-0.9798	334999.8	339846.2
Micall1	0.535475	4.57E-05	65.511	KPS(0.535)PS(0.282)T(0.231)S(0.7	3	-0.60619	18797.8	18820.9
Hnrnp11	0.99974	7.27E-55	134.66	LKTEEGEIVYS(1)AEESNR	3	0.28748	51750.4	50732.3
Sgip1	1	1.90E-16	108.43	AVPAT(1)PPR	2	0.52745	19663.7	20047.2
Gpat3	0.5	0.000333035	75.088	S(0.5)PAS(0.5)MGIIQR	2	1.2061	8099.0	6909.9
Gpat3	0.5	0.000333035	75.088	S(0.5)PAS(0.5)MGIIQR	2	1.2061	8099.0	6909.9
LOC10369	0.930915	2.17E-37	105.44	KAGS(0.069)PS(0.931)PAQELAEPN	5	0.25999	58090.6	58206.7
Trim28	0.70916	2.65E-224	187.14	LAS(0.202)PS(0.709)GS(0.084)T(0.	4	-0.97056	51080.1	51440.9
Inpp5f	0.958687	1.31E-15	56.476	QLANS(0.959)LES(0.04)AGPT(0.00	3	0.78606	4055.6	4045.1
Acin1	0.709946	0.0011862	78.903	KIS(0.288)VVS(0.71)AT(0.002)K	2	-0.19975	14531.6	14359.7
LOC10255	1	0.0254391	46.462	RLS(1)QMDK	2	-1.0483	7637.7	7867.8
Spp1	0.995458	7.60E-37	101.33	S(0.004)FPVS(0.995)DEQY(0.998)F	3	-2.6377	79297.7	77256.8
Clasp1	0.99656	0.00904766	78.113	VVS(0.003)QS(0.997)QR	2	1.3117	9466.7	8875.0
Farp1	0.961793	2.79E-40	115.39	QAS(0.962)PLIS(0.038)PLLNDQACI	3	0.47878	4887.8	5389.6
Caskin1	0.998927	7.53E-28	102.9	S(0.999)QEY(0.001)LLDEGPAGT((	3	0.39492	50750.9	52725.4
Lmna	0.994012	1.29E-93	181.34	AS(0.001)S(0.339)HS(0.661)S(0.99	2	0.047991	422184.7	414173.1
Akap12	0.528628	2.26E-48	85.044	S(0.529)GGMGS(0.459)AS(0.012)E	3	-0.42495	4790.5	5185.9
Raf1	0.700899	8.02E-15	54.675	Y(0.003)S(0.701)T(0.236)PHAFT(0	3	-0.80983	18101.3	17625.2
Acss2	1	2.54E-12	104.94	VRGWS(1)PPPEVR	3	0.024597	193607.7	188998.4
Spen	0.999997	9.35E-10	123.95	RGS(1)YDYSQDR	3	0.54294	8083.9	8508.4
Eepd1	0.846944	8.92E-13	103.88	GNS(0.031)AQHS(0.116)PS(0.847)	2	0.11053	19815.2	19798.2
Arhgap1	0.996293	1.59E-07	91.812	STQKS(0.996)PAT(0.003)APK	3	0.94036	39809.3	36622.7
Pdzd8	0.99862	3.49E-59	141.45	VQTELKEETQPLS(0.001)HS(0.999)I	4	-1.0139	183839.6	180387.6
Tcp11l1	0.994058	1.41E-10	135.1	VGRPHS(0.994)S(0.006)PPR	3	-0.81023	70919.1	71747.0

14705.9	14754.9	15342.5	14171.0	0.0	0.7	492
21972.1	23739.3	21370.7	21633.0	0.0	0.8	452
19457.4	20681.4	19397.0	18552.0	0.0	0.8	68
80420.9	79552.4	82659.6	84688.0	0.0	0.7	269
80420.9	79552.4	82659.6	84688.0	0.0	0.7	273
32771.8	33129.7	30593.1	33517.0	0.0	0.7	377
57548.2	57754.5	59591.9	60128.0	0.0	0.7	58
36067.9	37516.3	37007.1	34478.0	0.0	0.8	387
25819.7	26716.9	23954.7	30441.0	0.0	0.9	970
3498.3	3720.7	3235.7	3986.8	0.0	0.9	1348
350703.7	324356.1	339412.0	350850.0	0.0	0.7	1244;1118
17900.9	16930.6	18417.0	19581.0	0.0	0.8	503
54378.7	51647.5	50520.1	53025.0	0.0	0.7	36
19752.3	19352.7	19647.0	19831.0	0.0	0.3	287
7056.3	7318.9	6843.3	7668.5	0.0	0.9	65
7056.3	7318.9	6843.3	7668.5	0.0	0.9	68
59050.4	57510.3	56935.2	59041.0	0.0	0.4	290
50557.7	48913.0	51027.7	51518.0	0.0	0.6	597
3486.9	3931.1	4189.3	3344.6	0.0	0.9	878
15062.6	13938.7	15225.0	14326.0	0.0	0.7	723;829
8086.4	7512.3	7524.7	8305.9	0.0	0.8	385
81173.6	78793.4	76852.6	79574.0	0.0	0.6	162
9740.8	8384.1	10565.8	8837.6	0.0	0.9	672;672
4506.1	4739.5	4745.0	5143.8	0.0	0.9	503
55801.1	51876.3	55001.0	50731.0	0.0	0.8	656
454186.9	425915.4	427639.2	423480.0	0.0	0.7	407
4992.0	5088.4	4929.8	4793.6	0.0	0.7	1575
20216.5	18895.1	17246.8	19216.0	0.0	0.9	233
183129.1	181471.4	188401.9	189950.0	0.0	0.6	74
7401.9	7803.6	7491.8	8448.5	0.0	0.9	623
18146.8	18300.0	19440.8	19418.0	0.0	0.8	112
39404.5	39423.7	36445.0	38764.0	0.0	0.8	223
168032.4	178666.5	175952.2	172110.0	0.0	0.7	520
63081.1	69077.5	68352.6	66180.0	0.0	0.8	55



Plec	1	5.91E-07	104.05	RAS(1)FAEK	3	0.72629	244451.6	231032.2
Cacnb4	0.994479	5.26E-05	86.463	LSSSS(0.005)QHS(0.994)R	3	0.037912	4451.9	4955.3
Tenc1	0.632534	2.38E-07	41.908	S(0.05)LS(0.141)EGPY(0.175)PY(0.	4	-0.17678	6442.9	6599.1
Tln1	0.997771	0.00842937	56.043	QQLT(0.998)GHS(0.002)K	3	-0.38061	21236.9	17636.2
Oxr1	0.800162	9.81E-60	98.766	STEESSL(0.001)EDVFT(0.8)ES(0.15	3	0.18145	17051.7	16898.0
Speg	0.999967	7.51E-06	72.321	VAS(1)PPPGASEK	2	0.42901	20936.3	24157.4
Mier1	0.990829	0.00377407	75.571	RINS(0.991)S(0.009)GK	3	0.90601	9340.0	10103.9
Pi4kb	0.604315	8.81E-16	55.314	LLHGGVAIS(0.198)S(0.198)KGS(0.6	4	-0.90466	14352.7	14126.1
Dnajc8	0.902646	0.0018937	96.009	RDS(0.092)VLT(0.903)S(0.005)K	3	0.56427	18393.5	16339.6
Hnrnpul2	0.89711	9.90E-08	49.537	S(0.012)GDET(0.09)PGS(0.897)EAI	4	0.13087	16200.2	18081.5
Arhgef11	0.835291	1.36E-51	109.91	SLGGES(0.162)S(0.835)GGT(0.002	3	0.53179	40710.9	42649.1
Slc9a1	0.970285	1.53E-21	82.01	IPSAVS(0.005)T(0.025)VS(0.97)MC	3	-1.5446	47463.9	45396.9
Pdcd4	0.903543	2.31E-48	116.35	KDS(0.096)VWGS(0.904)GGGQQP	4	-1.3828	15108.9	15000.3
Tac1	0.539598	0.000215712	126.39	DADS(0.46)S(0.54)IEK	2	-0.1557	22744.4	23456.4
Esam	0.611002	6.81E-07	42.185	AAPPRPGT(0.008)FT(0.018)PT(0.0	4	2.0338	3399.6	3643.8
Fam189b	1	0.00643045	69.812	AHS(1)AEKR	3	1.8185	11078.2	11370.6
Rtn3	0.769997	1.25E-22	75.773	KAEHICT(0.001)HS(0.008)LS(0.171	6	-0.21583	6546.4	5904.6
Map1b	0.705938	4.51E-07	89.624	S(0.001)QGS(0.118)T(0.706)S(0.16	2	-0.13819	8439.4	8535.5
RGD15626	1	0.0109057	76.17	QFS(1)PGPR	2	0.39151	9596.2	9583.0
Nova1	0.666306	2.14E-13	118.24	QTLPS(0.666)S(0.321)PT(0.011)T(	2	-0.26038	29112.1	31568.1
Rab3il1	0.974448	0.00018717	57.434	ELHPQLLS(0.974)PT(0.026)K	3	-0.07027	10547.8	9012.7
Mcoln1	0.579776	8.05E-26	62.592	RGS(0.842)ET(0.151)EQLLT(0.015)	4	-1.6654	7900.1	7985.2
Pfdn4	0.999663	0.00012514	59.198	FGSNINLEADD(1)	2	-0.79397	9558.5	10272.2
Dock6	0.685531	7.21E-26	73.761	S(0.226)KS(0.686)IS(0.076)S(0.009	3	-0.55819	33672.9	30361.5
Hexim2	0.761192	7.33E-24	61.869	DLEEPNLDVLHG(0.239)HADS(0.	4	0.18236	4535.3	4340.7
Ppig	1	0.00142349	51.726	S(1)PPKADDKER	3	-0.31004	27228.9	29514.7
Mtpn	1	2.03E-07	88.768	GEDVNRT(1)LEGGR	3	-0.30148	21746.1	23053.9
Bptf	0.96704	4.20E-08	58.885	LS(0.001)T(0.004)PS(0.018)PDS(0.	3	-0.20626	15336.7	15588.3
Dlg4	0.753869	2.07E-05	48.968	EQLMNS(0.243)S(0.754)LGS(0.002	3	1.9669	9813.8	9319.6
Ddx54	1	3.19E-30	126.84	IDDRDS(1)EEEGPSNR	3	-0.084349	27357.7	28467.1
Tuba1b	0.998149	2.06E-09	72.433	S(0.998)IQFVDWCPT(0.002)GFK	3	-0.3469	19926.1	20111.9
Ppp1r13b	0.999959	5.50E-05	80.555	LTPIVHS(1)PLR	2	-2.0223	13019.3	14813.8
LOC10368	0.81474	2.23E-48	117.48	SSDAVS(0.001)ET(0.026)S(0.159)S	3	0.79373	17754.2	18355.8
Cenpc	0.998702	1.16E-12	103.44	LVLPS(0.001)NS(0.999)PNVR	2	1.0575	23757.0	23860.1

242110.2	231926.5	239237.3	238980.0	0.0	0.6	1724;1610;1581
5143.3	4638.5	4935.4	4825.5	0.0	0.8	434
7234.0	6840.8	6506.8	6718.3	0.0	0.8	631
20989.4	19101.9	20681.5	19459.0	0.0	0.9	2270
19514.9	16542.3	17948.9	18420.0	0.0	0.9	341
22044.5	23547.9	21495.8	21401.0	0.0	0.9	2202
10016.2	8958.1	10299.2	9898.8	0.0	0.8	420
14406.7	14324.8	15203.6	12915.0	0.0	0.8	73;73
16799.0	17408.0	16365.2	17228.0	0.0	0.8	38
15884.5	17034.0	15806.3	16810.0	0.0	0.8	166
42525.0	41808.4	43074.9	39709.0	0.0	0.7	1497;1486
48167.6	44514.3	49740.0	45326.0	0.0	0.8	609
13136.6	14374.3	13445.7	14982.0	0.0	0.9	317
22766.3	22483.2	23012.2	22764.0	0.0	0.4	76
3163.1	3305.3	3335.0	3461.5	0.0	0.8	340
12561.7	11081.0	12866.5	10704.0	0.0	0.9	550
7154.5	5473.6	6747.3	7184.0	0.0	0.9	198
8801.7	9574.5	7355.7	8583.0	0.0	0.9	340;214
9022.3	9400.6	9089.8	9423.0	0.0	0.7	820
26200.8	27738.8	29217.8	29037.0	0.0	0.9	79
10534.3	9637.0	10050.6	10100.0	0.0	0.9	180
7460.9	7793.4	7937.9	7376.7	0.0	0.8	34
9971.2	10266.3	9613.3	9618.4	0.0	0.8	139
32826.1	31706.3	31806.0	32362.0	0.0	0.8	880
4590.3	4484.8	4145.4	4699.1	0.0	0.8	168
25118.1	26846.7	26679.8	27502.0	0.0	0.8	288
24161.0	20794.7	24161.0	23304.0	0.0	0.9	31
14544.1	14204.9	14696.0	16106.0	0.0	0.8	1777
10101.9	8881.3	10339.0	9718.1	0.0	0.8	355
25113.8	26634.4	26515.2	26968.0	0.0	0.8	773
19158.2	18307.7	20671.8	19617.0	0.0	0.8	340;325
12989.7	13801.2	14157.4	12451.0	0.0	0.9	634
17722.0	17412.4	16249.8	19625.0	0.0	0.9	707
23495.6	23069.5	23674.7	23649.0	0.0	0.3	709

Kcnj10	0.972078	6.22E-06	59.372	EQAEKEGS(0.972)ALS(0.028)VR	2	0.019278	6933.5	7693.3
Fam73b	0.986481	6.50E-16	91.355	TLMLPLT(0.014)EGS(0.986)LCLR	2	0.47619	21474.2	21471.0
Sh2b1	0.548008	2.40E-58	106.62	S(0.452)S(0.548)EDLAGPLPSSVSSS	5	-0.15256	16101.2	14141.4
Ccdc136	0.783878	2.00E-06	89.992	EGS(0.784)LGS(0.211)LS(0.005)VC	2	0.75552	13700.3	13087.3
Vim	0.989317	5.72E-05	110.88	SVSS(0.001)S(0.009)S(0.989)YRR	2	0.047389	45781.0	36547.0
Prkar2a	0.999869	6.97E-37	104.55	RVS(1)VCAETFPDEEEDNDPR	3	1.5334	327772.2	344902.9
Luzp1	1	0.00113735	82.563	EQS(1)PQHK	2	0.22129	33731.4	32282.2
Plekhf2	0.998792	7.93E-69	136.49	RIS(0.999)IVES(0.001)CFGAAGQPL	3	0.49088	33588.2	31675.6
Tp53bp1	0.907105	6.50E-79	105.14	LQDDEAVDIEKPLLPS(0.063)QPAVS	5	0.63192	53318.7	54601.1
Larp1b	0.678014	6.11E-08	52.359	WVPLHLDDVRPDS(0.322)QERPGS	4	0.36728	5752.1	4481.9
Rapgef2	0.748719	3.79E-38	85.185	S(0.17)LS(0.749)QGS(0.081)ANAT	3	-0.93364	16646.2	14980.6
Limch1	0.517027	3.49E-12	66.137	CS(0.738)PT(0.262)VALVEFS(0.042	3	0.62171	5696.1	5487.5
Whsc1l1	0.977949	5.76E-50	122.18	STPS(0.021)AS(0.978)PPEATSGSA	3	-0.02369	33408.1	36339.7
Ctr9	0.996371	1.59E-11	58.093	KGGEFDEFVNDT(0.996)DDDLPI	3	0.50629	40039.4	40293.0
Ahnak2	0.797182	1.56E-33	95.926	GDLKT(0.203)PDVS(0.797)IQLPSA	4	0.62327	9387.9	9753.3
Mapre2	0.995419	9.98E-21	106.14	KSHHANS(0.995)PT(0.005)AGAAK	3	-0.42819	283452.2	293347.9
Epb41l2	0.996305	1.42E-21	83.877	S(0.004)LDGAPIGVVDQS(0.996)LM	2	-0.78054	32158.2	31270.8
Usp35	0.906025	1.68E-11	57.738	QS(0.024)S(0.068)LPS(0.906)PQEE	3	-1.1781	60598.9	56848.7
Ccnyl1	0.985727	5.53E-28	147.23	S(0.014)LS(0.986)ADNFIGIQR	3	-0.40179	98447.3	104457.0
Ank3	0.999854	1.60E-57	93.876	LSDGEYIS(1)DGEEGEDAITGDTDK	3	-0.10978	27112.0	28455.1
Smad4	0.984939	0.0043278	45.614	QGGES(0.015)ET(0.985)FAKR	3	-0.39798	12297.7	11335.5
RGD15652	0.692592	0.000616987	43.548	GPVS(0.693)PS(0.293)Y(0.014)DQ	3	0.66828	17296.2	17958.7
Epb41l2	0.774425	3.26E-47	107.06	VTPLSCQILAS(0.222)S(0.774)HET(I	3	-0.092167	25844.2	28273.0
Znrf2	0.874584	7.35E-16	66.609	AY(0.001)S(0.875)GS(0.103)DLPS(I	3	0.079358	30616.1	34050.4
Fam189b	0.948974	0.00011346	41.088	VPLPS(0.949)GPAPAHS(0.051)LGC	4	0.18311	5864.2	4985.5
LOC68482	0.960393	0.00268351	60.691	GT(0.001)GAS(0.96)GS(0.039)FK	3	-1.0425	25098.7	24883.5
Map2	0.532036	1.52E-30	72.208	S(0.405)GT(0.532)S(0.046)T(0.014	3	-0.060674	12225.0	11446.3
Add1	0.902941	0.000126942	88.495	GS(0.097)EENLDET(0.903)R	2	-0.4908	31600.0	29043.0
Igf2r	0.762506	0.00435928	61.165	RS(0.763)S(0.237)GVS(0.001)YK	3	0.2495	21704.4	21739.8
Aebp2	0.960653	2.50E-07	54.811	LSPLS(0.039)PGS(0.961)PGPAAR	3	-0.2999	4836.1	5621.6
RGD13115	0.556708	1.19E-08	48.286	KLT(0.006)AEADS(0.142)S(0.557)S	4	0.35507	1873.1	2221.5
Tnk2	0.969369	0.00712739	58.815	LS(0.013)S(0.969)S(0.018)PGK	3	0.13578	5328.5	5695.6
Supt5h	0.995193	4.05E-24	97.256	DVTNLT(0.003)VGGFT(0.002)PMS	3	0.1796	21636.4	20612.1
Hexim2	0.927609	3.22E-71	96.723	T(0.005)S(0.005)GGLRS(0.063)PQI	5	0.99397	13125.4	14573.6

7472.5	7168.7	7605.0	7102.2	0.0	0.8	370
21899.7	20746.3	23281.5	20162.0	0.0	0.8	276
16796.9	14537.1	15887.5	16140.0	0.0	0.9	161
12881.1	12592.3	12507.4	14169.0	0.0	0.8	151
42795.4	39796.5	44951.4	39114.0	0.0	0.9	10
348468.0	334387.7	322933.5	353530.0	0.0	0.8	28
36203.2	34112.0	33310.7	33765.0	0.0	0.8	395
32239.5	32177.1	35007.7	29337.0	0.0	0.9	16
54411.7	53081.9	55699.9	51916.0	0.0	0.7	431
4637.8	5053.5	4565.9	5102.9	0.0	0.9	96
16392.3	15094.7	15446.2	16996.0	0.0	0.8	733
5894.5	5791.1	5803.7	5312.4	0.0	0.8	523;514
34027.0	33335.4	34960.7	34441.0	0.0	0.7	567
40302.0	39208.1	41485.8	38736.0	0.0	0.7	925
10362.4	9747.2	9715.4	9746.6	0.0	0.7	2394
249605.3	278003.8	267438.8	272730.0	0.0	0.8	199
32559.9	31912.0	32755.0	30367.0	0.0	0.7	557;557;557
58493.6	57133.0	57411.8	59651.0	0.0	0.7	553
107145.6	100073.2	102002.1	104900.0	0.0	0.7	276
31908.4	28505.5	27839.2	30264.0	0.0	0.9	875
11289.5	11332.9	11383.2	11861.0	0.0	0.8	34
19072.0	18308.8	17899.8	17581.0	0.0	0.8	513
32368.3	26504.6	29367.4	29761.0	0.0	0.9	675
32382.2	30578.9	33831.1	31684.0	0.0	0.8	18
5257.6	5257.6	5509.0	5182.3	0.0	0.9	567
24709.3	24570.9	24519.0	24868.0	0.0	0.2	103;101;102;102
12054.9	10703.9	12491.4	12180.0	0.0	0.9	1677;1591
34098.4	30919.9	28462.3	34430.0	0.0	0.9	624;639
19394.6	20247.0	20693.2	21283.0	0.0	0.8	2334
4960.2	4662.7	5332.4	5271.8	0.0	0.9	24
2302.5	2037.1	2227.5	2069.9	0.0	0.9	433
4675.6	5162.0	5365.2	5019.2	0.0	0.9	809
23260.3	20978.4	21684.9	22206.0	0.0	0.8	665
13245.2	14003.6	13888.1	12653.0	0.0	0.8	41

Sec24a	1	0.00510604	45.28	GPVPQKT(1)PPR	3	1.24	19136.5	19171.9
Fam21c	0.856105	2.96E-27	79.935	GQPAQGPVS(0.147)EES(0.997)PPS	3	-0.1078	48438.3	49560.8
Prx	1	1.86E-13	108.32	VAVGT(1)GEAGFR	2	0.12957	15423.7	13914.4
Map1b	0.999975	5.94E-53	147.02	T(1)PEEGGYSEISEK	3	0.33866	978068.7	1000572.8
Map1a	0.947781	7.49E-20	64.383	PAS(0.021)PALS(0.948)EGS(0.023)	3	0.47264	49808.7	51691.0
Bud13	1	5.07E-07	76.01	HDS(1)PDLELPK	3	0.34745	58896.9	59753.3
Tanc2	0.954632	2.78E-59	98.657	ELPLTQAPSAHS(0.007)S(0.021)IAS	4	0.49642	15234.1	14499.0
Foxd2	1	1.23E-23	96.561	GAAAAAGS(1)PGPGVQAAR	2	0.38853	20001.2	20377.4
Sptan1	0.999911	0	287.66	KLDPAQSAS(1)RENLLSEQSIALR	3	-1.219	861484.3	864171.4
Prpsap2	0.943355	7.98E-214	208.82	LGIAVIHGEAQDAES(0.057)DLVDG	5	0.1802	84098.2	83954.6
Prx	0.917438	9.51E-33	109.87	LPS(0.083)VGFS(0.917)ETAAPGSA	3	-0.54535	6512.1	6753.4
Zkscan1	0.504428	5.66E-06	41.446	S(0.504)FS(0.454)LS(0.041)ANFNN	4	0.85984	4529.8	4016.5
Gng3	0.999262	1.54E-25	108.75	MKGET(0.999)PVNSTMSIGQAR	3	-0.42081	126984.6	126474.3
Cdk12	0.924364	0.00331622	42.191	NS(0.076)S(0.924)PAPPQPAPVK	2	0.089192	10075.6	9121.7
Spire2	0.990115	0.00286638	47.774	S(0.01)FS(0.99)EHDLAQLR	2	1.4748	8286.0	7591.4
Mpdz	1	0.00133657	53.869	RHS(1)LIGPDIK	3	0.57792	22959.1	21545.6
Rnf31	0.561772	4.35E-08	58.712	T(0.562)RS(0.423)PIPAQPY(0.014)	4	-0.50906	16088.1	16272.7
Supt6h	0.852558	2.14E-10	54.997	T(0.109)RT(0.887)PAS(0.853)INAT	3	1.1019	10376.0	10569.3
Tp53bp2	0.982397	0.000539342	78.043	IPRPLS(0.982)PT(0.018)K	3	0.47285	71695.5	67527.2
Map1b	0.937164	4.57E-41	128.38	T(0.043)IKS(0.937)PCDS(0.02)GYS	5	-0.92356	228362.3	244041.6
Ccr1	0.636384	7.41E-12	69.081	T(0.034)S(0.042)S(0.158)LT(0.636)	2	-1.203	35508.5	31829.2
Map1b	0.997473	1.40E-59	142.85	SSISPMDEPVPDS(0.003)ES(0.997)I	3	0.25894	599416.8	615500.9
Npm1	0.841862	0.00531324	58.829	GPS(0.158)S(0.842)VEDIK	2	-1.1986	25554.4	25317.9
Anapc4	0.56903	3.75E-59	97.387	IKEEVLS(0.429)ES(0.569)ET(0.002)	4	0.26843	10217.1	9092.7
Sfswap	0.991823	3.54E-06	40.086	GVS(0.992)QEKDGGQIS(0.005)S(0.0	4	-0.65727	1571.6	1580.8
Sorbs3	0.977178	2.33E-26	75.625	LS(0.002)S(0.002)AWRPNS(0.977)	6	0.28793	69781.3	68218.2
Amotl1	1	1.56E-05	53.255	ANS(1)GQAHKDEALK	3	1.0736	28649.4	27984.5
Psd3	0.914698	1.26E-11	53.679	T(0.004)FPVGPQKS(0.915)PDRPLS	4	1.7484	31819.5	33589.7
Fam219a	0.517731	4.22E-09	50.271	YS(0.004)S(0.004)S(0.011)GY(0.00	3	0.55606	14631.8	14055.9
C2cd2l	0.947232	1.98E-38	80.835	SSSCGDAELLGQAT(0.947)LPVGS(0	3	0.67104	16806.0	18699.1
Cacnb1	0.559439	0.000406278	76.728	QGS(0.117)AES(0.559)Y(0.026)T(0	2	0.24271	4893.1	4525.9
Hs1bp3	0.529987	0.0011461	57.347	GPT(0.078)S(0.53)S(0.393)PEHR	3	-1.2845	7618.5	7446.0
Map1b	0.5	0.00760836	42.475	S(0.5)RT(0.5)PVQDHR	3	1.0356	8300.5	8504.1
Cast	0.669592	4.86E-05	43.841	KGS(0.002)DEVT(0.016)AS(0.67)S(	3	-0.27408	6150.9	5592.6

19238.1	17767.6	20352.3	18865.0	0.0	0.8	227
49949.8	47147.6	49674.8	49684.0	0.0	0.6	387;387
16114.4	15154.1	14593.4	15262.0	0.0	0.8	829;829
1057647.3	992636.6	1007870.1	1006200.0	0.0	0.7	1942;1816
53788.9	50172.5	51283.2	52322.0	0.0	0.7	2463
63868.9	59048.0	61238.6	60457.0	0.0	0.7	296
14955.0	15127.7	15700.5	13426.0	0.0	0.8	508
20644.5	19810.3	20241.2	20380.0	0.0	0.5	96
903519.1	824111.8	927411.9	852180.0	0.0	0.8	1031
87193.1	83848.8	87166.1	81762.0	0.0	0.7	141
6551.6	6321.1	6569.7	6734.6	0.0	0.7	1365;1365
3601.5	4291.5	4083.1	3655.7	0.0	0.9	282
120442.9	123844.5	124657.3	121800.0	0.0	0.6	5
9114.0	9312.9	9033.5	9692.6	0.0	0.8	1079;1078;1079
8497.1	7933.2	8245.9	7961.6	0.0	0.8	446
22392.6	22034.4	22128.4	22093.0	0.0	0.6	1065
16360.4	15203.6	16792.7	16258.0	0.0	0.8	428
10623.1	10122.3	10363.8	10780.0	0.0	0.7	1412
70451.6	69775.9	71825.7	66067.0	0.0	0.8	697
252426.6	227790.7	251451.9	238660.0	0.0	0.8	1908;1782
35782.6	33927.2	33852.5	34355.0	0.0	0.8	343
653147.2	608519.7	615795.4	625900.0	0.0	0.7	1382;1256
26450.0	25716.0	25540.6	25327.0	0.0	0.5	241
9372.5	8742.1	10190.7	9475.4	0.0	0.9	779
1434.2	1441.7	1591.4	1509.7	0.0	0.8	749
73398.5	69851.8	71079.8	68455.0	0.0	0.7	335
28357.8	28621.0	26738.5	28824.0	0.0	0.7	197
32110.7	31534.7	32951.6	32107.0	0.0	0.7	441
14691.0	14234.6	14354.0	14378.0	0.0	0.5	130
16945.9	16242.0	17791.9	17919.0	0.0	0.8	369;369
4898.0	4296.7	5078.3	4806.0	0.0	0.9	62
7421.9	7337.5	7495.7	7439.7	0.0	0.4	293
7938.4	7266.3	8984.2	8258.4	0.0	0.9	1624;1498
6065.5	5945.2	5939.7	5755.9	0.0	0.8	35



Wdr7	0.684208	6.67E-28	105.94	SAADHS(0.029)GS(0.684)AS(0.039	3	0.09494	10514.3	11365.1
Sirt2	0.992206	2.27E-94	153.06	REHANIDAQSGSQASNPSAT(0.008	3	0.87834	82283.0	85384.9
Zfp91	0.928078	5.51E-66	94.45	PGET(0.072)EPRS(0.928)PEQQDC	4	-0.51434	14160.7	13328.6
Cpeb3	0.616781	1.16E-105	139.94	SSLFPFEDAFLLDDSHGDQALS(0.023	4	-0.58524	13325.8	14053.7
Piezo2	0.99981	3.25E-29	122.08	SLWYATQYPT(1)DERK	3	0.35241	24628.8	24383.3
RGD15651	1	0.00907767	78.06	QLS(1)ALHR	2	0.24062	25442.2	26043.0
Fbxo10	1	1.31E-08	107.53	EGEVGS(1)DGER	2	-0.3866	7059.7	6905.5
Ahnak	0.967987	9.18E-18	75.533	DIDIS(0.032)S(0.968)PEFMIK	2	-1.3801	53305.6	50768.5
Cald1	1	1.54E-11	58.272	AS(1)GDKEAEGAPQVEAGK	3	0.13762	23030.6	23699.9
Tra2a	0.543985	0.00278991	41.996	AHT(0.456)PT(0.544)PGIYMGR	3	0.049981	7236.1	7223.5
Hnrnpd	0.979915	2.63E-168	210.14	IDASKNEEDEGHS(0.98)NS(0.016)S	3	-0.24457	105698.8	113059.0
Kcna2	0.863653	0.0789341	47.916	S(0.082)AS(0.019)T(0.035)IS(0.86	2	1.7639	16312.3	13880.4
Mypop	0.847779	4.02E-10	55.208	ERES(0.848)PS(0.152)PAAMQPVQ	3	0.061794	21771.2	21884.5
Arhgef28	0.994328	8.22E-10	83.633	S(0.994)LPAVFS(0.004)PGS(0.001)	3	2.356	67351.8	66537.8
Adrm1	0.906801	1.11E-21	83.614	SQSAAVTPSS(0.001)T(0.001)T(0.0	3	-0.096936	10569.2	8980.7
Srrm2	0.999051	3.17E-12	131.79	LRDGS(0.001)GT(0.999)PSR	2	0.010112	43801.2	44182.6
Scrib	0.890859	1.25E-67	99.319	AFAAVPTVHPPENS(0.001)AT(0.05	4	-0.098743	4976.3	4750.3
Rrbp1	1	4.43E-49	118.64	IRS(1)IEALLEAGQAQDSQASR	3	-1.6939	17180.5	15865.8
Rrbp1	0.590278	0.00915673	60.157	ASAPAT(0.023)S(0.59)S(0.387)QG	2	-0.51365	5951.8	6926.8
Dok3	0.977787	3.29E-14	83.758	ALS(0.978)LPS(0.022)LEPPGELR	2	-0.95735	18703.6	18206.6
Ranbp1	1	0.00042938	50.897	FAS(1)ENDLPEWK	3	1.2105	2897.9	2970.8
Clec2g	0.62694	4.55E-32	87.748	KASQPMLNT(0.143)T(0.627)GS(0.	4	0.86907	14995.6	14186.4
Sv2a	1	2.72E-09	78.902	GGLS(1)DGEGPPGGR	2	0.0073137	5551.8	5184.1
Rptor	0.98527	1.79E-52	124.73	ILDTSSLT(0.015)QS(0.985)APAS(0.	3	0.069709	184364.4	184709.5
Dag1	0.987733	8.64E-12	70.889	NMT(0.001)PYRS(0.011)PPPY(0.9	3	0.19054	22485.6	23017.7
Hid1	0.680475	3.64E-33	82.475	AGS(0.001)QEGAS(0.68)MEGS(0.3	3	-0.034611	19499.1	21013.6
Prune2	0.5	8.76E-69	136.62	DADFPAGEVVLAT(0.5)S(0.5)PQQ	3	-0.10265	78385.3	75791.3
Ylpm1	0.888204	2.76E-09	61.276	GPASQFY(0.002)IT(0.004)PNT(0.0	3	1.2332	5332.4	4995.6
Tmf1	0.925097	1.83E-20	117.13	SSLQEPS(0.075)S(0.925)PGQSR	2	0.87136	19122.2	21341.6
Mcf2l	0.967591	2.28E-33	92.886	ALEQS(0.032)HS(0.968)LPLTPAST	4	-0.7407	37646.9	35641.0
Lin7b	0.779389	1.50E-06	68.283	QQHHS(0.006)Y(0.001)S(0.206)S(C	3	-0.75239	5230.6	4963.4
Fgd1	0.913779	1.33E-32	95.51	S(0.081)LS(0.914)LDPGQS(0.005)L	3	0.54055	17212.8	17603.3
Ehmt2	0.922794	1.68E-06	47.371	ALVIQES(0.011)ES(0.05)LPS(0.015	3	0.88386	11545.5	11404.6
MAST1	0.745829	1.46E-31	73.758	SASATALSVMIPAVDPHGGS(0.01)P	4	-1.3664	8361.9	8871.0



10031.1	11011.7	10446.6	10151.0	0.0	0.8	965
80166.5	81230.9	83195.0	81070.0	0.0	0.7	330
14834.7	14827.5	13755.6	13343.0	0.0	0.8	10
12974.8	13426.1	13813.3	12736.0	0.0	0.8	499
23338.0	26085.5	23302.8	22283.0	0.0	0.9	396
26002.8	23836.1	29032.9	23892.0	0.0	0.9	34
6592.3	6647.8	6743.1	6973.7	0.0	0.7	151
52068.4	51054.6	52254.5	51369.0	0.0	0.6	178
23319.9	21573.5	22920.3	24900.0	0.0	0.8	290;258
7137.6	6624.3	7447.1	7323.5	0.0	0.8	202
96180.8	103827.4	106875.1	101290.0	0.0	0.9	78
13307.0	14600.9	14047.3	14445.0	0.0	0.9	454
20843.6	19207.5	23157.5	21535.0	0.0	0.9	201
74859.2	71156.4	63287.2	72366.0	0.0	0.9	1535
8213.3	8435.7	10189.6	8880.0	0.0	0.9	224
45682.7	43424.2	45350.0	43652.0	0.0	0.6	1412
4770.6	4043.6	5481.3	4837.9	0.0	0.9	1351;1323;1302
16809.6	16760.1	16372.7	16261.0	0.0	0.7	1009
6872.6	6341.8	6397.2	6829.1	0.0	0.9	195
18400.2	18424.3	17740.6	18633.0	0.0	0.6	274
2811.6	3147.0	2860.2	2592.7	0.0	0.9	60
14334.3	14509.6	15314.7	13290.0	0.0	0.8	14
5158.9	5247.0	4978.4	5522.7	0.0	0.8	127
179807.4	180448.4	182385.5	180980.0	0.0	0.4	863
22664.1	23122.3	22507.8	21908.0	0.0	0.6	890
20054.7	19715.7	18236.4	22058.0	0.0	0.9	597
78614.2	75682.7	83126.6	71842.0	0.0	0.8	765
5088.8	5158.8	5349.1	4767.4	0.0	0.8	810
20766.9	20745.2	18817.8	21107.0	0.0	0.9	137
34937.3	35703.6	35435.2	36096.0	0.0	0.7	907
5336.9	4898.1	5093.0	5397.7	0.0	0.8	202
15635.3	16079.2	16800.2	17111.0	0.0	0.8	116
12270.0	10946.8	12652.7	11299.0	0.0	0.9	646
7922.2	8832.7	8214.1	7878.6	0.0	0.9	940

Srrm1	0.797908	0.00792905	43.761	S(0.145)VS(0.798)GS(0.424)PEPT(I	2	0.9055	7829.0	7120.6
Srrm1	0.63273	0.0214404	42.958	S(0.145)VS(0.798)GS(0.424)PEPT(I	2	0.9055	7829.0	7120.6
Pip4k2c	1	0.059319	61.765	EAS(1)DKEK	2	-0.58936	11017.6	9805.3
Ccdc132	0.715086	3.48E-05	47.68	S(0.001)AY(0.006)QDY(0.715)DS(C	4	0.15256	16387.4	17117.4
Hspa5	0.844957	2.51E-29	83.602	LYGSGGPPPT(0.001)GEEDT(0.845)	3	1.477	35873.4	37629.7
Map1b	0.766038	0.00050362	43.861	T(0.03)T(0.03)RS(0.083)PDT(0.004	3	-0.50875	13744.4	14130.5
Htt	0.996498	1.64E-42	139.87	AALPSLTNPPS(0.003)LS(0.996)PIR	2	-0.094096	63220.4	64668.6
Nr3c1	0.993944	4.54E-31	98.508	SSTSATGCAT(0.994)PT(0.006)EK	3	0.2479	37547.9	30215.6
Nup98	0.994528	4.94E-10	57.366	FYT(0.001)NPIAKPIPQT(0.995)PES	4	1.3111	12492.1	12621.1
Pex19	0.811706	1.93E-30	84.561	AKPS(0.812)PAPS(0.85)PT(0.285)I!	5	0.038702	73207.9	71193.1
Spp1	0.997755	3.98E-05	47.155	AS(0.002)LEHQS(0.998)HEFHS(1)F	4	0.028502	14551.9	15144.0
Spp1	0.999847	3.98E-05	47.155	AS(0.002)LEHQS(0.998)HEFHS(1)F	4	0.028502	14551.9	15144.0
Farp2	0.681303	1.39E-05	50.827	DS(0.008)S(0.143)S(0.681)S(0.168	4	2.1138	5659.5	5548.4
Mta3	0.997846	6.35E-05	82.705	HAELS(0.002)GS(0.998)PLK	3	0.24713	61291.8	60765.8
Mtor	0.881558	1.74E-06	79.659	LHVS(0.882)T(0.118)INLQK	3	0.32331	13786.2	11896.0
Arhgef12	0.589846	1.02E-07	53.768	IT(0.41)S(0.59)PVLGMGEENNVVHN	3	-0.95386	13156.4	12884.4
Srrm1	1	0.000498009	80.69	RRT(1)PS(1)PPPR	3	0.7751	37211.6	39189.5
Xrn2	0.998956	1.48E-07	85.469	NS(0.999)LGS(0.001)DVLVFGK	3	-0.76849	2779.9	2786.4
Srcin1	1	2.90E-10	58.373	QVDEGVWPPPNLLNQS(1)PKK	5	-0.89013	12929.8	10399.2
Basp1	0.828805	6.48E-63	111.3	AGEAS(0.005)AES(0.829)T(0.166)C	4	0.17704	14951.4	15329.4
Ptprn2	0.737861	6.29E-07	41.303	LEEQADS(0.002)IAGAIQS(0.01)DP'	4	-0.21251	6863.3	7793.0
Tjp1	0.774034	0.000395456	47.639	MS(0.003)KPGAVS(0.223)T(0.774)	3	-0.32973	12579.2	12930.4
Xpc	0.999996	1.20E-43	99.219	AVKKEALS(1)DDGDDFRDLSNCR	3	-0.83758	31606.0	32205.4
Dst	0.99638	1.17E-26	82.59	CSMSSS(0.001)ADFS(0.996)DEDDf	3	-0.18236	19667.3	20808.5
Stx4	0.952453	6.46E-14	122.46	LS(0.048)S(0.952)PDDEFFQK	2	1.0511	41159.4	38324.0
Synpo	0.873539	7.27E-55	143.47	AAS(0.874)PAKPS(0.095)S(0.031)L	3	-2.3526	67282.6	69703.5
Ptdss1	0.959415	0.000276853	53.377	GS(0.019)KGS(0.959)EDS(0.022)Pf	4	-0.02872	23194.0	24281.3
Dmwd	0.612655	1.12E-06	43.476	AFT(0.001)DEET(0.017)ET(0.613)C	4	1.0059	5895.4	6675.2
Myh9l1	0.5	1.79E-09	58.952	QAQQERDELADEIANS(0.5)S(0.5)G	4	0.47304	8028.5	9020.0
Myh9l1	0.5	1.79E-09	58.952	QAQQERDELADEIANS(0.5)S(0.5)G	4	0.47304	8028.5	9020.0
Epb41l1	0.866134	0.000180473	61.409	ELKPEQET(0.866)T(0.134)PR	3	-0.64944	96469.9	90117.0
Bcas1	0.913363	9.39E-11	72.315	HKDAENS(0.913)PT(0.078)T(0.008	3	-1.2382	27443.6	29638.6
Fam83h	0.952018	1.73E-13	109.66	GSLT(0.004)FAGES(0.044)S(0.952)	2	-0.89821	38650.0	35863.6
Camkk1	0.983926	7.58E-06	83.087	S(0.016)MS(0.984)APGNLLK	2	0.22097	63357.5	57838.1

6202.5	7099.8	7069.7	6789.5	0.0	0.9	688
6202.5	7099.8	7069.7	6789.5	0.0	0.9	694
10014.1	9367.0	10387.0	10802.0	0.0	0.9	229
14821.9	15943.9	16885.6	15057.0	0.0	0.9	555
36795.1	34857.7	37062.7	37374.0	0.0	0.7	648
13210.1	13073.0	14916.1	12723.0	0.0	0.9	2037;1911
58705.4	62257.7	61560.3	61084.0	0.0	0.8	1023;1144
33623.5	32266.2	35251.4	32950.0	0.0	0.9	170
12001.7	12084.2	13053.5	11641.0	0.0	0.8	623
70540.0	69895.8	72210.4	70890.0	0.0	0.6	35
16053.7	14848.4	14999.5	15488.0	0.0	0.8	278
16053.7	14848.4	14999.5	15488.0	0.0	0.8	283
6360.8	6075.8	5699.2	5634.8	0.0	0.9	427
57893.1	57062.6	59236.0	62025.0	0.0	0.8	462
10862.5	12758.4	12035.1	11422.0	0.0	0.9	1261
13034.4	13329.3	14195.9	11198.0	0.0	0.9	190
36299.0	35121.7	38313.0	38250.0	0.0	0.8	516
2564.0	2550.4	3120.7	2386.0	0.0	0.9	288
9680.8	11665.1	10718.5	10329.0	0.0	0.9	878
15278.7	14840.7	13741.7	16567.0	0.0	0.9	130
8086.2	7427.5	7224.8	7885.7	0.0	0.9	340
13020.6	11774.0	12983.0	13427.0	0.0	0.8	500
30922.5	31703.0	30607.0	31573.0	0.0	0.6	93
19914.1	19369.2	21396.4	19082.0	0.0	0.8	157
40420.2	37830.9	38899.7	42098.0	0.0	0.8	36
75660.9	70862.7	74073.1	65807.0	0.0	0.9	596
23227.3	22049.8	23260.1	24760.0	0.0	0.8	439
5930.4	6112.6	6556.9	5666.1	0.0	0.9	633
9072.8	8808.7	8673.2	8406.0	0.0	0.8	1713
9072.8	8808.7	8673.2	8406.0	0.0	0.8	1714
81579.3	89651.1	90410.5	85709.0	0.0	0.9	488;480
32346.0	26501.3	30437.1	31691.0	0.0	0.9	359
37064.4	37629.6	36394.8	36558.0	0.0	0.7	978
60656.9	60630.9	60281.1	59319.0	0.0	0.8	475

Zc3h13	0.796569	2.16E-05	89.46	YRNEGS(0.797)PS(0.203)PR	3	-0.1899	6311.1	6852.6
Trpm3	0.714912	4.59E-05	49.535	QS(0.275)S(0.715)FNS(0.01)QEGN	3	0.12706	34059.3	32877.8
Oxr1	0.852977	4.19E-51	156	VVS(0.002)S(0.017)T(0.128)S(0.85	3	-0.25033	115425.1	115219.9
Ppfia4	0.982986	0.000153223	47.621	LGHPT(0.017)LS(0.983)QEEGK	3	-0.31882	19422.8	17952.1
Kmt2d	1	1.62E-15	86.453	VS(1)PAAAQLADAFFGK	3	-0.57621	4729.6	4562.1
Mtx3	1	3.68E-19	72.568	HGAGGIS(1)PAGQEVDANLQK	3	-1.3024	15581.2	16479.0
Vim	0.995693	0.000181294	77.062	LRS(0.996)S(0.004)MPGVR	3	-0.18404	28090.0	26047.3
Garem	0.717226	2.94E-14	59.674	S(0.061)AS(0.717)YS(0.22)LENS(0.	3	0.95274	15946.1	16397.8
Carhsp1	0.583459	0.00455629	106.6	TFS(0.583)AT(0.417)VR	2	-0.84143	159103.4	163944.9
Synpo	1	0.00285629	50.116	LVGQRS(1)PVVER	2	-1.6721	20827.8	21112.3
Ctdp1	0.99879	3.02E-21	124.29	SFSS(0.001)AS(0.999)DGENEER	2	-0.2258	5514.8	5845.1
Agap1	0.86296	5.67E-21	104.76	LT(0.127)S(0.863)QS(0.01)EAMAL	3	-1.2078	5856.2	5591.2
LOC68779	0.97695	2.99E-18	73.672	S(0.002)S(0.002)S(0.004)LPVS(0.9	3	-0.4268	53180.4	51768.9
Tmem59	0.78324	1.62E-26	109.28	S(0.217)QT(0.783)EEHEEAGPLPTK	4	0.69747	16375.5	17047.2
Trpv2	0.858682	1.31E-21	82.865	LET(0.141)S(0.859)DGDEEGNAEVI	2	1.178	106823.5	105307.1
Zcchc24	0.716173	1.65E-101	158.52	GRPEQLGS(0.261)PLHS(0.716)S(0.	4	-1.1957	8238.8	8545.8
Eef2k	0.999861	1.57E-29	115.63	DSENSGDSGYPS(1)EKR	3	-0.13164	17565.8	18827.4
Tbc1d14	0.998954	3.88E-05	64.244	AGRPS(0.001)RPPS(0.999)PK	4	-0.30248	10679.8	10069.1
Ctnnd2	0.997254	4.84E-46	104.57	SYSTSSPINIVVS(0.001)S(0.001)AGI	3	0.51167	10323.5	9480.3
LOC10091	0.985209	6.31E-73	158.78	SSTEPMPPRGS(0.985)LT(0.015)GV	3	-2.2892	59639.9	56577.8
Ccnk	1	0.000173438	67.234	KPS(1)PQPS(1)PPR	2	0.94542	108377.6	109364.6
Sos1	0.827246	1.30E-21	122.96	RRPESAPAES(0.168)S(0.827)PS(0.(	4	0.46009	23859.6	22264.1
Syn1	0.743667	1.16E-09	48.5	LPS(0.038)PT(0.128)AAPQQS(0.74	2	0.77769	3870.6	3472.5
Srrm2	0.932715	1.78E-15	97.957	S(0.011)S(0.014)S(0.933)VS(0.041	3	0.082591	70912.0	68937.8
Cep135	0.569908	0.00208336	40.187	DKS(0.423)PS(0.57)RLDT(0.007)FL	3	0.53028	25726.1	27278.1
Clec2g	0.799412	1.75E-26	77.037	ASQPMLNT(0.044)T(0.157)GS(0.7	3	-0.61948	19495.5	17771.1
Pdgfrb	1	0.000767855	75.509	LPGLHS(1)LR	3	-0.36252	14709.3	14350.9
St5	0.999825	0.0013473	91.549	INS(1)IYNAK	2	0.12259	11250.4	10472.2
Prune2	0.997066	1.68E-11	57.738	SLEALS(0.997)PGNY(0.002)DK	3	1.5174	29534.3	27665.3
Pex10	0.993002	0.0117114	77.533	RS(0.007)S(0.993)LEDR	2	-0.65956	17184.1	19008.4
Jph3	0.954409	0.0503717	53.775	T(0.023)S(0.023)INS(0.954)LR	2	-1.3844	2769.0	2717.4
Tmem106i	0.946461	0.000402326	50.088	KPS(0.946)HS(0.054)CVPCEK	4	-2.0446	2291.0	2412.0
Slc38a10	1	9.23E-42	160.64	QRQDVFGEYS(1)QERK	3	0.62538	132852.6	132364.7
Add3	0.577046	4.28E-66	143.04	TEEVLS(0.094)PDGS(0.863)PS(0.5	3	-0.93172	109899.4	102502.3

6402.1	6579.4	6493.9	6318.1	0.0	0.8	903
36570.5	32290.4	34822.8	35472.0	0.0	0.8	1314
120368.4	111546.9	119388.9	116950.0	0.0	0.7	204
19262.6	17795.1	19276.2	19063.0	0.0	0.8	633
4865.0	4097.7	4712.7	5220.5	0.0	0.9	4366
15751.4	15937.3	15565.9	15884.0	0.0	0.7	249
26335.0	27178.9	27107.2	25473.0	0.0	0.8	72
17515.5	15589.7	15876.8	17951.0	0.0	0.9	616
163241.6	159351.2	163363.6	159270.0	0.0	0.5	52
22318.1	21180.8	22820.9	19688.0	0.0	0.9	298
5850.8	5812.6	5665.8	5580.1	0.0	0.7	473
5614.5	5922.7	5519.9	5468.4	0.0	0.8	1041
53809.1	51945.6	52834.8	52577.0	0.0	0.5	21
17732.7	17373.9	16334.2	16996.0	0.0	0.8	303
107880.2	103825.2	108018.5	105350.0	0.0	0.5	15
9107.9	8397.8	9411.3	7855.7	0.0	0.9	69
19018.8	17954.6	17147.5	19823.0	0.0	0.9	444
10009.1	9786.5	11281.7	9420.4	0.0	0.9	316
10358.0	10133.4	10280.5	9483.9	0.0	0.8	310
61496.9	55165.2	58241.1	62754.0	0.0	0.9	753
104936.4	105926.1	108841.4	105090.0	0.0	0.6	332
24119.5	22286.3	23760.2	23583.0	0.0	0.8	1153
4039.3	3578.6	4027.8	3676.5	0.0	0.9	516
71385.3	67505.6	70658.7	71227.0	0.0	0.7	1380
24071.6	26601.4	25334.3	24468.0	0.0	0.9	441
19833.2	17842.4	18817.8	19942.0	0.0	0.9	16
15195.6	14461.2	14449.1	14960.0	0.0	0.7	996
11011.6	10099.1	11370.4	10980.0	0.0	0.8	564
28545.2	27381.3	32064.7	25553.0	0.0	0.9	1274
16575.4	16903.1	17483.0	17923.0	0.0	0.9	259
2219.4	2666.2	2414.4	2558.2	0.0	0.9	166
2322.0	2155.6	2494.6	2313.7	0.0	0.9	41
141959.4	128816.3	135033.8	139790.0	0.0	0.8	885
124850.6	107566.2	105657.9	121100.0	0.0	0.9	646

Tacc2	0.730662	5.00E-16	67.217	QALYLMFDT(0.006)PQES(0.263)P	4	0.095645	7484.3	7419.2
Zc3h13	0.993468	9.44E-05	66.989	S(0.017)KLS(0.993)PS(0.99)PLRK	3	0.099754	17671.9	17918.1
Zc3h13	0.989615	9.44E-05	66.989	S(0.017)KLS(0.993)PS(0.99)PLRK	3	0.099754	17671.9	17918.1
Zfp608	0.953115	1.21E-13	120.87	AS(0.045)S(0.953)PS(0.002)ETFSN	2	0.39024	50459.9	50226.6
Zfp638	1	0.000861539	75.229	GLS(1)PAQKPK	2	0.82224	87188.4	79785.2
Prrc2a	0.95502	6.25E-33	131.94	ERS(0.038)DS(0.955)GGG(0.005)S(	2	0.26141	19302.3	19784.0
Scaf11	0.999625	0.00127859	59.155	S(0.001)S(0.002)QS(0.997)PS(1)PK	3	-0.68787	32630.5	38016.9
Ampd2	1	4.25E-21	104.35	QIS(1)QDVKLEPDILLR	3	-0.62104	96215.8	84969.2
Ldlrap1	0.984722	0.000900138	108.4	RDS(0.985)T(0.015)PSLK	2	0.291	68623.2	66112.2
Ubr4	0.998885	9.93E-06	110.84	HVT(0.03)LPS(0.971)S(0.999)PR	2	0.25476	105134.7	105822.7
Ulk1	1	0.0158626	43.717	VPS(1)PQGADVR	2	-1.0032	11447.3	11831.3
Prx	0.876497	2.18E-07	81.448	S(0.876)GS(0.124)KDREEGGFR	3	1.0178	94150.1	96109.5
Apba1	1	7.18E-82	163.04	MDS(1)YEQEEDIDQIVAEVK	3	0.3291	183434.1	184435.3
Dab2ip	0.59705	7.83E-31	88.555	S(0.175)S(0.175)S(0.597)YS(0.053)	3	0.89644	14421.9	14416.8
Sash1	0.637483	1.02E-39	120.11	S(0.637)CET(0.363)LEGPEPESWP	3	0.2543	12022.2	13320.9
Synrg	0.775811	3.38E-10	64.619	S(0.223)GS(0.776)IDDS(0.001)FTD	3	-0.2765	7798.3	7634.7
Amot	0.743398	2.71E-10	48.798	RLS(0.743)T(0.257)PNLMCNPKPI	4	-0.019852	7816.0	7292.8
Gys1	0.998277	2.83E-15	84.975	YPRPAS(0.998)VPPS(0.844)PS(0.1	3	0.27354	42047.9	45746.8
Srrm2	0.65185	0.0514554	57.293	S(0.998)RS(0.35)PAT(0.652)K	3	0.40713	58696.5	65988.2
Marcks1	1	0.0010344	114.4	LSGLS(1)FKR	2	-0.96558	196696.7	185049.5
LOC10091	0.897395	1.40E-99	121.62	T(0.044)PS(0.051)PPEEAS(0.95)PL	4	0.90525	35079.1	34596.7
Dmd	0.994065	1.54E-98	116.72	MGYLPVQT(0.001)VLEGDNMET(0.	4	-2.2152	16500.7	16601.8
Zcchc6	0.842785	0.000756454	80.871	GS(0.843)PGS(0.072)LS(0.027)S(0.	2	0.084194	46645.7	44080.6
Frs2	0.845424	0.0418985	47.228	HPS(0.845)VGS(0.155)AR	2	-0.83505	11348.1	10369.9
Arhgap19	0.999999	0.0230561	67.897	LYLGSL(1)R	2	0.32355	9949.6	11327.8
Srgap1	0.997646	3.99E-13	102.29	RPGHGS(0.998)LT(0.002)NISR	3	-0.06207	18085.8	18626.7
Atg3	0.678852	3.07E-06	79.639	EIT(0.002)LES(0.319)KDS(0.679)IK	3	1.4864	30761.6	25018.4
Plekha6	0.961053	1.98E-32	93.255	AYVPLDS(0.961)PPT(0.039)VPPLPI	3	-0.12751	42129.0	46557.5
Nrbp2	0.99823	1.68E-08	68.283	AKT(0.998)PT(0.999)PEPFDS(0.00	4	0.35114	157839.2	161498.8
Spag9	0.991526	1.91E-09	83.54	DGGS(0.992)VVGAS(0.008)V FYK	3	0.49823	22960.3	20800.8
Dync1i2	0.999188	2.58E-51	110.6	SVSTPSEAGS(0.999)QDS(0.001)GC	3	-0.16955	88830.8	89951.4
Apba1	0.615346	4.61E-25	99.344	S(0.001)NS(0.002)QENVEAS(0.382	3	2.0912	3982.8	3423.0
Arfgef2	0.861331	4.18E-86	154.7	QS(0.001)LS(0.138)S(0.861)ADNLE	3	-1.0976	64562.1	67511.8
Srrm2	1	0.0116108	64.82	S(1)RT(1)PLLPR	3	-0.50836	19798.5	19547.0

8139.9	8162.1	7222.0	7459.3	0.0	0.9	2447
17038.5	17570.8	17346.2	17255.0	0.0	0.6	207
17038.5	17570.8	17346.2	17255.0	0.0	0.6	209
52947.8	50610.2	50732.8	50959.0	0.0	0.6	963
79208.3	85525.2	79548.8	78974.0	0.0	0.8	560
17935.0	17399.2	19940.9	19187.0	0.0	0.9	762
35477.1	35198.7	35786.7	34220.0	0.0	0.9	820
92470.5	90454.1	90763.1	90073.0	0.0	0.8	113
65848.1	61568.0	69497.1	67787.0	0.0	0.8	198
103515.1	100562.7	106971.3	104230.0	0.0	0.7	2758
11285.2	11294.4	11486.9	11485.0	0.0	0.6	521
100817.3	92234.9	103128.4	93208.0	0.0	0.8	1345;1345
191124.5	185189.2	188444.7	180550.0	0.0	0.7	266
13483.7	13796.8	13956.5	14205.0	0.0	0.7	700
13421.9	12056.7	13081.3	13294.0	0.0	0.9	817
7537.1	7188.6	7622.1	7962.2	0.0	0.8	567
8667.9	7722.5	8523.6	7326.5	0.0	0.9	710
40656.5	43081.0	43911.6	40357.0	0.0	0.9	641
59704.1	61844.1	53775.2	67191.0	0.0	0.9	486
181074.3	188797.1	187632.5	181580.0	0.0	0.8	104
36190.4	33208.9	37149.3	34604.0	0.0	0.8	253
16658.5	15819.6	16599.2	16918.0	0.0	0.7	340
41805.3	44171.1	44244.0	42988.0	0.0	0.8	1473
11414.0	10698.3	11858.7	10293.0	0.0	0.9	169
9950.0	10382.2	10108.5	10471.0	0.0	0.9	230
18592.9	17879.8	18384.9	18570.0	0.0	0.6	854
27341.1	27029.3	27563.5	27822.0	0.0	0.9	133
42833.7	41331.0	46254.1	42818.0	0.0	0.9	945;261
162975.4	158493.2	160275.2	159450.0	0.0	0.4	407
21804.9	21563.6	22014.1	21432.0	0.0	0.8	548;705
88552.7	86690.0	85632.6	92752.0	0.0	0.8	95
3188.1	3351.6	3292.5	3860.7	0.0	0.9	571
63445.2	63664.6	62401.3	67808.0	0.0	0.8	355
19710.8	20552.7	18859.4	19148.0	0.0	0.8	1990



Kctd12	0.544042	2.15E-21	70.391	S(0.843)PS(0.153)GGAAGPLLT(0.0	3	-0.16013	36414.9	37845.8
Dlg2	0.689601	0.0183138	60.943	QPS(0.31)VT(0.69)LQR	2	0.33262	11530.3	11746.9
Eea1	0.996375	0.000767616	64.121	S(0.004)LGS(0.996)ADELFK	2	2.011	6757.4	6415.5
Foxk2	0.932649	8.70E-11	51.811	S(0.002)APAS(0.045)PNHAGVLS(0	3	-1.0868	2029.7	2173.2
Eml1	0.581546	2.63E-07	71.545	T(0.023)S(0.029)S(0.384)S(0.582)E	2	0.38785	6328.7	7337.4
Fbxo38	0.975402	1.05E-32	96.467	TVTSGGS(0.005)S(0.019)EPS(0.97!	3	-0.97884	47295.7	47749.8
Dync1i2	0.888661	2.55E-38	77.522	EAEALLQSMGLT(0.011)T(0.011)DS	5	-0.38351	11501.2	12305.2
Dnmt3a	1	1.21E-32	111.57	RSEPQPEEGS(1)PAAGQK	3	-0.49315	14107.0	14244.5
Rab11fip5	0.999999	4.06E-70	115.67	EPTQKPSPHPVKPLTAAPVEAS(1)PC	4	-0.16992	64516.8	62992.5
Bud13	1	0.000158384	71.176	HDT(1)PDAS(1)PPR	2	0.030073	25297.9	22970.5
Srrm1	1	0.00208695	93.477	RVS(1)RT(1)PEPK	3	-0.67001	105862.2	113914.6
Dmtn	0.905903	3.26E-10	65.423	S(0.119)T(0.15)S(0.824)PPPS(0.90	2	-1.5517	26761.3	24781.5
Myo5a	0.730515	1.10E-107	197.6	T(0.731)S(0.135)S(0.135)IADEGTY	2	-1.2544	21295.3	19230.0
Cttn	0.926963	1.18E-32	75.436	KQT(0.337)PPAS(0.702)PS(0.927)F	5	0.61475	120806.5	120123.1
Trpm3	0.778171	1.33E-05	47.564	ANS(0.19)Y(0.011)S(0.778)AEEPS(	3	0.023831	15444.0	17889.6
Scrib	1	0.000311748	74.611	GLGFS(1)IAGGK	2	-0.60523	13763.5	12737.4
Ank2	0.989727	0.000130672	77.124	QPPIS(0.99)PT(0.01)SK	3	0.46883	81211.9	84116.9
Pex19	0.931535	4.51E-29	79.467	AKPS(0.093)PAPS(0.93)PT(0.932)I!	5	0.20329	160987.9	186014.8
Synm	0.937513	0.000177573	45.138	QS(0.938)QGEPGS(0.055)VS(0.007	3	-0.9652	5595.0	5448.6
Cacna1h	0.528495	5.46E-07	51.827	WS(0.528)S(0.468)VELDNGES(0.0(	3	-0.48754	7265.4	8004.8
Itsn2	0.9197	0.00036597	50.827	MLS(0.047)S(0.164)DKT(0.92)PS(0	4	0.10134	43853.6	46503.7
Dpysl2	0.983856	1.61E-14	84.375	T(0.005)VT(0.042)PAS(0.389)S(0.5	3	0.10027	651727.8	672737.9
Phldb1	0.937141	0.000159451	79.311	S(0.937)S(0.063)PPPLPAK	2	0.2732	79648.3	79377.1
Pcyt1b	0.983361	1.26E-33	113.4	AASASISS(0.016)MS(0.983)EGDED	3	-0.41595	56881.3	60045.1
Ubxn2b	1	0.00542955	72.096	AFS(1)GEGQK	2	-0.13629	34504.2	34600.0
Rbbp6	0.999704	3.67E-15	109.1	VEGTEIVKPS(1)PK	3	-0.10825	90397.9	91968.6
Rgs7bp	0.993451	5.14E-09	106.79	RGS(0.993)GS(0.006)ES(0.001)AHI	3	0.042516	15029.0	14559.4
Bud13	1	0.00398874	43.761	HDS(1)DAS(1)PPRR	3	-1.0894	4583.2	3851.9
Tmem35	0.997601	1.34E-17	89.502	ALPESAEQPS(0.998)LY(0.002)EK	3	0.8419	81396.8	83146.1
Brd1	0.520161	8.42E-22	83.395	S(0.52)RS(0.367)T(0.09)CGDS(0.02	3	-0.22921	4071.6	3755.4
Fermt2	0.874592	9.26E-08	88.092	GSYYS(0.125)S(0.875)PGLYSK	3	1.496	24471.4	26368.7
Fgd5	1	1.61E-08	93.243	VES(1)FEDR	2	-1.2286	32250.1	34991.6
Cttnbp2nl	0.937331	7.64E-17	107.62	DLS(0.937)PT(0.063)LLDNSAAK	2	3.1058	26811.4	25132.5
Sox6	0.848991	5.95E-05	94.692	GTS(0.151)PVT(0.849)QVK	2	1.0325	15200.7	13466.8

39900.7	35585.9	39300.4	38316.0	0.0	0.8	200
11672.7	11213.0	11978.4	11465.0	0.0	0.7	408
6686.2	7164.5	6504.8	6023.0	0.0	0.9	52
2121.9	2170.3	2054.1	2047.4	0.0	0.8	192
6461.8	6843.0	5513.8	7603.0	0.0	0.9	104
47117.9	45038.9	47551.4	48387.0	0.0	0.7	741
12002.8	10891.7	12083.2	12536.0	0.0	0.9	81
13266.5	13538.3	13985.3	13748.0	0.0	0.7	102
74585.6	72760.1	59886.8	67766.0	0.0	0.9	533
25747.3	21404.1	25015.9	26980.0	0.0	0.9	135
103091.4	107115.2	109568.1	103500.0	0.0	0.8	661
28629.3	26797.2	26194.6	26514.0	0.0	0.9	96
20758.4	21855.1	19174.7	19745.0	0.0	0.9	1623
135922.8	122799.5	114334.2	136590.0	0.0	0.9	407;370
16491.3	16876.7	16433.6	16101.0	0.0	0.9	1653
12042.2	11836.7	13011.8	13375.0	0.0	0.9	859;859;859
87774.4	82599.3	84871.7	83534.0	0.0	0.7	1962
168980.0	168337.8	180600.8	162770.0	0.0	0.9	41
5355.3	5967.0	5652.3	4644.0	0.0	0.9	973;973
7352.6	8187.2	7194.2	7054.9	0.0	0.9	2159
41844.7	41992.1	44289.9	44830.0	0.0	0.8	783
629384.4	651066.1	652759.7	633920.0	0.0	0.7	522;623
80594.5	77106.1	82481.1	78067.0	0.0	0.7	949
56402.6	56294.8	59901.8	55712.0	0.0	0.8	324
31716.7	33287.0	32012.3	34697.0	0.0	0.8	216
88311.0	88458.8	96810.6	83197.0	0.0	0.9	1142
13074.9	14912.2	13692.5	13710.0	0.0	0.9	38
3931.7	4118.4	4077.0	4070.7	0.0	0.9	234
81061.8	81725.9	83286.9	78590.0	0.0	0.7	154
3936.3	3722.5	3823.8	4121.2	0.0	0.8	932
24293.0	25986.5	24760.5	23778.0	0.0	0.8	87
32637.7	33754.5	33754.2	31563.0	0.0	0.8	800
28781.5	26162.5	27659.7	26251.0	0.0	0.9	488
15823.8	14338.0	14093.3	15701.0	0.0	0.9	374

Gpsm3	0.999837	2.76E-14	110.14	S(1)APPS(1)PPPPGTR	2	0.18733	46458.4	46953.4
Rfc1	0.999976	0.000534136	65.234	LTPLKHS(1)PR	3	0.17545	17744.7	18732.0
Purg	0.997129	0.00094408	78.964	NVGGS(0.003)GLS(0.997)K	2	1.5952	37611.1	41282.4
Farp2	0.98748	1.19E-09	53.481	LGGQTAIGVS(0.006)T(0.006)LEPEI	3	-0.024467	5580.2	5641.7
Prune2	0.586964	5.04E-87	161.51	DADFPAEGVEVLAT(0.587)S(0.413)	2	-0.93576	93686.2	90834.4
Pi4kb	0.924767	1.60E-40	111.45	ELPTLSPAPDT(0.016)GLS(0.925)PS	4	-0.0027609	14772.5	13540.3
R3hdm1	0.816615	1.60E-17	71.309	YSEPRPWS(0.817)S(0.167)T(0.015	3	0.24298	9812.2	10309.8
Isl1	0.720531	6.33E-09	57.238	TNIQGMT(0.019)GT(0.26)PMVAA'	3	0.059559	3454.6	2854.3
Scamp3	1	0.00312259	65.241	KLS(1)PAEPK	3	0.19877	66711.3	70445.0
Madd	0.98301	7.83E-107	179.19	ATLS(0.017)DS(0.983)EIETNSATST	3	-0.14955	256235.3	257731.1
Ablim3	0.999668	0.00652	60.118	S(1)PHHYR	3	-0.81821	8307.6	7424.0
Akap12	1	8.00E-39	91.503	LAEPQEVQEAEPAEELMKS(1)R	3	-0.28095	56626.0	61506.2
Rere	0.925799	1.14E-30	160.16	EKVAS(0.926)DT(0.074)EDTDRATS	3	0.35688	39985.8	41389.9
Jup	0.994857	2.86E-13	103.88	RVS(0.995)VELT(0.002)NS(0.003)L	4	0.94023	54036.7	47574.3
ltpr1	0.846656	1.40E-14	50.825	RES(0.847)LT(0.102)S(0.045)FGNC	4	0.2025	28272.5	27636.8
Lmna	0.817594	1.37E-39	123	AS(0.035)S(0.818)HS(0.255)S(0.43	2	0.70947	135047.1	126024.5
Apc2	0.999991	5.57E-39	82.885	FHAPALGPEPAAQT(1)PEGS(1)PVH	5	-0.046641	33452.3	34009.8
Atxn7l3	0.999617	0.00023716	54.898	SDKNPNS(1)PR	2	1.0303	31893.4	32956.8
Zrsr1	1	1.62E-29	80.664	ALEAPPEVEEEDVS(1)ANEELAER	3	-3.637	16035.6	15807.6
Sf3b1	0.996811	5.47E-15	82.244	GGDS(0.001)IGET(0.997)PT(0.002)	3	-2.3167	59282.1	61499.6
Tsc22d3	0.978308	2.10E-21	107.29	S(0.002)GENNPGS(0.978)PT(0.019	3	-1.4638	89581.0	94410.4
Comt	0.966112	3.37E-14	119.17	AIYQGPS(0.017)S(0.966)PKDS(0.0	2	-0.85667	136215.9	136368.5
Pcm1	0.998887	3.12E-22	89.557	TQESTNVPS(0.999)DQEGT(0.001)S	3	0.20688	52378.9	51658.1
Otud7a	1	1.65E-29	121.62	AAGGAAS(1)PGLGGGAR	3	0.11043	19799.7	21564.2
Morc2	0.999968	1.53E-52	125.23	SLVVS(1)DEEEAEAAEKRK	4	2.4957	21197.5	25245.5
Ccdc2	0.993647	4.30E-05	64.103	S(0.994)PVWPT(0.006)FPFHR	3	0.81793	3608.6	4301.2
Srrm2	0.760523	0.000409967	96.668	S(0.028)GS(0.761)S(0.212)PPKQK	4	-0.48397	9136.0	10699.0
Abca2	0.989099	2.26E-17	70.837	VS(0.001)EEDQS(0.989)LENS(0.01	3	-0.093096	12694.9	14125.0
Gab1	0.942702	2.27E-22	65.741	NVLAAGNVS(0.011)GEELDENY(0.9	3	1.3414	105772.8	107151.0
Mast3	0.999254	6.76E-16	66.36	KQEAVQEVVS(0.999)FDEEPGPT(0.0	3	1.3273	24345.0	23344.5
MAST1	0.800404	1.27E-28	77.959	LEEQDS(0.003)GGS(0.196)NT(0.8)	3	0.26253	1398.2	1293.4
Grb14	0.921669	1.69E-40	124.2	S(0.022)VS(0.922)ENS(0.056)LVAN	4	-0.18411	103646.2	102230.3
Map1b	0.988505	4.83E-05	95.417	NAANAS(0.989)AS(0.011)K	2	0.82249	18162.1	17387.2
Hnrnpa3	0.97258	3.02E-07	64.121	EDS(0.027)VKPGAHLT(0.973)VK	4	-0.39978	6769.6	7813.0

49626.2	44725.5	50826.8	46333.0	0.0	0.9	37
16411.5	17402.5	17167.8	17892.0	0.0	0.9	533
42119.4	39676.6	39581.5	40781.0	0.0	0.8	30
5925.7	5180.8	6053.3	5775.5	0.0	0.9	36
92854.9	90559.7	97535.1	87051.0	0.0	0.8	764
13596.5	14200.5	13191.3	14181.0	0.0	0.8	266;266
10549.8	11495.7	9749.8	9180.0	0.0	0.9	317
4101.2	3660.6	3272.6	3393.4	0.0	0.9	269
69071.8	64361.9	69680.9	70532.0	0.0	0.8	38
246879.8	244873.0	258398.1	251480.0	0.0	0.7	1198
6676.4	7464.2	7030.0	7734.5	0.0	0.9	394
61609.8	56918.5	60781.3	60605.0	0.0	0.8	452
40058.2	39694.2	40957.9	39811.0	0.0	0.6	388
54336.1	52597.9	50287.2	51816.0	0.0	0.9	665
28189.6	27430.8	27144.6	28852.0	0.0	0.7	1715
141799.7	132468.1	136497.9	130690.0	0.0	0.8	404
33562.8	34069.1	33958.3	32192.0	0.0	0.7	108
30811.8	30067.4	32686.6	32147.0	0.0	0.8	163
15343.6	16023.1	14905.4	15883.0	0.0	0.8	51
62508.3	56490.6	61753.7	63592.0	0.0	0.8	326
89186.1	87917.6	87261.2	95833.0	0.0	0.8	41
133655.2	131247.2	138902.3	132870.0	0.0	0.7	260
54294.6	51970.9	53748.5	51358.0	0.0	0.7	1855
17241.9	19726.7	19321.1	19094.0	0.0	0.9	757
20236.7	20163.4	23990.0	21999.0	0.0	0.9	692
4143.5	4006.5	3580.7	4370.9	0.0	0.9	19
8203.5	8891.1	10376.9	8549.2	0.0	0.9	795
11500.3	12493.3	12008.4	13516.0	0.0	0.9	1258
99882.6	98761.0	111940.4	99637.0	0.0	0.9	447
24820.0	23870.2	24762.6	23306.0	0.0	0.8	1267
1495.3	1022.6	1513.3	1618.1	0.0	1.0	351
98515.6	100051.2	102301.3	99652.0	0.0	0.7	370
16003.7	16497.2	17880.5	16771.0	0.0	0.9	2320;2194
6274.4	6621.3	6813.6	7258.8	0.0	0.9	102

Scaf1	0.702839	3.11E-57	105.96	FDIYDPFHPT(0.001)DEAY(0.703)S(	3	1.1838	18327.9	19649.0
Irf2bp1	0.999786	4.54E-19	100.04	RKAS(1)PEPEGETAGK	3	0.66809	175013.8	170208.3
RGD13115	0.751759	0.00504564	44.847	S(0.008)HPS(0.05)GGG(0.752)T(0.1	2	0.48293	21878.5	16949.5
Hist1h1b	0.797333	2.09E-37	105.9	SETAPAET(0.145)T(0.797)APAPVE	3	0.48583	23970.5	23691.2
Pard3	0.947279	1.91E-14	76.82	AGS(0.053)PNRDVGPS(0.947)LGLF	4	-0.82366	3867.9	3821.1
Ppig	0.999214	0.000765994	93.839	S(0.001)RS(0.999)KENSK	2	-0.17427	50846.3	52280.1
Ccdc15	0.995149	0.0341593	40.352	T(0.005)KS(0.995)PVRG	3	-0.31002	10849.2	10654.7
Abca7	0.876583	1.32E-05	68.676	EVS(0.123)T(0.877)PGLQHPK	3	-0.10678	16109.5	16000.7
Tra2b	0.999883	2.71E-42	132.81	RPHT(1)PTPGIYMGR	2	-0.15579	178031.3	187824.7
Fam83h	0.82993	0.00288048	57.106	S(0.83)S(0.17)PVPPVPER	2	0.28548	52617.4	52830.7
Depdc5	0.903826	4.23E-44	138.28	RRNS(0.904)T(0.022)S(0.022)S(0.0	3	-0.49182	43250.1	43639.7
P2ry12	0.91911	4.24E-05	51.03	GQEGGDPS(0.919)EET(0.081)PM	2	-0.43114	1478.0	1718.6
Srrm2	0.993862	1.06E-06	95.477	S(0.002)LS(0.012)GS(0.994)S(0.99	2	0.48397	82878.1	85500.1
Crk	1	0.010708	60.255	QGS(1)GVILR	2	-0.94585	4059.0	4061.7
Rab11fip5	0.994788	9.92E-17	54.505	GS(0.001)S(0.001)T(0.001)HS(0.00	4	0.34286	3914.3	4813.9
Traf7	0.996611	1.31E-05	118.87	RS(0.003)DS(0.997)AISVR	3	0.69667	29363.8	27356.0
Wdr47	0.98126	0.000233794	83.214	LSPYPS(0.019)S(0.981)PMR	2	-2.2722	42571.5	43916.1
Ddx24	0.999558	4.29E-14	63.138	KAQAVS(1)EEEEEEEGESSPK	4	0.64723	27939.7	27004.9
Ccm2	1	0.00130714	46.88	KPGIVS(1)PFKR	4	0.6093	8545.0	8147.1
Ahnak	0.961904	2.03E-26	81.016	VS(0.009)VGT(0.029)PEVS(0.962)\	3	1.191	21128.3	21354.7
Cobll1	0.696113	9.68E-07	51.232	T(0.264)GS(0.696)LQLS(0.02)GS(0	4	-0.53413	6223.5	6115.2
Dennd4c	0.992618	1.98E-21	80.316	HPPGSGIT(0.007)NS(0.993)PALM/	3	0.41589	41934.6	45686.5
Prkch	0.987573	0.000190315	65.295	NFS(0.012)YVS(0.988)PELQP	2	-1.3235	16281.3	16211.3
Rapgef2	0.842982	5.02E-26	81.763	S(0.137)LGS(0.843)LS(0.004)QGS(i	4	0.66664	18918.3	20708.7
Zbtb7a	0.985954	1.23E-47	107.65	AGDS(0.986)DEES(0.014)RPDDK	2	1.3564	100582.2	98494.2
Map1b	0.985745	6.51E-74	144.57	DYNASAS(0.001)T(0.009)IS(0.986)	3	0.16334	612929.9	642846.9
Mycbp2	0.814275	5.14E-26	111.58	S(0.041)KS(0.814)DS(0.073)YT(0.0	3	-0.87876	54306.3	55342.6
Soga1	0.781043	7.77E-15	69.259	LS(0.168)FS(0.781)S(0.051)LGGEC	3	3.5575	4006.7	3941.0
Epb41l3	0.880943	5.09E-70	118.36	TDTAADGET(0.083)S(0.881)AT(0.0	4	0.21502	32722.4	30375.8
Cic	1	0.0523214	46.447	DS(1)PVIVR	2	0.30397	10160.2	10276.0
Osbpl3	1	6.59E-11	66.606	QDS(1)WEVVEGLR	2	-0.34463	20893.4	21204.5
Micall2	0.998057	2.78E-05	67.385	NEGVs(0.002)ERPS(0.998)PK	3	-0.86572	11159.9	12407.2
Cotl1	0.999998	5.61E-06	70.54	AGGANYDAQS(1)E	2	-0.24509	53797.0	55976.7
Atrx	0.996716	3.36E-26	78.354	SVS(0.003)DKEEHDFS(0.997)EDEK	5	-0.21469	32685.4	34252.3

18064.8	17347.5	19128.7	19127.0	0.0	0.9	240
171897.1	168810.8	173761.5	170500.0	0.0	0.5	384
14513.2	16242.0	19341.4	17341.0	0.0	1.0	327
24276.0	24613.8	21522.5	25240.0	0.0	0.9	10
3225.3	3391.7	4488.5	2948.9	0.0	1.0	878
51173.1	52040.2	49576.5	51479.0	0.0	0.7	515
10158.3	10815.7	10673.5	9926.2	0.0	0.8	754
14663.3	15598.5	14470.5	16340.0	0.0	0.9	2147
171758.7	172682.7	179115.4	181640.0	0.0	0.8	201
51633.0	47218.0	55957.4	52686.0	0.0	0.9	947
43546.0	41345.3	48318.7	39761.0	0.0	0.9	1383
2009.3	2005.6	1536.9	1623.1	0.0	1.0	338
84992.5	80539.0	89340.8	81528.0	0.0	0.8	776
3694.0	4120.7	3682.3	3920.2	0.0	0.9	125
3748.7	4353.1	3867.0	4160.2	0.0	0.9	993
28140.6	27444.0	29996.8	26763.0	0.0	0.9	59
39669.6	41945.9	40300.7	42936.0	0.0	0.8	297
24181.2	23970.3	27376.5	27168.0	0.0	0.9	80
6563.6	7820.7	8280.6	6974.8	0.0	0.9	15
22895.1	20747.4	22566.6	21560.0	0.0	0.8	5088
5388.3	5513.5	6160.3	5916.7	0.0	0.9	372
47286.1	44447.2	42808.8	46614.0	0.0	0.9	700
15926.0	15173.9	16461.4	16411.0	0.0	0.8	562
21174.7	19573.8	19828.7	20932.0	0.0	0.9	1088
91955.3	94956.2	103201.1	90640.0	0.0	0.9	331
663527.5	627142.0	648421.1	629020.0	0.0	0.8	1201;1075
54095.5	53416.2	55679.6	53393.0	0.0	0.6	2946
3805.6	3713.5	4145.4	3804.5	0.0	0.8	292
33664.0	29329.3	33773.4	32920.0	0.0	0.9	538
10526.8	10460.0	9798.1	10469.0	0.0	0.8	806
20516.7	20054.5	21172.0	20911.0	0.0	0.7	33
11259.7	10431.0	12353.5	11777.0	0.0	0.9	173
58466.9	52537.4	58542.4	55881.0	0.0	0.9	141
38734.9	34083.4	34646.5	36139.0	0.0	0.9	830



Hivep2	0.845754	1.91E-10	87.519	S(0.016)ES(0.846)T(0.138)EMAVS'	3	-0.17442	27846.7	28713.9
Ei24	1	1.82E-47	87.111	FPS(1)PHPS(1)PAK	2	-0.76673	127235.0	129501.8
Map1a	0.995067	6.94E-10	60.735	FPPGLEAAEQS(0.005)AEGLGS(0.9	3	0.21123	34166.7	32070.5
Sipa1l2	0.996249	3.56E-72	105.03	NITTGASAASQTPVPVGPAGGCES(0	4	-1.6692	10742.2	10746.7
Rapgef2	0.978702	0.00214585	74.173	S(0.979)S(0.021)FLNAK	2	0.14488	98257.7	92571.9
Prpf31	0.49999	3.92E-06	67.646	QSVVYGGKS(0.5)T(0.5)IR	3	-0.77171	15881.7	18264.7
Prpf31	0.49999	3.92E-06	67.646	QSVVYGGKS(0.5)T(0.5)IR	3	-0.77171	15881.7	18264.7
Slain2	0.966487	0.00469542	68.484	RT(0.003)S(0.966)S(0.03)EDLR	2	0.99398	15323.5	15555.3
Pi4k2a	0.999989	4.71E-50	122.6	VAAAGS(0.007)GPS(0.993)PPCS(1	3	-0.1742	100963.9	104653.4
Rgs3	0.837675	1.45E-21	107.41	KMS(0.162)GT(0.838)DLADDVEAS	3	0.52463	65715.4	67451.5
Slc16a7	0.980573	0.00292222	53.448	S(0.981)KQDDVT(0.019)VK	3	-0.069631	31045.4	31919.1
LOC67981	0.874778	0.000187744	56.404	S(0.001)PAT(0.003)Y(0.108)S(0.87	4	-1.41	11561.2	12075.9
Wdfy3	0.922538	5.84E-05	65.179	S(0.003)QS(0.06)EY(0.923)CNVGT	2	-0.19068	6368.0	5329.7
Camsap2	0.938371	4.13E-05	52.576	S(0.009)PS(0.053)T(0.938)PVDPEK	2	-1.0282	20260.0	19992.4
Dcaf10	0.991297	5.42E-07	77.359	LRGS(0.991)PAVS(0.009)PAER	3	-0.04039	16195.4	16993.4
Camk2b	0.996903	4.53E-35	74.494	RGCGTPEAEGPLS(0.003)VGPPPCL'	4	-1.0556	26943.8	26616.6
Nfib	0.786034	3.87E-19	74.364	KPEKPLFS(0.003)S(0.011)T(0.2)S(0	4	-0.1144	30103.2	29331.5
Ppp6r1	0.658552	9.07E-16	62.028	EADISS(0.001)IQILS(0.34)S(0.659)I	3	0.1367	6716.9	6500.1
Tnks1bp1	0.999997	9.78E-25	133.9	NRS(1)AEEGEVTESK	3	-0.08603	63333.7	61992.1
Map2	0.98514	1.46E-59	165.16	VDHGAEIIT(0.013)QS(0.985)PS(0.(	4	-0.79565	140378.4	157857.0
Lpin1	0.842797	1.73E-58	92.449	S(0.023)ANQS(0.843)PQS(0.119)V	3	0.2126	12913.1	14454.0
Zmat1	0.725597	0.000650719	51.829	GRGS(0.258)PS(0.726)ACPS(0.017	3	0.71968	21780.7	19719.2
Son	0.821857	0.0134731	55.064	KRDS(0.822)S(0.178)LR	3	0.43543	9479.4	9239.2
Chchd2	0.914619	1.37E-53	92.924	RAPAAQPPATAAAPS(0.085)AVGS(	4	0.20614	9618.8	11099.7
Prkd3	0.99874	3.95E-05	47.371	RLS(1)NVS(0.999)LPGPGLS(0.001)'	3	1.5413	4222.0	3411.1
Srrm1	1	0.000498009	80.69	RRT(1)PS(1)PPPR	3	0.7751	32747.4	34788.7
Pip5k1c	0.937145	1.83E-07	97.463	SSSLKS(0.027)S(0.937)PS(0.035)Kf	3	-0.73443	169837.6	159996.0
Anp32b	1	1.29E-23	96.591	NRT(1)PAAVQELVLDNCK	3	0.99022	28111.5	29158.2
Map2	0.99903	4.24E-30	122.01	LEETS(0.001)KVS(0.999)IEETVAK	3	0.039966	75097.1	65581.2
Zc3hav1	0.971881	9.77E-05	53.3	S(0.001)DS(0.002)S(0.008)S(0.008	3	-0.082576	8060.0	9345.7
Pard3b	0.990585	2.85E-31	69.729	IES(0.005)PS(0.005)GNPVDQRS(0.	4	-0.13349	14082.0	11505.5
Exoc5	1	4.40E-17	93.768	VCHLGDQLEGVNT(1)PR	3	0.71121	13275.7	12338.1
Slc4a2	0.941373	7.96E-41	123.54	T(0.029)S(0.029)PS(0.941)PPTQTP	3	0.12154	47457.9	44547.9
Map1b	0.9962	0.00188024	84.896	ES(0.004)S(0.996)DKVSR	2	0.089006	16816.8	16168.5



28205.6	28491.2	26756.7	28874.0	0.0	0.8	816
121944.1	125142.4	129220.4	121440.0	0.0	0.8	326
34977.7	31194.9	33618.5	35633.0	0.0	0.9	2498
9826.0	10261.3	9672.2	11144.0	0.0	0.9	380
96895.2	93888.2	96134.1	95525.0	0.0	0.7	757;1114
13487.9	18033.8	15370.3	13870.0	0.0	1.0	439
13487.9	18033.8	15370.3	13870.0	0.0	1.0	440
16509.4	15462.1	16333.2	15235.0	0.0	0.8	87
96337.3	96979.0	105065.9	97629.0	0.0	0.8	50
60389.7	63397.3	63377.0	65322.0	0.0	0.8	779
33947.2	31754.7	32594.7	31832.0	0.0	0.8	464
11057.4	11671.7	11375.7	11386.0	0.0	0.8	901
5482.6	5359.2	5525.7	6166.0	0.0	0.9	1944
20497.6	20637.4	18643.6	21012.0	0.0	0.8	837
15815.3	16464.2	15547.7	16624.0	0.0	0.8	63
26975.9	25617.0	27345.5	26969.0	0.0	0.7	479;464;455
26930.1	27904.9	29418.7	28394.0	0.0	0.8	328
6688.9	6443.8	6555.8	6757.3	0.0	0.7	740
62773.4	60738.7	64505.5	61447.0	0.0	0.7	1642
147048.4	140101.9	147601.1	154250.0	0.0	0.9	1866;1780
12396.7	13487.7	12611.1	13368.0	0.0	0.9	472
20567.8	20840.9	20825.7	19938.0	0.0	0.8	73
9876.0	9522.7	9641.3	9217.4	0.0	0.8	1840
10753.9	10180.3	10681.6	10376.0	0.0	0.9	46
4063.4	3756.7	4099.3	3753.6	0.0	0.9	216
32061.7	31321.4	33717.9	33819.0	0.0	0.8	518
142906.9	159417.2	157988.3	151830.0	0.0	0.9	453
28924.2	28278.9	28091.4	29185.0	0.0	0.7	15
74768.7	69483.4	69875.4	74494.0	0.0	0.9	531;445
7194.5	8319.5	8410.7	7688.1	0.0	0.9	351
14578.1	12275.6	14970.6	12623.0	0.0	0.9	42
11541.8	12773.8	12462.5	11645.0	0.0	0.9	122
45663.6	44482.4	48078.3	44096.0	0.0	0.8	173
17022.6	16763.4	16857.9	16019.0	0.0	0.8	2274;2148

LOC50103	0.793724	0.000624589	41.838	S(0.007)DCDS(0.199)S(0.794)PEHF	3	-2.6388	30995.4	27585.2
Zfp444	0.99665	1.95E-05	48.371	GT(0.003)HPGS(0.997)PGPALRPLP	3	0.92822	23974.0	24173.8
Brsk2	0.98374	5.26E-35	115.41	SMEVLS(0.003)VT(0.013)DGGS(0.9	2	0.13986	102622.9	102391.5
Ldb3	0.99176	6.84E-21	121.82	ASSEGTQGS(0.008)VS(0.992)PK	2	0.17127	33789.8	31595.5
Srrm2	0.998779	9.12E-05	60.161	S(0.001)GAGS(0.999)PPGT(0.001)	2	0.65768	2765.6	3243.4
Ddhd1	0.98053	5.98E-58	100.24	EPTSASESENIAAIPS(0.981)PVT(0.0	3	0.84011	17444.1	18617.9
Pkn3	0.619781	4.73E-19	73.252	YFEGEFT(0.033)S(0.62)LPPT(0.022	3	2.0503	5466.2	5048.3
Rbms2	0.999999	3.98E-10	81.448	LYVAQQMAPP(1)PR	3	-0.13489	7606.7	7762.4
Nap111	0.991122	1.21E-18	76.301	LDGLVDTPTGY(0.009)IES(0.991)LP	3	-2.3159	4864.0	4565.4
Taf3	0.999218	0.00152888	58.981	LGS(0.001)PIRS(0.999)PK	3	-0.81756	8177.2	7840.0
MAST1	0.564068	2.87E-67	99.867	SLILT(0.005)S(0.022)T(0.102)S(0.5	4	0.09803	18313.6	15271.2
Rabl6	0.989394	2.84E-30	86.136	NIS(0.048)LS(0.962)S(0.989)EEEEAF	3	0.67231	103126.2	108756.9
Phf21a	0.869021	0.00301353	44.511	T(0.131)VT(0.869)PPAAPKPK	3	-0.56396	31324.5	33633.6
Stxbp1	0.766351	0.0155684	44.193	LNKT(0.001)DEEIS(0.766)S(0.233)	2	0.38447	39159.2	37801.9
Szrd1	0.997373	3.33E-43	91.819	S(0.997)PPKVPIVQDDS(0.003)LPT	3	0.35731	25544.8	26834.9
Ptov1	1	1.77E-06	85.006	S(1)APPMEGAR	2	-0.081217	83424.4	84834.3
Prdm2	0.75167	1.29E-17	96.096	T(0.122)S(0.122)S(0.752)PPS(0.00	3	0.13087	31947.1	30093.9
Ttn	1	0.0364638	52.49	S(1)VKAPT(1)VK	2	2.3094	42073.0	43621.0
Snx11	0.654714	0.0073107	47.302	QS(0.655)T(0.137)S(0.209)HLAK	3	0.2662	14132.1	13991.1
Zfp830	0.999996	0.000680673	110.53	EHSLAS(1)PR	2	-1.2916	18259.9	18195.6
Zc3hc1	0.908704	1.60E-69	117.52	T(0.018)RS(0.909)WES(0.018)S(0.0	3	-0.08987	26268.8	24307.6
Ppia	1	2.92E-06	56.424	VKEGMS(1)IVEAMER	3	-0.15397	20122.9	20267.7
Rims3	0.705655	3.30E-84	134.98	QGS(0.706)RES(0.142)T(0.142)DG	3	1.9709	9175.9	9288.3
Pgm2	0.999208	9.09E-30	120.92	LCAGIMIT(0.001)AS(0.999)HNP	3	-0.41969	154690.5	124434.0
Msl1	0.876403	2.48E-38	77.241	LKEPGPLAS(0.018)T(0.072)QGG	4	0.57174	4887.0	5519.2
Pacs2	0.683262	0.000180858	85.536	T(0.683)ES(0.256)LVIPS(0.052)T(0	2	-0.60516	10722.8	12420.4
Mpp2	1	0.00198971	64.688	GIMES(1)PIVR	2	-1.0365	16197.8	15747.3
Cacnb3	0.999971	3.18E-43	101.56	S(1)PPPSLAK	2	0.76159	220669.6	216278.7
Vim	0.834039	0.000333405	92.653	S(0.166)S(0.834)MPGVR	2	-0.52799	38406.7	38616.9
Ckap4	0.98564	1.42E-19	64.16	GGHGAAS(0.986)PS(0.014)DK	3	-1.9291	22767.1	25201.6
Bclaf1	0.838937	2.26E-10	66.636	Y(0.022)S(0.143)PS(0.839)QNS(0.9	2	0.62306	22431.9	21001.5
Safb2	0.999928	8.90E-112	161.05	SEPVKEEGS(1)ELEQPFAQATSSVGP	4	0.31533	76363.7	77535.4
Tmem55a	0.697195	6.10E-18	66.289	CTVCNEAT(0.697)PIKT(0.297)PPT(	4	0.74532	21041.3	21757.3
Map1b	0.910378	4.22E-66	123.72	VQS(0.004)LEGEKLS(0.886)PKS(0.9	4	0.70882	313149.9	291121.2

28641.0	28914.6	29847.2	27819.0	0.0	0.9	560
25602.5	24437.8	23650.2	25121.0	0.0	0.8	241
100442.6	102291.9	97223.1	103700.0	0.0	0.7	409
31047.1	31580.9	30472.4	33672.0	0.0	0.9	227
2411.3	2472.3	2888.5	2997.8	0.0	0.9	1181
18485.4	17979.9	18142.4	18026.0	0.0	0.7	706
6128.1	5694.7	5481.9	5344.2	0.0	0.9	924
7103.5	7668.3	7383.3	7256.7	0.0	0.8	33
4806.9	4772.4	4965.9	4393.9	0.0	0.9	69
7784.4	8178.5	7322.0	8127.2	0.0	0.9	301
15850.4	16440.0	17517.2	15117.0	0.0	0.9	59
98619.9	101721.0	105136.4	101380.0	0.0	0.8	349
30401.9	30570.1	34446.7	29648.0	0.0	0.9	365
39519.5	36879.4	38417.7	40335.0	0.0	0.8	593
28530.3	26745.5	26134.8	27441.0	0.0	0.8	38
79102.9	78807.7	86072.9	80686.0	0.0	0.8	53
30263.5	28759.5	31616.9	31259.0	0.0	0.8	650
41906.4	39493.0	44306.0	42877.0	0.0	0.9	730
14458.9	12905.8	14492.9	14875.0	0.0	0.9	168
17752.9	17513.6	18877.6	17425.0	0.0	0.8	194
25662.1	24094.6	26455.3	25137.0	0.0	0.8	353
19936.5	19503.4	21484.0	18904.0	0.0	0.9	137
8273.9	9528.8	8338.6	8677.9	0.0	0.9	104
130503.8	133623.1	140943.4	132110.0	0.0	0.9	111
5683.0	4688.8	5834.4	5450.1	0.0	0.9	66
10511.1	11257.0	10669.8	11486.0	0.0	0.9	414
16399.7	17603.8	15358.6	15036.0	0.0	0.9	31
200280.4	208156.4	219478.1	205040.0	0.0	0.9	139
35555.8	41141.8	35444.8	35189.0	0.0	0.9	73
24375.0	24185.9	24344.8	23297.0	0.0	0.8	147
22638.5	21168.7	22699.1	21733.0	0.0	0.8	284
76290.1	76271.2	78282.4	73994.0	0.0	0.7	229;235
21625.0	20371.3	21276.7	22317.0	0.0	0.8	85
325961.4	298804.1	317002.5	307810.0	0.0	0.9	1775;1649

Spn	0.997333	2.87E-17	98.196	RPQS(0.997)PGVS(0.003)PAHSER	3	-0.30063	6253.6	6615.9
Trpv2	1	6.72E-34	114.55	NSASEEDHLPLQVLQS(1)P	3	0.27228	41730.7	43095.6
Fip1l1	1	0.0218816	68.625	AES(1)PDLR	2	1.1155	26464.4	28670.1
Helz	0.984451	1.81E-11	62.94	AY(0.016)T(0.984)PPPPLGPHPNLG	3	0.75598	4453.5	4153.6
Map1a	0.991406	1.22E-137	160.95	ETS(0.001)S(0.007)PAS(0.991)PQN	3	-0.21526	91575.1	85840.2
Sec16a	0.622628	3.70E-39	78.531	VVSSTVS(0.002)APGPELS(0.017)P	4	0.24952	24399.8	27649.9
Faf1	1	1.41E-38	81.718	KS(1)PMMPENAENEGDALLQFTAEI	4	0.47051	7221.1	7626.5
LOC10091	0.924074	4.43E-05	48.727	APS(0.152)DRS(0.924)LS(0.924)PP	3	-0.62732	38867.0	45405.7
Mcoln1	0.971412	5.83E-36	103.92	SELQAYIEQCQDS(0.971)PT(0.024)	4	-0.63223	165961.3	179575.9
Dtna	0.909372	2.75E-40	124.43	S(0.036)S(0.015)PS(0.909)HT(0.04	3	-0.80141	26804.3	30034.6
Map4	0.9681	5.27E-21	72.302	ESEGS(0.01)PDT(0.968)DAAPGPD	2	1.6881	17774.5	16423.0
Prx	0.974612	2.59E-05	78.61	MPS(0.975)FGLS(0.025)R	2	1.019	27543.7	26991.8
Rap1gap2	0.72746	5.96E-07	88.706	S(0.021)HS(0.236)MET(0.727)MV	2	2.0358	6110.8	5994.2
LOC10035	0.670219	5.81E-16	110.32	NKS(0.107)T(0.67)ES(0.222)LQAN	3	-0.707	38106.1	41473.3
Hnrnpc	0.908929	1.06E-09	74.296	QADLS(0.007)FS(0.084)S(0.909)PV	3	-0.5971	81523.2	82617.4
Pgd	0.5	0.0030684	44.44	T(0.5)VS(0.5)KVDDFLAK	3	0.23041	24783.9	22883.8
Pgd	0.5	0.0030684	44.44	T(0.5)VS(0.5)KVDDFLAK	3	0.23041	24783.9	22883.8
Map3k11	0.5898	4.30E-13	66.137	S(0.008)APGT(0.036)PGT(0.59)PR	3	0.21042	22482.0	22582.2
Rps8	0.89964	3.83E-21	119.96	IS(0.1)S(0.9)LLEEQFQQGK	3	-0.6652	14770.1	15436.9
Rbbp6	1	5.58E-05	77.597	VDGDREKS(1)PR	3	0.49207	15589.5	15179.1
Trim28	0.678539	2.59E-22	86.777	LS(0.002)PPYS(0.319)S(0.679)PQE	2	-0.29758	8022.2	9660.6
Usp8	0.858966	8.57E-61	155.79	S(0.005)YS(0.136)S(0.859)PDITQA	3	-1.1671	27902.7	26652.8
Ptprc	0.873144	7.52E-09	79.337	NRS(0.127)S(0.873)NVVPYDFNR	2	2.3089	35674.2	35530.2
Prrc2a	0.971984	0.017779	58.699	S(0.972)S(0.028)PDGGLK	2	0.44327	8060.4	9191.8
Arhgef7	1	2.77E-07	96.371	KPS(1)DEEFAVRK	3	0.7159	196291.2	201964.0
Arhgef40	0.985586	2.83E-107	124.97	ADSASSAGAQHGAHS(0.986)PS(0.0	4	-0.22827	6541.7	6926.1
Sash1	0.511591	0.000187222	65.12	EVIKS(0.512)PS(0.475)AS(0.013)R	3	0.70685	17335.6	16687.4
Inpp5j	0.994623	4.99E-35	71.567	HS(0.995)PEDPVLPPPQT(0.005)L	3	1.0414	16883.6	16785.0
Cdk18	0.985367	1.06E-06	94.781	RAS(0.985)LS(0.015)DIGFGK	2	-0.47197	31910.1	29464.2
Capn2	0.960722	3.24E-05	70.089	ERS(0.961)DT(0.039)FINLR	3	-0.53842	2818.1	2999.5
Arl2bp	0.853298	1.10E-15	88.385	GLDLS(0.853)S(0.147)GLVVTSLCK	3	0.87795	4686.8	4758.2
Kcnd1	0.950171	8.32E-15	71.263	LANST(0.001)AS(0.011)VS(0.036)F	3	-0.72377	14994.4	14228.1
Aak1	0.999982	1.25E-27	151.66	SATTTPSGS(1)PR	2	-0.30667	95019.6	95019.2
Akap6	0.613878	3.79E-15	125.93	DLLS(0.377)PES(0.614)GS(0.009)I	2	-0.70067	26924.7	26569.5

5923.7	6163.8	6032.7	6463.0	0.0	0.9	734
42410.0	42910.5	42512.8	40910.0	0.0	0.7	760
25071.3	26163.6	27229.0	26244.0	0.0	0.9	280
4565.1	4764.5	4358.9	3955.4	0.0	0.9	1163
91729.6	88186.0	87125.5	91927.0	0.0	0.8	2226
25168.1	26182.3	25387.8	25101.0	0.0	0.9	2300
7579.3	7146.0	7022.7	8099.4	0.0	0.9	319
39836.8	41692.9	41508.3	40030.0	0.0	0.9	588
165402.8	168733.8	169059.5	169540.0	0.0	0.8	547
27575.3	26580.5	29094.9	28143.0	0.0	0.9	590
22389.4	19867.5	16215.6	20105.0	0.0	1.0	263;263
27401.8	25830.4	27787.9	27742.0	0.0	0.8	1003;1003
5871.1	6060.7	6415.9	5373.0	0.0	0.9	489
37423.2	38068.5	39840.1	38274.0	0.0	0.9	107
73807.4	80065.0	83884.3	72332.0	0.0	0.9	232
22852.5	22416.1	24034.9	23576.0	0.0	0.8	37
22852.5	22416.1	24034.9	23576.0	0.0	0.8	35
20131.3	19823.5	23331.7	21585.0	0.0	0.9	758
14169.3	14937.5	15024.1	14105.0	0.0	0.8	160
13902.1	15222.3	15142.7	13994.0	0.0	0.9	1019
7937.4	8355.0	8634.7	8452.0	0.0	0.9	758
25714.3	25805.1	27332.7	26573.0	0.0	0.8	682
35552.7	35921.4	35511.0	34582.0	0.0	0.6	812
9852.2	9431.8	8684.3	8799.9	0.0	0.9	1670
181415.0	184793.2	197261.0	193590.0	0.0	0.9	613
6759.5	6995.0	6573.3	6518.6	0.0	0.8	981
18739.8	17529.0	18117.8	16750.0	0.0	0.9	439
16561.6	16921.8	16473.1	16487.0	0.0	0.5	285
26545.8	28695.7	28643.9	29971.0	0.0	0.9	109
2843.3	2852.5	2974.8	2773.6	0.0	0.8	462
5350.1	4647.3	4956.5	5088.9	0.0	0.9	108
15421.3	14696.6	15371.4	14267.0	0.0	0.8	555
91055.6	90379.3	97689.0	91082.0	0.0	0.8	679
26932.2	25960.1	28389.6	25525.0	0.0	0.8	1075

Srrm2	1	7.51E-09	112.95	RQPS(1)PQPS(1)PR	2	0.92722	25060.6	26307.3
Fcgr1a	0.886417	0.00352062	92.201	AT(0.114)S(0.886)FQQVR	2	-0.52837	11454.1	11819.3
Tom20	0.992821	1.94E-09	83.37	IVS(0.007)AQS(0.993)LAEDDVE	2	-0.5099	54290.8	55433.7
LOC10091	0.631531	1.85E-12	69.331	DATEDS(0.632)IT(0.368)EDDKRR	4	0.59232	19243.9	34303.8
Tmem63b	0.891594	3.94E-15	125.73	IEHTETDAVS(0.892)S(0.108)R	2	-0.59853	50657.9	53168.6
Jakmip1	0.994379	0.0113737	55.37	HHS(0.006)S(0.994)PKR	3	-0.99504	7480.4	7482.9
Elfn1	0.999923	6.05E-10	97.203	HHS(1)VEAATGPPR	3	-0.18545	5390.0	6031.5
Setd5	0.992655	2.67E-08	58.812	LLRPLS(0.993)PVT(0.988)PPPPS(0.	3	0.90566	25546.0	25176.4
Setd5	0.987789	2.67E-08	58.812	LLRPLS(0.993)PVT(0.988)PPPPS(0.	3	0.90566	25546.0	25176.4
Epm2aip1	0.804054	0.0241467	44.922	ILS(0.804)IDS(0.196)NLR	2	1.2102	6987.6	6066.2
Mllt1	0.944947	0.0100728	79.427	RAPGT(0.945)S(0.055)PR	2	0.040614	2899.5	3221.9
Uchl1	1	7.99E-10	78.95	QIEELKGQEV(1)PK	4	-1.0391	31416.4	29830.6
Ahnak	0.770653	0.000608572	60.161	IS(0.229)MPDVS(0.771)LNLK	2	0.7197	7772.8	7689.8
Srsf1	0.999832	2.07E-09	76.341	VDGPRS(1)PS(0.999)Y(0.001)GR	2	0.030844	308021.4	331147.6
Tmpo	0.999974	1.16E-101	159.27	GPPDFSSDEEREPT(1)PVLGSGASVC	4	-0.46818	140712.3	146328.4
Fryl	0.993305	5.26E-14	62.781	CS(0.993)PPET(0.006)LASTPDSGY	3	1.0002	5507.6	6776.3
Heatr5b	0.798945	1.25E-06	71.976	MS(0.021)DS(0.799)PS(0.169)HVA	2	-0.14687	61922.7	64113.6
Zfyve28	0.941282	1.78E-25	71.117	S(0.002)PVVS(0.018)GDS(0.941)P	3	0.047494	3688.4	3648.0
Eml1	0.999744	4.58E-15	120.77	T(0.303)S(0.017)S(0.672)S(0.009)E	3	0.48233	46620.6	45704.1
Thrap3	0.944929	9.30E-71	100.59	WAHDKFS(1)GEEGEIEDDES(0.945)	5	-1.5184	16909.8	16969.3
Mme	0.800934	0.000814986	44.252	S(0.014)ES(0.185)QMDIT(0.801)D	3	-0.34408	27077.4	25723.7
Rsrc2	0.6184	5.82E-15	89.484	DGLAPEKT(0.618)S(0.382)PDREK	3	0.1851	42186.3	43776.8
Psd	0.846741	9.75E-07	85.554	S(0.847)LS(0.153)ELADPNPK	2	-0.9005	25744.0	23623.2
Elavl4	0.999912	1.55E-60	159.77	NCPS(1)PMQTGAATDDSK	3	-0.26247	708308.5	729931.0
MAST1	0.999589	2.06E-16	96.745	EDSAGGTEACT(1)PPR	2	0.18972	33653.8	31932.3
Dync1li2	1	6.43E-55	132.76	DFQDYIEPEEGCQGS(1)PQRR	3	-0.30682	317646.3	323776.4
Pitpnm2	0.615696	5.41E-23	66.884	S(0.168)DS(0.616)S(0.168)T(0.048	4	-0.38227	5709.7	5251.9
Snx29	1	1.82E-32	105.2	YREAGS(1)PGR	2	-0.58481	16707.1	17410.2
LOC68359	1	0.00759639	67.507	RGS(1)FHLK	3	1.0409	10723.5	10893.9
LOC10369	0.98623	5.40E-08	108.98	DAS(0.986)LS(0.014)GEEK	2	-0.45947	79891.6	78466.7
Srrm2	0.929244	1.07E-30	107.78	SEQPLSQLPT(0.07)LS(0.929)PEHI	3	-0.30468	73911.5	68969.6
LOC10254	0.922726	0.0181931	43.769	IS(0.077)S(0.923)HGGK	3	0.33958	16948.0	17592.3
Map1a	0.999923	0.000201847	59.709	HTQEALKAS(1)PK	2	0.43561	25827.5	23484.9
Heatr5a	0.996378	9.81E-12	59.359	S(0.996)AEVDDGAS(0.003)EKET(0	4	1.0867	5335.9	5291.4

22535.3	24882.2	24018.8	24496.0	0.0	0.9	2663
11305.4	11766.3	11836.3	10741.0	0.0	0.8	335
52499.6	53602.1	53219.5	54299.0	0.0	0.7	138
29794.0	32168.3	22200.0	28407.0	0.0	1.0	28
52478.3	48896.5	52371.0	53975.0	0.0	0.8	739
7649.0	8376.0	6997.5	7085.3	0.0	0.9	259
4890.0	5868.5	5233.7	5098.5	0.0	0.9	630
26362.7	25281.5	25899.7	25381.0	0.0	0.7	869
26362.7	25281.5	25899.7	25381.0	0.0	0.7	872
7214.7	6240.6	7204.7	6685.6	0.0	0.9	157
3483.5	3028.6	3303.3	3207.9	0.0	0.9	264
28188.5	27810.3	32261.3	28758.0	0.0	0.9	76
9614.7	8395.0	8330.6	8181.8	0.0	0.9	1573
306254.9	298397.1	330488.8	310140.0	0.0	0.9	199
147836.2	143698.7	143358.6	144880.0	0.0	0.7	74;74
6212.2	5401.4	6546.7	6423.0	0.0	0.9	905
59609.3	61528.4	62052.9	60812.0	0.0	0.8	1698
4529.6	3724.7	3902.8	4158.6	0.0	0.9	686
43223.4	44293.2	46363.1	43980.0	0.0	0.8	108
18728.1	17788.5	16346.0	18119.0	0.0	0.9	935
30387.0	25933.7	25800.3	30896.0	0.0	0.9	11
46662.2	44453.8	42064.0	45218.0	0.0	0.9	16
24076.9	24735.9	23764.5	24453.0	0.0	0.8	719
646152.5	701114.3	680533.8	688820.0	0.0	0.9	46
30215.6	31205.9	32494.3	31463.0	0.0	0.9	1371
314740.1	316304.4	317932.2	315570.0	0.0	0.5	194
4709.0	5388.9	5200.8	4976.9	0.0	0.9	654;630
14500.4	16728.2	16749.9	14818.0	0.0	0.9	391
9082.0	9201.9	10847.8	10447.0	0.0	0.9	792
72302.0	74048.2	83155.5	71935.0	0.0	0.9	83
78336.4	71292.8	72864.4	75602.0	0.0	0.9	1218
14906.1	14879.2	16320.3	17921.0	0.0	0.9	341
25283.1	24756.8	25488.2	23859.0	0.0	0.9	928
5637.3	5310.8	5527.3	5319.3	0.0	0.8	1649



Ncoa5	1	0.00314534	51.727	DLRDS(1)RDFR	3	-0.60626	23848.8	24676.2
Tns1	0.640489	2.32E-06	71.031	QGS(0.36)PT(0.64)PALPEKR	3	-1.6461	79188.0	72825.3
Pex16	0.820229	2.65E-13	113.53	T(0.001)LQNS(0.173)PS(0.82)LHS(	2	0.18741	22638.2	23695.6
Sgpp1	0.986006	3.58E-12	60.814	QS(0.014)GADGS(0.986)PAKPDCC	4	-0.49474	22629.9	20490.4
Dmd	0.511485	1.11E-08	42.268	MGYLPVQT(0.014)VLEGDNMET(0.	4	-0.39547	4183.2	5258.4
Pex5l	0.999313	0.00475368	91.265	GS(0.999)PGLT(0.001)R	2	-2.2197	63745.1	65565.9
Cast	0.594965	2.23E-10	67.326	S(0.013)LT(0.388)PT(0.595)LPMES	3	0.99178	24855.4	24568.7
Dmtn	0.614619	3.59E-53	94.269	LQS(0.164)T(0.615)EFS(0.2)PS(0.0	3	1.6188	30141.4	28636.1
Ctnnb1	0.506663	6.61E-30	126.07	T(0.417)S(0.076)MGGT(0.507)QQI	2	-0.28466	16243.1	17750.3
Ambra1	0.622508	0.00015583	58.079	T(0.075)AS(0.623)WDQPS(0.222)T	2	-0.078026	13551.2	13068.6
Myo9b	0.996521	0.00465768	74.611	S(0.003)PNGLS(0.997)PK	2	0.37791	14716.5	13676.3
Kcnq2	0.77483	1.67E-14	79.514	IDMIVGPPPPS(0.225)T(0.775)PR	3	-1.6871	20405.6	20413.6
Slc7a6os	0.5	3.25E-21	82.267	KT(0.5)S(0.5)DPDVILCNSVELIR	3	0.78563	24079.0	20067.0
Slc7a6os	0.5	3.25E-21	82.267	KT(0.5)S(0.5)DPDVILCNSVELIR	3	0.78563	24079.0	20067.0
Itpkb	0.989733	5.03E-24	134.88	AALS(0.99)PGS(0.01)VFSPGR	2	0.40289	20465.2	20116.3
Rtn4	0.716606	9.16E-11	57.802	ET(0.065)KLS(0.717)T(0.216)EPS(C	4	1.0903	16065.4	15368.9
Rtn4	0.570273	9.16E-11	57.802	ET(0.065)KLS(0.717)T(0.216)EPS(C	4	1.0903	16065.4	15368.9
Synm	0.512857	2.05E-05	44.863	GHQGNVAAGAVNS(0.175)T(0.513	3	-0.77875	3067.6	2929.0
Mprip	0.88396	9.01E-16	65.423	DFAS(0.001)ET(0.036)PT(0.884)AF	4	0.45699	8432.2	9264.4
Gpr155	0.997894	3.64E-17	93.381	ETAEDRES(0.998)PVS(0.002)EEIK	3	0.48155	8520.4	8426.4
Acsbg1	0.526437	4.88E-06	48.773	T(0.526)LS(0.479)KES(0.494)PS(0.	4	0.37165	5386.7	5742.9
Nme1	0.999966	1.65E-34	115.39	VMLGET(1)NPADSKPGTIR	3	0.91564	55281.9	55729.9
Meox2	1	9.82E-09	96.247	QALS(1)PAEVEKR	3	-0.11203	28375.0	25042.6
Glce	1	3.88E-21	115.56	QQS(1)EEAFPQEQQK	3	0.24465	106462.1	106760.5
Sptan1	0.98747	0.00139616	92.866	S(0.013)LS(0.987)AQEEK	2	0.49739	5995.5	6286.4
Rtn4rl1	0.62956	0.0147629	49.081	SHT(0.003)LS(0.63)T(0.143)S(0.22	2	-1.8008	7411.9	8076.3
Kcnh2	0.627642	2.01E-06	49.768	CPAPAPSLLNIPLS(0.628)S(0.372)P	3	1.134	11737.5	11882.9
Sptbn1	0.580394	9.50E-23	67.033	T(0.18)S(0.18)S(0.58)IS(0.058)GPL	4	-0.40986	1912.8	2451.9
Bcas1	0.993278	0.00514092	86.18	S(0.993)AAES(0.007)NK	2	0.62576	18350.6	18741.9
Prx	1	7.14E-05	66.004	AEVEGPGRAT(1)K	3	0.023159	9961.3	9473.5
Smg1	0.724969	6.47E-09	57.142	NLAT(0.171)S(0.725)ADT(0.035)P	3	4.322	7844.8	10273.0
Mast3	0.634477	4.94E-19	71.042	VYS(0.165)S(0.634)S(0.201)EFLAV	3	0.94003	9726.9	9540.6
Plcb3	0.947618	8.36E-33	92.236	WPPGPT(0.002)T(0.043)S(0.948)P	3	0.10036	26010.0	29116.5
Ggt7	0.988054	4.39E-41	126.84	LPSSSS(0.001)EMGS(0.988)QDGS(	2	0.32253	35576.4	39509.8

24329.2	23926.3	23336.0	25113.0	0.0	0.8	95
81893.3	77971.7	76948.8	77453.0	0.0	0.9	1535
22307.4	23368.6	22587.9	22235.0	0.0	0.8	159
21011.8	21362.3	21132.4	21219.0	0.0	0.8	65
5860.5	5206.1	5205.8	4790.6	0.0	1.0	348
57381.0	62478.8	63859.0	59140.0	0.0	0.9	413
27365.6	25291.4	26909.5	24090.0	0.0	0.9	160
32429.0	28568.2	31314.5	30733.0	0.0	0.9	304
15404.3	16281.6	15865.1	16931.0	0.0	0.9	556
11827.1	12339.3	13632.7	12226.0	0.0	0.9	1173
13600.8	13729.7	13643.4	14349.0	0.0	0.8	1108
18927.2	19820.2	19698.3	19842.0	0.0	0.8	573
21470.6	21652.7	23854.3	19687.0	0.0	0.9	155
21470.6	21652.7	23854.3	19687.0	0.0	0.9	154
22074.3	20365.8	20576.7	21310.0	0.0	0.9	42
16517.9	13371.1	17931.8	16341.0	0.0	0.9	685
16517.9	13371.1	17931.8	16341.0	0.0	0.9	695
2803.5	2777.4	2572.0	3394.1	0.0	0.9	487;487
9144.1	8795.7	8772.1	9100.5	0.0	0.8	477;477
8753.0	8229.7	8994.9	8310.5	0.0	0.8	739
6113.5	5393.4	6354.3	5385.5	0.0	0.9	48
55596.7	52705.7	57439.6	55402.0	0.0	0.8	94;94
28151.3	26413.3	28307.3	26329.0	0.0	0.9	154
103727.0	103570.0	106156.9	105210.0	0.0	0.6	73
6817.5	6317.6	6187.6	6473.1	0.0	0.9	517
7915.7	7589.1	7524.7	8141.8	0.0	0.9	319
11257.5	11325.2	11844.8	11487.0	0.0	0.8	1032
1968.4	2057.8	2124.1	2111.2	0.0	0.9	8
18279.9	17430.0	18664.9	18928.0	0.0	0.8	555
10611.8	7814.6	11139.5	10903.0	0.0	1.0	893
8609.1	10291.1	8236.0	8032.3	0.0	1.0	3543
10612.8	9808.6	10041.5	9843.1	0.0	0.9	710
29223.4	28233.8	26730.0	28859.0	0.0	0.9	927
38426.1	38203.8	38370.7	36229.0	0.0	0.9	24

Map1a	1	0.000647737	91.313	RDS(1)EEKDK	4	-0.36895	90118.9	87325.4
Sesn2	1	1.09E-06	66.152	DPLNNS(1)GGFEAAR	2	-1.5699	13837.5	13492.1
Usp31	0.925933	0.0015667	87.895	S(0.016)S(0.016)S(0.926)MAS(0.0	2	-0.27157	11865.4	13774.0
Rem1	0.999309	2.29E-07	81.703	LGQS(0.001)AS(0.999)LNPPIR	3	0.041793	3367.5	3761.5
Atp2b1	0.989193	2.90E-07	95.273	NS(0.787)S(0.989)PPPS(0.224)PNF	2	-1.9412	98359.1	92260.4
Dpysl3	0.940896	1.56E-19	109.95	GS(0.941)PT(0.059)RPNPPVR	2	0.44551	234540.4	242352.4
Akap9	0.536609	4.05E-61	158.11	KGS(0.337)S(0.537)IS(0.127)DLAD	3	-0.58286	41391.9	43720.8
Ssfa2	0.960079	2.80E-77	111.38	T(0.01)LS(0.028)AHS(0.96)VPNIS(C	4	0.35169	40261.3	38970.1
Atxn1	0.554166	0.00135388	47.429	EAS(0.435)PS(0.554)T(0.011)LNDK	3	3.5418	8529.7	8303.4
Mvb12b	0.869088	0.013739	74.2	LPPS(0.869)PT(0.131)R	2	1.3125	75730.4	75070.7
Celsr1	0.902977	5.87E-05	61.622	LADCEQS(0.903)PT(0.084)S(0.009	2	1.1993	14662.8	14085.5
RGD15611	0.968634	0.00455004	74.962	S(0.021)PQS(0.969)PAS(0.011)K	2	0.60245	38440.1	41982.2
Trio	0.98358	0.00394688	76.927	S(0.984)ADAGS(0.016)QK	2	-0.11897	8626.3	7111.5
Fry	0.550051	2.70E-11	50.413	NPSVIFS(0.55)S(0.448)CGDLDLPEF	4	2.4226	7232.3	8385.0
Hdac7	0.955373	1.36E-95	163.22	T(0.044)RS(0.955)EPLPPSATASPLL	3	0.85498	35058.8	35058.5
Itsn1	0.947832	3.81E-28	106.44	STSIDTGPTEAPS(0.052)S(0.948)LK	3	-0.3237	28378.6	30041.2
Spag9	0.918625	5.86E-07	52.754	ETDY(0.001)PAGEELS(0.919)DS(0.1	3	0.21165	7433.7	7606.9
Mpdz	0.882921	6.01E-12	103.83	APS(0.052)QS(0.883)ES(0.06)ES(0.	2	2.0827	8956.4	8507.7
Fam63b	0.989556	4.01E-07	73.722	LRPPS(0.99)DPET(0.01)VYK	3	-0.034254	21964.4	24144.2
Spice1	0.5433	4.57E-14	68.458	LVGLT(0.008)LS(0.126)S(0.543)S(C	3	1.3358	2552.7	2505.4
Brsk1	0.974279	0.00199198	83.883	GGGS(0.974)PT(0.021)S(0.005)K	2	-0.54204	58646.4	53140.0
Map1b	0.601605	1.83E-07	44.564	S(0.004)DIS(0.009)PLT(0.073)PRE	4	0.36586	21277.4	20854.5
Ank2	0.929075	0.000676886	44.391	T(0.059)ERHS(0.929)PVS(0.65)PS(i	3	-0.081967	14313.3	14363.0
Rpl22l1	0.499995	2.09E-07	60.196	YFQISQDEDGS(0.5)ES(0.5)ED	2	-0.68987	20709.7	20647.2
Rpl22l1	0.499995	2.09E-07	60.196	YFQISQDEDGS(0.5)ES(0.5)ED	2	-0.68987	20709.7	20647.2
Unc45a	0.915742	1.18E-05	77.894	T(0.019)VS(0.916)GPGT(0.065)PEF	2	1.7073	14015.2	14948.8
Rabl6	0.981595	1.78E-47	85.387	LFGTSPAAEAT(0.018)IS(0.982)PPE	3	1.3487	25187.0	23959.9
Epn1	0.715439	2.89E-79	130.15	TALPT(0.015)S(0.063)GS(0.715)S(C	4	0.21246	6284.9	6743.4
Dhx9	0.655579	5.64E-84	135.34	AAENNSGVES(0.003)S(0.171)S(0.1	3	-0.061812	24026.5	27891.3
Srsf11	0.816839	8.10E-08	61.409	DY(0.006)DEEEQGY(0.817)DS(0.17	4	0.45762	12833.2	15727.6
Baz2a	0.577021	0.000258761	49.595	EPT(0.003)GS(0.01)T(0.169)T(0.10	2	-0.24925	1926.4	2013.5
Map1b	0.988579	5.59E-14	76.82	TPEEGGY(0.002)S(0.989)Y(0.009)E	3	-0.66583	10174.2	9927.7
Caskin2	0.774395	3.84E-29	81.974	RLS(0.774)S(0.203)VS(0.015)GS(0.	3	1.2243	15153.0	16107.1
Srrm2	0.850623	2.13E-28	106.75	DKFS(0.148)PT(0.851)QDRPES(0.0	5	0.53319	83759.5	78400.9

84796.6	86237.9	89412.4	84960.0	0.0	0.8	1685
12755.5	12873.9	13049.2	13913.0	0.0	0.9	249
11896.3	13076.3	12511.7	11715.0	0.0	0.9	937
4154.1	3907.8	3830.8	3474.7	0.0	0.9	51
103786.6	98828.1	101449.6	92309.0	0.0	0.9	1207
225661.5	236909.3	230827.1	230480.0	0.0	0.8	635
39433.3	40680.9	41893.0	41205.0	0.0	0.9	2760
39781.4	38396.3	40734.6	39149.0	0.0	0.8	868
8291.3	8068.0	8185.7	8716.2	0.0	0.8	382
70616.6	72787.6	73240.6	74028.0	0.0	0.8	307
15693.9	14481.0	13607.0	16081.0	0.0	0.9	2976
36098.8	39136.6	37656.9	39013.0	0.0	0.9	903
9852.9	9007.7	7977.4	8448.7	0.0	1.0	1770
7223.8	7122.5	7923.6	7655.2	0.0	0.9	2418
34321.9	33224.3	35807.1	34770.0	0.0	0.8	381
27349.6	28843.1	26562.2	29841.0	0.0	0.9	986
6360.3	7626.7	7264.2	6379.6	0.0	0.9	656,813
9351.8	8460.3	9354.7	8837.7	0.0	0.9	1239
23113.4	22451.3	22473.6	23877.0	0.0	0.9	475
2549.9	2319.0	2666.3	2576.5	0.0	0.9	719
52265.4	55762.5	53903.5	53391.0	0.0	0.9	380
19809.8	21117.0	20753.1	19696.0	0.0	0.8	1785;1659
14682.5	14005.8	14837.1	14255.0	0.0	0.8	1830
20956.4	19053.5	20848.2	22037.0	0.0	0.9	118
20956.4	19053.5	20848.2	22037.0	0.0	0.9	120
13122.8	13913.4	13904.1	14017.0	0.0	0.9	4
24798.7	23344.4	25098.2	25060.0	0.0	0.8	251
6042.7	6691.8	6344.6	5920.4	0.0	0.9	418
26520.2	25771.0	25693.4	26505.0	0.0	0.9	137
13862.7	13969.5	12781.0	15420.0	0.0	0.9	432
1839.4	1937.5	1950.2	1857.2	0.0	0.9	1169
10747.6	10171.8	10429.1	10065.0	0.0	0.8	1949;1823
15775.9	14846.2	16038.2	15872.0	0.0	0.9	874
87155.9	77627.5	83101.0	87107.0	0.0	0.9	1155

Dopey2	0.878003	2.69E-37	105.51	SEDSGIGLS(0.06)AS(0.878)S(0.062	3	0.51566	15460.7	15536.7
Flnb	0.847594	1.38E-42	131.18	APS(0.148)VAT(0.848)VGS(0.005)I	2	-1.5472	43151.1	45674.4
Ccdc61	0.689925	1.25E-05	52.19	SHGRPAHPS(0.69)PS(0.213)PT(0.0	3	0.14211	1405.3	1795.5
Kif13b	0.830472	1.42E-12	66.809	LEV(0.029)S(0.127)DS(0.83)EDAS	2	0.43155	52473.1	52689.2
Eef1d	0.915119	2.97E-53	93.596	S(0.915)LAGS(0.063)S(0.02)GPGA	3	-0.22387	22435.5	21969.0
Exoc4	1	3.68E-41	127.49	DAS(1)PGPLIDVSNISTPR	3	-0.94927	24986.6	26886.5
Aatk	0.999943	1.14E-26	111.77	AS(1)PELGHPLSQEDSR	3	-0.12176	49109.8	49998.5
Akt2	0.945499	2.59E-12	70.783	THFPQFS(0.945)YS(0.041)AS(0.01	3	-0.29317	7673.5	7207.5
Rap1gap	0.821646	3.76E-10	58.024	ESPPAGQKT(0.004)PDS(0.175)GH	4	-0.72636	7393.2	8087.2
Srek1	0.997689	0.0121629	56.916	RS(0.002)KS(0.998)PHK	3	-1.047	43480.3	42740.2
Ank3	1	0.0339495	53.756	GPPKS(1)PK	3	0.58677	61819.0	59795.0
Ncor1	0.999579	0.0204469	72.365	RES(1)PPSR	2	1.13	2386.4	2710.7
Synm	0.970493	1.60E-112	169.26	VIS(0.018)GS(0.97)PPDS(0.011)VC	3	0.6651	109423.6	103621.2
Vdac1	0.681338	3.59E-07	63.29	LT(0.002)FDS(0.247)S(0.681)FS(0.1	3	-0.17526	6794.7	7128.5
Prx	0.980391	2.83E-157	174.89	VGFSQSESASGEGS(0.98)PS(0.019)	3	-0.056085	126829.5	129139.8
Cds1	1	9.29E-33	136.34	GGCPGPGGAGT(1)PPPR	3	0.22326	95092.3	92672.8
Hdac1	0.771785	4.03E-19	74.364	IACEEFS(0.228)DS(0.772)DEEGEC	4	0.71744	45368.3	45160.0
Irf3	0.947147	0.0128637	61.593	EGGAS(0.053)S(0.947)LK	2	0.091109	11459.3	13039.0
Ints12	0.868735	0.000578452	69.03	S(0.02)VS(0.869)CDNVS(0.112)K	2	-1.4546	15887.7	15614.6
Ankrd27	0.992863	6.84E-26	109.72	RPKPSEVPAPS(0.993)PT(0.007)R	3	0.20726	15958.1	16867.3
Sorbs2	1	3.93E-21	78.95	EAPS(1)PVPPPHVPPRPR	3	1.608	45779.8	47636.8
Ube4b	0.827599	8.94E-19	71.309	LAGGQT(0.17)S(0.828)QPT(0.002)	3	1.3069	16032.0	15467.6
Vmp1	0.999589	0.00499016	61.344	LNS(1)EEKTK	2	0.53683	30249.9	30432.8
Epb41l3	0.60055	0.0354886	42.485	AS(0.601)PGS(0.399)AVPR	2	3.4272	6851.2	7306.1
Eef1d	1	5.99E-28	103.9	LADVAAQAQS(1)PALAPR	3	-0.73977	25903.8	26790.0
Fam134a	0.763191	2.53E-57	85.615	FLPDVSAPPPEEPHS(0.763)DS(0.21	4	1.7684	11751.2	13495.3
Ube2j1	0.998266	1.30E-50	150.61	RS(0.002)S(0.998)ASPDVLQGQPPF	2	-0.45299	43605.6	47205.7
Camk2b	0.722658	1.08E-66	94.43	RGS(0.723)GT(0.277)PEAEGLPPVC	4	-0.80452	34296.7	31881.8
Dmxl2	0.975106	2.42E-43	98.175	FGDVEADS(0.016)PVEQT(0.975)IK	3	1.3655	39560.0	39887.1
Pafah1b1	0.901403	0.000415501	45.829	Y(0.001)ALS(0.087)GHRS(0.901)PV	3	1.0009	9397.1	10326.4
Tpr	0.592006	9.30E-05	50.04	EVVQS(0.408)PLNIS(0.592)LNEEGI	2	0.301	24197.1	23208.5
Bicd1	0.845064	0.000376898	84.738	GVS(0.124)S(0.845)PVES(0.031)R	2	-0.5442	16195.4	13305.6
Tjp2	0.91488	3.09E-51	109.41	SYHQAY(0.021)EPDY(0.003)EGRYS	3	-0.13078	43772.5	42609.7
Hmgb2	0.787379	0.00531314	42.317	KGPGRPT(0.213)GS(0.787)K	3	0.71624	19413.2	20470.6

15976.0	14627.3	16539.4	15528.0	0.0	0.9	595
43723.8	43086.5	45716.6	42960.0	0.0	0.8	2086
1159.4	1366.0	1385.3	1583.1	0.0	1.0	328
57628.0	51942.3	53844.7	56039.0	0.0	0.9	1781
22379.8	20883.8	23867.1	21639.0	0.0	0.9	429
25402.4	25690.7	26368.8	24760.0	0.0	0.8	226
53797.4	46542.6	50227.3	55235.0	0.0	0.9	667
7220.9	7105.6	7386.3	7480.0	0.0	0.8	474
8081.5	7326.5	8477.7	7619.3	0.0	0.9	619;627
41985.2	41245.2	45499.7	40709.0	0.0	0.9	240
55620.1	58825.8	61163.8	56205.0	0.0	0.9	1976
2461.8	2925.9	2151.8	2436.9	0.0	1.0	1282
109253.6	105567.5	107965.1	106880.0	0.0	0.8	1369
7712.2	6963.6	7084.6	7460.6	0.0	0.9	102
135135.0	129542.3	133046.2	126230.0	0.0	0.8	1275;1275
87222.9	92534.1	90413.7	90434.0	0.0	0.8	18
45898.8	44025.9	47086.6	44518.0	0.0	0.8	423
11690.8	11661.8	11164.1	13152.0	0.0	0.9	381
17215.3	15505.0	17630.5	15298.0	0.0	0.9	377
14356.7	15133.2	15890.7	15883.0	0.0	0.9	634
46091.5	43101.9	49139.5	46455.0	0.0	0.9	266
16069.7	15268.5	15841.6	16183.0	0.0	0.8	23
30751.1	30000.3	32023.0	28880.0	0.0	0.9	401
7021.3	7360.4	6689.5	7005.9	0.0	0.9	560;542;560
26240.2	26183.4	26634.9	25658.0	0.0	0.7	141;146
13409.2	12946.5	12534.1	12951.0	0.0	0.9	133
44761.8	44981.8	44340.2	45467.0	0.0	0.8	226
30548.8	30947.4	33936.9	31284.0	0.0	0.9	504;489;480
38095.0	38815.4	39046.1	39004.0	0.0	0.7	1276;1294
9544.2	8917.3	10484.0	9697.9	0.0	0.9	109
22664.1	23667.8	22194.7	23804.0	0.0	0.9	1241
14954.0	14074.0	16020.0	14106.0	0.0	0.9	570
42944.5	43098.6	42592.9	42895.0	0.0	0.5	239;266
18922.9	17036.2	19235.6	22199.0	0.0	0.9	181



Map1a	1	6.26E-05	52.5	S(1)PCS(1)LKEQQPHK	4	0.53538	22682.4	23223.9
Tp53bp1	0.999785	3.73E-21	112.24	LTTSEEERS(1)PAKR	3	-0.52301	101123.7	108743.7
Dgki	0.999919	6.55E-48	118.37	RVS(1)APPGSFTIPQSVDPDR	4	0.14659	16574.7	16239.8
Anks1a	0.986546	0.0129648	46.352	S(0.987)RAPPT(0.007)S(0.007)K	3	0.66664	20116.9	22311.2
Prkca	0.992848	1.66E-10	100.58	VIS(0.993)PS(0.007)EDR	2	0.25938	76900.4	84097.2
Tomm34	0.999949	8.81E-09	136.86	LSDS(1)VEELR	2	1.1586	25150.0	26455.4
Rbm27	0.977241	0.0109238	56.432	KY(0.023)PS(0.977)PQK	3	-0.44217	57226.0	56323.3
Pard3	0.74567	3.24E-83	119.35	S(0.126)S(0.126)S(0.746)LES(0.00:	4	0.80992	13614.4	13495.3
Ptbp1	0.802131	0.00270435	43.03	GDNRS(0.802)T(0.198)GVPSR	3	-0.72978	2966.6	3018.4
Usp20	0.847557	0.00302239	70.345	AQVPS(0.848)T(0.152)GGR	2	0.34123	20966.1	20245.8
Spp1	0.970723	1.87E-30	124.84	FRIS(0.971)HELES(0.026)S(0.003)S	3	0.93996	45077.3	46190.0
Rufy3	0.933656	1.09E-50	84.362	GADPEDEAGPS(0.066)EPDS(0.934	4	-0.47127	19626.7	21403.0
Ttc28	0.839834	0.00236493	62.162	GS(0.001)VS(0.007)T(0.153)PNS(0	3	1.1381	29953.0	29084.7
Dmtn	0.999932	1.63E-08	119.25	ESVGG(1)PQSK	3	0.34075	35580.0	32048.6
Ptpn13	1	0.0134226	62.005	ERDPAS(1)PR	3	-1.5344	8852.3	8259.1
Srrm2	0.999953	0.00158315	69.721	S(1)RAS(0.947)PVS(0.053)R	2	0.085811	6812.8	7262.5
Cdk12	0.608784	1.32E-10	88.561	LYNS(0.008)EES(0.609)RPYT(0.383	4	-0.89083	7110.3	6214.0
Cstf2	0.999509	2.66E-07	50.224	GQGT(0.032)LQHS(0.968)PVGPA	3	-0.08612	12186.8	11987.1
Plcb3	0.9992	2.01E-05	115.91	RNNS(0.999)IS(0.001)EAK	3	0.082873	156109.8	147348.6
Slc16a7	0.998124	0.00463669	43.761	VGS(0.998)RQDS(0.001)STK	3	-0.66863	10695.6	12403.9
Chmp2b	0.999462	2.23E-08	112.44	AT(0.001)IS(0.999)DEEIER	2	-0.58979	22969.8	22075.4
Kcnq2	0.999855	0.000204233	68.515	RGS(1)VLSKPR	3	0.4943	15455.9	16585.4
Dlg1	0.728899	2.79E-10	64.454	T(0.034)KDS(0.237)GLPS(0.729)Q	3	-1.8471	37289.1	36236.6
Nefl	0.689838	1.13E-42	92.41	LS(0.006)FT(0.138)S(0.69)VGS(0.1	3	0.34316	8914.4	8501.4
Rbbp6	0.738562	0.00122666	67.838	LS(0.255)S(0.739)DLT(0.006)R	2	-0.46148	3343.3	3223.1
Epn2	0.98089	1.01E-55	137.64	GS(0.018)S(0.981)QPNLST(0.001)S	3	0.10382	39623.2	42990.3
Ppig	0.999999	5.06E-15	77.899	SELNEIKENQRS(1)PVR	3	-0.77684	83828.7	92655.3
Plekhg3	0.999997	3.05E-13	115.24	FSFSPSAVS(1)PR	2	0.14919	15068.3	15127.6
Tppp	0.659797	3.49E-05	111.86	AVS(0.334)S(0.66)PT(0.006)VSR	2	-4.3417	9194.4	10941.7
Trim36	0.979341	9.75E-146	162.19	YEQDS(0.009)GHDS(0.979)GS(0.0:	5	0.8311	131838.8	131574.9
Glicc1	0.809113	1.21E-14	80.738	Y(0.001)AS(0.809)S(0.189)PKPNN:	3	0.56202	28692.3	30600.6
Apbb1ip	0.999888	1.52E-12	101.04	QGLANHS(1)PGASR	3	0.86217	16521.0	15312.9
Srsf7	0.999044	0.00517594	72.922	S(1)GS(0.999)IIGS(0.001)R	2	-0.040866	62052.7	57107.6
Tyro3	1	9.55E-12	101.45	FGQAFDS(1)VMAR	2	0.37108	13798.1	15536.7



24428.2	21060.9	24233.6	24638.0	0.0	0.9	1401
100573.5	109339.3	97553.3	101780.0	0.0	0.9	1638
16181.5	15168.4	17492.6	16056.0	0.0	0.9	724
22142.4	22773.6	20371.6	21058.0	0.0	0.9	62
80590.2	78774.7	80782.0	80657.0	0.0	0.8	319
23530.7	22896.8	25772.5	26040.0	0.0	0.9	8
55100.5	56012.1	55901.8	55779.0	0.0	0.6	120
12896.0	12774.9	13593.2	13411.0	0.0	0.8	886;871
2457.3	2714.8	3001.4	2678.2	0.0	0.9	52
18117.0	20350.4	19033.6	19609.0	0.0	0.9	413
47263.7	45123.6	45595.8	47030.0	0.0	0.8	306
20501.8	21021.3	18389.2	21774.0	0.0	0.9	53
30511.6	28143.6	30824.0	30077.0	0.0	0.9	2102
35331.2	34383.6	35207.5	32789.0	0.0	0.9	156
9880.6	8373.7	8915.3	9551.2	0.0	0.9	1453
7147.3	6851.3	6764.9	7487.1	0.0	0.9	1869
6340.9	6213.8	7065.7	6275.5	0.0	0.9	885;884;885
11572.7	12203.0	11730.5	11613.0	0.0	0.8	311
147676.5	142818.8	162156.0	143640.0	0.0	0.9	1107
9600.3	10879.6	11950.6	9687.0	0.0	1.0	219
23317.8	22241.2	23131.9	22609.0	0.0	0.8	199
15362.8	15990.1	15339.3	15811.0	0.0	0.9	52
35968.9	36868.4	38476.5	33541.0	0.0	0.9	601
8444.5	8413.9	8692.2	8610.5	0.0	0.8	405
3185.9	3425.1	3328.0	2945.1	0.0	0.9	1591
41110.1	40803.0	39498.1	42736.0	0.0	0.9	173;173
78159.6	81258.4	91547.5	80426.0	0.0	0.9	395
14850.7	13635.1	15675.9	15486.0	0.0	0.9	922
8149.8	9794.4	9349.7	8985.7	0.0	1.0	159
132430.8	129938.2	133452.2	130270.0	0.0	0.6	609
29832.3	28860.7	30729.9	29043.0	0.0	0.9	288
16618.0	16239.8	17272.5	14674.0	0.0	0.9	500
62299.7	63665.7	51863.4	64937.0	0.0	0.9	183
15202.0	14861.6	14734.5	14697.0	0.0	0.9	456

Lzts2	0.999548	4.91E-08	100.07	AAAGTGGG(1)LR	2	0.062112	22603.7	22716.0
Aff4	0.96806	2.64E-10	47.286	VNPHKVS(0.968)PAS(0.014)S(0.01	5	-0.49485	11337.0	11862.0
Gnas	0.966601	1.35E-09	59.614	AHLRPPS(0.967)PEIQVADPPT(0.03	4	0.23455	9265.2	9101.4
LOC10091	0.999993	5.58E-59	93.568	SRTEALED(1)EEEDQDFVEVPEKEG	4	0.19421	14204.8	12622.2
Ehbp1	0.702724	6.21E-12	94.122	S(0.297)IQEDT(0.703)ERGDEEK	3	0.46276	25138.1	27058.7
Kif21b	0.648078	7.73E-11	90.476	TTASTQMNVS(0.648)S(0.352)R	3	1.1471	17072.0	21309.8
Sptbn1	0.516527	1.91E-33	95.205	AQT(0.061)LPT(0.383)S(0.517)VV1	4	0.36899	5010.8	4900.6
Ehd2	0.936502	2.21E-22	76.294	SKYDEIFY(0.006)NLAPADGKLS(0.9	4	-1.2106	112104.7	107711.6
LOC68359	0.934216	1.52E-15	62.032	IKEAS(0.066)PES(0.934)EDEDEALP	3	1.9464	11466.2	9765.8
Dsp	0.980464	1.40E-10	65.231	GLPSPYNMS(0.019)APGS(0.98)R	3	-0.48524	12996.6	12470.8
Gsn	0.981017	0.0136418	52.167	T(0.007)AY(0.001)RT(0.981)S(0.01	2	-0.039547	12795.1	12539.9
Ctnnd1	0.996747	1.87E-26	78.272	S(0.997)MGYDDLDY(0.003)GMMS	3	0.43349	22431.9	20098.8
Sgta	0.822579	2.83E-06	72.29	T(0.079)PS(0.099)AS(0.823)HEEQ(	2	-0.22731	9480.5	8076.1
Larp4b	0.523225	1.57E-08	61.276	S(0.169)LS(0.523)T(0.169)DAS(0.0	3	1.1535	2902.6	2751.9
Dtna	0.5	0.000102614	46.069	VEHEQAS(0.5)QPT(0.5)PEK	3	-0.094002	11877.9	12822.9
Dtna	0.5	0.000102614	46.069	VEHEQAS(0.5)QPT(0.5)PEK	3	-0.094002	11877.9	12822.9
Hcn2	1	3.17E-63	112.34	GAASGPAAEEAGS(1)EEAGPAGEF	3	-0.14374	9514.6	10300.1
Tnk2	0.727176	1.77E-26	75.88	KPS(0.727)PT(0.273)PGGLAGEGTL	4	0.2964	4374.2	4140.6
Ocln	0.768978	9.02E-07	61.495	Y(0.008)S(0.21)S(0.769)NDNLET(0	3	-0.56405	19725.7	20786.5
Ahdc1	0.922797	3.49E-53	92.463	GPAATAGYGCPLLS(0.016)DLT(0.0	3	-0.14664	6086.5	6005.2
Camk2g	1	1.12E-06	130.44	QET(1)VECLRK	2	-0.35603	117836.7	88255.6
Eml1	0.683454	1.33E-06	82.942	T(0.683)S(0.048)S(0.232)S(0.046)E	3	0.38422	12666.3	11466.1
Adar	1	0.0127032	74.92	S(1)PDAHPK	3	0.10821	33489.2	30597.3
RGD13072	0.898913	1.17E-38	83.368	QS(0.101)GT(0.899)PPGVGAPGIPC	2	0.20088	80371.1	83878.9
Mettl14	1	0.000197387	81.017	LRPKS(1)PPPK	3	-0.02528	15292.5	15628.8
Stard13	0.999988	2.19E-15	109.1	RDS(1)GVGASLTR	3	0.57894	27147.8	26252.5
Spen	0.548204	0.00632855	69.276	QIS(0.452)EDS(0.548)ER	2	-0.049306	11653.0	11835.7
Sox8	0.6486	3.51E-31	91.503	T(0.001)EQLS(0.349)PS(0.649)HY(	3	0.5741	4597.2	5412.2
Palmd	0.925647	1.29E-16	67.01	LGSPARHS(0.073)PLGVPGAGDGT(	4	1.674	12799.8	11070.1
Limch1	0.999371	4.54E-52	172.09	HGRDDS(0.999)FDS(0.001)LDSFGS	2	0.69959	75252.1	77797.6
Nmt1	0.999976	5.34E-19	138.28	GGLS(1)PANDTGAK	3	-0.26947	120591.8	121450.4
Plcb1	0.845346	5.40E-197	207.48	S(0.021)EPS(0.133)S(0.845)PDHGS	4	-1.0108	27516.3	30086.2
Srrm2	0.9948	0.0184725	70.908	S(0.005)NS(0.995)PQPK	2	-0.52856	5502.4	4586.1
LOC10090	0.898598	3.02E-37	106.1	RDS(0.899)S(0.061)ES(0.041)QLAS	3	-0.37947	68316.7	70130.2

21658.0	22210.4	22796.3	21605.0	0.0	0.8	571
11514.1	11260.3	12327.9	10936.0	0.0	0.9	454
9932.5	9054.8	9488.4	9602.6	0.0	0.9	636
13371.9	13110.4	13632.7	13238.0	0.0	0.9	415
24279.2	23756.9	26691.5	25614.0	0.0	0.9	978;1014
19531.9	22012.4	17110.1	18479.0	0.0	1.0	222;223;223;223
4987.7	4985.8	5113.0	4720.1	0.0	0.8	2318
117557.8	104819.6	113778.5	116960.0	0.0	0.9	468
11716.4	10864.9	11465.5	10442.0	0.0	0.9	864
12081.6	11935.7	12716.9	12696.0	0.0	0.9	2831
13317.6	13359.0	12496.7	12591.0	0.0	0.9	602
21908.2	21197.3	21403.9	21495.0	0.0	0.9	288
9138.2	9883.6	8386.7	8282.7	0.0	0.9	308
3354.9	3021.1	3077.1	2863.4	0.0	0.9	568
13138.7	12381.1	12877.2	12381.0	0.0	0.9	518
13138.7	12381.1	12877.2	12381.0	0.0	0.9	521
10040.3	9186.0	10357.2	10154.0	0.0	0.9	119
5004.5	4509.8	4381.1	4556.8	0.0	0.9	102
22709.9	19331.8	22967.3	20589.0	0.0	0.9	371
6238.7	5796.1	6197.1	6240.8	0.0	0.8	1538
74852.8	93812.3	106354.6	79303.0	0.0	1.0	287;287;287;287
11509.8	11967.6	13166.8	10321.0	0.0	0.9	101
28754.9	32152.9	30297.1	29906.0	0.0	0.9	526
82310.7	79519.4	84277.5	81475.0	0.0	0.8	143
12797.0	14203.8	15710.1	13576.0	0.0	0.9	379
28793.2	26130.6	28589.4	27044.0	0.0	0.9	453
12175.2	11596.9	11767.9	12113.0	0.0	0.8	1251
5556.4	4689.8	5318.1	5476.6	0.0	0.9	357
11064.8	12298.6	11392.8	11061.0	0.0	0.9	531
78229.9	72900.9	77608.1	79564.0	0.0	0.9	42;45
112575.2	116430.7	118908.0	117430.0	0.0	0.8	47
28141.7	27193.2	28616.1	29488.0	0.0	0.9	982
5202.9	5238.7	5204.3	4768.8	0.0	0.9	813
64082.9	65808.4	65173.4	70493.0	0.0	0.9	66

Pcdhgc3	0.959145	0.00300216	51.073	KPGAAS(0.959)PLAS(0.041)R	2	0.077721	14282.3	13122.4
Map1b	0.757237	1.65E-134	179.58	DVMSDETNNEET(0.001)ES(0.242)	4	-0.25951	144421.6	143684.9
Cctn	0.70565	2.99E-32	72.105	KQT(0.374)PPAS(0.706)PS(0.328)F	4	0.33739	108737.8	106350.3
Frmd5	0.772303	2.20E-12	94.532	S(0.114)S(0.114)S(0.772)HGDTFLP	3	1.046	13905.4	13876.0
Atp2b1	0.999948	6.71E-05	68.262	NS(0.126)S(0.874)PPPS(1)PNK	3	-0.056247	30128.3	27863.8
Ttc7a	0.930535	1.25E-05	89.533	DGS(0.931)FEGLT(0.069)VK	3	0.13174	16688.0	16960.5
Slc6a15	0.499976	1.77E-07	82.417	IPSEMS(0.5)S(0.5)PNFGK	3	-1.0148	48199.8	46850.3
Cand1	0.901202	0.00513902	86.205	LT(0.099)S(0.901)AIAK	2	-1.1518	30916.6	27322.0
Nefl	1	0.000170255	68.972	AKT(1)LEIEACR	2	-0.333	55000.4	51914.8
Epb41l4a	0.997637	9.32E-12	101.61	MPETESNS(0.998)LS(0.002)R	2	0.29197	14265.6	15511.5
Gpr35	0.52154	0.00204982	58.699	ATAS(0.056)S(0.423)T(0.522)PHK	3	-0.015081	8191.7	8657.2
LOC100911	0.995424	0.00163382	86.014	FYDS(0.005)NT(0.995)VK	2	-0.17879	48167.6	48950.9
Pard3b	0.652105	3.17E-47	140.27	ANS(0.026)PEGEES(0.322)PS(0.65	3	-0.20428	17545.5	15762.7
Cope	0.524129	8.34E-16	62.617	APPAPGAVS(0.027)GS(0.524)S(0.4	3	1.3847	19940.4	18688.1
Ttyh3	0.999991	0.00100868	71.03	QAHDS(1)LYR	2	-0.033949	15082.6	15967.8
Ripk2	0.517404	0.0334039	50.786	S(0.483)LS(0.517)APQDK	2	-0.43917	46973.7	40049.5
Zfp385a	0.543781	1.50E-05	43.841	QPGS(0.136)PS(0.544)PPS(0.318)\	3	-0.029881	6396.1	6188.9
Lars	0.988927	0.0451495	61.161	NY(0.011)MT(0.989)PAK	2	0.61251	12767.6	14412.4
Dmd	0.871028	3.38E-43	84.362	MGYLPVQT(0.002)VLEGDNMET(0.	4	-0.99638	8935.8	9224.5
Gramd1b	0.836857	5.98E-36	103.31	GS(0.001)DHS(0.156)S(0.837)DKS(	3	-0.41352	9166.0	9369.6
Ddi2	1	2.98E-06	88.768	TQAQLLS(1)PGER	2	-0.1833	16358.8	17321.4
RGD13054	0.611983	0.000519163	59.225	KS(0.068)S(0.788)PS(0.532)S(0.61	3	-0.55688	30607.7	30061.0
Foxk1	0.882157	4.50E-10	46.76	S(0.011)S(0.011)GLQT(0.136)PECL	4	-1.7194	17346.3	16316.6
Nedd4l	0.990268	1.80E-52	114.57	DT(0.007)LS(0.99)NPQS(0.002)PQ	5	0.71186	160701.6	171985.3
Itpr3	0.989141	4.56E-68	130.71	QS(0.989)VFGAS(0.007)S(0.003)LF	3	-0.097242	94468.6	98560.0
C5ar1	0.75774	0.000240934	44.425	DS(0.046)KS(0.758)FT(0.197)R	3	1.1252	65726.2	70188.3
Rtkn	0.928799	1.75E-122	175.43	AS(0.929)LDS(0.071)AGGSGNSPILI	3	1.0865	11034.8	10910.2
Scg2	0.795343	6.04E-101	158.29	RVPS(0.008)PGS(0.795)S(0.197)EC	3	0.29336	70576.8	71690.0
Aimp1	0.689702	1.01E-18	76.301	S(0.14)AS(0.69)VT(0.14)T(0.025)T	4	-0.37567	11968.5	11387.1
Avil	0.760592	6.43E-15	82.349	NATLSLNS(0.049)S(0.191)ES(0.761	3	-0.83045	7032.8	6929.2
LOC68291	0.884841	1.09E-08	61.415	S(0.05)PT(0.065)KT(0.885)DPKNEE	4	0.66394	55874.6	51772.2
Trim67	1	0.000157677	66.004	S(1)PGGAGAPVPR	2	-0.32715	48525.4	48189.7
RGD15598	0.909525	1.83E-07	57.616	T(0.045)S(0.045)RFT(0.91)PPAFIRI	4	-0.82596	4263.9	4016.8
Tnks1bp1	0.981786	2.22E-72	106.52	LDS(0.982)PPPS(0.018)PITEASEAA	3	1.1873	29130.0	32280.0

13945.7	12987.2	15725.1	12423.0	0.0	1.0	780
163167.0	151156.5	144801.2	152970.0	0.0	0.9	1024
125883.3	112591.9	101920.8	124690.0	0.0	1.0	405;368
14029.9	13698.9	14021.7	13874.0	0.0	0.5	302
32430.1	30258.8	30813.3	28883.0	0.0	0.9	1211
20001.4	16925.1	15656.7	20791.0	0.0	1.0	313
42025.7	46477.7	47212.7	42678.0	0.0	0.9	687
28858.2	29243.5	26847.5	30558.0	0.0	0.9	140
49330.2	51623.3	51890.1	51930.0	0.0	0.9	317
15547.0	15563.3	14107.2	15421.0	0.0	0.9	120
7934.6	8087.8	7906.5	8662.0	0.0	0.9	293
46216.1	47122.3	49202.5	46275.0	0.0	0.8	134
18408.7	16602.8	17191.3	17658.0	0.0	0.9	288
19043.3	18768.6	19701.5	18907.0	0.0	0.8	12
15732.2	16498.3	14172.4	15873.0	0.0	0.9	437
41439.1	41681.9	44078.4	42046.0	0.0	0.9	364
5759.8	6359.7	5681.9	6209.8	0.0	0.9	142
11796.2	12672.6	13223.4	12882.0	0.0	0.9	920
9598.1	9218.3	9350.2	9048.7	0.0	0.8	344
8442.2	8836.0	9534.9	8470.0	0.0	0.9	44
18178.8	16203.5	18312.3	17080.0	0.0	0.9	121
30883.1	30176.3	29654.9	31257.0	0.0	0.8	498
18458.8	15811.9	18806.0	17240.0	0.0	0.9	427
155576.1	158603.2	170010.6	157180.0	0.0	0.9	463
98724.3	96013.3	98857.0	95409.0	0.0	0.8	934
65629.9	63702.0	76277.7	60547.0	0.0	0.9	336
12975.9	11270.2	11825.6	11649.0	0.0	0.9	232
69243.2	68959.8	68447.7	73038.0	0.0	0.8	494
10604.6	10703.4	12143.0	10943.0	0.0	0.9	110
6530.6	6678.5	6801.7	6909.3	0.0	0.8	754
48232.5	49158.3	53263.3	52674.0	0.0	0.9	447
43905.8	47611.8	45643.9	46659.0	0.0	0.9	277
3833.5	4135.1	4070.4	3848.1	0.0	0.9	100
30057.0	31598.5	30435.0	28976.0	0.0	0.9	490

Eef1d	0.999985	1.05E-75	179.56	ATAPQTQHVS(1)PMR	2	0.36807	775098.5	806638.3
Ptpn12	0.999087	1.64E-51	108.5	RHS(0.999)GAEKDADVS(0.001)EE	5	0.37189	33820.8	33385.7
Nap114	0.507677	2.90E-17	74.428	LDNVS(0.239)HT(0.455)PS(0.361)	3	-0.16976	21182.0	20747.0
Prpt3	1	4.61E-134	193.51	RGS(1)QPDAELDGAGTSLLR	3	0.61011	29348.3	28641.5
Thoc5	1	3.50E-06	68.481	RRPT(1)LGVQLDDK	4	-0.12932	9076.2	8753.3
Tbc1d9	1	0.0026406	43.594	RRS(1)PEEFNPK	4	0.13671	26743.5	27171.7
Rrad	1	0.00864363	78.816	S(1)MPVDER	2	0.2388	5431.3	4942.9
Zfp800	0.551808	0.0107212	43.308	HDGT(0.014)S(0.552)NS(0.429)PS	3	1.4001	5917.0	7074.3
Pomt2	0.99998	5.69E-05	53.255	AVS(1)RDVVPEAATR	2	-0.23634	7678.1	8508.0
Disp2	0.994484	1.22E-11	47.167	LSHRPSILSEDLQIHDGS(0.005)CCLC	5	-0.10136	10863.2	14392.6
Eprs	1	0.000554188	41.513	DQDVEPGAPS(1)MGAK	3	0.18785	20472.3	23696.7
Trio	0.961848	2.24E-19	63.625	T(0.033)RPGAVS(0.962)PLNS(0.24	5	0.51526	26945.0	27951.6
Cpne6	0.966027	3.88E-17	60.194	QVVEYYAS(0.001)QGIS(0.063)PGA	4	0.35922	20413.9	20469.5
LOC10091	0.591709	1.28E-17	72.801	KS(0.034)S(0.137)S(0.592)S(0.205	3	2.0668	14369.4	12238.3
Arhgap19	0.898567	0.0064224	73.233	S(0.081)RS(0.899)FS(0.021)GLIK	2	0.71003	42131.4	37638.4
Tnrc6b	0.828111	6.70E-49	121.46	S(0.007)S(0.007)S(0.155)S(0.828)/	3	-0.0063412	2435.9	2738.4
Ahnak	0.999992	2.32E-15	83.404	SSEVVLS(1)GDDEYQR	3	0.22928	46376.1	47376.8
Gramd1a	0.999995	7.12E-10	129.19	SQEPS(1)PVGSR	2	-0.50689	12278.6	12159.3
Lima1	0.995102	1.23E-118	157.75	RLS(0.995)ENS(0.005)CSLDDLEIGA	4	-0.60296	60530.9	55392.0
Rabl6	0.982041	1.40E-43	91.67	FPVREDLS(0.016)DVT(0.982)DEDT	4	-0.33679	44255.6	46617.8
Tanc2	0.927452	5.74E-29	78.098	S(0.003)CDELS(0.927)PVS(0.066)P	3	1.2106	11688.6	11597.7
Dock3	0.740411	0.00982773	44.425	GS(0.26)PS(0.74)LPDK	3	0.06997	11178.6	9539.3
Drp2	0.905096	1.36E-24	65.073	WQHEEAVEAPT(0.058)LAEGS(0.90	5	0.36398	10816.2	10363.4
Grk6	0.820687	1.09E-06	71.98	DVLDIEQFS(0.821)T(0.179)VK	2	0.82094	36079.7	31141.4
Sh3kbp1	0.962067	2.65E-14	117.48	AS(0.018)S(0.962)PS(0.018)LFS(0.1	2	-1.1528	40014.4	40783.3
Smcr8	0.986302	0.000366517	64.374	VLISVGS(0.986)Y(0.013)K	3	-0.17433	2444.8	2073.2
Pwp1	0.999633	1.46E-83	130.95	EKLQEEGGS(1)EEEEVGSPSEDGMQ	4	-0.22914	89435.5	86961.2
Ybx1	1	0.00193626	82.426	FRS(1)VHFR	3	0.23355	5833.8	6700.5
Nrbp2	0.999951	4.99E-13	71.402	IFSNALPDDLRS(1)PIR	3	0.55126	14220.3	13396.6
Whsc1l1	0.953603	2.70E-10	85.45	HT(0.046)S(0.954)VEEDGPPPVK	3	0.2375	13767.1	13486.6
Hnrnpa3	0.995675	1.88E-12	60.814	SSGSPYGGGYGSGGGGS(0.004)GGY	3	0.42361	3293.8	2951.1
Ablim3	0.95263	6.77E-13	62.438	T(0.002)S(0.002)ET(0.008)S(0.034	3	-0.25158	28926.1	31957.5
Sgip1	0.972042	6.16E-21	77.899	PFPT(0.028)GT(0.972)PPPLPPK	3	0.1941	72202.4	73193.8
Nck1	0.590769	4.34E-12	60.621	KPS(0.015)VPDT(0.304)AS(0.09)P/	4	0.74164	15995.0	15198.9

736721.6	749941.5	778293.3	778630.0	0.0	0.9	502,503
34509.3	34821.4	35818.8	30569.0	0.0	0.9	536
21249.2	22268.7	20294.6	20302.0	0.0	0.9	55
31126.9	27280.1	31034.5	30361.0	0.0	0.9	850
8727.8	9023.5	8935.9	8466.5	0.0	0.8	327
26835.4	26513.4	27275.0	26563.0	0.0	0.7	469
5732.1	5440.1	4823.6	5763.1	0.0	0.9	38
6672.8	6259.4	6846.8	6460.9	0.0	0.9	593
8360.7	7545.7	8503.2	8377.3	0.0	0.9	100
12839.6	13464.6	12089.6	12355.0	0.0	1.0	1159
22442.7	22067.4	20904.8	23314.0	0.0	0.9	1473
27173.9	28181.0	26326.0	27163.0	0.0	0.8	2419
19508.5	20308.6	19587.2	20202.0	0.0	0.8	556
12946.0	12629.7	12979.7	13752.0	0.0	0.9	243
38513.4	40834.9	38674.2	38200.0	0.0	0.9	327
2942.7	2815.1	2654.9	2607.6	0.0	0.9	572
49094.9	45111.5	49096.7	47947.0	0.0	0.9	116
10208.9	12251.4	10861.7	11366.0	0.0	0.9	269
63182.2	58062.5	59796.0	60382.0	0.0	0.9	225
43575.8	43963.2	45400.3	44437.0	0.0	0.8	476
11702.5	11007.3	12294.7	11518.0	0.0	0.9	1900
10834.9	10520.8	8964.0	11916.0	0.0	1.0	1768
10519.6	10270.7	10595.9	10680.0	0.0	0.8	745
33508.5	35468.2	32267.7	32509.0	0.0	0.9	330
45004.5	39319.2	42763.9	43114.0	0.0	0.9	537
2602.5	2380.1	2782.0	1924.1	0.0	1.0	416
87074.9	89243.0	84266.8	88695.0	0.0	0.8	49
5819.5	5933.1	6127.1	6205.5	0.0	0.9	245
13889.3	13053.2	13913.7	14340.0	0.0	0.9	207
12973.7	14096.0	12928.5	13010.0	0.0	0.9	464
2606.4	2924.5	2923.1	2961.5	0.0	0.9	354
30019.7	28796.9	31917.2	29755.0	0.0	0.9	282
66458.1	70072.9	76262.7	64510.0	0.0	0.9	275
16060.1	14675.7	16171.8	16182.0	0.0	0.9	96



Pnpla6	0.946365	4.07E-16	67.827	DEGGS(0.946)PEGAS(0.017)PS(0.0	3	0.51884	7769.2	7905.9
C2cd2	0.995889	3.31E-49	144.75	FDT(0.003)GRAS(0.996)PLSS(0.00	3	0.41022	142644.5	143662.9
Arhgef26	0.992851	4.72E-05	44.341	GQGT(0.993)FDGEENAVLY(0.007)	3	-0.077037	4216.7	4377.2
Map3k12	0.920227	0.00215967	40.154	NVPQKLS(0.92)PHS(0.08)K	4	-0.30498	11718.6	11362.9
Pacsin2	0.643669	1.43E-11	48.392	AADGVTLT(0.001)GINQT(0.031)GI	5	0.85414	4316.7	4648.9
Apc	0.999022	2.97E-54	99.219	ALEAELDAQHLSET(0.001)FDNIDNI	4	0.038787	16448.2	17162.3
Dact3	1	4.92E-09	115.24	GRS(1)VEQS(1)PPR	3	0.14722	26537.1	26551.9
Dact3	1	4.92E-09	115.24	GRS(1)VEQS(1)PPR	3	0.14722	26537.1	26551.9
Rprd1b	0.677254	0.000287467	44.543	LS(0.104)MEDS(0.677)KS(0.218)PI	3	0.6798	19768.7	19986.9
Cpsf7	0.970165	3.05E-29	81.763	DSSDS(0.001)ADGRAT(0.97)PS(0.0	3	-0.20265	4500.0	3830.4
Srrm2	0.999986	2.75E-58	118.51	AAEIPAVASCWVGPQVS(1)PEHK	3	-0.37692	68712.6	71738.2
Smarca4	0.868478	7.85E-21	103.6	DSEAGS(0.034)S(0.868)T(0.095)PT	3	0.32578	10787.5	10762.7
Atf7	0.77391	7.87E-12	63.488	SAAGPLDMS(0.001)LPS(0.225)T(0	3	1.7974	5641.1	5956.1
Esf1	0.977879	2.15E-63	175.66	DGAT(0.022)S(0.978)EEETELEK	2	0.24987	30562.4	27639.0
Cd2ap	0.972786	0.00696232	68.525	S(0.973)PGT(0.025)MY(0.003)PK	2	-0.85826	11656.5	12131.9
Slc9a1	0.988292	0.00231299	102.55	LDS(0.988)PT(0.012)MSR	2	0.097154	27019.0	29099.0
Rims2	0.993488	3.80E-21	79.942	RHS(0.993)DVS(0.007)LANAELEDS	3	-0.3514	73336.7	74968.6
Luzp1	0.736767	9.18E-07	50.358	VIQAEQS(0.737)NS(0.204)S(0.059	3	-0.48431	5829.7	5280.9
Prkd3	0.794485	3.07E-38	86.557	SVFPATVSAVLPT(0.01)PS(0.003)PC	3	1.15	14043.8	13980.2
Kctd16	0.965353	1.39E-20	103.39	TLT(0.002)S(0.032)GS(0.965)RESN	3	-0.18348	28982.1	30211.2
Pard3	0.952353	1.23E-31	87.72	EMNNYS(0.024)PGRFS(0.952)PDSI	4	0.95625	7059.9	8470.8
Nefl	0.997282	1.38E-21	82.609	S(0.997)AYS(0.002)GLQSSSYLMSA	2	2.5651	15308.0	14114.0
Fcho2	0.732483	5.59E-07	54.556	VS(0.002)IGNIT(0.732)LS(0.264)P/	3	-1.5002	3390.4	3425.6
Sgip1	0.797731	1.20E-54	86.138	LPPGKPGVGDVS(0.798)RPFS(0.20	4	-0.42999	42102.8	40272.1
Ufl1	0.74558	2.47E-12	65.231	KDEDS(0.034)DDES(0.746)QS(0.17	5	0.2143	50005.5	51546.2
Tmem132l	0.781816	2.01E-09	72.583	DQTEDPAS(0.207)S(0.782)PT(0.00	3	-0.10376	12010.3	11065.7
Rbm15b	1	1.23E-20	119.58	ASGDPGAGGAS(1)PR	2	-0.28276	19614.8	18637.7
Cgn1	0.616531	2.34E-09	53.481	NCFPKPCGS(0.617)QPNS(0.553)PT	4	-1.8858	13457.0	14098.6
Hebp2	1	0.00241119	115.29	NEPS(1)DEDK	2	0.76618	62212.5	63204.2
Dbn1	0.958853	1.13E-76	110.36	EGTQQASEGYFS(0.04)QS(0.959)Q	3	1.0343	30654.2	29478.5
Kank1	0.999667	1.00E-06	84.759	TSPGPTHGRS(1)FD	2	0.084178	15340.2	15847.1
Camk2g	0.617527	0.000122117	78.324	KT(0.015)S(0.618)T(0.368)QEYAA	3	-1.1595	11688.4	10293.2
Map1b	0.999635	2.64E-43	134.32	TPEDGGYS(1)CEITEK	2	0.59186	310359.1	312247.8
Wdr47	0.958436	1.08E-69	137.86	T(0.002)S(0.002)PMS(0.037)HS(0.	4	1.5584	27911.1	28347.6

7557.8	8087.2	6906.2	8129.3	0.0	0.9	1312
137711.4	137934.9	143005.9	141070.0	0.0	0.8	310
3849.3	3973.7	4475.7	3935.0	0.0	0.9	368
11035.0	11376.9	11069.0	11510.0	0.0	0.8	533
4732.2	5201.9	4741.0	3690.5	0.0	1.0	346
18695.1	17257.3	16865.3	17938.0	0.0	0.9	677
28362.1	26902.8	26591.1	27577.0	0.0	0.9	370
28362.1	26902.8	26591.1	27577.0	0.0	0.9	374
18982.6	17489.4	20287.1	20689.0	0.0	0.9	132
4261.4	4650.7	3792.8	4090.0	0.0	1.0	194
68666.2	64294.8	71267.9	72587.0	0.0	0.9	1271
11625.9	10614.1	11639.7	10769.0	0.0	0.9	1389
5898.5	5615.8	6232.9	5566.3	0.0	0.9	101
30088.9	30294.0	27328.4	30262.0	0.0	0.9	686
11146.8	11165.7	12826.9	10782.0	0.0	0.9	404
29618.3	27331.8	29133.4	28877.0	0.0	0.9	697
70493.1	71340.1	77051.4	69403.0	0.0	0.9	177
5919.8	5453.6	5636.5	5862.5	0.0	0.9	57
15004.0	14340.2	14372.2	14119.0	0.0	0.9	31
26244.5	28524.2	29533.0	26991.0	0.0	0.9	372
7237.1	8336.7	7313.4	7014.1	0.0	1.0	383;383
15159.4	13987.1	14417.1	15975.0	0.0	0.9	423
3540.1	3583.2	3322.3	3403.6	0.0	0.9	431
41138.8	40650.1	41260.3	41043.0	0.0	0.8	509
48670.1	49457.5	49609.7	50474.0	0.0	0.8	397
11617.4	11339.5	11883.3	11314.0	0.0	0.9	914
19625.6	18268.1	19295.4	20055.0	0.0	0.9	107
14775.1	14135.6	14362.6	13643.0	0.0	0.9	198
58379.6	59024.9	62544.5	61407.0	0.0	0.9	199
31202.5	30441.4	31373.2	29118.0	0.0	0.9	659
13118.5	14924.3	16149.3	13037.0	0.0	1.0	1303
9586.1	9762.0	11156.6	10510.0	0.0	1.0	36;36;36;36
324896.8	306514.8	319439.0	317380.0	0.0	0.8	1932;1806
26871.6	26654.2	27768.7	28342.0	0.0	0.9	344

Ccr1	0.996951	7.41E-12	69.081	TSSLTPS(0.001)T(0.002)GEHEL(0.	2	2.0711	33322.3	31198.5
Foxc2	0.99967	2.86E-20	100.97	VETLSPEGALQAS(1)PR	3	-0.31379	27727.4	28016.3
Mllt1	0.981444	0.000117075	77.776	LES(0.019)LS(0.981)PK	3	0.1422	86909.4	85742.5
Map1b	0.944428	1.32E-36	128.74	S(0.001)PS(0.001)LS(0.015)PS(0.9.	2	-0.21558	400120.1	416015.9
Mief1	0.959833	3.91E-05	82.912	AISAPT(0.011)S(0.96)PT(0.029)R	2	0.73149	85268.2	79938.8
Cdk14	0.999957	4.67E-05	73.082	SSAAGKES(1)PK	3	-0.087227	91236.4	91115.2
Garnl3	0.81971	1.65E-12	101.53	S(0.82)FS(0.178)DVLPE(0.002)PK	2	1.7841	31709.8	32706.7
Plekha1	1	1.58E-05	95.618	RLS(1)NPCIQR	2	0.85916	63295.5	67677.5
Caskin1	0.65001	8.34E-19	70.783	QVLP(0.019)HFT(0.324)PPQT	4	-0.041539	37705.4	39741.2
Bad	1	2.92E-07	90.412	S(1)APPNLWAAQR	3	0.72319	5938.6	5863.4
Arid4b	0.74487	0.000225762	41.53	Y(0.002)CNT(0.006)DECLQS(0.247	4	-2.2815	10076.6	11358.6
C2cd2l	0.917058	0.00728424	48.229	S(0.917)S(0.083)APEEAGVR	2	1.1592	10127.9	8832.5
Map2	1	6.91E-135	192.3	GVS(1)GDRENSFSLN(0.001)SSISSAR	3	-0.2433	95937.9	86834.0
Ralgapb	0.872216	6.40E-48	85.337	VQHQAS(0.872)S(0.062)T(0.033)S	3	-0.08462	15683.7	15026.6
Rab5b	0.822959	2.05E-13	76.158	QAS(0.823)PS(0.177)IVIALAGNK	3	-0.10192	5694.3	5683.3
Syp1	1	1.65E-31	86.08	QSAQLTALAAQQAS(1)GKEEK	4	-0.41375	10879.9	10001.2
Dst	0.991898	0.00222714	83.045	QLS(0.992)LLDS(0.008)R	2	-0.48045	25789.3	25197.2
Srrm2	0.682983	6.95E-57	101.34	VGIFSSQS(0.005)VS(0.573)S(0.422	3	-0.088595	12116.4	13148.7
Adam10	0.998854	4.51E-10	92.495	QRPRES(0.999)Y(0.001)QMGHMR	4	-1.031	6084.6	6758.8
Ablim1	0.988927	1.14E-70	121.21	TSESIYSRPGSSIPGS(0.989)PGHT(	4	0.042783	214229.1	221006.4
Hint1	0.999932	6.16E-32	89.663	CLAFHD(1)PQAPTHFLVIPK	5	-1.0059	10342.6	11050.3
LOC10091	0.969991	1.65E-95	142.23	S(0.03)ES(0.97)LIDASEDSQLEAIR	3	-0.23197	38206.3	36064.4
Srrm2	0.99915	0.00158315	69.721	S(1)RAS(0.999)PVS(0.001)R	3	0.4448	13038.4	13269.4
Plec	0.997365	1.22E-100	133.61	RGS(0.997)FDAT(0.001)GSGFSMTI	3	0.044657	80736.1	78460.1
Epb41l4a	0.720609	2.04E-14	61.039	SVLS(0.015)EVNS(0.721)KT(0.264)	3	2.5475	8558.5	8554.8
Map1b	0.999996	8.26E-22	87.352	S(1)AGFIPIKEDFSPEKK	3	-1.1831	22459.3	21239.6
Nefh	0.999949	7.88E-48	115.55	S(0.002)PAEAKS(0.998)PAEAKS(1)	2	0.22063	1242891.3	1280977.1
Nefm	0.566649	0.000186123	41.911	S(0.056)QS(0.192)WS(0.567)RGS(	3	-0.16691	24260.3	24525.9
Synm	0.758997	4.63E-10	83.252	S(0.121)T(0.121)S(0.759)IQHIDIVF	3	0.2447	51784.9	44824.3
Bend6	0.998746	7.38E-24	100.58	RTET(0.001)ANS(0.999)ENANSASC	3	-0.01162	15534.7	14257.7
Immt	1	0.0019055	50.659	KVQAAQS(1)EAK	3	0.89794	19062.6	20805.2
Hecw1	0.915663	0.000861827	40.278	CS(0.166)PCS(0.916)S(0.907)PQN(	3	0.036582	1957.9	2305.6
Itsn1	0.614424	9.92E-44	101.17	S(0.001)AFT(0.003)PAT(0.02)AT(0	3	-0.77323	37439.4	35392.0
Sash1	0.9299	2.48E-17	70.216	ASPAS(0.055)PVS(0.93)PS(0.014)C	2	0.76348	28471.6	28650.3

33826.9	32178.2	32449.4	33288.0	0.0	0.9	352
27631.7	27225.1	27122.2	28663.0	0.0	0.8	239
93069.9	85785.9	89959.5	88816.0	0.0	0.9	219
413741.2	395215.5	421975.4	407320.0	0.0	0.9	1254;1128
74535.6	80665.5	79338.3	78694.0	0.0	0.9	59
81611.2	85119.3	87028.2	90667.0	0.0	0.9	112
31732.7	32746.9	33156.8	29828.0	0.0	0.9	406
67095.9	65995.4	64257.6	66956.0	0.0	0.9	319
34523.1	36164.5	38371.8	36948.0	0.0	0.9	711
5813.5	5776.4	5675.8	6087.0	0.0	0.9	95
11747.3	10095.5	10920.5	12023.0	0.0	1.0	839
9449.8	9634.8	9428.2	9224.5	0.0	0.9	77;77
96209.6	93298.6	97032.9	87446.0	0.0	0.9	1643;1557
16059.1	13734.1	16694.4	16140.0	0.0	0.9	348
5935.0	5980.2	5821.5	5436.6	0.0	0.9	123
10782.7	9526.3	10956.8	11045.0	0.0	0.9	234
23547.8	24677.6	23588.2	25950.0	0.0	0.9	5507;5570
11973.0	11529.8	12613.2	12936.0	0.0	0.9	1367
6241.5	6038.1	6577.5	6387.8	0.0	0.9	667
201366.4	207661.4	210159.5	216070.0	0.0	0.9	394;295
10731.6	10000.5	11417.4	10570.0	0.0	0.9	45
37663.8	36314.1	38926.4	36219.0	0.0	0.9	220
12729.9	12600.0	13140.0	13132.0	0.0	0.8	1872
88975.3	76647.4	85182.7	85295.0	0.0	0.9	4645;4531;4502
8107.9	8555.4	8740.5	7819.6	0.0	0.9	434
20821.2	22191.7	23710.0	18349.0	0.0	1.0	1454;1328
1311213.1	1339640.9	1208529.4	1270900.0	0.0	0.9	748;718
24980.8	21783.6	25586.5	26089.0	0.0	0.9	41
51694.8	48784.3	50053.1	48848.0	0.0	0.9	1302
13171.8	13551.5	15327.6	13906.0	0.0	0.9	29
18267.1	18940.2	19977.2	18976.0	0.0	0.9	271
1950.1	2235.4	2478.4	1474.0	0.0	1.0	1192
36322.4	35515.5	36186.4	37000.0	0.0	0.8	898
28003.3	27011.7	28899.3	28862.0	0.0	0.9	1019

Hook2	0.929378	0.00108449	42.947	QAS(0.929)LS(0.068)LRPT(0.002)C	3	0.9418	22584.6	22134.6
Stxbp5	0.980014	4.88E-14	115.68	S(0.006)S(0.006)S(0.077)VT(0.929	3	0.048478	182193.7	194537.8
Phka1	0.999139	2.54E-17	70.072	DQS(0.999)GEVDFQS(0.001)LVSQL	3	-0.091983	17181.7	16242.0
Igf2r	0.61846	0.0115876	75.696	S(0.306)S(0.071)GVS(0.618)Y(0.00	2	-0.13773	22819.5	27620.3
Casc3	1	1.08E-12	69.747	FGS(1)PPQRDPNWIGDR	3	-0.33411	30849.8	32825.2
Arpp21	0.601035	8.58E-94	179.37	T(0.138)GS(0.601)ES(0.159)S(0.03	3	0.07519	7855.7	7496.9
Mpz	0.999698	1.94E-06	78.884	GQPY(1)IDEVGTFK	3	-0.027471	13857.7	11145.8
Rgcc	0.929175	9.65E-84	120.37	DS(0.002)FT(0.032)FS(0.929)DEKL	4	0.1397	30761.6	28915.8
Efr3a	0.880712	2.86E-12	105.95	GSVGS(0.056)VS(0.881)LS(0.053)S	2	0.15604	20721.6	21602.6
Ndrp2	0.999943	1.60E-188	229.44	TASLTAAS(1)IDGSR	2	0.5385	457440.3	442319.9
Fzr1	0.624601	0.000475156	62.466	LQPS(0.625)T(0.375)PEHK	3	-0.5689	11350.5	9397.3
Map1a	0.798231	1.26E-101	137.52	LSSFATSVAEDQS(0.03)VAS(0.798)	4	0.43734	18646.4	20345.6
Stx8	1	0.0184549	48.532	NEGS(1)EPDLIR	2	-0.58549	4815.3	4417.8
Nckap5l	0.999914	3.22E-15	78.501	VPSPGGPQLS(1)PQLPR	3	0.10353	5610.7	5176.6
Bicd1	0.967119	0.000784249	50.088	S(0.033)GS(0.967)LKGPDDPR	2	0.16445	144612.4	127395.7
Bcas1	0.5	0.0268869	59.052	MS(0.5)ET(0.5)QAK	2	-0.073792	27623.6	26689.0
Bcas1	0.5	0.0268869	59.052	MS(0.5)ET(0.5)QAK	2	-0.073792	27623.6	26689.0
Lrrfip2	0.924119	2.10E-21	107.29	NSASAT(0.004)T(0.07)PLS(0.924)C	3	-0.12345	35330.7	37653.8
Camsap2	0.999893	8.68E-133	212.55	SESVEGFLS(1)PSR	2	0.44393	62274.6	63835.0
Map7d1	0.683904	7.21E-11	51.264	T(0.001)AEEKEPAAPAS(0.263)PAP	4	0.91168	8980.3	8880.2
Fam169a	0.722866	6.39E-15	54.097	S(0.256)QS(0.723)EEQS(0.007)EAS	4	-0.57326	5322.1	5083.4
Wdr11	0.924066	3.61E-11	53.091	NS(0.011)S(0.009)S(0.025)AVS(0.0	4	0.65259	22717.0	23568.3
Glg1	0.999995	7.19E-18	74.776	AKDDS(1)ELEGQVISCLK	4	0.35137	19505.1	18193.4
Stxbp5	0.794731	0.000285575	75.088	CKS(0.795)PT(0.197)S(0.008)DVK	3	-0.58175	19332.1	19246.5
Eps15l1	0.999999	2.20E-38	89.923	TVFAGAVPVLPAS(1)PPPK	3	0.21393	114765.6	106341.5
Wac	1	9.32E-07	96.059	QQGHDPVS(1)PR	2	-0.73019	18313.6	18479.7
Mtcl1	0.960027	2.43E-05	70.728	ASGVT(0.005)S(0.035)S(0.96)PHK	3	0.040586	100272.1	90390.2
Smarca4	0.99809	3.67E-09	97.463	EVDYS(0.001)DS(0.998)LT(0.001)E	3	-0.52912	39709.1	29172.4
Iqgap2	0.999912	0.000443221	84.053	YGS(1)IVDDER	2	-0.59224	36605.7	33865.1
Fry	1	2.34E-32	131.25	EQENMDDANS(1)EQQFR	2	0.021626	46086.3	43576.0
Srrm2	0.837109	2.99E-07	78.401	S(0.002)HS(0.079)GS(0.837)S(0.08	2	0.23657	31720.5	34703.1
Flcn	0.998766	1.06E-36	107.09	AHS(0.999)PAEGAS(0.001)TDSSSP	4	1.4367	22842.2	24686.1
Rabgap1	0.937839	9.05E-21	76.21	QGDET(0.001)PS(0.011)T(0.05)NN	4	0.00585	22084.8	20754.7
Nedd4	0.999999	1.04E-87	142.2	RQIS(1)EDVDGPDNHESPENWEIVR	3	0.23016	42010.9	43508.0

20961.7	21221.5	22625.3	21563.0	0.0	0.9	707
177209.7	177709.5	189117.9	184830.0	0.0	0.9	750;733
16072.9	15496.2	16510.5	17286.0	0.0	0.9	700
24738.0	20608.8	26211.7	28048.0	0.0	1.0	2338
28550.5	29673.6	32010.2	30163.0	0.0	0.9	262
6838.6	7409.2	7786.7	6904.2	0.0	0.9	409
12111.4	12550.5	12222.1	12190.0	0.0	1.0	88
30440.2	29227.0	29688.0	30833.0	0.0	0.9	91
21446.1	20631.9	20788.3	22089.0	0.0	0.9	365
444275.1	437190.0	451630.3	449720.0	0.0	0.8	324
10308.6	10134.3	10137.9	10658.0	0.0	0.9	120
19230.6	19633.2	19644.9	18708.0	0.0	0.9	1089
4127.7	4546.4	4421.1	4339.2	0.0	0.9	102
4638.9	5367.7	5083.8	4912.2	0.0	0.9	475
135539.6	130818.2	142578.5	132500.0	0.0	0.9	548
27019.5	26666.3	28265.6	26071.0	0.0	0.9	327
27019.5	26666.3	28265.6	26071.0	0.0	0.9	329
36244.7	35587.0	38131.4	35070.0	0.0	0.9	88
60384.4	59188.8	64105.8	62448.0	0.0	0.9	1289
7739.1	7992.4	8501.0	9003.3	0.0	0.9	520
6227.3	5748.4	4969.9	5847.7	0.0	1.0	604
22284.0	23236.6	22302.6	22755.0	0.0	0.9	402
17706.1	19088.7	18025.9	18068.0	0.0	0.9	953
16533.9	19243.8	17754.4	17894.0	0.0	0.9	713
112649.8	110392.0	110241.3	111790.0	0.0	0.9	229
17649.6	17047.2	18518.5	18660.0	0.0	0.9	511
82089.2	97552.1	93510.6	80604.0	0.0	1.0	1321
38712.5	35857.6	34786.5	36523.0	0.0	1.0	1349
34225.0	33012.0	37676.1	33593.0	0.0	0.9	16
39589.8	42746.6	42603.6	43391.0	0.0	0.9	2450
28552.6	32570.9	32304.0	29726.0	0.0	1.0	1540
23893.8	23452.2	23781.6	23906.0	0.0	0.9	62
21068.2	22251.1	19653.4	21751.0	0.0	0.9	42
41467.8	44153.5	40114.8	42218.0	0.0	0.9	309



Bag3	0.565527	6.08E-05	41.16	AAT(0.566)PPNPS(0.358)S(0.008)T	2	0.12268	7606.7	8264.2
Add1	0.998337	2.07E-42	108.71	EKSPPDQSAVPNT(0.998)PPS(0.00	3	2.67	705028.6	710954.4
Mllt4	0.984439	2.89E-07	98.592	T(0.016)IS(0.984)NPEVVMK	3	0.039986	31269.7	30237.6
Hmgcs1	0.708883	7.14E-12	50.832	RPS(0.033)T(0.034)NDHS(0.93)LDI	5	0.088867	8804.8	9245.6
Smtnl2	0.880773	7.46E-31	129.29	S(0.002)LS(0.117)GS(0.881)GYGA\	3	0.68111	9010.8	13548.0
Nek1	0.99234	9.45E-22	84.249	EQPGDEY(0.006)S(0.992)EEEEES(0.	3	-0.21502	179140.5	186124.5
Rtn4	0.952097	1.88E-26	84.653	NEDAS(0.102)FPS(0.952)T(0.945)F	2	0.15715	83215.6	81191.4
Epn1	0.518646	1.26E-14	50.464	SPGAFDMS(0.008)GVGGS(0.519)L	5	-0.40704	3411.4	3374.8
Nup93	0.762595	4.36E-07	74.475	GT(0.003)S(0.763)PS(0.182)S(0.03	3	0.23282	16109.5	16327.6
Tns1	0.499957	1.32E-10	50.271	VAAPCVPPS(0.5)S(0.5)HELVPIATE!	4	1.4887	7226.4	7152.8
Tns1	0.499957	1.32E-10	50.271	VAAPCVPPS(0.5)S(0.5)HELVPIATE!	4	1.4887	7226.4	7152.8
RGD15597	0.962398	0.000131834	48.899	ENS(0.962)IEILS(0.028)S(0.007)T(C	3	-0.1086	5552.0	5966.3
Pirt	0.53114	1.02E-05	51.524	DLLPSQT(0.004)AS(0.018)S(0.053)	3	0.7157	6776.6	6789.8
Kif5c	1	0.00461069	53.756	AHS(1)AQIAK	3	0.66214	9493.1	8794.2
Fam134c	0.999999	3.18E-239	230.3	GQTPLTEGSEDLDGHS(1)DPEESFAF	3	0.37741	127068.1	126057.5
Epn2	0.954122	3.40E-58	119.87	AGGS(0.046)PAS(0.954)Y(0.001)H	3	-0.37558	45993.3	46851.4
Krt222	0.985539	3.45E-13	76.158	S(0.001)CS(0.014)IPS(0.986)IKPPP	3	-0.22989	42681.2	41776.0
Trpv1	0.998599	0.0302828	63.419	TLS(0.001)FS(0.999)LR	2	0.80574	6240.2	5795.8
LOC50103	0.660045	1.72E-05	51.786	S(0.216)WS(0.66)LNT(0.124)EEVP	3	2.4306	6500.5	6496.5
Cep170	0.990114	3.16E-53	149.52	S(0.002)DS(0.008)LDT(0.99)DSSM	3	0.68823	113790.0	110996.8
Plekhg3	0.744111	3.76E-17	70.907	S(0.255)RS(0.744)LPENIIEPPVSGK	3	-0.030995	16579.4	16376.9
Fam122a	0.518198	1.34E-43	91.748	RS(0.518)NS(0.432)APLIHGLS(0.03	3	-1.2419	11590.6	12188.9
Ap3d1	0.996726	0.00297117	74.6	S(0.001)S(0.003)PS(0.997)PQKR	2	-0.35079	82199.5	78532.5
C2cd2l	0.951625	3.04E-22	107.1	LADS(0.952)PS(0.044)RS(0.004)PS	3	-0.15209	95234.3	95026.8
Smc5	0.725581	4.70E-05	66.246	KNS(0.726)NPT(0.252)S(0.022)TLF	3	-0.86939	12656.7	11701.9
Sh3kbp1	0.512851	9.26E-08	88.092	AS(0.208)S(0.279)PS(0.513)LFSAE!	3	0.26568	5543.3	5415.2
Rpl4	0.969385	0.0459621	55.064	KPT(0.969)T(0.031)EEK	3	0.31209	10650.0	9782.3
Rps6ka5	0.841145	3.99E-08	60.489	SSSSHHS(0.008)HGKT(0.841)T(0.14!	5	-1.4677	30842.7	28256.5
Ttr	0.783249	4.56E-11	66.152	T(0.164)AES(0.783)GELHGLT(0.04	3	1.023	6159.1	6712.6
Sorbs1	0.972928	1.72E-06	79.346	S(0.026)KS(0.973)EMNY(0.001)IDC	2	-0.053279	52594.8	54233.7
Slc13a3	0.872763	0.0118402	53.367	EGEDS(0.873)T(0.127)AAVR	2	0.79692	5268.3	5077.2
Acss2	0.982653	1.27E-40	130.01	AELGMNDS(0.007)PS(0.01)QS(0.9	4	0.14477	115762.7	112302.1
Tnks1bp1	0.940176	0.000154579	51.727	RDS(0.94)QDPY(0.043)S(0.013)S(C	3	0.39816	11875.0	10535.5
Arvcf	0.920898	0.000221965	86.243	RS(0.654)PS(0.413)VDS(0.921)T(0	2	0.39729	49019.1	48895.0



8497.8	7313.2	7996.0	8963.5	0.0	1.0	557
744546.7	705371.2	713736.6	732960.0	0.0	0.9	641
27758.4	29425.0	31329.4	28162.0	0.0	0.9	216
8530.0	8814.5	9101.3	8560.9	0.0	0.9	495
11119.1	9898.5	13034.2	10614.0	0.0	1.0	252
187259.9	170196.8	190207.9	189970.0	0.0	0.9	1068
92149.0	83268.0	83671.6	88620.0	0.0	0.9	428
3470.8	3418.9	3307.7	3490.8	0.0	0.8	446
15950.5	15673.3	16244.5	16284.0	0.0	0.8	767
7225.9	6451.4	7694.1	7377.3	0.0	0.9	112
7225.9	6451.4	7694.1	7377.3	0.0	0.9	113
5662.9	5887.9	5880.4	5347.6	0.0	0.9	45
6809.7	6986.7	6962.0	6349.8	0.0	0.9	32
8440.6	8788.7	8938.5	8899.2	0.0	0.9	918
117568.4	123107.5	123439.1	122740.0	0.0	0.9	320
46945.4	45423.9	50311.8	43525.0	0.0	0.9	195
43513.0	42812.6	41951.8	42723.0	0.0	0.8	247
5628.2	5839.4	6240.0	5518.6	0.0	0.9	776
6713.6	5986.0	6460.4	7190.7	0.0	0.9	370
114289.3	113328.8	117828.7	106660.0	0.0	0.9	937
15346.8	17530.1	17620.9	12973.0	0.0	1.0	982
11274.6	11251.5	12524.5	11148.0	0.0	0.9	34
73002.5	78307.2	76732.9	77833.0	0.0	0.9	688
80707.3	90907.3	93932.7	85130.0	0.0	1.0	465
12301.9	10987.2	11853.4	13685.0	0.0	1.0	35
5152.8	5925.7	5260.5	4866.0	0.0	1.0	539
9232.6	10465.6	10326.3	8764.2	0.0	1.0	413
24343.0	27503.4	29075.7	26559.0	0.0	1.0	749
6966.3	6402.5	7102.1	6261.4	0.0	0.9	72
53820.8	53814.4	53725.0	52530.0	0.0	0.8	693;481;744;435
5030.2	5316.7	4848.7	5154.9	0.0	0.9	179
110765.4	114307.8	112613.7	110690.0	0.0	0.8	311
10567.4	11380.2	9870.2	11609.0	0.0	1.0	841
47815.2	47505.1	48440.6	49260.0	0.0	0.8	285

Itfg2	0.994836	8.23E-28	105.5	DT(0.005)GS(0.995)PPASEEATGDS	3	0.49293	9337.2	9680.5
Arhgap35	0.811272	5.98E-33	117.31	NEEENIY(0.811)S(0.189)VPHDSTQ	4	0.21789	15018.2	14270.9
Atp1a2	0.5	0.00766204	46.462	IIS(0.5)S(0.5)HGCK	3	-0.63101	6053.8	5938.0
Atp1a2	0.5	0.00766204	46.462	IIS(0.5)S(0.5)HGCK	3	-0.63101	6053.8	5938.0
Sec23ip	0.718128	6.18E-16	100.11	EMAS(0.269)PS(0.718)S(0.013)ESI	3	1.093	17962.9	18178.1
Hcn4	0.499952	4.43E-21	66.36	ASGSHGSLLLPPAS(0.5)S(0.5)PPPPC	3	0.69015	6711.0	6548.1
Hcn4	0.499952	4.43E-21	66.36	ASGSHGSLLLPPAS(0.5)S(0.5)PPPPC	3	0.69015	6711.0	6548.1
Mpz	1	1.51E-39	141.85	QTPVLYAMLDHS(1)R	2	-1.3355	225297.2	223386.7
Kank4	1	1.47E-17	98.062	DQS(1)PQGDEEKEPPK	2	0.91865	100671.7	91957.7
Ahnak2	0.912795	1.13E-23	63.73	ES(0.086)FS(0.913)PEEEEEAKS(0.0	4	0.49059	13430.8	13376.9
Usp7	0.853052	5.97E-20	72.302	IIGVHQEDELLECLS(0.853)PAT(0.0€	3	-1.2835	16110.7	16915.5
LOC10369	0.999616	5.43E-06	70.373	QDNTDV PQS(1)PK	3	0.341	42885.2	39419.8
Med1	0.978292	4.28E-08	59.975	NSSQT(0.001)GGKPGS(0.016)S(0.5	3	0.089942	7797.3	7444.3
Raph1	0.982101	0.0129562	53.775	MS(0.982)S(0.018)PGGK	2	-0.047418	68197.4	67225.5
Map1a	0.999582	2.92E-41	108.28	SPFEIIS(1)PPASPPEMTGQR	3	-0.17912	322751.0	315044.9
Emc2	0.990414	6.19E-05	57.796	ILQEDPT(0.01)NT(0.99)AAR	3	3.6501	7782.4	7845.6
Ybx1	0.965461	8.31E-119	154.4	NYQQNYQNS(0.002)ESGEKNEGS(C	4	-0.13225	35236.5	42699.6
Sbno1	0.929842	2.68E-31	91.166	S(0.93)IDPDS(0.07)IQSALLASGLGS	3	0.75696	16561.5	14851.1
Tubb4b	0.99999	8.54E-13	104.95	INVYYNEAT(1)GGK	3	0.66208	50105.7	51456.3
Nos1	0.937552	3.35E-05	52.172	EQS(0.001)PT(0.004)S(0.008)GKQ	3	-0.3382	26723.2	28251.0
Cpeb3	0.545818	2.57E-214	209.4	SSLFPFEDAFLDDSHGDQALS(0.002	4	0.43049	12495.7	10918.7
Camk2d	1	0.000871441	84.507	QET(1)VDCLKK	2	-0.0087275	387775.9	246838.7
Akap12	0.88441	6.90E-10	58.054	EMCVS(0.884)GGDHT(0.118)QLT(I	3	0.55762	13525.0	14562.6
Dtna	0.944264	0.00216184	74.306	S(0.944)LS(0.044)CAS(0.01)S(0.00	2	-0.23605	19136.5	19160.9
Homer3	0.994507	6.03E-22	139.71	S(0.005)QS(0.995)ADAPGPTER	2	-0.14015	36075.0	40893.0
Isl1	0.999895	8.23E-22	84.712	ASLGAGDPLS(1)PLHPAR	3	-0.76783	5046.7	5675.4
Fam195b	0.811139	2.08E-53	130.17	S(0.811)PT(0.189)NSSEIFTPAHEEN	3	-0.89203	75277.2	79047.0
Champ1	0.995178	0.00204709	41.56	T(0.005)ALPLS(0.995)PEHWK	3	0.99084	5191.3	5262.6
Caskin1	0.961551	5.70E-63	111.81	AAASVVGPPVAS(0.014)DCAS(0.9	4	-0.55758	35699.3	33916.6
Rprd1b	0.989779	3.16E-06	66.663	LSMEDS(0.01)KS(0.99)PPPK	4	0.14722	63518.5	68752.4
Atm	0.923866	2.05E-09	58.952	SPT(0.001)FEEGS(0.924)QGT(0.05	3	0.18056	16090.4	17544.1
Tusc5	0.792558	3.10E-06	47.499	S(0.204)LS(0.793)GALDLEQNGHS(	3	-0.82068	2994.8	2923.6
Ranbp2	0.987902	1.07E-07	91.62	S(0.004)ALS(0.988)PS(0.215)KS(0.	4	-0.23634	158185.1	162507.9
Yes1	1	0.0122965	47.302	ENKS(1)PAIK	3	0.19596	11473.8	11585.6

9323.6	9656.1	9123.0	9460.6	0.0	0.9	219
14101.2	14772.5	14485.5	13977.0	0.0	0.9	1105
5502.1	6110.9	5721.3	5599.5	0.0	0.9	205
5502.1	6110.9	5721.3	5599.5	0.0	0.9	206
18184.1	17763.2	18184.0	18185.0	0.0	0.7	456
6399.4	5311.3	7214.2	7063.3	0.0	1.0	1056
6399.4	5311.3	7214.2	7063.3	0.0	1.0	1057
217570.2	211885.2	228668.4	223340.0	0.0	0.9	226
101786.2	99677.2	96521.0	97180.0	0.0	0.9	10
15664.1	14157.6	14202.3	13963.0	0.0	1.0	6099;7470
15389.4	16293.7	15761.4	16191.0	0.0	0.9	964
37272.1	39381.9	39959.8	39818.0	0.0	0.9	271
8918.6	8012.1	7848.8	8215.0	0.0	1.0	1142
63472.9	66831.4	64381.5	66989.0	0.0	0.9	979
313356.1	316788.4	319054.3	312000.0	0.0	0.8	2001
7329.2	8144.8	7831.9	6900.9	0.0	1.0	121
36768.5	40646.8	33044.6	40617.0	0.0	1.0	172
15640.7	16078.1	15804.2	15009.0	0.0	0.9	587
50953.8	49648.9	51686.0	50662.0	0.0	0.8	55
23328.4	31876.8	24108.6	22051.0	0.0	1.0	287
10210.8	10943.7	11804.2	10763.0	0.0	1.0	498
263467.0	298672.1	328821.7	267540.0	0.0	1.0	287;286;287
15531.0	14385.3	14225.8	14860.0	0.0	0.9	458
19055.0	20045.7	17658.3	19455.0	0.0	0.9	326
37684.1	34259.3	39229.9	40776.0	0.0	1.0	158
5662.7	5504.5	5443.8	5381.4	0.0	0.9	148
76719.2	77281.0	73659.5	79326.0	0.0	0.9	21
5689.7	5352.8	5200.0	5536.5	0.0	0.9	394
37793.7	33903.0	34083.3	39065.0	0.0	1.0	1291
64992.1	60553.9	67367.3	68686.0	0.0	0.9	134
16394.4	16684.2	16495.6	16683.0	0.0	0.9	1988
2714.5	2877.1	2741.8	2985.6	0.0	0.9	45
137817.9	152806.4	156652.5	147540.0	0.0	1.0	2151
12418.0	10919.5	11767.9	12673.0	0.0	1.0	11

Arl6ip6	0.999823	0.000203515	85.066	RQVT(1)PGPVTR	3	1.1854	28748.3	31241.2
Ralgapa1	0.906052	9.55E-54	97.304	HFS(0.906)QS(0.093)EDT(0.001)G	4	0.48632	18609.4	17578.1
Sec16a	0.998564	0.00107068	61.213	STHS(0.001)LPS(0.999)RR	3	0.45938	6405.2	6210.3
Syde1	0.997806	0.0106487	65.056	T(0.002)KS(0.998)PGPAR	2	0.13152	17056.5	14423.3
Phactr3	0.958984	0.00056757	44.734	SEPLVS(0.041)GIRT(0.959)PPVR	3	0.41557	6735.9	7491.1
Spats2l	0.956242	0.000127094	51.771	KS(0.044)S(0.956)GHNKPNEGK	3	0.036228	10474.2	11836.8
Prx	1	0.0186561	43.308	VS(1)ELKLPK	3	-0.42737	11611.5	10611.4
Nefh	0.999955	1.34E-41	115.01	S(0.002)PAEVKS(0.998)PAT(1)VKS	5	-3.8122	296953.3	308145.3
Srrm2	1	0.0116108	64.82	S(1)RT(1)PLLPR	3	-0.50836	20460.4	20308.3
Wdr77	1	2.33E-10	85.469	KES(1)PPPLVPPAAR	4	-0.056918	116447.3	120375.4
Chrne	0.975013	0.000155019	66.267	RAS(0.975)S(0.025)VGILLR	3	-1.4301	774.9	808.8
Pgrmc2	0.999985	0.0122163	54.023	QYDGART(1)PR	2	1.0409	16401.7	15442.4
Camk4	0.9497	0.00243249	42.529	T(0.95)VCGT(0.044)PGY(0.006)CA	2	1.5978	11202.5	11133.7
Pum2	1	3.13E-14	110.57	GKAS(1)PFEEDQNR	2	-0.33043	71139.8	71412.4
Bcas1	0.992744	0.000401823	44.391	T(0.005)PS(0.002)PPEPEPAGT(0.9	3	1.4819	6557.1	6545.3
Larp1	0.999989	5.62E-18	131.06	ILIVTQT(1)PPYMR	3	0.66971	51824.3	52347.0
Eml1	0.698524	4.77E-09	70.802	KPS(0.3)AS(0.699)LPS(0.963)PS(0.	3	0.13809	53155.3	55480.9
Fam21c	0.999631	8.34E-39	90.821	AENAAAS(1)PEVGSADVANVAQK	4	0.042479	33013.4	33051.1
Baiap2l1	0.819502	3.01E-06	79.875	DYDT(0.005)LS(0.82)KY(0.019)S(0.	3	0.32351	46484.7	49916.2
Glg1	1	3.85E-55	90.946	ACEPIIHNFCHDVADNQIDS(1)GDLM	5	0.090321	15118.4	15537.8
Hmgcs1	0.653668	9.74E-67	98.84	RPSTNDHS(0.001)LDEGVGLVHS(0.	6	-0.66333	16524.6	16005.1
Cacna1b	1	1.43E-47	84.741	GHS(1)AEIPVGQPGALAVDVQMQM	4	-1.8039	14097.5	13972.5
Iffo1	1	0.00521855	85.161	VLGS(1)PAR	2	-0.12943	37248.6	33887.0
Dennd4c	0.999973	2.21E-12	106.39	VPS(1)GLFDTNNR	3	0.80812	30004.2	27599.5
Myo6	0.999528	5.25E-59	97.776	SVTDYDFAPFLNNS(1)PQQNPAAQL	3	-0.24639	15463.1	15395.2
Slc9a1	0.81473	1.72E-10	71.601	IPS(0.021)AVS(0.815)T(0.397)VS(C	4	0.50659	12173.7	11241.2
Inpp5j	0.641817	0.00175038	53.034	QLS(0.108)PT(0.642)S(0.251)VGPT	3	-0.52757	19731.7	20973.0
Dennd4c	0.688731	7.11E-39	89.239	RS(0.492)S(0.5)LPS(0.008)AQDS(0	5	0.31529	10209.2	10518.4
Fbrs	0.722697	0.00531203	84.615	VS(0.723)PAT(0.277)PK	2	0.088267	15995.0	15678.2
Srrm2	0.822855	0.0334067	43.442	DGLPRT(0.177)PS(0.823)R	2	0.21453	10893.5	11381.6
Pex14	0.986853	2.09E-05	94.122	QFPPS(0.987)PS(0.013)APK	3	0.24089	115599.3	121307.8
Bod1l1	1	4.42E-05	86.803	RDS(1)APVPQQR	3	0.98228	4121.8	4203.0
Akap9	0.746147	1.29E-11	94.487	S(0.01)LS(0.746)PDS(0.243)EHAAL	2	-0.63081	25435.1	29327.1
Hnrnp1	0.999996	1.96E-47	142.58	HTGPNS(1)PDTANDGFVR	3	-2.2893	150611.6	157582.8

31842.4	29034.5	31660.7	30836.0	0.0	0.9	19
17486.7	17367.3	17472.3	18659.0	0.0	0.9	772
6006.2	6011.5	6323.5	6225.8	0.0	0.9	1368
15282.9	15781.1	16282.9	14546.0	0.0	1.0	159
6270.3	7160.8	6423.5	6846.0	0.0	1.0	18
12959.9	12184.3	11187.6	11784.0	0.0	1.0	392
11005.2	10806.4	10700.3	11613.0	0.0	0.9	646;646
296513.4	278531.8	313443.9	306700.0	0.0	0.9	583;583
20568.9	21518.5	19747.5	19872.0	0.0	0.9	1988
115896.9	114175.8	122776.5	114620.0	0.0	0.9	5
754.7	865.1	754.7	710.9	0.0	1.0	373
15722.6	15340.0	15804.2	16268.0	0.0	0.9	110
11563.1	11873.0	10320.3	11596.0	0.0	0.9	196
73534.8	70167.5	71789.4	73430.0	0.0	0.9	136
5540.6	6308.6	6024.2	6249.9	0.0	1.0	536
49675.1	48661.1	52455.5	52233.0	0.0	0.9	518
53215.1	52138.1	55780.0	53412.0	0.0	0.9	79
33166.8	32606.1	31918.3	34388.0	0.0	0.9	744;710
45362.3	46872.6	49123.4	45314.0	0.0	0.9	278
14783.6	13950.8	14955.7	16389.0	0.0	1.0	706
15150.9	14665.8	17117.5	15746.0	0.0	1.0	486
14753.8	13950.8	14316.6	14421.0	0.0	0.9	1978;1977
34726.5	36083.1	35664.9	33781.0	0.0	0.9	158
28084.2	28226.1	28406.7	28787.0	0.0	0.9	947
15366.0	15175.0	15566.9	15338.0	0.0	0.7	1123
12728.9	11629.9	12787.4	11614.0	0.0	1.0	606
19914.1	19261.4	19756.0	21413.0	0.0	0.9	166
9614.1	9660.4	10348.1	10239.0	0.0	0.9	1242
14544.1	15807.5	15337.2	14929.0	0.0	0.9	781
12336.0	11644.2	10873.5	11986.0	0.0	0.9	1395
118792.8	114329.8	123567.3	116700.0	0.0	0.9	232
4356.3	4087.3	4216.2	4338.3	0.0	0.9	1476
23281.6	26807.1	22512.1	28483.0	0.0	1.0	3555
140830.8	148362.6	144886.7	154390.0	0.0	0.9	27;104

Ip6k1	0.816781	9.35E-07	84.892	S(0.029)GS(0.817)GS(0.154)DHKEI	4	-0.2232	42126.6	39310.1
Add1	0.748527	3.05E-42	80.693	S(0.006)PPDQS(0.237)AVPNT(0.69	3	2.0299	113465.6	113717.2
Pllp	0.996026	6.72E-70	121.02	T(0.002)S(0.002)S(0.996)PAQGVG	3	-0.25634	42405.7	42662.3
Cdk20	0.999847	0.000200031	83.182	LYT(1)HQVATR	3	0.43956	16573.5	16019.3
Map1a	0.998405	1.73E-21	71.678	VPS(0.998)APGQES(0.002)PVPDTE	3	0.19321	7508.6	8383.6
Ank2	0.865288	3.52E-06	88.101	DSLES(0.134)S(0.865)PVEPK	3	-0.32291	49778.9	47465.7
Atxn1l	0.998587	3.33E-18	137.21	RES(0.999)EPLDS(0.001)TSSK	2	0.096445	23929.9	21097.0
Map1b	0.519291	1.17E-31	83.36	QGFS(0.126)DKES(0.636)PVS(0.51	4	-0.42438	54937.2	57038.5
Bnc2	0.499994	2.01E-07	56.139	FSPEGDLCS(0.5)S(0.5)PDPK	3	-1.2815	12728.3	12738.5
Bnc2	0.499994	2.01E-07	56.139	FSPEGDLCS(0.5)S(0.5)PDPK	3	-1.2815	12728.3	12738.5
Tjp2	1	4.09E-36	103.92	DQLRDGS(1)PPPAFKPEPPK	4	-0.84209	329131.8	337564.6
ltp3	0.575934	3.44E-26	78.441	IQEEEEAGIS(0.149)S(0.576)MLS(0	3	0.012725	20398.4	19090.7
Limch1	0.99133	0.000328592	91.313	S(0.009)AS(0.991)QDLIK	3	0.4549	113863.9	109713.4
Ctdp1	1	7.37E-09	93.909	EQPAGLPS(1)PGER	3	0.50288	78825.4	80332.6
Inpp5d	0.962799	3.68E-05	49.559	GEGPPT(0.963)PPS(0.131)QPPLS(C	3	-0.83968	24687.3	25031.6
Bin1	0.999175	1.13E-60	158.48	GNKS(0.999)PS(0.999)PPPDGS(0.C	3	-0.2071	324480.4	349060.2
Zrsr1	0.499999	4.11E-21	78.564	GREGS(0.5)S(0.5)PGPQSQSHR	3	-0.57835	1398.5	1087.9
Tex2	1	5.03E-07	72.681	CVPQDGQS(1)PHR	3	0.062614	21109.2	23930.3
Flnb	0.799267	0.0693703	54.982	VKES(0.201)IT(0.799)R	2	-0.54418	18419.7	18305.3
Acaca	0.981098	2.06E-49	119.62	FIIGS(0.019)VS(0.981)EDNSEDEISM	3	0.30198	96437.7	97513.5
Map3k2	0.750197	2.73E-05	58.079	LQTICLS(0.75)GT(0.25)GMK	3	0.63744	6313.6	6358.3
Dcn	0.745795	1.50E-14	80.236	KT(0.746)S(0.24)YT(0.012)AVS(0.0	3	0.77546	22062.2	22243.2
Camsap1	0.62936	3.88E-16	60.288	S(0.181)IS(0.163)KDS(0.629)LAS(0	5	-0.92867	5818.1	5769.1
Hipk2	0.907611	0.00125462	53.798	AVCS(0.007)T(0.084)Y(0.908)LQS(	2	-1.7819	21060.3	19415.4
Bud13	0.992502	2.89E-06	67.902	RGHDS(0.993)PDPS(0.947)PT(0.06	2	1.3691	11594.3	12565.2
Rabl6	0.962262	3.01E-26	86.136	NIS(0.048)LS(0.962)S(0.989)EEEEAF	3	0.67231	81999.1	84745.4
Bcas3	0.905495	9.60E-30	81.974	LADAMAES(0.905)PS(0.095)R	2	-1.4222	38592.7	37602.2
Faf1	0.732065	0.0253218	55.467	RT(0.268)S(0.732)PVQTR	3	0.67108	9897.8	10611.6
Gys1	0.836332	2.07E-06	48.597	DGPLREDS(0.836)ERY(0.164)DEEE	3	1.08	9925.8	11165.5
Utrn	0.992704	0.00331214	76.572	KQS(0.007)S(0.993)EVR	3	0.62704	12384.8	12572.8
Cgn1l	0.999969	5.74E-15	129.76	EGVGEETLS(1)PR	2	-0.92399	29006.0	31237.9
Dock7	0.981123	7.48E-135	180.65	T(0.019)AS(0.981)GDDACNLTSFRF	4	0.6106	115329.7	119640.5
Gbf1	0.797505	1.29E-23	96.391	AAS(0.004)S(0.023)S(0.132)S(0.79	2	0.49565	7955.4	7373.4
Ahnak2	0.931071	8.16E-26	74.516	MPS(0.931)FGVS(0.067)VPGKPT(0	4	-0.62998	7307.8	7386.3

41606.2	38762.6	45067.9	38833.0	0.0	1.0	127
115300.7	115869.8	108862.8	116710.0	0.0	0.9	644
51622.4	44294.3	44316.7	47666.0	0.0	1.0	14
18548.2	17244.1	15310.5	18432.0	0.0	1.0	161
8070.5	7686.5	8166.8	8037.2	0.0	0.9	2016
48498.7	47202.6	49591.5	48510.0	0.0	0.9	2462
22268.1	24899.8	21023.4	21169.0	0.0	1.0	274
57178.7	54657.0	58913.3	55075.0	0.0	0.9	1439;1313
12824.7	12772.7	12590.8	12813.0	0.0	0.6	778
12824.7	12772.7	12590.8	12813.0	0.0	0.6	779
347009.4	332187.8	344338.4	334140.0	0.0	0.9	966
19982.3	18622.3	20920.8	19750.0	0.0	0.9	2086
120549.4	114120.8	114847.2	114130.0	0.0	0.9	220;211
77952.0	76252.5	82304.8	77846.0	0.0	0.9	910
25268.2	25949.1	24606.6	24208.0	0.0	0.9	963
326962.2	327139.0	331076.6	339310.0	0.0	0.9	282
1351.9	1332.8	1267.2	1226.9	0.0	1.0	417
23997.0	23499.5	20978.5	24354.0	0.0	1.0	787
16366.7	17023.0	17903.0	18009.0	0.0	0.9	2076;2137
94005.8	94916.6	96790.3	95402.0	0.0	0.8	25
5589.8	6014.8	5870.2	6322.9	0.0	1.0	514
20277.2	22104.8	22164.7	20124.0	0.0	0.9	317
6003.3	6256.5	6094.3	5188.4	0.0	1.0	513
20451.8	19636.5	20422.9	20691.0	0.0	0.9	361
10731.6	11246.0	11342.6	12201.0	0.0	1.0	182
78726.0	80126.6	84437.8	80199.0	0.0	0.9	348
36822.8	35189.9	40154.3	37348.0	0.0	0.9	869
9261.7	10379.9	9540.1	9765.4	0.0	1.0	269
10798.7	8810.3	11070.1	11918.0	0.0	1.0	672
11938.9	11936.8	11751.9	13102.0	0.0	0.9	2653
29499.1	29174.2	31327.3	28984.0	0.0	0.9	251
112511.4	110260.0	123075.7	113150.0	0.0	0.9	452
7267.8	7681.1	7594.0	7256.7	0.0	0.9	1780
7239.0	7026.2	7369.0	7475.1	0.0	0.9	644



Nefl	0.503788	5.50E-11	62.002	SAYSGLQS(0.109)S(0.362)S(0.504)	2	0.7716	11615.4	9881.9
Ankrd34a	1	1.38E-42	131.33	RNT(1)APEAQESGLPSGLR	3	0.050889	20567.8	17674.6
Map1b	0.998977	7.80E-34	99.954	KAS(0.999)DAEIMS(0.001)SQSALA	3	0.35772	19347.6	19971.5
Map3k4	0.939239	4.65E-27	82.885	NLSDIGWPVFEIPS(0.939)PRPS(0.0	4	1.2237	3102.8	3464.8
Ndr1	0.963662	1.98E-40	126.25	TASGSSVTSLEGT(0.036)RS(0.964)F	3	0.21343	68238.0	68194.1
Ogn	0.995078	2.89E-58	151.52	YGT(0.005)DNS(0.995)EETK	3	0.06851	233669.8	239017.7
Lrrc8c	0.976136	0.00100911	57.095	S(0.004)QS(0.02)LKS(0.976)IPEK	3	0.8719	16862.1	17688.8
Ythdc2	0.642515	1.53E-07	57.148	GS(0.179)KS(0.643)PS(0.179)PRPN	4	0.098893	10580.7	10294.5
Hecw1	0.989524	1.01E-44	165.51	REGS(0.01)LS(0.99)PVNSQK	3	1.3145	125398.3	135205.7
Fam129a	1	3.41E-22	142.55	TSMGSNQAS(1)PAR	2	-1.0486	13464.2	12537.7
Sgsm1	0.999247	7.78E-71	102.21	LQSDSSSST(0.001)QVFES(0.999)VI	3	0.7272	5270.7	4809.3
Bnip3	0.999999	3.67E-54	138.76	SSHCHDS(1)PPR	2	0.10676	59481.3	61372.4
Prr12	0.970401	0.00166912	86.189	S(0.029)PS(0.97)PQGT(0.001)K	3	0.088139	42149.3	41271.4
LOC10254	0.644732	3.73E-18	75.912	S(0.539)RT(0.407)HS(0.168)T(0.64	3	0.08365	43438.6	42323.4
C2cd5	0.912641	9.83E-73	157.7	S(0.002)QS(0.078)ES(0.913)S(0.00	3	0.8169	83528.1	88466.2
Yeats2	0.788464	6.51E-06	53.565	LPVASQAS(0.014)QGT(0.788)GS(0	2	-0.89245	16610.4	14975.1
Cep350	0.999861	2.32E-22	76.21	GHHDDS(1)DEDASPDKTTLCSTK	4	0.69046	10120.6	11197.3
Nsf1c	0.79948	0.00147427	40.031	VT(0.799)KS(0.187)PGET(0.007)S(i	4	-0.0066068	15865.0	17476.0
Ctnna1	0.571545	2.72E-05	50.392	SAAGEFADDPCS(0.572)S(0.428)VK	3	0.25146	11590.9	12831.7
Slmap	0.993235	0.0139459	40.767	NQT(0.007)EDS(0.993)LRK	3	0.94912	6688.7	6692.9
Gapdh	0.997323	3.96E-05	48.907	VPT(0.002)PNVS(0.997)VVDLT(0.0	3	0.64872	5201.9	4530.5
Ppp2r5b	0.943447	8.97E-05	89.171	RS(0.943)HS(0.044)S(0.01)S(0.002	2	-0.13149	12940.6	13708.1
Rbm14	1	0.0350714	49.16	DRS(1)PLRR	2	-0.35031	16386.2	14505.6
Acaca	0.994134	3.50E-08	101.89	S(0.003)S(0.003)MS(0.994)GLHLV	3	-1.1324	208730.8	203565.5
Elac2	0.917159	1.03E-52	121.21	AALLTQQADS(0.917)S(0.083)EDRE	4	0.3166	61049.7	54011.0
Nefh	1	0.0020191	45.28	AAAPEEET(1)PAK	3	-0.0028759	29509.3	25756.7
Arhgef6	0.705244	0.0272094	45.368	ES(0.005)S(0.29)KS(0.705)PK	3	0.82561	74481.6	70645.7
Sun2	0.998549	1.19E-08	107.53	RGT(0.999)GGSESS(0.001)K	3	-0.74864	25119.0	26047.3
Trpm4	0.999462	1.53E-09	95.751	NT(0.001)RHS(0.999)LLGQDHR	3	0.58375	11542.6	12411.6
Kif13b	0.921981	4.61E-14	82.244	RS(0.078)S(0.922)GLQPQGAPEAR	2	0.38897	46311.7	48720.6
Speg	0.938067	8.11E-37	103.69	S(0.019)LS(0.938)PAKEVVS(0.03)S	3	0.4596	16484.0	21729.9
Fhdc1	0.63347	3.14E-08	57.41	EHELV(0.002)GLT(0.365)QFDLQS	3	-0.24852	10861.4	12065.0
Ahnak	1	4.18E-55	99.987	ADLDVS(1)GPKVDIDVPDVNIEGPD,	3	0.69252	91261.4	81657.6
Ahnak2	0.782415	1.34E-58	94.185	PQGS(0.213)S(0.782)PVYEY(0.002	3	0.62203	6792.9	6934.0

10610.3	10019.8	10499.2	11497.0	0.0	1.0	432
18576.9	19539.7	19005.8	18112.0	0.0	1.0	315
18735.6	16854.7	19528.4	21507.0	0.0	1.0	1471;1345
3123.0	2768.5	3752.5	3142.1	0.0	1.0	315
65065.6	65579.6	70727.1	64620.0	0.0	0.9	342
261273.8	206561.4	236352.0	288970.0	0.0	1.0	38
15866.4	15418.1	18518.5	16338.0	0.0	1.0	215
9567.9	10075.0	10941.8	9340.4	0.0	1.0	1233
123583.6	126825.4	131721.0	124560.0	0.0	0.9	927
11851.6	12109.5	13287.5	12350.0	0.0	1.0	595
5814.0	5264.8	4690.7	5893.8	0.0	1.0	678
52857.3	57580.7	59073.6	56569.0	0.0	1.0	60
43607.7	41551.0	42541.6	42581.0	0.0	0.9	912
41901.1	39813.0	44805.0	42689.0	0.0	0.9	163
86688.5	84053.4	83267.7	90641.0	0.0	0.9	627;652
18118.1	17535.6	16918.8	15111.0	0.0	1.0	532
10112.0	10951.2	10498.3	9893.0	0.0	1.0	1616
14160.8	15499.5	17535.4	14335.0	0.0	1.0	138
12445.7	11602.4	12667.7	12496.0	0.0	0.9	117
6404.1	6317.9	6166.5	7246.6	0.0	1.0	108
4435.7	4393.6	4932.6	4802.7	0.0	1.0	239
12564.9	13115.9	12929.5	13061.0	0.0	0.9	44
15710.9	16090.2	15157.6	15228.0	0.0	0.9	215
181915.4	197255.8	194268.8	201070.0	0.0	1.0	79
56321.7	52205.2	59623.9	59088.0	0.0	1.0	800
26971.6	27262.5	27047.4	27705.0	0.0	1.0	950;920
69065.5	72008.9	76334.3	65270.0	0.0	1.0	468
25910.2	25079.1	24461.3	27328.0	0.0	0.9	116
12122.0	11467.1	12147.3	12365.0	0.0	0.9	527
46557.9	45838.6	45536.0	49836.0	0.0	0.9	1869
17703.9	20259.1	19357.4	16153.0	0.0	1.0	2850
12228.5	12429.5	11834.2	10798.0	0.0	1.0	680
86737.4	83005.2	92178.0	83787.0	0.0	1.0	1274
6818.2	6230.7	6724.9	7535.8	0.0	1.0	30;30

Stard8	0.936135	0.00360888	62.271	VT(0.004)T(0.059)S(0.936)PRVR	3	-0.090437	6774.2	5527.2
Cfl1	0.986699	3.48E-15	89.471	LGG(0.013)AVIS(0.987)LEGKPL	2	-0.35075	56807.3	57087.8
Mgll	0.989822	3.28E-66	144.5	NKSEVDLY(0.01)NS(0.99)DPLICHA	4	0.42582	158411.7	144397.9
Scn10a	0.963273	2.62E-70	118.68	APS(0.963)QDIS(0.036)FPDGIT(0.0	3	-1.1414	58081.1	57916.0
Ppm1h	0.5	2.68E-07	56.817	S(0.5)S(0.5)LPNGEGLQLK	2	-0.064755	28491.9	29436.8
Myef2	0.922182	0.00487506	87.639	MS(0.001)S(0.076)S(0.922)FDR	2	0.74091	8860.3	8201.4
Rcsd1	0.985	6.02E-05	109.44	S(0.985)S(0.015)PLIEK	2	-0.35937	57555.1	55031.1
Sh3bp5	0.836385	1.79E-08	54.237	SECS(0.005)GAS(0.159)S(0.836)PE	3	1.0496	8016.7	7565.5
Ltbp4	0.730147	8.82E-07	70.654	GSFPEPEES(0.73)S(0.27)ER	2	0.062069	47523.5	47959.3
Arcn1	0.994545	0.00593483	91.265	RT(0.005)S(0.995)EAAK	2	0.26135	8022.7	6123.1
Tex2	1	0.00233692	43.761	S(1)LDIREPEILK	3	1.0858	25970.6	24344.9
Kif13b	0.820661	1.08E-41	114.08	LEVT(0.157)S(0.821)DS(0.022)EDA	3	-0.83382	164410.9	171250.3
Tmem132c	0.5	2.83E-10	62.287	RPT(0.5)RDS(0.5)EEEEEEQR	3	1.9948	1459.7	1240.4
Tmem132d	0.5	2.83E-10	62.287	RPT(0.5)RDS(0.5)EEEEEEQR	3	1.9948	1459.7	1240.4
Vim	0.800863	0.0457737	46.022	S(0.001)YVT(0.005)T(0.068)S(0.80	2	-0.78197	12166.5	9855.9
Abl1	0.934052	0.000153969	62.338	HS(0.003)S(0.063)ES(0.934)PGRDI	3	-0.15552	12049.6	11941.0
Ubr4	0.869154	0.00102545	62.466	HAS(0.112)T(0.869)S(0.019)PADK	3	-0.2986	10521.7	10481.2
Frm4a	0.99716	0.00281931	99.34	SVDIS(0.997)PT(0.003)R	2	0.13411	5304.3	5371.9
Taok2	1	5.19E-20	72.755	AGS(1)LKDPDVAELFFKDDPEK	4	0.92891	17055.3	17689.9
Vps26b	0.965564	1.28E-07	86.413	S(0.034)MS(0.966)HQAAIASQR	3	-0.054721	33637.1	33482.2
Ndr4	0.999997	1.03E-49	154.01	RLS(1)GGAVPSASMTR	2	0.21819	140927.0	130072.2
LOC50103	1	0.00124359	53.448	EIPS(1)PVDLEK	3	0.072812	12548.2	11609.7
Tmem230	0.525356	0.000443342	46.415	Y(0.001)S(0.155)RLS(0.525)S(0.15	3	-1.8686	9004.5	7978.5
Srrm2	0.997226	3.61E-05	105.13	S(0.005)LS(0.992)Y(0.006)S(0.997)	2	-0.7097	85641.5	78128.9
Atxn2l	0.87367	5.65E-40	118.96	GPHHLDNS(0.126)S(0.874)PGPGSI	3	0.78195	11419.9	9162.6
Slc35f6	1	0.000784753	59.155	HPT(1)QEGEQER	3	-1.4325	3993.3	3836.1
Acsbg1	0.658128	2.15E-26	114.25	AAS(0.341)LDAS(0.658)EEALWT(0	3	0.46853	102843.6	107316.7
LOC100361	0.99863	2.33E-28	106.28	GATADDS(0.001)GGGS(0.999)PVL	2	0.45096	44364.1	46683.6
Matr3	0.996173	7.69E-15	84.249	S(0.001)YS(0.007)PDGKES(0.996)F	3	-2.3565	503096.1	536994.7
Srrm1	0.999995	5.28E-05	82.75	VSVS(1)PGR	2	-0.15411	63530.5	63556.3
Adrm1	0.844533	5.40E-11	63.846	S(0.001)QS(0.006)AAVT(0.845)PS(	2	0.85544	10135.2	9021.5
Srrm2	0.999933	0.000211262	88.803	ERAPS(1)PASR	2	0.08344	27380.3	27428.4
Dpysl2	0.984608	4.66E-30	127.49	GLYDGPVCEVS(0.015)VT(0.985)PK	4	-1.178	665455.5	688006.9
Ccnt2	0.998394	0.000414326	115.06	HS(0.002)S(0.998)PHISR	3	-0.88634	21253.5	21620.2

6253.7	6017.0	6806.9	5682.7	0.0	1.0	185
56769.9	53569.1	59537.4	57113.0	0.0	0.9	160
148315.3	141916.8	150080.3	157950.0	0.0	1.0	196
60917.7	57520.2	59903.9	59030.0	0.0	0.9	510
28038.4	28173.3	30537.6	27033.0	0.0	0.9	122
11089.3	8835.6	11090.4	8152.7	0.0	1.0	377
61927.0	58592.7	54620.5	60854.0	0.0	1.0	52
7875.8	7933.9	8035.9	7428.3	0.0	0.9	378
51770.3	47326.9	44284.6	55266.0	0.0	1.0	1455
6501.2	6833.5	7134.4	6626.8	0.0	1.0	259
25392.8	25416.8	25522.4	24578.0	0.0	0.9	532
171279.6	165115.0	170983.0	169570.0	0.0	0.9	1779
1176.3	1306.8	1152.9	1407.1	0.0	1.0	563
1176.3	1306.8	1152.9	1407.1	0.0	1.0	560
11751.5	11364.8	11359.7	10965.0	0.0	1.0	34
11246.9	11404.4	12163.3	11582.0	0.0	0.9	878
10425.8	9491.6	10174.2	11685.0	0.0	1.0	1762
5099.7	5691.5	5409.6	4636.1	0.0	1.0	727
16654.2	15811.9	16506.3	18955.0	0.0	1.0	9
32912.3	32012.1	35141.3	32634.0	0.0	0.9	304
130535.8	131060.2	132736.3	136760.0	0.0	0.9	298
13621.0	12939.9	10869.2	13878.0	0.0	1.0	442
8210.7	8695.1	8074.2	8363.2	0.0	1.0	23
76671.3	78974.9	80946.6	79939.0	0.0	0.9	2651
9964.8	11268.0	9767.0	9438.6	0.0	1.0	389
4267.1	3599.9	4786.3	3681.1	0.0	1.0	352
104113.5	100530.8	106666.7	106320.0	0.0	0.9	74
50529.0	48224.4	46702.9	46309.0	0.0	1.0	500
451695.7	497896.8	484854.4	505450.0	0.0	1.0	604
59038.7	61340.4	67918.7	56423.0	0.0	1.0	346
9805.4	10327.6	9914.3	8651.5	0.0	1.0	217
26682.1	26685.0	28289.1	26324.0	0.0	0.9	2384
632024.7	684955.9	662837.1	633030.0	0.0	0.9	509;610
18200.1	20837.6	22283.4	17810.0	0.0	1.0	404

Depdc5	1	0.0403267	40.725	KFS(1)GQQR	3	0.16893	13028.8	13986.8
Usp9x	0.64175	2.42E-24	99.407	EICSLFGEAPQNLS(0.642)S(0.144)S	2	-0.039213	4816.6	4330.8
Fgd1	1	0.0319917	50.703	RRS(1)ILEK	2	1.1513	28193.7	28113.9
Braf	0.747848	4.89E-87	159.86	S(0.126)S(0.126)S(0.748)APNVHIN	3	0.66721	17658.8	16506.4
Sytl3	0.743928	8.09E-43	94.594	ISVVPPT(0.039)PPPLS(0.017)ES(0.1	3	0.42231	7732.9	8314.3
Zfr2	0.741601	6.72E-13	60.618	QELQDS(0.258)LS(0.742)DPEDILDI	3	-0.7783	5836.0	5757.5
Add2	0.534022	0.0182643	47.894	FRT(0.534)PS(0.466)FLK	3	0.36438	7240.6	6422.7
Slc4a4	0.992035	8.51E-64	113.33	GS(0.008)LDS(0.992)DNDDEKDPQ	5	-0.6886	105940.9	91181.0
Srrm2	0.972253	8.86E-30	86.08	S(0.003)S(0.003)S(0.014)PVT(0.03	2	0.33172	148285.8	144134.6
Zswim8	1	0.000158384	71.176	VLGGPGS(1)GGK	2	0.25984	10456.0	10055.4
Map1a	0.999884	1.32E-73	145.25	KVAELEEESQS(1)QGSSSYSDWVK	4	0.016819	138350.8	162486.0
Spire1	0.674734	3.44E-07	69.864	SRLDVT(0.022)T(0.675)PES(0.303)	3	0.052128	53062.3	58995.4
Fgd6	0.8579	1.97E-05	66.989	AVQHET(0.026)S(0.858)S(0.117)Ff	3	-0.94689	7108.8	7759.5
Ogfr	0.999884	7.55E-65	146.68	IALNLEECALS(1)PISQEPR	3	-0.64639	24260.3	25448.4
Ube4b	0.994137	2.20E-21	126.07	S(0.003)QS(0.994)MDIDGVS(0.002	2	0.041812	324027.2	333363.4
Ncoa2	1	0.0049646	88.495	QEPAS(1)PK	3	0.51321	54351.6	52830.7
Dync1i2	0.881427	0.00203766	62.463	MS(0.881)DKS(0.119)ELK	4	-0.38629	21375.2	22859.7
Nvl	0.999488	4.40E-22	87.676	ESLPLDLS(0.999)DDQS(0.001)NCK	4	0.7128	6108.1	6625.0
Cds2	0.603931	9.84E-111	149.64	EDAPPEDKES(0.396)ES(0.604)EAK	4	-0.85518	57385.8	66258.0
Mtcl1	0.941751	6.43E-34	98.062	THVLT(0.004)EQS(0.942)GVHVLHS	4	0.70608	18595.1	18317.4
Tcf20	0.964274	1.96E-14	121.45	S(0.017)LT(0.964)PPPS(0.017)S(0.1	2	-0.45211	70506.4	74287.5
Dst	0.999875	6.64E-10	96.464	AMVDSQQKS(1)PMK	4	0.40449	166438.4	171195.5
Epb41l2	0.999993	7.07E-24	93.5	GLS(1)PAQADSQFLENAK	4	0.099353	35373.7	34464.0
Myct1	0.998814	2.54E-07	80.507	QAS(0.999)LELANS(0.001)FPR	3	0.2026	9000.1	8274.5
Rab3gap2	0.66925	2.77E-06	89.035	AS(0.127)S(0.669)PQT(0.204)EPLP	2	0.22761	35049.3	36736.8
Osbp	0.668127	5.71E-22	82.765	GATVLPANT(0.025)PGS(0.076)T(0	5	-0.76633	18133.5	18295.4
Tbc1d10b	0.729512	2.29E-23	62.405	VTVTPAPETTENFQDLGS(0.01)T(0.1	3	-0.4761	7930.1	6652.5
Wapal	0.977999	8.05E-06	82.515	RT(0.004)ES(0.978)PS(0.017)ES(0.	2	-0.46061	52687.8	51869.8
Sym	0.993257	5.27E-07	77.776	AVES(0.001)VVRES(0.993)LT(0.001	3	0.561	15577.6	15214.2
Cit	1	0.000985756	50.452	DKS(1)PGRPLER	4	0.67024	12340.7	11178.7
Sptbn1	0.61589	9.50E-23	67.033	T(0.001)S(0.001)S(0.001)IS(0.006)	3	2.1741	14782.1	15061.7
Scrib	0.98257	0.000442546	84.06	VS(0.983)PT(0.017)GAAGR	2	-0.10959	9669.1	10327.7
Chchd3	0.917591	0.00151622	75.509	ES(0.055)S(0.918)PS(0.026)GS(0.0	2	0.37891	35030.2	34904.9
C2cd5	0.968467	7.66E-31	88.09	LSSPAFLPACNS(0.968)PS(0.032)P	4	0.26934	75103.0	79105.1

13533.7	13495.4	13458.5	13501.0	0.0	0.9	1374
4305.3	4012.7	4791.7	4617.2	0.0	1.0	588
27597.6	25808.4	29491.4	28411.0	0.0	1.0	810
17915.8	17547.7	17942.5	16470.0	0.0	1.0	340
8069.1	7537.6	8196.9	8326.0	0.0	1.0	169
5609.7	5767.6	5523.7	5872.9	0.0	0.9	636
5601.9	6310.4	6864.5	6047.0	0.0	1.0	710;658;753
103629.1	99380.3	93846.2	106850.0	0.0	1.0	1029
143854.4	140761.8	152345.9	142190.0	0.0	0.9	1076
10085.0	9701.1	10155.0	10672.0	0.0	0.9	589
131163.9	136989.0	151287.9	142760.0	0.0	1.0	352
56894.5	54247.8	54174.9	60153.0	0.0	1.0	384
6724.1	7021.7	7437.0	7085.6	0.0	1.0	399
26200.8	26713.6	24476.2	24551.0	0.0	1.0	403
320105.9	311167.6	332337.6	331820.0	0.0	0.9	105
53587.7	52222.8	54109.7	54082.0	0.0	0.9	736
17702.9	20684.7	23604.2	17512.0	0.0	1.0	2
6341.4	6296.7	6387.7	6348.0	0.0	0.9	32
50543.9	66029.5	47037.4	60740.0	0.0	1.0	22
17828.5	17496.0	18532.4	18593.0	0.0	0.9	1160
69975.7	72578.6	68630.4	73092.0	0.0	0.9	1703
150955.6	161507.1	164998.6	161020.0	0.0	1.0	1497;1560
37902.3	34207.6	34129.3	39169.0	0.0	1.0	381;381;381
8715.4	9313.8	8033.2	8586.7	0.0	1.0	101
32425.8	36424.1	34577.0	32986.0	0.0	1.0	644
18463.0	17906.2	18114.6	18753.0	0.0	0.9	213
7498.2	7158.8	7460.4	7414.3	0.0	1.0	234
55518.9	52669.4	53960.1	53105.0	0.0	0.9	225
15643.8	15435.7	15553.0	15348.0	0.0	0.8	1036;1036
11021.2	12083.1	11474.0	10910.0	0.0	1.0	1563
14664.4	14220.3	14251.4	15942.0	0.0	1.0	14
10460.4	9868.6	9899.1	10625.0	0.0	1.0	1124;1124;1124
29135.0	31553.4	35210.7	32097.0	0.0	1.0	40
74310.9	75145.9	77676.5	75216.0	0.0	0.9	260;260



Akap12	0.735761	2.25E-32	69.537	QEQS(0.193)S(0.736)T(0.064)EIPL	4	-1.5416	17635.0	15711.1
Borcs6	0.981266	0.00110223	47.243	RAT(0.981)IS(0.016)S(0.003)PLELE	3	-1.5365	23275.1	23874.4
Myo18a	0.980351	6.35E-83	115.67	S(0.98)RDES(0.018)AS(0.002)ETST	4	-0.024485	4908.2	4482.4
Tpd52l1	0.999278	2.96E-06	80.102	NSPT(0.001)FKS(0.999)FEER	3	0.54352	22997.2	25858.7
Slc9a6	0.874195	5.11E-63	113.52	LVLPMDDS(0.002)EPALNS(0.013)L	3	-0.26806	67163.4	63169.1
Atp1a1	0.63263	5.93E-05	66.023	IVEIPFNS(0.367)T(0.633)NK	3	0.080377	13912.6	13855.1
Ahctf1	1	0.00323482	56.205	CLVAGLLS(1)PR	2	-1.7845	6711.0	6703.9
Il16	1	0.0145189	49.3	ALS(1)PDPLLR	2	0.38233	3478.3	3665.8
MAST1	0.619242	1.11E-23	68.046	S(0.19)AS(0.619)AT(0.19)ALSVMIF	3	1.3231	8674.0	9082.0
Rab11fip5	0.999907	9.37E-06	80.905	ASLAPLAS(1)PGK	3	0.54534	33132.6	32079.3
Sept5	0.999797	5.50E-63	109.25	FGIHVYQFPECDS(1)DEDEDFKQQD	4	-0.21237	233085.3	234103.6
Uhrf1bp1	0.717935	4.64E-10	57.735	T(0.209)VS(0.718)QQS(0.073)FDG	3	1.8796	5600.7	5947.4
Cacna1e	0.503476	0.00228346	48.527	KHLLS(0.503)PDVS(0.497)R	3	1.0342	20594.0	20937.9
Zfp800	0.684445	0.000111438	50.116	S(0.034)AS(0.684)PS(0.281)AAGGI	2	0.50986	13251.9	12723.1
Zyx	0.941086	3.17E-09	56.882	VNPFPRGDS(0.059)ES(0.941)PVA/	4	-0.93294	2099.6	2519.0
Ethe1	0.999991	4.31E-30	127.59	RLS(1)QQSASGAPVLLR	2	-0.95221	51192.2	53884.8
Tusc5	0.984601	6.40E-32	95.429	RAS(0.985)S(0.973)VVT(0.017)T(0	3	1.0225	203006.0	202753.7
Sgip1	0.64428	8.12E-30	77.221	AVPAT(0.224)PPRT(0.553)GS(0.55	3	0.16311	33372.4	35440.2
Cep170b	0.953852	1.66E-09	85.469	S(0.046)GRS(0.954)PEPDPAPPK	2	0.080697	30803.3	33910.0
Ccdc115	0.993771	8.91E-13	64.377	ANAQIPEEVGPS(0.006)EAS(0.994)	3	0.49095	7702.3	6898.3
Pikfyve	0.947363	3.49E-13	67.76	FDDS(0.947)DT(0.053)EQIAEEGDC	3	-1.1024	20263.6	17936.8
Camk2g	0.691651	3.84E-26	110.57	S(0.692)S(0.134)S(0.134)S(0.027)\	2	-0.27425	47007.1	42694.1
Hecw1	0.819778	1.15E-70	164.97	GS(0.82)T(0.144)T(0.036)EEEDAM	3	0.64639	24684.9	21714.5
Fxr2	0.999967	1.62E-83	120.42	TVMDGGLES(1)DGPNTENGLEDE!	4	0.37935	54810.8	52008.0
Gapvd1	0.640701	9.24E-16	60.419	S(0.152)S(0.152)S(0.641)LDMT(0.(	4	0.19345	9722.7	9649.6
Ahi1	0.993117	0.000315215	67.519	ERS(0.993)PPLT(0.007)PK	2	1.8232	61086.7	61298.9
Cep170b	0.994108	4.45E-29	79.589	ES(0.006)LLS(0.994)PPAVPDPGVM	3	1.5712	17847.3	16260.7
Nphp4	0.717885	1.11E-07	42.032	S(0.001)FKPPPQPLDGS(0.28)QS(0.	4	0.50364	5814.4	6363.6
Parp8	0.937258	0.0088159	78.516	S(0.006)YS(0.056)S(0.937)APK	2	0.6345	18952.9	18113.4
Nelfa	0.935754	2.57E-21	72.302	EASRPPEEPS(0.042)APS(0.936)PT(	3	1.5562	25877.6	24321.9
Sec31a	0.499987	1.21E-23	56.1	KLPENFMPPVPIT(0.5)S(0.5)PIMNP	4	-0.076905	9854.6	9433.1
Sec31a	0.499987	1.21E-23	56.1	KLPENFMPPVPIT(0.5)S(0.5)PIMNP	4	-0.076905	9854.6	9433.1
Zdhhc5	1	1.59E-79	102.75	LLRQS(1)PPLAGR	3	0.97085	34724.9	37511.2
Ncor2	0.999994	6.72E-12	59.536	LEPVS(1)PPS(1)PPHADPELELTPSR	4	0.15451	26967.7	28836.8



21773.0	17474.0	16841.8	20689.0	0.0	1.0	236
21509.0	22768.1	23268.7	22480.0	0.0	1.0	201
4851.1	4855.0	5040.4	4317.2	0.0	1.0	145
21947.6	23117.9	24177.0	23364.0	0.0	1.0	154
67746.4	65623.6	68805.7	63247.0	0.0	1.0	647
14112.9	13195.1	14625.5	13975.0	0.0	0.9	485
7917.2	6521.9	7536.7	7230.4	0.0	1.0	528
3465.0	3267.2	3991.3	3329.2	0.0	1.0	931
9042.7	8932.8	8803.2	9008.9	0.0	0.9	916
34574.2	33986.6	34971.4	30629.0	0.0	1.0	529
221509.4	226855.7	227150.9	233320.0	0.0	0.9	234
5935.0	6198.4	5598.7	5651.3	0.0	1.0	1097
19381.8	20458.2	20333.1	20002.0	0.0	0.9	2076
13590.2	13494.3	12759.6	13233.0	0.0	0.9	462
2266.9	2632.6	2274.1	1965.2	0.0	1.0	46
52589.1	51570.5	54670.8	51115.0	0.0	0.9	14
195447.0	200082.7	202305.0	197640.0	0.0	0.9	84
34435.8	33255.1	34763.0	35028.0	0.0	0.9	296
35809.2	33591.7	33492.4	33243.0	0.0	1.0	871
7222.3	6339.7	7407.9	8032.8	0.0	1.0	100
17658.2	19523.2	18137.0	18090.0	0.0	1.0	506
42794.3	44187.6	44837.1	43215.0	0.0	1.0	355
25481.1	22826.4	24593.8	24322.0	0.0	1.0	569
55394.4	54366.6	55505.4	52029.0	0.0	0.9	568
9056.6	9126.4	9622.3	9625.6	0.0	0.9	454
63949.8	62707.6	61292.1	61980.0	0.0	0.9	975
16344.4	15982.4	17810.0	16564.0	0.0	1.0	1009
4910.2	6062.3	5485.7	5508.0	0.0	1.0	531
16346.5	18241.7	18088.9	16982.0	0.0	1.0	434
25796.3	25358.5	25907.1	24588.0	0.0	0.9	363
10056.2	9277.0	10011.3	10001.0	0.0	1.0	908
10056.2	9277.0	10011.3	10001.0	0.0	1.0	907
37389.2	37938.7	35228.9	36254.0	0.0	1.0	554
26533.0	27382.4	27965.3	26837.0	0.0	1.0	149

Cmtr1	0.535318	5.07E-24	83.251	HLS(0.001)S(0.005)T(0.021)S(0.53	3	-0.28855	16734.5	15889.9
Pde4d	0.737989	1.04E-10	68.845	LMHS(0.003)S(0.221)S(0.738)LT(0	2	-1.2093	14723.6	15357.9
Osbp13	0.916524	3.99E-43	115.38	QNS(0.917)FPAGS(0.083)NLSFSCG	3	-1.6467	67019.0	65580.2
LOC68412	0.993235	2.40E-22	89.468	KNS(0.006)GGGY(0.001)S(0.993)H	5	-0.66248	41475.4	38185.8
Ctnnd1	0.997724	1.13E-22	145.92	GS(0.998)LAS(0.975)LDS(0.028)LR	2	0.4083	190482.8	190172.1
Ubqln1	0.996294	0.00179707	40.432	ALS(0.996)NLES(0.004)IPGGYNALF	2	-0.42292	5930.6	6378.6
Tab3	0.513988	7.55E-33	97.49	TLVHS(0.072)S(0.414)S(0.514)DGF	3	-0.072654	12467.1	12546.5
Polr2a	0.826941	1.72E-12	69.431	YSPTSPTY(0.008)S(0.011)PT(0.153	3	-0.52774	17505.0	17651.6
Zfhx3	0.667189	1.98E-31	71.098	GDIFDGTFSFS(0.001)HLPPS(0.158)C	5	0.13464	12226.2	11511.0
Slc15a2	0.750846	6.81E-70	119.99	NES(0.056)KET(0.075)LFS(0.876)P	4	-0.47579	58951.8	62036.0
Zcchc8	0.951708	1.22E-05	77.42	SSS(0.001)QS(0.004)S(0.044)PNS(I	3	-0.28631	10349.8	9420.0
Nefl	0.601953	3.12E-129	148.33	S(0.022)YS(0.119)S(0.119)S(0.602	5	0.10056	46376.1	46238.3
Isyna1	0.989064	0.000987432	80.755	AT(0.011)S(0.989)PLPCKK	3	0.34157	134331.5	143059.6
Map2	0.870747	2.00E-14	75.682	S(0.019)DT(0.069)LQIT(0.871)DLL	2	-0.19296	55284.3	54624.2
Whsc1	1	0.000296313	87.878	RGVGS(1)PAGR	2	-0.55014	10114.0	10938.5
Sympk	0.999905	5.95E-71	127.58	DERS(1)PQNLSHAVEEALK	4	-1.0417	84476.3	83613.4
Robo4	0.878394	0.00029518	72.531	YT(0.122)S(0.878)EDAILK	2	3.0114	63256.1	62187.4
Ncoa1	0.882187	1.82E-07	48.773	LLQEGS(0.882)PS(0.088)DIT(0.02)	4	1.5135	14798.8	13529.3
H1f0	0.90096	2.51E-07	64.52	T(0.009)ENS(0.901)T(0.052)S(0.01	2	0.60382	4062.7	3866.5
Eno3	0.622748	1.87E-08	55.621	AAVPS(0.008)GAS(0.357)T(0.623)C	3	-0.39717	12814.1	13301.2
Dennd4b	0.994724	5.79E-05	97.452	S(0.005)APS(0.995)S(1)PAPR	2	0.25081	11121.1	11576.8
Elavl4	0.912077	2.15E-23	93.106	NCPS(0.083)PMQT(0.912)GAAT(0.	2	-0.56348	166080.6	176833.6
Zc3h18	0.996191	2.73E-06	127.51	LGVSVS(0.996)PS(0.004)R	2	-0.83119	109160.0	110974.9
Lats1	0.770893	4.94E-05	86.772	QIT(0.085)T(0.771)S(0.144)PITVR	2	0.57568	13075.3	14653.7
Caskin2	0.71551	0.000163276	85.909	S(0.716)PS(0.285)QES(1)IGAR	2	-0.35868	21117.6	20274.3
Cdk16	0.964618	6.49E-05	76.728	KIS(0.965)T(0.035)EDINK	2	3.2834	37887.8	35463.3
Rps6ka4	0.562719	5.31E-55	133.15	S(0.563)S(0.429)PPLRT(0.008)PDV	3	0.56482	25455.4	25523.0
Nr3c1	0.998752	3.33E-59	141.45	DLEFS(0.001)AGS(0.999)PGK	3	-1.8418	135118.7	119651.5
Ssr1	0.997948	1.12E-136	164.65	VEMGTSSQNDVMSWIPQET(0.00	5	0.010357	179462.5	178270.6
Epb41l3	0.66878	0.0460252	60.91	FLT(0.669)LGS(0.331)K	2	-0.28226	13173.1	12587.1
Abca8a	0.979891	1.60E-09	59.539	S(0.017)AIDS(0.98)DIGET(0.003)EI	3	-0.3195	11172.9	10400.3
Dennd5a	0.623689	7.61E-07	69.878	T(0.003)PPLQQS(0.373)PS(0.624)\	2	1.012	21102.1	22072.1
Ttbk1	0.973151	8.10E-29	91.292	APPDS(0.973)PT(0.021)T(0.006)PV	2	-1.1192	60886.3	62869.7
Kars	0.905653	5.21E-26	80.316	ETAT(0.001)AT(0.025)ET(0.906)PE	3	-0.16658	15388.0	19373.7

16505.1	15731.6	16050.0	17257.0	0.0	1.0	30
14894.3	14717.5	15643.9	14532.0	0.0	0.9	312
69470.0	64306.9	66705.8	70691.0	0.0	1.0	191
43384.2	38825.3	42220.0	41778.0	0.0	1.0	291
206263.7	191063.0	200157.0	194650.0	0.0	1.0	346
6133.6	6340.2	5930.9	6139.0	0.0	1.0	251
11796.2	12300.8	12044.7	12399.0	0.0	0.9	103
16180.4	17118.7	17969.2	16158.0	0.0	1.0	1920
12551.1	11452.8	12489.2	12282.0	0.0	1.0	2778
60587.7	60058.9	61273.9	59922.0	0.0	0.9	30
8660.9	9623.1	8709.7	10048.0	0.0	1.0	209
42339.7	43853.2	46152.6	44712.0	0.0	1.0	60
145547.2	141542.8	133837.0	146820.0	0.0	1.0	524
61188.2	55505.1	56953.4	58340.0	0.0	1.0	1347;1261
10161.5	10005.9	10708.9	10445.0	0.0	1.0	437
90832.1	84849.8	85667.8	87955.0	0.0	1.0	1370
57238.3	62394.1	57743.1	62228.0	0.0	1.0	519
14455.7	13473.4	14702.4	14534.0	0.0	1.0	699
4302.6	3752.2	4114.2	4344.6	0.0	1.0	5
12689.5	12783.7	13266.1	12689.0	0.0	0.9	41;41;41
11019.0	10831.9	11645.0	11183.0	0.0	1.0	696
157002.8	167457.9	159409.6	172210.0	0.0	1.0	50
111457.4	106502.5	110294.7	114240.0	0.0	0.9	553
14960.3	13708.8	14531.4	14378.0	0.0	1.0	612
21275.8	20777.1	21590.9	20196.0	0.0	0.9	694
34899.0	34601.4	35397.8	38072.0	0.0	1.0	110
24574.1	25510.3	26047.1	23872.0	0.0	1.0	681
125340.3	124702.4	119559.9	135230.0	0.0	1.0	223
185439.3	175839.6	184202.1	182250.0	0.0	0.9	269
13671.1	12021.5	13593.2	13753.0	0.0	1.0	505;505;505;404;404;404
10369.1	11368.1	11625.8	8896.9	0.0	1.0	793
22160.5	21488.8	21196.6	22544.0	0.0	1.0	1087
62413.6	59966.5	63918.8	61986.0	0.0	0.9	441
17294.0	16633.6	18013.1	17326.0	0.0	1.0	587

Cyp2d4	0.999774	0.000565551	112.13	RFS(1)VSTFR	3	-0.95967	1583.0	1255.2
Plekha4	0.693589	3.91E-16	65.741	AEGEDWPF(0.01)PLS(0.073)RPPS	4	0.63814	4474.2	4534.3
Snap23	0.889303	8.42E-08	58.98	AHQVT(0.001)DES(0.889)LES(0.05	4	1.588	13652.6	12761.5
Itpkb	1	0.00658067	40.242	ILS(1)PPGPPEEAQR	2	1.7913	6972.3	7127.9
Kcnq2	0.652044	7.96E-05	45.82	EPEPAPPY(0.337)HS(0.652)PEDS(C	3	-0.015194	4042.1	4891.0
Grasp	0.999927	6.15E-23	152.31	NFTQS(1)PEQQR	3	0.22014	46512.1	48217.1
Map1a	0.926609	8.51E-20	63.706	PAS(0.927)PALS(0.748)EGS(0.14)S	3	-1.2919	41159.4	41158.4
Dbnl	0.674186	3.76E-09	55.988	QFT(0.031)QPEAS(0.674)YGREPT(I	4	0.10871	10675.3	11458.4
Sphkap	0.768172	7.82E-15	79.393	NPLHT(0.23)LS(0.768)YDS(0.001)S	3	-0.25121	19841.4	18916.3
Tacc2	0.875991	1.49E-11	55.662	LDNT(0.024)PAS(0.224)PPRS(0.87	4	-0.93732	37799.6	36511.9
Tacc2	0.875991	1.49E-11	55.662	LDNT(0.024)PAS(0.224)PPRS(0.87	4	-0.93732	37799.6	36511.9
Ccdc132	0.999897	0.00304052	100.69	SVS(1)RETLK	2	0.17923	75178.2	73599.7
Piezo2	0.991084	0.000894259	100.82	RGS(0.991)S(0.009)ESLK	2	0.35732	63489.9	69756.1
Sh3d19	0.788164	0.00347969	43.592	AS(0.788)GEWDS(0.212)WAENR	2	0.49168	22885.1	22859.7
Ret	0.99624	5.03E-43	131.13	RPS(0.996)LDS(0.004)MENQVSVD	3	0.43988	155155.7	152723.5
Lasp1	0.68301	1.42E-15	90.422	QS(0.683)FT(0.317)MVADTPENLR	3	1.0602	4585.4	5954.2
Map1b	0.99507	2.59E-26	78.098	SPSLS(0.001)PS(0.004)PPS(0.995)F	4	-2.4155	128081.8	135666.4
Dcun1d4	0.988447	0.000427909	45.614	RRPAS(0.988)GDDL(0.012)AK	3	1.1272	21257.1	21343.8
Crocc	1	1.67E-05	71.08	GLFGQRT(1)PT(1)PPR	3	0.26365	6407.0	7646.0
Crocc	1	1.67E-05	71.08	GLFGQRT(1)PT(1)PPR	3	0.26365	6407.0	7646.0
Srrm2	0.573052	6.95E-57	101.34	VGIFSSQS(0.005)VS(0.573)S(0.422	3	-0.088595	22473.7	23107.6
Atrx	0.999718	5.90E-53	147.06	YVESDDEKPT(1)DENVNEK	3	0.14887	162920.0	190084.4
Rtn4	0.651663	4.50E-09	50.029	AS(0.007)IS(0.068)PS(0.254)NVS(C	3	-0.8869	6153.3	6669.6
Nefh	1	1.01E-52	127.16	S(1)PAEVKS(1)PAVAKS(1)PAEVK	5	0.70787	1014588.6	1079462.9
Osbp110	0.950045	1.01E-38	117.29	SSPGS(0.002)VAAS(0.95)PS(0.048)	3	1.4794	27956.4	26777.9
RGD15621	0.999976	5.67E-05	97.463	S(1)LDYLNLDK	2	-1.1216	31397.3	30867.2
Atp7a	0.877223	4.92E-29	81.477	VSISS(0.001)EVES(0.877)PT(0.114)	3	0.28313	39195.0	38689.3
Ralgapb	0.581399	2.04E-39	81.304	T(0.217)NS(0.581)GIS(0.142)S(0.0	4	-1.0966	23175.0	22700.7
Cep170	0.647042	7.19E-05	54.859	CS(0.001)T(0.007)S(0.259)S(0.647	2	0.0062667	10932.1	8734.5
Epb41l1	0.999998	1.44E-32	110.44	MLAS(1)PEDFETVREEDR	3	-0.24209	128654.3	136138.1
Tbc1d9b	0.971636	1.60E-13	106.42	REEKET(0.972)S(0.028)PPDYR	3	-0.050223	79677.0	82841.2
Lrch1	0.999862	5.43E-07	80.632	NLESIDPQFT(1)IR	3	-0.72798	10255.6	10924.9
Yap1	0.762423	2.45E-15	68.97	QS(0.238)S(0.762)FEIPDDVPLPAG'	3	-0.64245	19946.4	20963.1
Prkaa2	0.611425	5.28E-21	61.504	IADFGLS(0.013)NMMS(0.611)DGE	3	-2.2955	11288.8	11268.6

1746.7	1571.2	1516.5	1489.9	0.0	1.0	138
4197.1	5142.1	3875.0	4167.6	0.0	1.0	169
13901.0	13511.9	13068.4	13672.0	0.0	1.0	20
7760.0	7357.2	7186.7	7282.2	0.0	1.0	125
4576.8	4927.4	4294.3	4267.4	0.0	1.0	681
44573.4	45703.3	50288.2	43097.0	0.0	1.0	93
42971.1	42504.6	41798.9	40794.0	0.0	0.9	2459
11467.3	11053.5	12131.2	10365.0	0.0	1.0	304
19570.2	20818.9	19070.0	18351.0	0.0	1.0	872
36785.5	37168.7	34822.8	38938.0	0.0	1.0	2211
36785.5	37168.7	34822.8	38938.0	0.0	1.0	2216
67968.9	67150.3	75031.6	74242.0	0.0	1.0	583
63895.6	66126.3	65961.0	64762.0	0.0	1.0	2137
24848.7	23847.1	23737.8	22904.0	0.0	1.0	341
148698.5	150331.5	154301.5	151270.0	0.0	0.9	697
4975.0	5406.4	5217.9	4867.3	0.0	1.0	25
129694.7	127397.3	137844.4	127620.0	0.0	1.0	1257;1131
20055.7	20295.4	21403.9	20865.0	0.0	1.0	11
6604.6	5879.0	7172.7	7575.7	0.0	1.0	330
6604.6	5879.0	7172.7	7575.7	0.0	1.0	332
21416.3	21454.7	23026.1	22419.0	0.0	1.0	1361
171567.1	175784.6	161001.9	187020.0	0.0	1.0	95
6842.1	6300.5	7118.6	6217.5	0.0	1.0	927
987050.9	1049614.5	1007870.1	1019200.0	0.0	1.0	550;550
23438.1	27093.1	25344.0	25624.0	0.0	1.0	66
31133.3	31643.6	29116.3	32506.0	0.0	1.0	167
40015.6	39049.7	39297.2	39388.0	0.0	0.9	353
24335.6	22984.8	23041.0	24088.0	0.0	1.0	644
10820.0	10169.3	9242.1	11033.0	0.0	1.0	1025
138552.5	133381.1	131079.9	138330.0	0.0	1.0	669;661
68155.2	76633.1	81430.7	72296.0	0.0	1.0	961
11638.7	10748.1	11508.2	10519.0	0.0	1.0	549
21704.9	19304.3	20979.6	22247.0	0.0	1.0	146
11576.9	10978.3	12595.0	10516.0	0.0	1.0	75;176

Ccdc86	0.997797	0.00138938	43.761	VIAS(0.998)PQAPAS(0.002)K	3	0.54241	5648.8	6001.0
Sorbs3	0.503365	2.33E-26	75.625	LSSAWRPNS(0.42)PHAPY(0.225)FC	4	0.022137	44099.3	43831.6
Sorbs3	0.503365	1.06E-15	59.748	LSSAWRPNS(0.42)PHAPY(0.225)FC	4	0.022137	44099.3	43831.6
Mllt4	0.603829	3.35E-06	61.11	TQVLS(0.391)PDS(0.604)LFT(0.004	2	0.53521	4709.7	4765.8
Prph	0.781836	7.02E-12	71.601	ISVPVHS(0.002)FAS(0.216)LS(0.78	3	1.2849	9247.6	9287.6
Trpa1	0.947262	0.00752221	46.796	FNVS(0.947)VHS(0.053)K	3	1.0328	13093.2	13420.8
Pkp4	0.547971	0.000385833	40.158	DGWNQNHFIT(0.548)PVS(0.226)T	3	0.17376	11939.9	12057.3
LOC10368	0.565159	2.17E-19	75.524	S(0.003)S(0.003)DAVS(0.503)ET(0	3	0.2479	18231.3	19090.7
Hrh1	0.783742	1.99E-12	100.22	S(0.108)GS(0.784)NS(0.108)GLDYI	3	0.91477	36659.4	35616.8
Gap43	0.857129	2.50E-93	149.53	EGDGSATT(0.003)DAAPAT(0.857)S	3	0.63016	121927.6	118697.2
Fam21c	0.996931	9.06E-107	178.32	GLFS(0.997)DEEDS(0.003)EDNLFG	4	0.079932	75429.8	72781.4
Prrc2b	0.776953	2.49E-10	59.55	S(0.003)PDEALPGGLGS(0.22)HS(0.	3	-0.99655	9874.0	9880.8
Srsf1	0.973515	1.61E-06	56.424	VDGPRS(0.98)PS(0.046)YGRS(0.97	4	1.2311	7916.5	8860.2
Pi4kb	1	1.30E-37	151.96	S(1)VENLPECGITHEQR	2	-0.98137	36332.6	35655.2
Hnrnp1	0.726357	6.37E-25	59.525	TENAGDQHGGGGGGGS(0.031)GA	6	-0.55615	7630.2	8596.9
Sgce	0.603546	1.78E-22	88.574	NMQTPDIQLVHHS(0.604)S(0.396)	3	-1.6232	23563.8	26096.7
Lmo7	0.952615	5.27E-33	134.88	S(0.012)HS(0.953)PS(0.035)MSQS	3	-1.2413	32061.6	31243.4
Atp11c	0.816328	5.60E-19	147.26	RAS(0.816)DS(0.184)LSAR	2	-1.201	18933.8	18116.6
LOC10255	0.986431	0.0005606	56.295	S(0.986)PVAQT(0.01)S(0.003)SHR	3	-0.52872	3860.0	3956.1
Aff1	0.991094	5.61E-15	77.899	NCPKS(0.991)PAQQET(0.009)PPPF	3	-0.20856	9650.6	10576.2
Cys1	0.999942	2.94E-38	80.36	TAAVQECCGPDRPAT(1)PPGGREE	4	-0.37594	83955.1	80759.3
LOC68995	0.728664	0.000394768	44.998	T(0.198)GS(0.729)QT(0.05)RPT(0.1	3	0.52322	12879.7	12986.4
Map1a	0.999963	1.27E-36	106.88	S(0.005)PFEIIS(0.995)PPAS(1)PPEN	3	-0.26359	302582.8	295848.9
Adgr1	0.996986	0.0011866	44.44	S(0.003)PPGGAHGS(0.997)LK	3	-1.0867	17799.5	20244.7
Lonrf1	1	2.45E-07	80.96	VCS(1)EPVLCAQ GK	2	2.0711	50233.3	45149.0
Ank3	0.999649	5.25E-06	55.707	RQS(0.78)FT(0.11)S(0.11)LALRPQS	3	-2.6718	107471.2	104924.3
Dgkq	0.999992	1.52E-21	113.13	LGS(1)PAGS(1)PVLGISGR	3	-0.30371	122201.9	124587.6
Tnks1bp1	0.992215	3.95E-64	147.28	SSGS(0.008)LS(0.992)PGLLETEDPLE	2	-0.029278	93693.3	87485.5
Peak1	0.842809	1.24E-29	111.75	S(0.005)T(0.005)S(0.146)S(0.843)F	3	0.33382	21281.0	21078.3
Map2	0.984027	6.49E-16	119.65	VTDGIT(0.016)KS(0.984)PEKR	4	0.25289	154475.8	150781.9
Rab18	0.984955	0.000488549	43.861	KHS(0.985)MLFIEAS(0.015)AK	4	-1.1912	2171.2	2041.7
Myo9a	1	3.08E-26	77.959	AAS(1)ACEAQMGMEGPLGQAK	3	-1.4945	20999.5	19544.8
Ap3d1	0.544006	2.76E-22	81.016	HS(0.455)S(0.544)LPT(0.014)ES(0.	3	-0.76327	10358.5	12583.8
Ppfia1	0.8146	1.58E-24	131.96	RS(0.164)S(0.815)DGS(0.511)LS(0.	2	0.045197	77918.9	78925.2

5976.3	5344.2	5836.9	6421.9	0.0	1.0	200
41112.2	45378.8	42022.3	41474.0	0.0	1.0	343
41112.2	45378.8	42022.3	41474.0	0.0	1.0	344
4256.1	4487.8	5030.9	4195.0	0.0	1.0	1729
8582.6	9446.6	8535.2	9100.8	0.0	1.0	453
11532.2	12008.3	13244.8	12744.0	0.0	1.0	439
11746.2	11162.4	12918.8	11616.0	0.0	1.0	1012
20667.9	19482.5	18760.0	19673.0	0.0	1.0	706
37372.1	35811.4	35532.4	38164.0	0.0	1.0	379
123551.7	117948.7	115018.1	130750.0	0.0	1.0	95
76126.2	73399.2	77134.7	73521.0	0.0	1.0	531
9857.1	9795.5	9195.1	10584.0	0.0	1.0	1503
7425.5	7275.5	9480.3	7416.4	0.0	1.0	205
35120.4	34115.3	35119.9	37740.0	0.0	1.0	428;413
8059.1	8216.0	8145.8	7894.5	0.0	1.0	89
26309.4	23516.0	25453.0	26909.0	0.0	1.0	362
32781.4	31117.9	34149.6	30704.0	0.0	1.0	1322;1305
18216.0	17629.1	18144.5	19427.0	0.0	1.0	1105
3830.7	3738.3	3866.5	4028.2	0.0	1.0	327
10917.9	10044.8	10914.1	10149.0	0.0	1.0	583
86647.0	84410.9	91740.9	74913.0	0.0	1.0	55
11987.9	11283.4	13189.2	13337.0	0.0	1.0	25
292159.1	296956.1	298931.8	293660.0	0.0	0.9	2005
18583.3	17606.0	19794.5	19161.0	0.0	1.0	1128
47016.7	47539.2	48621.2	46073.0	0.0	1.0	419
105993.6	109954.2	106875.1	101190.0	0.0	1.0	1421
119772.2	122568.5	122017.8	121550.0	0.0	0.9	26
91211.1	91713.5	95949.3	84411.0	0.0	1.0	1360
20598.7	21570.2	20694.3	20621.0	0.0	1.0	875
150167.8	154357.3	152677.2	147870.0	0.0	0.9	1622;1536
2205.5	2084.1	2149.9	2177.1	0.0	1.0	144
19131.6	19911.5	20558.6	19139.0	0.0	1.0	2542
11063.8	12872.8	10630.1	10466.0	0.0	1.0	755
77932.9	77034.6	77913.8	79580.0	0.0	0.9	239



Myo9a	0.917936	4.62E-48	89.391	KQPDS(0.918)LDS(0.082)VSSSVSS(	4	0.34341	9773.4	9063.6
Klc1	0.961992	2.54E-26	82.189	YESGPDGGEEDGT(0.038)GS(0.962	3	0.7743	23184.5	22578.9
Erf	1	0.000280167	47.726	GDMGPGEGGGLT(1)PR	2	2.1871	19149.7	19175.2
Camk2b	0.688147	2.22E-32	77.469	GS(0.044)LPPAALEPQT(0.688)T(0.	4	-0.20254	16998.1	16979.1
Ccnl1	0.554336	6.62E-48	85.044	GLNLDGT(0.001)PALS(0.076)T(0.3	3	-1.1291	23771.3	21947.1
Lrrk2	0.828055	2.37E-14	126.25	S(0.043)NS(0.828)VS(0.129)VGEV'	2	-0.027548	30731.8	32878.9
Rasip1	0.997835	0.000742203	64.313	SVS(0.002)ELS(0.998)LQGR	2	0.64981	39267.8	35929.4
Ssrp1	0.615077	0.000107093	78.903	STPSRGS(0.615)S(0.34)S(0.045)K	3	0.80863	17737.5	18026.7
Sdpr	0.987638	5.45E-22	126.25	S(0.739)S(0.261)PFKVS(0.988)PLS(	2	-0.44394	146377.6	141929.8
Amer2	1	1.50E-17	135.81	RPDS(1)PGQDAPR	2	0.39096	21233.3	21713.4
Phf2	0.995386	8.08E-36	132.31	GSDDAPYS(0.995)PT(0.005)AR	2	-0.0053348	46799.5	44164.0
Inadl	0.965113	3.96E-37	107.21	APS(0.965)ADT(0.035)EESEEDSAL'	4	0.31002	35361.8	35229.6
Psm5	0.969119	3.04E-11	84.75	IT(0.03)S(0.969)PLMEPSSIEK	2	-0.54349	40770.6	40044.0
Ranbp3	0.752559	1.52E-19	49.737	VLSQTVPS(0.003)S(0.003)GT(0.00	4	-1.0435	7771.9	8060.9
Mon2	0.868415	0.00498857	88.181	T(0.132)DS(0.868)JIGEK	2	0.041886	49613.1	49063.9
Kcnj10	0.959214	5.14E-21	117.97	VASPGGLRDS(0.959)T(0.041)VR	3	0.74286	108291.7	105527.6
RGD13046	0.994716	4.06E-07	89.911	VTSFS(0.001)T(0.004)PPT(0.995)P	2	-0.79532	26409.5	28564.8
Map7d2	0.981604	0.0111018	63.624	S(0.018)DAS(0.982)LEVK	2	-1.2173	17947.4	17648.3
Clasp1	0.999993	3.98E-21	102.36	LLGS(1)GYGGLAGGSSR	2	-0.5635	11702.5	11055.8
LOC102551	0.789	7.20E-06	83.541	YLGGS(0.789)GGAS(0.211)GR	2	0.27733	20572.5	20194.2
Pdcd4	0.951005	6.15E-66	126.27	NS(0.033)S(0.951)RDS(0.016)GRG	3	0.036563	2440.8	2655.7
Camsap2	0.5	6.78E-18	135.14	SESVGFSL(0.5)PS(0.5)R	2	-1.667	11086.1	10714.9
Srrm1	0.999995	7.55E-05	71.176	RYS(1)PS(1)PPPK	4	-0.42963	249997.5	277464.6
Reps2	1	7.16E-16	91.657	RGEDPPT(1)PPPRPQK	3	1.3155	39747.2	38645.4
Mapk8ip3	0.983588	0.00103442	70.552	S(0.007)T(0.009)HPS(0.984)PEK	3	0.097084	78205.2	84450.4
Stmn1	1	1.99E-09	120.49	S(1)HEAEVLK	2	-1.6476	115353.6	110601.9
Sphkap	0.782201	3.63E-19	74.703	VFVNS(0.001)LGLMS(0.085)T(0.11	3	1.9517	13990.1	13732.3
Prkcd	1	0.00251245	82.029	GFS(1)FVNPK	2	-1.5515	293184.5	289157.7
Efr3a	0.999991	1.59E-41	130.02	LSVPYVPQVTDEDRLS(1)R	3	0.096764	31930.4	31676.7
Sptan1	0.999588	8.86E-11	62.203	LIQSHPE(1)AEDLKEK	4	1.055	4443.3	5913.5
Specc1	0.992895	0.0169016	47.154	S(0.993)PLS(0.007)GIPVR	2	-1.4895	8153.6	7708.9
C5ar1	0.998914	8.04E-12	73.037	NVLS(0.001)EDS(0.999)LGR	2	-0.49117	106111.5	103287.7
Cebpz	0.827334	4.74E-15	84.508	EAEPES(0.827)S(0.141)T(0.031)ET	4	2.2982	9053.6	9999.0
Mid1	0.990656	0.0338018	60.102	KS(0.009)HT(0.991)PER	3	-0.23337	11648.4	12088.0

9735.2	10152.5	9184.5	9205.2	0.0	1.0	2504
22600.2	22234.6	22703.3	23354.0	0.0	1.0	546
19604.3	19756.4	18236.4	19876.0	0.0	1.0	530
17843.4	17134.1	14705.6	19927.0	0.0	1.0	381;357
22823.8	21850.7	22610.4	24010.0	0.0	1.0	244
29671.6	29856.2	33013.6	30316.0	0.0	1.0	909
38856.2	35951.1	40819.0	37166.0	0.0	1.0	324
17816.8	17346.4	18319.8	17860.0	0.0	1.0	647
148336.6	127749.3	146500.4	161950.0	0.0	1.0	292
20905.3	22527.2	20970.0	20290.0	0.0	1.0	243
45651.8	45305.1	46186.8	44985.0	0.0	1.0	782
35088.5	33811.7	34072.6	37690.0	0.0	1.0	1217
43391.6	39873.5	42760.7	41451.0	0.0	1.0	56
7608.1	7842.9	8684.9	6890.5	0.0	1.0	138
45994.7	46814.3	49108.5	48610.0	0.0	1.0	1212
101899.0	109316.2	100439.7	105660.0	0.0	1.0	345
28101.2	32584.1	26012.9	24400.0	0.0	1.0	293
19313.7	16984.5	19213.1	18660.0	0.0	1.0	588
11724.9	12510.9	11570.2	10370.0	0.0	1.0	696;696
18985.8	19567.2	20536.1	19595.0	0.0	1.0	365
2993.2	2867.3	2742.2	2473.0	0.0	1.0	68
11351.2	10291.1	12146.2	10685.0	0.0	1.0	1291
252192.4	251571.8	259231.6	268150.0	0.0	1.0	540
39462.0	37735.2	39539.8	40474.0	0.0	1.0	341;467
76327.4	76232.7	82005.6	80531.0	0.0	1.0	754
120038.4	112602.9	120703.3	112380.0	0.0	1.0	63
13178.1	14236.8	13444.6	13183.0	0.0	1.0	1132
281981.1	298254.1	278306.9	287000.0	0.0	1.0	662
30638.3	30215.9	31299.5	32649.0	0.0	1.0	692
5563.2	5038.9	5475.3	5392.4	0.0	1.0	1286
7860.0	7473.8	7748.8	8480.1	0.0	1.0	838
97746.9	100735.4	106578.0	99577.0	0.0	1.0	329
8502.3	8543.3	9967.5	9021.8	0.0	1.0	664
10723.1	11572.7	11333.0	11526.0	0.0	1.0	518;538

Hnrnpk	0.999161	8.97E-53	120.42	GS(0.999)Y(0.001)GDLGGPIITTQV	4	1.4024	59685.3	55390.9
Evi2b	0.594893	3.58E-06	54.812	T(0.096)S(0.096)VVS(0.595)LMPV	3	0.57303	6828.1	6398.1
Clasp2	0.758601	1.22E-21	85.61	S(0.007)S(0.002)S(0.046)S(0.149)S	3	-0.2102	48517.0	47110.3
LOC10255	1	3.29E-15	85.176	MGPAAAS(1)GGERPNLK	3	-0.64128	17397.6	17027.4
Gapvd1	0.999961	0.00181947	69.672	QRHS(1)YPER	3	1.3417	5011.3	4533.7
Hdac9	0.587863	2.21E-10	50.042	T(0.167)QS(0.588)APLPQS(0.123)T	3	1.7854	6814.3	7181.7
Tmem151	0.835425	0.00729184	62.894	S(0.165)LS(0.835)GGPLGR	2	-1.6682	23943.0	25214.8
Rab7a	0.999994	5.78E-05	89.507	FQS(1)LGVAFYR	3	-1.7657	30382.3	31768.8
RGD13104	1	0.00464372	71.614	RKS(1)EDQK	3	0.42404	17714.9	17673.5
Mapt	0.876303	1.28E-16	93.115	S(0.007)GY(0.001)S(0.105)S(0.876	2	1.31	19576.6	21091.5
Bud13	0.992936	2.89E-06	67.902	RGHDS(0.902)PDPS(0.993)PT(0.10	3	0.32301	12805.8	14139.2
Ndel1	0.931543	5.54E-13	63.691	MDSAVQAS(0.054)LS(0.932)LPAT(	3	0.91177	11769.4	12170.3
Sh3pxd2b	0.573111	1.38E-105	140.31	KAS(0.034)S(0.175)DLS(0.573)AS(	4	0.79381	103773.8	100021.1
Gramd1b	0.999754	9.51E-16	90.385	SSIETKPDAS(1)PQLPK	4	-1.2042	198783.9	226370.3
Arhgef2	0.999842	1.67E-31	81.65	SVSTTNIAGHFNDES(1)PLGLR	3	1.05	10511.2	10869.3
Rer1	0.562865	4.29E-05	45.618	VDPSLMEDS(0.424)DDGPS(0.563)	3	0.077795	3803.7	4377.2
Nefh	0.740026	4.30E-22	141.59	T(0.138)S(0.134)VS(0.74)S(0.033)	3	0.53243	11272.1	11049.2
Cnm1	0.980477	0.000592019	41.256	GDS(0.027)LAGS(0.98)PVNRS(0.52	3	-0.45976	10797.1	11969.5
Cnm1	0.528943	0.000592019	41.256	GDS(0.027)LAGS(0.98)PVNRS(0.52	3	-0.45976	10797.1	11969.5
Map4	0.970661	4.04E-59	121.69	ES(0.015)EGS(0.971)PDT(0.015)D/	5	1.3347	125183.6	119980.5
Zfp260	0.795635	1.89E-07	56.304	KT(0.008)HGGEKS(0.197)PECT(0.7	4	-0.019637	11230.9	12874.5
Abcc5	0.999142	8.02E-98	188.54	T(0.001)RS(0.999)LECQDALETAAR	2	0.26839	52516.1	52972.2
Aqp1	0.999997	3.34E-71	105.21	VWTSGQVEEYDLADADDINS(1)RVEN	4	-0.50751	17452.5	18423.8
Map1b	0.881991	2.14E-19	63.869	LGGDGS(0.003)PT(0.008)QVDVS(C	5	1.7538	7133.1	5438.9
Ablim1	0.861001	3.85E-50	154.74	T(0.861)LS(0.139)PTPSAEGFQDGR	2	-0.52413	11352.5	11127.1
Map1a	0.98965	1.54E-93	146.25	KHS(0.01)PGEIT(0.99)GPGGHFMT:	4	0.039866	163838.4	173926.8
Srrm2	0.917351	1.78E-15	128.85	SSS(0.075)VS(0.917)S(0.007)PELK	2	-0.13301	100867.3	100623.3
Ahnak	0.999787	5.55E-94	172.52	KGDRS(1)PEPGQTWAHEVFSSR	3	-0.018812	121939.5	120507.1
Arhgap28	0.714686	3.03E-06	47.648	S(0.268)NS(0.715)QAS(0.017)VDS:	3	2.3266	9337.0	8898.4
Pgam2	0.999995	0.000445371	76.1	HY(1)GGLTGLNK	3	-0.2229	14410.0	16049.0
RGD13115	0.770482	2.65E-05	52.862	PAS(0.03)QT(0.947)PPS(0.243)S(0	3	-1.4005	8823.9	7569.7
RGD13115	0.94743	2.65E-05	52.862	PAS(0.03)QT(0.947)PPS(0.243)S(0	3	-1.4005	8823.9	7569.7
Zscan30	0.983415	0.032399	62.107	ET(0.017)S(0.983)PVQR	2	-0.38734	7216.8	7262.2
Hid1	0.827555	3.60E-09	46.412	RLS(0.828)NAS(0.114)AS(0.048)G(	3	1.6817	8712.3	8517.7

59937.2	58579.5	54606.6	61687.0	0.0	1.0	379
7238.2	6692.9	6619.8	7135.5	0.0	1.0	248
47739.6	46833.0	49917.4	46504.0	0.0	1.0	327;560
17314.3	15899.9	19145.8	16653.0	0.0	1.0	179
4542.6	4180.4	5172.6	4723.6	0.0	1.0	892
6932.1	7486.7	6469.9	6955.4	0.0	1.0	458
27413.5	25211.1	26365.6	24936.0	0.0	1.0	165
31216.4	30639.4	32557.3	30100.0	0.0	1.0	72
14208.7	17123.1	16728.6	15708.0	0.0	1.0	364
17017.2	19428.6	18100.7	20113.0	0.0	1.0	444;528
12295.6	12706.7	12812.0	13693.0	0.0	1.0	186
12497.8	11459.4	12492.4	12459.0	0.0	1.0	215
110776.0	105556.5	102238.2	106550.0	0.0	1.0	503
200397.6	192943.9	213953.2	218210.0	0.0	1.0	268
11655.7	11257.0	10388.1	11368.0	0.0	1.0	356
4358.6	4025.6	4502.1	4003.2	0.0	1.0	100
10221.4	11352.7	10800.8	10367.0	0.0	1.0	56;56
12124.1	11171.2	11755.1	11941.0	0.0	1.0	698
12124.1	11171.2	11755.1	11941.0	0.0	1.0	703
138957.1	123558.5	129797.5	130510.0	0.0	1.0	260;260
11746.2	12237.1	11579.8	12011.0	0.0	1.0	54
50372.5	52629.8	50551.1	52578.0	0.0	1.0	43
19776.8	17571.9	19252.7	18793.0	0.0	1.0	262
6791.0	6175.9	6910.4	6264.5	0.0	1.0	1501;1375
11937.8	10840.8	11789.3	11766.0	0.0	1.0	456;357
177135.1	160891.1	180579.4	173110.0	0.0	1.0	1523
98771.1	98791.8	100644.9	100640.0	0.0	0.9	1382
123328.1	122898.5	120981.2	121670.0	0.0	0.9	94
9025.7	9273.5	9528.6	8442.6	0.0	1.0	17
15802.5	14751.6	16363.1	15119.0	0.0	1.0	92;92
8320.6	8662.3	8421.0	7616.1	0.0	1.0	1073
8320.6	8662.3	8421.0	7616.1	0.0	1.0	1069
7988.6	7524.5	7679.0	7250.8	0.0	1.0	87
8697.6	8724.9	8241.2	8946.1	0.0	1.0	669

Svil	0.518747	1.92E-06	55.66	VPAGDS(0.028)S(0.356)LDS(0.519	3	0.71799	16646.2	16541.5
Magi3	0.998186	8.16E-39	88.945	QS(0.002)PALQHRPMGQAQAT(0.9	4	0.037284	13712.2	13924.2
Trps1	0.998957	4.32E-16	65.855	SDLLVS(0.001)DNPDPAPLS(0.999)	3	1.1466	8458.4	8200.9
Plekha4	0.558587	2.85E-22	86.189	VLS(0.441)LS(0.559)QALATEASQM	3	1.0795	5600.5	5066.8
Gpatch8	0.999936	2.01E-06	76.01	S(1)LPAAEEGNSGK	3	0.23995	20437.8	24842.9
Trim3	1	2.86E-30	123.83	REDS(1)PGPEVQPMDK	3	0.21554	362359.9	380048.1
LOC68779	0.941162	1.11E-29	87.352	S(0.027)S(0.027)S(0.941)LPVS(0.0	2	-0.40598	79188.0	82520.9
Msn	1	0.000465283	89.827	RAQS(1)EAEK	2	-0.21523	20930.3	22065.5
Prrt3	0.996441	2.44E-42	88.944	GSVGPAPSLSELDLRPPS(0.996)PINI	3	3.1457	13374.7	14394.8
Akap12	0.783834	1.19E-70	122.51	EPTKSPESPSPVSETT(0.01)S(0.20	5	-0.43133	63649.7	65694.2
Dst	1	2.73E-20	101.04	VHT(1)PEFGEDGGTLK	3	-0.0086448	42886.4	41817.7
RGD13115	0.947651	4.34E-05	47.621	AGS(0.052)VHKPAAPS(0.948)EEK	4	0.41161	12242.9	12550.9
Lrrfp2	0.996634	6.11E-118	157.2	RGS(0.997)GDT(0.003)SSLIDPDTSL	4	0.07666	328607.0	344771.3
RGD15620	0.975143	0.00246032	53.08	EVNS(0.025)LS(0.975)QMR	2	-0.19191	9833.5	8501.2
Dnm3	1	6.53E-22	142.95	S(1)PPPS(0.708)PT(0.285)T(0.008)	2	-0.53406	230020.2	244787.5
Clasp2	0.944122	6.07E-63	108.5	RYESYGMHS(0.055)DDDANS(0.94	4	0.55555	4512.6	3930.8
Rapgef2	0.5	0.00214585	68.847	RS(0.5)S(0.5)FLNAK	3	0.2816	55661.2	54412.5
Mpz	0.934943	2.82E-07	77.367	AGGRGS(0.056)AMES(0.935)S(0.0	4	0.61507	38158.6	35430.3
Clip1	0.991158	6.05E-24	95.854	TASESISNLS(0.991)EAGS(0.009)VK	3	0.098376	126245.1	131245.9
Dnm1l	1	4.69E-10	85.563	SKPIPIMPAS(1)PQK	3	-0.20719	981849.5	1017651.8
Ndel1	0.9817	0.000117184	69.03	GTENS(0.018)FPS(0.982)PK	2	-1.3758	47051.2	48775.4
Herc1	0.8819	3.45E-73	143.37	S(0.045)RS(0.882)ES(0.073)DLSQP	3	0.0821	10464.5	12124.2
Kctd12	0.997808	8.43E-133	189.49	S(0.998)PS(0.002)GGAAGPLLTSPQ	2	-1.2754	233264.3	234224.2
Plec	0.773001	5.46E-105	208.66	T(0.064)S(0.163)S(0.773)EDNLYLA	3	-1.1701	35069.5	33379.1
Mark3	0.99633	3.87E-48	117.23	VRPSSDLNST(0.004)GQS(0.996)P	4	-0.36861	22835.0	23136.1
Bmp2k	0.896879	0.000542454	83.045	NGSS(0.103)S(0.897)PICK	2	0.69077	20236.2	22372.7
Ret	0.858562	9.46E-07	91.307	NS(0.007)S(0.134)S(0.859)LDHPDI	2	-0.058976	19446.6	20350.0
Ogn	0.937649	3.57E-52	154.74	Y(0.001)GT(0.004)DNS(0.114)EET(	3	-2.3715	259205.0	246805.8
Fam73b	0.917401	0.00139134	101.48	VQS(0.917)PS(0.055)S(0.027)K	2	0.13198	76918.3	77578.2
Prkar1b	0.986067	7.26E-27	83.395	GGVS(0.986)AEVY(0.01)T(0.004)EI	3	0.36902	27236.0	26707.7
Usp34	0.812959	1.02E-27	101.17	QS(0.18)S(0.813)FAS(0.007)LLNTN	3	0.11542	10526.8	9104.5
Pi4k2a	0.985599	1.78E-09	73.296	SSSESY(0.004)T(0.008)QS(0.986)FI	3	-0.11171	20917.2	20696.6
Ralgps2	0.996153	7.17E-26	92.369	KSSAAEGALLPQT(0.004)PPS(0.996	3	-0.30627	39309.5	43692.3
Zfyve28	0.623746	4.06E-07	43.349	SPTSLDS(0.001)AAAS(0.624)QEVP	3	1.0163	5486.2	5754.5

16541.3	15979.1	16796.9	16924.0	0.0	1.0	1041;673
13706.2	13130.2	13523.7	14665.0	0.0	1.0	968
8751.3	8925.5	8378.1	8092.4	0.0	1.0	220
5083.5	4904.6	5182.7	5654.4	0.0	1.0	677;605
23658.5	20468.1	23054.9	25377.0	0.0	1.0	538
355377.5	351635.1	375072.6	370470.0	0.0	1.0	7
82606.6	78763.7	84395.1	81022.0	0.0	1.0	17
19773.6	22563.5	19124.5	21047.0	0.0	1.0	384
15159.4	13300.7	13445.7	16159.0	0.0	1.0	804
67162.9	60614.4	65790.0	69995.0	0.0	1.0	283
44259.3	42415.5	41991.3	44488.0	0.0	1.0	3176;3239
11737.7	12922.3	11146.0	12444.0	0.0	1.0	1248
306042.0	322442.2	356285.9	300180.0	0.0	1.0	96
9136.9	8824.6	8684.1	9948.6	0.0	1.0	1109
223713.2	229000.6	235080.3	234080.0	0.0	1.0	759
4016.9	3374.1	4432.3	4647.7	0.0	1.0	644;846
54665.1	53738.5	55948.9	54975.0	0.0	1.0	758;1115
35576.1	34327.5	39445.8	35342.0	0.0	1.0	264
126958.6	125978.4	127157.9	131140.0	0.0	1.0	199
927675.8	1027769.3	938248.0	959860.0	0.0	1.0	624
43220.2	44351.5	45802.1	48833.0	0.0	1.0	231
12126.3	10677.3	12063.9	11959.0	0.0	1.0	1512
235339.1	232982.5	242518.0	227050.0	0.0	1.0	187
37030.4	32984.5	37171.7	35282.0	0.0	1.0	21
17546.4	21091.7	22301.5	20100.0	0.0	1.0	400
22506.5	20201.9	22991.9	21897.0	0.0	1.0	667
20293.1	21315.0	19571.1	19181.0	0.0	1.0	838
282651.8	211764.2	281181.6	295430.0	0.0	1.0	41
76692.5	76555.0	77665.8	76891.0	0.0	1.0	111
28344.0	27371.4	28989.1	25900.0	0.0	1.0	79
9160.4	9944.6	8948.9	9888.7	0.0	1.0	487
19715.0	19831.2	21166.6	20311.0	0.0	1.0	467
43953.7	43143.7	42442.3	41331.0	0.0	1.0	329
5000.2	5119.2	5563.7	5553.1	0.0	1.0	529



Map1a	0.771476	1.51E-38	79.304	LS(0.016)S(0.014)FAT(0.198)S(0.7	3	-1.5893	23432.6	23797.6
Dock9	0.640489	0.00892847	40.278	ALS(0.36)KPGT(0.64)AAELR	2	-0.46208	10533.3	10291.8
Grip2	1	0.000116302	91.123	RQS(1)IPEEFR	2	1.2602	9339.4	9827.6
LOC10369	1	3.06E-15	77.031	EGS(1)KDLIHPQAIEEK	3	0.10064	103003.4	100476.3
Synpo2l	0.499991	1.28E-06	51.31	AELAS(0.5)S(0.5)PVPNPDHLESLR	3	-0.49819	7108.6	7538.7
Txlna	0.994239	2.20E-17	70.987	EQGVES(0.994)PGAQPS(0.004)S(0	3	0.88618	37105.5	40989.5
Ranbp3	0.908356	6.79E-14	67.563	ET(0.005)T(0.004)HAQS(0.908)GS	4	2.1065	18276.6	18164.9
Pex1	0.999925	7.43E-09	104.94	QLSQS(1)PGHKR	3	0.11003	20496.2	19170.8
Col14a1	0.999999	1.01E-29	119	VTWHPLS(1)AEEGQHK	3	-1.2818	50511.2	58348.2
Dcp1a	0.981685	1.04E-59	170.79	AS(0.018)CPS(0.982)PLTIGAENQR	3	0.47143	57635.0	58065.2
Rnf169	0.795559	1.29E-06	83.351	S(0.201)QS(0.796)CS(0.004)DTIQ	3	2.2816	8752.6	8830.6
Rgcc	0.91606	1.36E-138	168.87	DSFTFS(0.003)DEKLNS(0.916)PT(0	3	1.6707	54511.4	51586.8
Eef1b2	0.999533	0.00797166	79.986	LAQYES(1)KK	3	0.57008	95923.6	72332.8
R3hdm1	0.994942	0.025061	46.462	S(0.005)IGRLS(0.995)K	3	-0.48757	9914.0	8475.6
Ahnak	1	2.83E-11	78.814	AEGPEVDVS(1)LPK	3	-1.4803	15193.5	16446.0
Myo1c	0.951737	5.23E-05	41.115	VLQALGS(0.952)EPIQY(0.048)AVP	3	0.70368	5390.6	5546.4
Ubr4	0.840283	1.62E-08	42.344	S(0.152)NT(0.84)PMGDKDDDDDD	4	1.3298	23195.2	22752.2
Top2b	0.999997	3.05E-43	148.06	KAS(1)GS(1)ENEGDYNPGR	3	-0.52163	112126.2	125596.7
Ep400	0.862627	3.77E-39	77.939	VAVS(0.001)AMAVGEPGLAS(0.86	4	-1.9969	12635.2	13792.6
Dst	0.809731	1.08E-07	57.366	VQPEFY(0.188)HS(0.81)VQGAS(0.	3	1.8335	15371.3	16914.4
Thop1	0.751876	1.04E-43	91.819	MKPPAACAGDVVDT(0.247)VS(0.7	4	-1.2099	14364.6	15594.8
Sin3a	0.505244	1.52E-07	85.271	YMSSDT(0.071)T(0.424)S(0.505)PI	3	0.10217	7690.3	8120.9
Shroom2	0.964703	5.16E-05	62.732	IVHS(0.017)ES(0.965)QPEKES(0.01	4	0.53344	34147.6	32906.3
RGD13054	0.999975	3.17E-21	74.364	RAIT(1)PPVAS(1)PVGRPLYLPPDK	4	0.31678	15985.5	15975.5
RGD13054	0.99999	3.17E-21	74.364	RAIT(1)PPVAS(1)PVGRPLYLPPDK	4	0.31678	15985.5	15975.5
Mapt	0.68558	6.68E-11	65.022	VAVVRT(0.56)PPKS(0.442)PS(0.31	5	-0.95766	22313.8	22012.9
LOC10368	0.855653	1.02E-08	73.279	GSGGGQGS(0.856)T(0.144)NYGK	3	-0.72845	30469.4	29965.5
Hic1	1	4.72E-05	57.288	DRGS(1)PGERLEER	3	0.68368	9571.4	9159.8
Dync1li1	0.947651	7.96E-22	78.244	SVSSNVAS(0.05)VS(0.948)PIPAGS(	4	-0.045653	58930.3	61853.9
Reep4	0.612965	0.0016277	86.879	S(0.387)FS(0.613)MQDLR	2	-0.24658	33014.6	32568.5
Sox13	0.811303	1.19E-38	87.485	DLQS(0.189)S(0.811)PPNLPLGFLG	3	1.227	33286.5	31541.8
Nckap5l	0.999978	2.43E-18	145.95	AGSES(1)PHLSR	3	-0.4035	19781.8	14997.0
Spire2	0.999898	8.92E-22	77.08	GFGS(1)LPCILNACSGDIK	4	-0.83111	43498.2	43083.5
Sptbn1	0.966532	9.91E-95	179.5	AQTLPTSVMTITSES(0.032)S(0.967)	4	1.7056	154130.0	155553.5



27348.5	24111.1	25093.9	25351.0	0.0	1.0	1080
11289.5	9375.6	11884.4	10845.0	0.0	1.0	24
8927.9	8601.5	9806.4	9678.7	0.0	1.0	43
102535.7	100973.0	102985.2	101970.0	0.0	1.0	101
7953.6	7521.2	7537.3	7536.7	0.0	1.0	699
34659.4	36407.6	36832.9	39487.0	0.0	1.0	518
19134.8	18055.8	18719.4	18788.0	0.0	1.0	277
17321.7	19280.1	19998.6	17697.0	0.0	1.0	203
60228.9	55282.9	56097.4	57670.0	0.0	1.0	649
56437.7	59266.9	58849.2	53984.0	0.0	1.0	545
7273.1	8440.7	8918.8	7491.5	0.0	1.0	145
54532.0	53563.6	52991.9	54041.0	0.0	1.0	97
68981.3	65664.3	85154.9	86371.0	0.0	1.0	128
7895.1	8216.8	9435.2	8627.6	0.0	1.0	360
15644.9	14082.8	16169.7	17023.0	0.0	1.0	1393
5546.9	5479.3	5671.0	5330.5	0.0	1.0	897
22853.6	23007.9	22240.6	23540.0	0.0	1.0	2763
119250.5	122403.5	116856.2	117650.0	0.0	1.0	1539
13765.8	13342.5	13673.3	13171.0	0.0	1.0	1573
14728.3	15959.3	14893.7	16153.0	0.0	1.0	130
16865.0	15364.2	14906.5	16546.0	0.0	1.0	16
7659.9	7857.7	7898.3	7711.4	0.0	1.0	1113
35909.3	31258.7	37936.9	33753.0	0.0	1.0	1055
13860.6	15315.8	16249.8	14250.0	0.0	1.0	546
13860.6	15315.8	16249.8	14250.0	0.0	1.0	541
20950.0	22685.6	21122.8	21460.0	0.0	1.0	484;568
36000.9	30012.4	32851.2	33561.0	0.0	1.0	266
9826.9	8935.2	10607.4	9012.2	0.0	1.0	304
62176.2	59061.2	60073.8	63805.0	0.0	1.0	421
30964.0	32841.5	31756.9	31938.0	0.0	1.0	152
32973.0	31913.1	33324.6	32553.0	0.0	1.0	326
15375.6	16845.9	18441.6	14862.0	0.0	1.0	627
40038.0	43675.0	42564.1	40370.0	0.0	1.0	375
149198.9	153103.4	152805.4	152940.0	0.0	1.0	2327

Rab11fip5	0.590072	4.49E-19	56.048	LPS(0.59)GT(0.41)LIGEPELEDVVG	3	0.63895	3651.0	4047.8
Bin1	0.748683	8.80E-31	86.557	VNHEPEPAS(0.007)GAS(0.749)PG/	4	2.8067	35673.0	43299.6
LOC10091	0.985844	3.64E-124	128.83	IAKT(0.343)PS(0.671)PPEEAS(0.98	5	-1.2457	36184.7	35667.3
Rrbp1	0.5	0.00373497	82.417	LAS(0.5)S(0.5)PKDK	2	0.33096	146938.1	157034.3
Rrbp1	0.5	0.00373497	82.417	LAS(0.5)S(0.5)PKDK	2	0.33096	146938.1	157034.3
Snta1	0.989797	1.96E-09	126.21	QPS(0.01)S(0.99)PGPQPR	2	-0.11418	56178.8	58278.0
Zc3hc1	0.795192	1.42E-07	91.307	LCS(0.001)S(0.006)S(0.154)S(0.79)	2	0.25091	5293.6	6245.0
Map2	0.993378	8.80E-31	110.38	VKDEFTAKEAS(0.993)PPS(0.005)	4	0.57212	169145.8	169089.4
Garnl3	0.992322	3.33E-14	85.988	GASAHT(0.001)S(0.007)PQT(0.992	2	-0.19505	17621.8	16848.6
Ckm	0.92344	0.030414	45.126	VLT(0.923)PDLY(0.077)NK	2	-0.77439	13924.5	15135.2
Klhl9	0.776233	9.00E-09	58.755	ACT(0.001)LT(0.017)VFPPEENPGS	3	-0.60434	16039.2	16051.2
Sos1	0.853603	1.74E-22	90.308	IPES(0.002)ET(0.078)ES(0.854)T(0	3	-0.40628	14192.9	13670.8
Stat1	0.999966	1.21E-33	97.271	LQSTENLLPMS(1)PEEFDEMSK	3	-0.21446	37280.8	36271.7
Birc6	0.999964	3.50E-07	85.478	AVSSTPPRPPS(1)R	3	0.28529	19749.6	19495.5
Sec31a	0.499995	0.00826893	55.261	SVPGQES(0.5)S(0.5)R	2	-1.7231	19619.6	18762.7
Sec31a	0.499995	0.00826893	55.261	SVPGQES(0.5)S(0.5)R	2	-1.7231	19619.6	18762.7
Cplx1	0.993429	1.45E-56	136.64	EAEAQAAMEANSEGS(0.993)LT(0.0	4	-0.14548	41312.0	39037.0
Cybrd1	0.9948	0.00843116	49.774	T(0.995)LGLVDT(0.005)GQR	2	0.81	21316.8	18590.5
Lima1	0.822637	9.06E-06	81.278	TSSLPES(0.174)S(0.823)PS(0.003)	2	0.83523	11553.5	13381.3
Top1	0.842552	2.07E-06	71.879	ENGFS(0.157)S(0.843)PPR	2	0.34392	84004.0	90858.6
Habp4	0.999917	1.98E-39	91.589	KSLAVSSAQQPDS(1)PGGPQPPGQ	5	-0.30098	82581.1	84852.9
Slc9a3r1	0.56381	4.11E-05	43.38	AQEKS(0.435)EHT(0.564)EPPAAAL	5	0.63941	18871.8	19192.7
Eno3	0.967211	8.28E-55	131.09	AAVPSGAS(0.967)T(0.033)GIYEAL	3	0.27118	39014.9	42075.5
Trpm3	1	0.0639157	52.579	AES(1)NKIR	2	-0.2051	14958.6	17298.3
Erbp3	0.999993	2.55E-65	151.39	RAS(1)GPGT(1)PPAAEPSVLTTK	3	1.07	112640.2	115110.2
Lrrc47	1	2.49E-37	141.93	RES(1)GEGEEVADSAR	3	1.277	74823.9	76718.2
Ttyh1	0.562643	0.0437266	46.462	FVQWQS(0.563)S(0.437)I	2	1.2066	3911.8	3317.1
Pelp1	0.903304	3.72E-77	114.9	AGSGEDPVLAPS(0.096)GT(0.903)F	3	-0.53025	75117.3	79140.2
Dmxl1	0.773084	1.50E-06	68.044	S(0.113)T(0.113)S(0.773)MLISSGH	3	0.38929	7717.8	7888.0
Mapt	0.849501	1.98E-09	99.711	T(0.086)PS(0.85)LPT(0.063)PPT(0.	2	0.074157	72339.6	69986.5
Nktr	0.918523	1.90E-10	66.022	GDLPDHS(0.919)RGDS(0.08)VS(0.0	3	1.2369	8613.5	8284.9
Eif2ak3	0.989105	2.54E-17	96.773	QRKES(0.989)ET(0.011)QCQTESK	4	0.2606	15854.3	16719.2
Taf3	1	3.25E-06	68.277	T(1)PPPAPVPIVPR	3	1.7457	2405.8	2635.1
Mapkap1	0.942407	0.00758497	56.087	Y(0.001)S(0.041)S(0.942)PGLT(0.0	2	0.42694	30436.0	30397.7

4177.2	3461.7	4392.7	4020.9	0.0	1.0	849
38708.3	37001.5	37337.3	43335.0	0.0	1.0	308
39649.4	34029.5	39133.7	38332.0	0.0	1.0	249
138286.3	147647.6	151170.4	143420.0	0.0	1.0	134
138286.3	147647.6	151170.4	143420.0	0.0	1.0	135
57195.8	55004.6	59921.0	56719.0	0.0	1.0	195
5634.7	6044.9	5099.6	6028.1	0.0	1.0	409
161059.0	167072.9	173483.6	158720.0	0.0	1.0	1021;935
17530.4	17392.6	18037.6	16569.0	0.0	1.0	810
13381.5	13716.5	14878.7	13845.0	0.0	1.0	35
16126.1	16420.2	15964.5	15831.0	0.0	1.0	603
12625.6	13515.2	13493.8	13480.0	0.0	1.0	1075
35972.1	36938.8	37226.2	35360.0	0.0	1.0	727
19677.8	19991.8	19989.0	18943.0	0.0	1.0	3943
17270.6	18510.1	19395.9	17748.0	0.0	1.0	799
17270.6	18510.1	19395.9	17748.0	0.0	1.0	800
37573.3	38806.6	41126.8	37993.0	0.0	1.0	93
21660.1	20711.1	21370.7	19488.0	0.0	1.0	274
12131.6	12501.0	12190.0	12377.0	0.0	1.0	372
86460.6	85317.3	87155.4	88865.0	0.0	1.0	114
81777.3	80325.7	87852.1	81049.0	0.0	1.0	108
18011.6	18654.2	19778.5	17647.0	0.0	1.0	120
39737.8	39654.6	40934.4	40247.0	0.0	1.0	40;40;40
17774.2	15908.7	16566.1	17560.0	0.0	1.0	1292
115503.0	113570.8	115349.4	114360.0	0.0	1.0	980
72914.1	72861.3	76216.8	75396.0	0.0	1.0	292
2902.3	3135.3	3590.9	3406.0	0.0	1.0	448
75455.4	75226.2	77351.7	77161.0	0.0	1.0	757
6777.7	7731.7	7323.0	7331.4	0.0	1.0	574
66486.9	68579.2	73674.4	66583.0	0.0	1.0	459;543
9481.5	9343.3	8296.2	8743.6	0.0	1.0	627
14975.3	15852.6	16738.2	14964.0	0.0	1.0	401
2533.0	2278.2	2472.2	2824.4	0.0	1.0	795
29992.0	28780.4	30427.5	31630.0	0.0	1.0	270

Peak1	0.510347	4.61E-07	41.174	ASAVLCQIVAS(0.152)IQPPQT(0.15	4	-0.26589	3718.5	4305.8
Kcnb2	0.993388	1.12E-15	90.861	S(0.003)T(0.003)LS(0.993)LPPEPVI	2	0.69378	21006.7	21098.1
Sos1	0.999943	7.21E-10	81.594	RPES(1)APAESSPSK	3	1.4143	12282.2	12589.3
Mfsd6	1	7.87E-33	134.14	VAILT(1)DDEEEQKRK	4	0.74983	21091.3	24801.2
Arhgap12	0.996263	6.36E-42	93.505	AT(0.423)T(0.566)PPNQGRPDS(0.!	3	-0.31745	104345.1	103184.6
Psm3	1	0.00411666	67.061	MKQEGS(1)AR	2	0.74686	52945.4	55038.8
Tbc1d22a	0.84662	1.26E-79	152.66	S(0.002)VS(0.123)ES(0.847)HT(0.0	3	-0.64239	13321.0	13692.8
Git1	0.512653	8.81E-06	42.123	S(0.115)MDS(0.155)S(0.155)DLS(C	3	-0.54835	18571.2	18274.6
Wwtr1	0.573059	2.18E-23	67.788	S(0.211)HS(0.573)S(0.211)PAS(0.0	4	1.1277	12369.3	14438.7
Phlpp2	0.779981	0.000810408	40.952	RCS(0.78)LHPVPS(0.191)AGT(0.02	3	-0.99504	16466.1	17779.9
Srrm1	0.999997	0.000459078	90.149	RYS(1)PPIQR	3	0.28618	34139.3	34060.3
Slc6a15	0.980661	6.06E-50	156.06	QS(0.006)GS(0.981)PT(0.013)LDT/	2	0.28396	84377.3	79569.1
Khsrp	1	4.73E-08	90.689	LFVIRGS(1)PQQIDHAK	4	-2.4891	37550.3	37990.5
Map2k1	0.532894	2.16E-17	60.562	SDAEEVDFAGWLCS(0.017)T(0.017	4	-2.3847	14466.0	15062.8
Asap1	0.776907	0.000425681	48.423	S(0.014)HT(0.777)GDLS(0.208)PN'	2	-0.36487	5892.2	7049.1
Pikfyve	0.949208	4.23E-09	71.08	GTAGKS(0.003)PDLS(0.949)S(0.04	3	-0.53105	38609.4	34879.7
Ociad1	0.998657	9.74E-05	125.74	RKS(0.999)VT(0.001)YEELR	3	0.68892	48880.8	44882.5
Caskin1	0.625616	1.09E-35	97.352	VKPTPQLLPPT(0.374)DRPMS(0.62	3	-0.61133	22367.5	25874.0
Glud1	0.999997	0.000818045	80.245	NLNHVS(1)YGR	2	0.12545	29944.6	29439.0
Ptpdc1	0.972041	2.86E-12	101.88	QLS(0.972)YS(0.028)DSDLKR	3	-0.22346	53544.2	48033.9
Rrp8	0.913456	6.84E-21	121.82	ES(0.016)AS(0.913)PNS(0.026)S(0.	2	0.39308	2194.9	2321.0
Uhrf1bp1l	0.948508	4.21E-26	76.446	DHNLGS(0.009)PPKS(0.091)PT(0.9	4	-0.45802	21817.7	19937.5
Tp53bp1	0.999818	1.62E-39	117.84	NSVTEDS(1)PQPPLPSVR	3	0.094032	60985.3	63303.0
Phldb1	0.997293	1.27E-48	119.41	NSIT(0.003)EIS(0.997)DNEDDLLEY	3	0.048735	88500.4	92936.1
Nek1	0.953523	9.76E-19	70.784	ASFFGS(0.006)GGAVS(0.954)PS(0.	3	0.26175	16652.2	16472.4
Fam175b	0.964863	0.000168951	45.221	QMPS(0.002)ES(0.033)LEPAFS(0.9	3	-1.0098	4179.1	5189.5
Tfip11	0.999999	3.45E-53	95.195	TTQSLQDFPVADS(1)EEEEEEFQK	3	1.2131	76271.9	75324.0
Akap6	0.883192	2.97E-07	78.529	S(0.026)T(0.026)S(0.883)LES(0.06:	3	0.30952	13077.7	13209.0
Radil	0.701405	1.01E-48	88.814	RT(0.221)VS(0.701)ET(0.071)S(0.0	4	0.073638	8800.4	9582.2
Ptdss1	0.918767	3.14E-27	77.576	T(0.052)YS(0.919)ECEDGT(0.01)Y(	4	-0.35381	20768.1	23071.4
Csrp1	1	8.60E-17	95.417	GFGFGQGAGALVHS(1)E	3	1.8204	76762.0	79551.6
Map2	0.9382	1.15E-59	104.4	KDPQDMEGEKS(0.032)PAS(0.938)	5	-4.0611	76981.5	76802.7
Tprg1l	1	0.00538067	76.416	QGAGT(1)PLR	2	-0.51565	38614.2	37668.1
Nefm	1	4.17E-15	107.35	VQS(1)LQDEVAFLR	3	3.3973	38059.6	39090.8

3969.0	3620.8	4529.0	3845.3	0.0	1.0	784
19939.7	21063.1	19775.3	21216.0	0.0	1.0	19
12505.3	12933.3	12034.0	12416.0	0.0	1.0	1147
22539.5	21669.2	23538.0	23237.0	0.0	1.0	11
105119.6	105449.8	104454.6	102800.0	0.0	1.0	238
52458.1	50329.8	57589.2	52553.0	0.0	1.0	6
10824.2	12512.0	11911.1	13422.0	0.0	1.0	144
20161.1	19834.5	18799.6	18384.0	0.0	1.0	431
13259.1	14056.4	12900.7	13118.0	0.0	1.0	89
15705.6	16531.3	16683.7	16747.0	0.0	1.0	1154
34973.5	35149.2	34129.3	33916.0	0.0	1.0	532
80735.0	80793.1	83206.8	80738.0	0.0	1.0	701
36539.6	37190.7	37345.9	37573.0	0.0	1.0	481
14963.5	15036.4	15345.7	14122.0	0.0	1.0	386
7582.9	6604.9	7252.9	6672.1	0.0	1.0	1038
38499.6	37033.4	38235.0	36752.0	0.0	1.0	1732
46991.2	47234.5	48503.6	45058.0	0.0	1.0	198
22729.0	23576.5	24536.1	22881.0	0.0	1.0	749
30248.6	29304.0	30750.2	29608.0	0.0	1.0	450
50638.6	44977.4	51950.0	55341.0	0.0	1.0	469
2402.9	2109.8	2332.5	2478.8	0.0	1.0	177
21192.8	21069.7	20803.3	21097.0	0.0	1.0	420
61786.5	60019.3	62930.3	63191.0	0.0	1.0	831
94705.2	87465.5	94335.6	94440.0	0.0	1.0	584;641
14601.6	15224.5	15993.3	16526.0	0.0	1.0	432
4355.0	4687.7	4537.5	4503.7	0.0	1.0	288
79417.0	75480.3	75948.5	79673.0	0.0	1.0	210
12660.7	13472.3	12507.4	12983.0	0.0	1.0	1593
9413.4	8628.9	9028.1	10150.0	0.0	1.0	216
21767.7	22635.0	21091.8	21907.0	0.0	1.0	417
79206.2	78093.8	77690.4	79831.0	0.0	1.0	192
75078.6	78742.8	76759.6	73459.0	0.0	1.0	306;220
39711.1	36787.1	40232.3	39029.0	0.0	1.0	34
38729.5	38333.6	39133.7	38469.0	0.0	1.0	224

Rbm26	0.80369	0.0030092	82.803	T(0.804)NS(0.196)PGFQK	2	0.84622	35673.0	28975.0
Kctd12	0.857197	4.48E-115	116.38	EGSLGDELLPLGY(0.03)AEPEPEQEG/	5	-2.1874	49855.2	52753.9
Cisd2	0.986334	1.86E-08	69.03	S(0.003)KT(0.011)FPACDGS(0.986	4	0.038628	10051.1	13150.9
Limch1	0.888527	1.48E-12	104.21	S(0.113)RQT(0.889)PS(0.999)PDV\	3	0.2345	73793.5	76223.5
Rph3a	0.550384	4.18E-07	62.287	WHQLQENHVS(0.55)S(0.45)D	3	0.7598	58249.3	63157.1
Mkl1	0.907981	2.02E-09	75.316	AQQPAPAS(0.092)S(0.908)PVKR	3	-0.31287	45241.9	44702.6
Zc3h13	0.988055	1.49E-06	90.229	NTEES(0.002)S(0.01)S(0.988)PVRK	2	-0.64131	26306.9	28373.9
Rfx7	0.777527	3.52E-14	63.376	S(0.215)QS(0.778)VPLT(0.007)VM	4	0.78872	6374.0	6568.9
Zcchc8	0.782282	4.75E-06	50.87	DVFAS(0.004)Y(0.026)LNS(0.126)N	4	0.42078	3376.4	3853.0
Zfp516	0.864024	7.46E-09	94.747	GS(0.004)S(0.132)S(0.864)PLGVTT	3	0.5045	3128.8	3030.2
Map1a	0.501937	1.95E-10	50.029	S(0.012)PES(0.036)LS(0.502)S(0.4'	4	1.5253	11978.1	12957.9
Ssfa2	0.875405	6.68E-56	172.33	IGS(0.009)MS(0.875)S(0.551)VT(0	2	0.48464	91164.8	95687.2
Map1a	0.772206	1.51E-78	100.59	AT(0.172)VS(0.772)PS(0.051)T(0.C	6	1.5967	54806.0	55974.5
Prrt2	0.971086	2.13E-23	65.962	QENGAVVPLQAGDGEEGPAPQPHS	4	0.81171	13863.7	12832.8
Sptbn4	0.999998	2.64E-28	107.06	QES(1)ADHEGPHSLTLGR	3	-0.67153	23147.5	23410.4
Dock7	0.988863	1.54E-30	87.881	GQLERS(0.989)PS(0.01)GS(0.001)/	3	0.18815	30947.6	38128.8
Ppm1e	0.941911	3.20E-07	141.52	VDS(0.942)FT(0.058)DR	1	0.67717	9619.4	9716.5
Fgf13	0.978305	0.00258118	106.62	S(0.021)GS(0.978)GT(0.993)PT(0.C	2	0.22619	84462.0	107503.1
Tnk2	0.930024	0.00455629	106.6	LSS(0.07)S(0.93)PGK	2	0.70876	16857.3	16171.8
Caprin2	0.949888	1.63E-138	174.05	TES(0.026)IKES(0.024)ES(0.95)LK	2	-0.24065	114930.2	114923.8
Raph1	0.575119	1.83E-42	90.388	LTQADISEQPAMT(0.004)T(0.004)\	3	-0.1913	38838.4	40121.9
Parp3	0.997881	6.71E-08	61.477	S(0.002)RPPPINS(0.998)PDILQAK	3	0.91869	11679.7	11264.2
Nefh	1	1.01E-52	127.16	SPAVAKS(1)PAEVKS(1)PAEVK	5	0.013332	2142648.7	2255037.5
Rpl7a	0.654096	7.64E-08	51.827	TCT(0.001)T(0.001)VAFT(0.344)Q\	4	-0.065663	8694.2	8573.0
Hmgcs1	0.921692	1.20E-145	162.47	RPSTNDHSLDEGVGLVHS(0.002)NT	5	0.5241	80157.6	81982.3
Cnst	0.550615	3.48E-13	65.677	KAS(0.289)DVS(0.551)T(0.161)LCF	3	0.64105	21385.9	20891.8
Nefh	1	2.75E-07	96.059	S(1)PEAKT(1)PAKEEAK	3	-0.19985	860637.5	843790.8
Hoxb6	0.991563	3.06E-06	50.178	LLS(0.001)AS(0.008)QLS(0.992)AE	3	-0.057006	16580.6	15902.0
Map1a	1	1.09E-21	101.89	EVVPDS(1)PGDK	2	-0.90591	708547.0	708716.7
Dok1	0.983123	2.56E-53	124.19	T(0.001)DS(0.983)HDGET(0.016)E\	2	-1.6479	29747.8	31875.2
Ifitm3	0.99447	2.20E-08	53.361	IKEEY(0.003)EVS(0.994)ELGAPHG\	3	0.92257	44309.2	44601.7
Kif13b	0.499989	2.68E-38	79.782	S(0.5)S(0.5)IPGCGVTFEIVSNIPEDA	3	-0.68313	5577.0	5578.6
Kif13b	0.499989	2.68E-38	79.782	S(0.5)S(0.5)IPGCGVTFEIVSNIPEDA	3	-0.68313	5577.0	5578.6
Sphkap	0.62375	5.14E-43	131.67	RS(0.624)S(0.375)HDWS(0.001)TC	4	-0.67793	20621.4	20728.4

27696.7	31624.9	28953.8	31811.0	0.0	1.0	516
51764.0	52509.9	52781.4	49159.0	0.0	1.0	178
11195.8	11394.5	11343.7	11677.0	0.0	1.0	113
73503.9	69019.2	78250.4	76368.0	0.0	1.0	56;59
59051.4	60879.5	60988.6	58685.0	0.0	1.0	679
44996.0	44957.6	45139.5	44915.0	0.0	0.9	571
27901.1	26942.4	28169.5	27514.0	0.0	1.0	110
5845.4	6199.4	6473.3	6125.8	0.0	1.0	1224
3666.7	3774.4	3578.7	3549.0	0.0	1.0	191
2905.3	3365.5	2944.3	2759.5	0.0	1.0	844
12187.0	13176.4	14065.5	9902.3	0.0	1.0	1544
97619.2	93418.5	94385.8	96832.0	0.0	1.0	270
61953.6	54653.7	60283.3	57900.0	0.0	1.0	1490
14854.9	13559.2	13304.6	14713.0	0.0	1.0	206
22089.2	21415.1	23433.2	23841.0	0.0	1.0	2268
36711.0	30465.6	38490.4	36897.0	0.0	1.0	1421
9778.4	9674.1	9345.3	10113.0	0.0	1.0	545
79170.0	98098.8	71505.1	101700.0	0.0	1.0	167
15956.9	16991.1	16991.4	15034.0	0.0	1.0	810
110616.3	111678.9	117134.1	111870.0	0.0	1.0	322
41476.3	40457.6	40595.6	39461.0	0.0	1.0	1168
11868.6	11023.8	11653.6	12158.0	0.0	1.0	268
2144827.7	2249527.6	2162507.8	2134900.0	0.0	1.0	556;556
7966.1	9061.6	8094.1	8094.7	0.0	1.0	209
78505.6	78943.0	84134.3	77734.0	0.0	1.0	490
20755.2	21807.8	20247.6	21021.0	0.0	1.0	497
862477.1	880539.7	844196.6	843940.0	0.0	1.0	819;789
17149.3	16542.3	16083.1	17041.0	0.0	1.0	214
718143.6	687573.8	726100.8	723260.0	0.0	1.0	836
33792.8	32088.0	32026.2	31370.0	0.0	1.0	262
43590.7	42513.4	46276.6	43807.0	0.0	1.0	30
5805.0	5419.5	5586.0	5967.3	0.0	1.0	1366
5805.0	5419.5	5586.0	5967.3	0.0	1.0	1367
20655.1	20445.0	20910.2	20695.0	0.0	0.9	1240



Eprs	0.722027	0.00748173	40.475	EMPT(0.231)S(0.722)GS(0.047)KE	3	-0.78872	19746.0	20050.5
Afap1	0.988703	1.13E-09	94.688	SGTS(0.002)S(0.009)PQS(0.989)PV	2	0.95983	43362.2	44666.4
Hdac6	0.499993	1.48E-14	115.38	KLPQS(0.5)AS(0.5)PVSAK	3	-0.083918	28468.1	30613.8
Micall2	0.780648	1.27E-22	130.02	RPS(0.781)S(0.219)DSTEELSGK	3	-0.090923	35075.5	37426.7
Srrm1	0.905136	0.0340967	56.258	QKET(0.905)S(0.095)PR	3	0.23996	59874.9	61410.8
Rbbp6	1	0.0126735	74.941	EDFS(1)PER	2	0.14281	6511.7	7067.1
Srrm1	0.999998	7.55E-05	71.176	RYS(1)PS(1)PPPK	4	-0.42963	244177.3	271212.2
LOC10091	0.999062	0.00231782	76.345	RKDT(0.999)PT(0.001)K	3	-0.83476	48466.9	43653.9
Prkab2	0.734205	9.28E-94	176.11	DLS(0.131)S(0.734)S(0.131)PPGPY	3	1.2736	46961.8	49843.8
Mpp6	0.938768	7.13E-09	61.276	ILPS(0.058)Y(0.003)RDT(0.939)IAP	3	-0.95342	17895.0	15661.7
Thrap3	0.983202	7.68E-05	129.28	S(0.017)YS(0.983)PAHNR	2	-2.3159	41956.1	47290.2
Nucks1	0.879478	0.000111073	71.085	AT(0.005)VT(0.879)PS(0.116)PVKC	3	0.16441	102909.2	108245.7
Plekha4	0.999999	5.90E-26	77.631	GPFSEAGGRPPRS(1)PQLR	3	0.18859	48802.1	47818.9
Tcof1	0.700275	0.0528434	58.955	T(0.7)AS(0.16)GPT(0.14)K	2	-0.77365	18940.9	17471.7
Dtnb	0.638103	8.19E-06	45.876	QAAQAT(0.095)GS(0.325)PHT(0.8	3	0.49303	951.0	973.7
LOC68502	1	1.50E-26	107.98	EMKAEEPS(1)EEEADAPKPK	3	0.9133	165901.7	164701.8
Hist1h1a	1	0.0236509	56.632	VAKS(1)PAK	3	0.2495	36250.3	35026.7
Myo9b	0.961266	0.000462187	62.694	S(0.961)FS(0.039)QMMLEK	2	-1.6892	15580.0	14387.1
Htr3a	0.883073	0.000920018	56.493	S(0.117)RDS(0.883)PLPPPR	3	0.4386	25498.3	24518.2
Hnrnpa3	1	0.00996358	76.825	GGG(1)FGGR	2	0.18727	29268.4	29328.2
Eif4g3	0.794062	6.92E-46	100.62	S(0.794)PT(0.159)S(0.039)CT(0.00	3	-0.94703	14344.4	12735.2
Srrm2	0.976928	4.23E-35	157.22	S(0.003)S(0.01)S(0.977)PVT(0.01)I	2	-2.3178	249222.3	248034.4
Acot9	1	0.0120212	62.536	VAPNS(1)EER	2	0.078272	12028.2	10847.9
Ank3	0.557889	4.33E-07	72.34	SSIT(0.005)MT(0.558)PPAS(0.437)	3	0.81868	18735.8	16975.9
Zfp148	0.983372	2.83E-41	108.5	QPLEQSQTIS(0.983)PLS(0.012)T(0	3	-0.86405	24777.9	23250.2
Eif4b	1	7.46E-07	88.181	ERHPS(1)WR	3	0.39751	80298.3	82709.6
RGD13062	0.999999	7.21E-36	156.6	LAATEETAIS(1)PR	2	-0.62433	42067.0	44586.3
Acin1	0.947019	2.89E-14	67.194	EAVVDLHADDS(0.947)RIS(0.053)E	3	0.11145	14190.5	13688.4
Ahnak2	0.792977	1.89E-05	50.831	GHLPEVQMPS(0.793)LT(0.207)MF	3	0.87433	5306.0	5518.0
Dgkq	0.999992	6.05E-15	80.733	LGS(1)PAGS(1)PVLGISGR	3	-0.30371	105843.1	106316.3
Bcl9l	0.734417	0.00293974	56.956	S(0.003)VS(0.734)VDS(0.263)GEQ	2	-0.81103	4834.8	5258.8
Afap1l2	0.88786	1.04E-15	60.419	ISFPANCPDT(0.01)MAS(0.01)VPIS	6	-0.32892	15000.3	13037.9
Eif2s2	1	2.11E-24	96.379	KKDAS(1)DDLDDLNFFNQK	4	1.2934	36168.0	37319.2
Larp1	0.999357	4.54E-22	129.38	SLPTTVPES(0.999)PNYR	3	-0.17006	175145.0	177085.9

16199.6	18441.9	20862.1	16733.0	0.0	1.0	713
48157.0	43940.1	45563.8	46782.0	0.0	1.0	669
26716.1	28635.3	29361.0	27865.0	0.0	1.0	857
36004.1	36582.5	36664.1	35340.0	0.0	1.0	122
57128.7	58376.0	60753.5	59417.0	0.0	1.0	455
7024.2	7119.4	6304.8	7194.7	0.0	1.0	828
246283.6	246061.0	253738.8	262470.0	0.0	1.0	542
41713.7	44520.9	45991.2	43431.0	0.0	1.0	260
45775.3	43437.4	51315.2	47944.0	0.0	1.0	182
16895.9	16892.1	16867.5	16734.0	0.0	1.0	212
38780.6	43488.0	42047.9	42595.0	0.0	1.0	55
95059.8	104267.4	105531.8	96665.0	0.0	1.0	179
49697.5	50048.2	50881.3	45511.0	0.0	1.0	313;241;313
16653.1	18080.0	17456.3	17574.0	0.0	1.0	233
917.4	982.7	1006.5	855.3	0.0	1.0	505
158067.4	164521.0	160595.8	163970.0	0.0	1.0	118
37771.4	36548.4	33556.5	39037.0	0.0	1.0	181
14675.0	14302.8	15409.8	14968.0	0.0	1.0	1044
25588.7	25105.5	25860.1	24705.0	0.0	1.0	408
28135.3	28816.7	27496.2	30494.0	0.0	1.0	329
16046.3	13066.4	13858.2	16239.0	0.0	1.0	351
249626.6	242277.1	257404.3	247860.0	0.0	1.0	1070
11619.5	10658.7	11769.0	12099.0	0.0	1.0	255
18620.6	17276.0	18567.7	18538.0	0.0	1.0	1641
24922.2	23806.4	25287.3	23923.0	0.0	1.0	412
77417.6	80312.5	79674.9	80661.0	0.0	1.0	406
43388.4	42449.6	41896.2	45818.0	0.0	1.0	53
12793.8	14344.6	12524.5	13842.0	0.0	1.0	884;883
4891.1	4915.5	5371.6	5443.2	0.0	1.0	2274
103140.4	106072.4	105167.4	104370.0	0.0	0.9	22
4599.9	4143.4	5410.2	5154.3	0.0	1.0	118
16045.2	15890.0	14616.9	13620.0	0.0	1.0	670
35845.4	36562.7	36697.2	36181.0	0.0	0.9	67
175846.9	174541.6	175802.6	178260.0	0.0	0.9	643

Itgb4	0.979945	1.29E-05	74.475	GAMGVPTD(0.98)PT(0.02)R	3	1.2071	18447.2	19332.0
Ppig	1	0.00420206	53.968	GKDQERS(1)R	3	0.41942	62141.0	66317.3
Mprlp	0.996252	2.11E-52	108.57	DFASETPTAPLS(0.004)DACPLS(0.9	3	-1.2588	15490.5	15815.3
Gmps	0.865958	0.000179679	65.232	T(0.008)LNMT(0.866)T(0.063)S(0.0	2	-0.062932	26508.5	25497.8
Pacs1	0.539671	3.97E-33	94.594	T(0.135)NS(0.54)S(0.135)DS(0.186	3	-0.80512	15862.6	16059.9
Atp1a1	1	1.00E-16	92.098	YEPAAVS(1)EHGDKK	3	-0.66419	295200.1	307936.9
Plekha6	1	5.30E-51	154.52	S(1)IHEVDISNLEAALR	3	-0.21735	35104.1	33847.5
Pdlim7	0.97659	1.87E-05	67.118	YTFAPS(0.023)AS(0.977)LNK	3	1.2577	11979.3	12205.4
Aaas	1	0.0316331	62.582	FS(1)PVLGR	2	-0.38502	6025.3	6980.9
Thrap3	0.999916	0.00054532	113.62	SSS(1)PPPRK	2	-0.23091	275234.6	280283.7
LOC50068	0.999811	3.36E-47	171.32	RDS(1)FSENEK	3	-0.18262	161882.4	144946.3
Plcl1	0.999997	4.15E-64	114.79	KLPSESDLLEGEVT(1)DEDEEAEMSR	4	-0.45466	29233.8	29685.8
Sort1	0.999496	5.45E-09	75.764	S(0.001)GYHDDS(0.999)DEDLLE	2	0.56707	369480.2	386914.8
Cdc73	0.696928	0.00727274	45.158	S(0.303)FVDAEVDVT(0.697)R	2	0.40955	19335.7	18832.9
Zswim8	0.983052	2.89E-38	85.881	KQSAGPNS(0.983)PT(0.017)GGGG	3	0.38029	25698.7	25158.8
Kat6b	0.999626	0.0101929	52.867	YLHS(1)PER	2	0.35725	6814.7	7761.2
Tenc1	0.994932	0.000301998	74.392	S(0.005)FS(0.995)LDPLMER	2	0.039582	35101.7	35985.4
Hspa12a	0.956883	7.48E-17	98.508	LDLT(0.002)GT(0.041)S(0.957)GA/	2	-0.17947	7965.8	7625.5
Nolc1	1	0.00142184	53.388	RAS(1)LPQHAGK	3	0.94216	22779.0	20635.2
Epb41l2	0.759477	8.32E-59	121.56	VTPLLAEGKS(0.759)S(0.221)HET(0	4	-0.087865	26494.2	25819.2
Map1a	0.907996	7.22E-49	121.33	QLS(0.908)PES(0.092)LGTLQFGELI	3	-1.1948	73739.8	72127.6
Eef1d	0.998085	1.27E-09	76.358	LEAAS(0.998)LAHRPT(0.002)PR	3	-0.32672	13223.2	14655.9
Ablim1	0.996317	4.18E-06	134.23	T(0.002)S(0.002)S(0.996)LPGYGK	1	-0.35637	64328.4	68930.1
Camk1	0.824986	7.44E-144	136.33	LQLGT(0.175)S(0.825)QEQQGQTA	4	0.029247	48282.1	46790.0
Spire1	1	5.00E-09	106.54	LRPVS(1)PEEIRR	3	0.11786	19917.7	20217.2
Aldoa	0.679301	3.11E-20	107.82	LQS(0.231)IGT(0.09)ENT(0.679)EE	2	0.26778	10570.5	12255.8
Pik3r4	0.951844	6.00E-15	87.275	TSDHEVVPT(0.048)GKS(0.952)PR	4	-0.20605	34612.8	35737.5
Srrm1	0.994265	0.0058601	92.051	KGS(0.006)S(0.994)PGR	2	-0.96032	33135.0	34118.4
Twist1	0.86682	2.32E-24	71.408	SAGGSAGPGGAT(0.133)GGGIGGG	4	-0.045463	14435.0	15713.3
Rtkn	0.981418	7.81E-14	121.42	RPS(0.981)DS(0.019)VQPPER	3	0.36056	52610.3	48608.7
Plec	0.98497	2.01E-188	212.74	S(0.002)S(0.003)S(0.985)VGS(0.00	2	-0.67993	209637.3	203280.3
Ctdspl2	0.95381	0.033105	41.796	GS(0.046)T(0.954)PKEER	3	2.399	15847.1	15499.4
Pdzd8	0.999987	6.27E-12	72.187	LAEPGTDLVEPS(1)PK	2	1.7055	20626.2	20973.0
Etv6	1	0.0432279	61.09	RLS(1)PAER	2	0.73161	6263.6	5924.0

18062.7	17590.6	18864.8	19444.0	0.0	1.0	1514
60780.4	64279.4	62131.0	63023.0	0.0	1.0	513
15369.2	15952.7	14271.7	16499.0	0.0	1.0	487;487
25477.9	25219.9	25889.0	26456.0	0.0	1.0	330
16173.0	16262.9	17296.0	14587.0	0.0	1.0	526
271717.9	286132.5	284483.7	305160.0	0.0	1.0	16
31503.8	33797.4	34208.4	32557.0	0.0	1.0	1121;437
11685.5	11404.4	11991.3	12513.0	0.0	1.0	225
6329.8	6340.1	6395.9	6620.8	0.0	1.0	495
260145.3	272548.0	279984.7	264010.0	0.0	1.0	532
154926.7	155248.3	161365.2	145640.0	0.0	1.0	799
29083.9	28861.8	30141.1	29096.0	0.0	0.9	557
382376.8	357838.9	389766.5	392410.0	0.0	1.0	819
18272.5	18165.8	18225.7	20112.0	0.0	1.0	221
22551.2	23510.5	26118.7	23863.0	0.0	1.0	53
6906.8	7227.5	6528.5	7751.4	0.0	1.0	866
35461.1	35228.4	35808.1	35634.0	0.0	0.9	97
6959.9	8099.4	7497.3	6980.7	0.0	1.0	632
21300.3	21332.6	21425.2	22032.0	0.0	1.0	113
26749.1	26047.0	28407.8	24700.0	0.0	1.0	604
79061.4	73879.9	71517.9	79794.0	0.0	1.0	1444
13590.2	14912.2	12449.7	14156.0	0.0	1.0	349;354
69934.2	67012.8	70106.2	66312.0	0.0	1.0	635;548
44917.2	48576.4	46828.0	44751.0	0.0	1.0	324
19928.0	19186.6	19916.3	21032.0	0.0	1.0	371
11088.2	10751.6	11733.7	11470.0	0.0	1.0	52
35286.5	38199.4	33670.8	33895.0	0.0	1.0	889
31806.2	34628.9	32326.5	32225.0	0.0	1.0	600
17413.3	14840.7	15196.1	17583.0	0.0	1.0	68
52160.0	50253.9	56017.2	47296.0	0.0	1.0	106
202026.5	200984.6	210405.3	204310.0	0.0	0.9	4389;4275;4246
15219.1	15737.1	15248.5	15638.0	0.0	0.9	60
20939.4	19647.5	20932.6	22037.0	0.0	1.0	965
5389.9	5792.8	6108.8	5697.9	0.0	1.0	214

Nufip2	0.983161	1.02E-27	101.17	GADNDGS(0.983)GS(0.017)ESGYT	3	-0.73326	60886.3	67714.7
Sec31a	0.931199	2.87E-22	86.136	DQT(0.041)LS(0.931)PT(0.028)IISC	3	0.55772	10859.9	10999.9
Map7d1	0.995567	7.31E-05	87.641	S(0.996)AVT(0.004)LPR	2	0.35944	54513.8	56675.4
Tsc2	1	0.0034855	52.579	QGLNNS(1)PPVK	3	-0.07336	13473.7	13597.4
Srrm2	1	0.0110719	51.445	S(1)VS(1)PCPK	2	-1.2633	40633.4	38291.1
LOC68502	0.755781	1.37E-17	60.527	NGLSHPKPDS(0.001)S(0.001)S(0.0	6	0.40433	37256.9	38071.7
Tns1	1	0.00351325	66.299	S(1)PPGLAK	3	-1.0461	6592.3	5642.0
Epb41l4a	0.802154	0.015129	73.233	FGS(0.802)IS(0.173)Y(0.025)K	2	0.76426	30500.4	30984.6
Rem2	0.957488	7.21E-05	82.85	S(0.028)RS(0.957)CHDLS(0.014)VL	3	-0.25924	9427.4	8693.8
Rictor	0.73341	8.72E-06	49.768	HLEDT(0.043)GS(0.733)T(0.181)PS	3	2.2401	10313.1	9613.0
Lbr	0.996361	0.0140798	52.579	S(0.004)AT(0.996)PPKKNK	2	0.30944	19744.8	20810.7
Hcn3	0.994143	7.45E-15	86.016	GRPLS(0.004)AS(0.994)QPS(0.001	3	-0.23883	15896.0	15951.3
Ranbp2	0.984323	1.41E-79	101.34	SHET(0.015)DGGG(0.984)AHGDEE	7	-0.51431	76589.1	74380.7
LOC10091	0.66721	0.000114034	53.751	GKS(0.006)AS(0.034)S(0.293)PKPC	4	-0.1719	53792.2	47942.9
Lrrc16a	0.88472	5.96E-15	82.922	RS(0.114)S(0.885)GLIS(0.001)ELPS	2	-1.4586	30618.5	31581.3
Phactr1	0.599381	0.000205056	49.491	S(0.599)KS(0.369)DT(0.031)PY(0.0	3	0.80828	35256.8	35915.2
Phldb2	0.995351	3.92E-11	91.932	RLS(0.995)AGT(0.004)TVADVQK	4	-0.60866	59339.4	57230.4
Mkxn2	0.680645	5.41E-05	92.039	QLS(0.319)S(0.681)EGTVR	2	-0.8781	28854.5	26639.7
Pik3c2a	0.95417	0.0400438	59.052	S(0.046)QS(0.954)LIVR	2	-0.22081	30473.0	27995.5
Caskin1	1	6.44E-09	56.817	PAS(1)PDPGR	2	-0.33363	38729.9	38622.4
Cnot3	0.974176	7.41E-13	104.55	STDSEVS(0.026)QS(0.974)PAK	3	-0.80422	51393.8	49149.5
Anks1a	0.992257	1.29E-09	95.981	SES(0.001)LS(0.007)NCS(0.992)IGI	3	0.52666	68020.9	71441.0
Arfgef1	0.783938	9.05E-23	63.913	TTIPHALLT(0.003)WRPT(0.019)S(0	4	0.48414	33330.6	32589.3
Dock8	0.912322	1.17E-20	101.53	T(0.088)LS(0.912)FEENGVGSNFK	3	0.92214	5073.2	4708.4
Dhx9	0.995117	7.91E-134	189.02	AENNSGVNESS(0.002)GY(0.001)GS	4	-0.7221	42770.7	45207.2
Dnm3	0.999193	1.59E-15	63.436	GPAPAIPS(0.999)PGPHS(0.001)GA	3	0.25496	8335.0	8373.4
Gpr37l1	0.715005	1.23E-63	114.79	AEVS(0.108)S(0.715)S(0.177)IYFHI	4	0.462	23259.6	22197.2
Ankrd34c	0.95994	0.00625703	50.088	VLNEPGS(0.96)PT(0.04)R	2	0.87566	9095.7	9295.5
Wdr47	0.995227	6.96E-06	59.709	AAYADLLT(0.995)PLIS(0.005)K	2	1.8171	11215.5	10505.5
Usp31	0.860492	1.01E-12	97.235	EVKS(0.112)PS(0.86)HS(0.024)DS(	4	-0.37146	36338.6	37164.6
Srsf4	0.714927	0.0501977	55.235	VS(0.023)S(0.715)S(0.233)S(0.025	2	0.49963	9775.9	9408.3
Prkci	0.778522	2.03E-121	164.91	EGLRPGDT(0.009)T(0.038)S(0.168	5	-0.72595	53013.4	49657.3
Srrm1	0.563718	0.000328065	67.385	S(0.564)RVS(0.436)VS(0.001)PGR	3	0.7298	5509.3	5716.5
Il31ra	0.516766	9.18E-05	40.177	GQESVLGGEANEY(0.105)VT(0.189	3	-0.9636	16429.2	15526.8

61730.1	60475.8	68896.5	61201.0	0.0	1.0	212
11138.3	10772.1	10336.0	11932.0	0.0	1.0	1049
57424.7	53364.5	57766.6	57698.0	0.0	1.0	315
12724.6	13673.6	12907.1	13266.0	0.0	1.0	901
37475.4	36366.9	39800.6	40382.0	0.0	1.0	925
39154.3	35155.8	38380.3	41094.0	0.0	1.0	170
7201.9	6966.7	5437.0	7057.4	0.0	1.0	1145
30898.0	31183.9	29065.0	32253.0	0.0	1.0	130
8645.6	8519.3	9263.3	9018.9	0.0	1.0	334
9670.7	9641.3	10459.4	9534.7	0.0	1.0	1121
19510.6	20514.2	20433.5	19197.0	0.0	1.0	149
16628.6	15711.8	16240.2	16588.0	0.0	1.0	721
76599.9	71510.6	77375.2	78985.0	0.0	1.0	1154
52770.0	48426.8	53024.0	53259.0	0.0	1.0	15
33929.1	31058.5	28163.0	37035.0	0.0	1.0	972
34558.3	32665.5	37090.5	36115.0	0.0	1.0	65
62425.3	58054.8	58244.3	62935.0	0.0	1.0	510
27449.7	28034.7	26220.2	28800.0	0.0	1.0	367
28000.1	27117.3	30126.1	29341.0	0.0	1.0	340
38396.3	39841.6	40806.2	35256.0	0.0	1.0	964
50539.6	48654.5	55853.7	46779.0	0.0	1.0	299
71294.8	62800.0	71634.4	76608.0	0.0	1.0	109
31068.4	32034.1	34185.9	30900.0	0.0	1.0	1550
5140.2	4499.5	5214.0	5228.6	0.0	1.0	383
41565.8	44265.7	43069.6	42389.0	0.0	1.0	136
7901.0	8555.8	8285.3	7804.1	0.0	1.0	791
22814.2	23117.9	23528.3	21725.0	0.0	1.0	461
8229.4	7795.5	9857.7	9006.5	0.0	1.0	231
10588.6	10841.2	10960.0	10556.0	0.0	1.0	285
33105.0	35450.6	36243.1	35072.0	0.0	1.0	746
10081.5	10314.3	8951.7	10043.0	0.0	1.0	385
48770.2	49335.4	50679.4	51650.0	0.0	1.0	412
5801.7	5075.3	5893.1	6084.2	0.0	1.0	341
16072.9	14880.3	17571.7	15649.0	0.0	1.0	627

Msi1	0.508809	1.54E-07	99.589	EVMS(0.509)PT(0.474)GS(0.017)A	2	-0.85737	22471.3	23395.0
Hmgb2	0.962265	0.00245172	45.28	KGPGRPT(0.962)GS(0.038)K	4	0.22928	39663.7	41833.0
Srrm2	0.938695	7.89E-07	89.624	DKS(0.011)HS(0.989)HT(0.939)PS(	4	-0.19562	9365.9	11950.9
Tp53bp1	0.996605	0.00740419	52.725	MES(0.003)LGS(0.997)PR	2	-0.49603	29888.5	28876.3
Tsc2	0.772623	2.36E-16	68.461	S(0.177)QS(0.773)GILDGEAAT(0.0	3	-0.65784	4615.8	4209.1
Oprm1	0.797071	2.55E-61	157.57	EFCIPTSTIEQQNS(0.797)T(0.203)	3	1.9363	17825.8	19514.1
Mkl1	0.774618	3.77E-85	101.36	VADS(0.046)S(0.176)S(0.775)FDEI	4	0.4731	31774.2	28454.0
Svil	0.989834	2.59E-14	109.16	S(0.002)T(0.001)S(0.004)FS(0.004	2	0.047802	53119.6	54072.4
Thrap3	0.99999	6.21E-22	122.96	S(1)REEEWDPEYTPK	4	1.0686	91237.6	87902.4
Map2	0.984431	7.69E-09	56.29	VT(0.016)EGS(0.984)QPFAPVFFQS	3	-0.19068	6364.9	5905.2
Flnb	0.999824	2.60E-05	65.219	YADEEIPRS(1)PFK	3	-1.76	22039.5	21616.9
Ank1	0.99924	1.35E-07	89.507	IPCVT(0.999)PET(0.001)VVIR	3	0.30447	19024.4	20822.7
Slc2a6	0.999978	1.15E-48	119.18	AEGLDYDTFPEAPAS(1)PEEK	4	-0.11351	85184.7	88832.6
Mpz	0.999916	0.000127665	70.056	DAISIFHY(1)AK	3	1.5003	10955.6	9707.6
Lmo7	0.999794	4.08E-16	104.78	S(1)PDQFSDMR	2	-0.41851	109259.0	109158.4
Tjp1	1	0.0222921	68.371	IDS(1)PGLK	2	0.38355	49014.4	44416.3
Matr3	0.995567	1.30E-12	70.837	S(0.001)YS(0.007)PDGKES(0.996)F	3	-2.3565	393274.1	432272.2
Map2k7	1	2.73E-06	56.872	IDLNLDIS(1)PQRPR	3	0.033676	7248.4	8102.5
Ahnak	0.813408	1.49E-07	70.47	VS(0.813)S(0.185)GQIS(0.002)GPE	3	0.0072441	7362.6	8527.5
Rtn4	0.997262	1.37E-07	99.669	LS(0.003)AS(0.997)PQELGK	3	-0.34457	84240.1	77241.5
Dclk1	0.884332	8.88E-40	118.32	S(0.006)GKS(0.108)PS(0.884)PS(0.	5	0.46043	118078.8	120934.9
Reep3	0.802319	9.60E-72	105.71	S(0.182)FS(0.802)MHDLT(0.015)A	5	0.88363	10833.5	11703.0
LOC10036	0.958868	1.43E-32	95.153	NGT(0.041)AS(0.959)DEEEGAGLFI	3	-0.66593	14290.7	14515.5
Srrm2	0.75105	3.15E-61	156.23	DKFS(0.751)PT(0.248)QDRPES(0.0	4	-1.1989	149061.1	142664.7
Kif13b	1	0.00700228	53.751	VRPLRS(1)PK	3	-0.49405	5832.9	5940.3
Sntb2	0.946784	4.15E-67	129.27	LVHS(0.005)GS(0.04)GCRS(0.947)I	4	-0.24095	20404.4	21348.2
Abl1	0.5	0.00202702	88.24	INT(0.5)AS(0.5)DGK	2	0.14587	30650.7	30294.6
Abl1	0.5	0.00202702	88.24	INT(0.5)AS(0.5)DGK	2	0.14587	30650.7	30294.6
Tbc1d8	0.875585	0.0382164	56.434	DS(0.124)QS(0.876)PLK	2	-0.45612	14104.6	14292.8
Scrib	0.988543	6.67E-12	58.272	MVEPENAVT(0.002)IT(0.009)PLRP	4	-1.1559	9448.5	10334.4
Marcks1l	1	6.56E-25	138.19	AAAT(1)PES(1)QEPQAK	3	-0.51079	148834.5	152526.0
Specc1l	0.895924	3.29E-43	97.542	S(0.896)FDS(0.102)AS(0.002)QVPI	3	0.65983	16766.7	16732.3
Ddah2	0.617109	4.26E-08	58.848	DFAVS(0.055)T(0.252)VPVS(0.617	3	-0.59818	7434.8	7581.9
Lemd2	0.772847	0.00168147	41.188	WT(0.001)KPS(0.012)S(0.056)FS(0	3	0.66515	20707.3	21546.7



25663.2	22395.2	25064.0	24178.0	0.0	1.0	191
40605.4	36461.5	39388.1	46437.0	0.0	1.0	179
9748.7	10513.5	10569.7	10030.0	0.0	1.0	473
29868.5	29131.3	30594.2	29045.0	0.0	0.9	535
4272.6	4362.0	4238.3	4517.5	0.0	1.0	1363
18262.9	18445.2	18740.8	18504.0	0.0	1.0	265
30209.2	30178.5	30528.0	29875.0	0.0	1.0	114
53572.8	53002.7	52656.4	55362.0	0.0	0.9	226;226
92989.0	91833.4	89743.6	90986.0	0.0	0.9	860
5646.1	6177.2	5712.3	6055.4	0.0	1.0	420;334
20381.5	20561.5	20877.0	22702.0	0.0	1.0	1505
18978.3	21053.2	19844.7	18022.0	0.0	1.0	781
86442.5	87499.6	88030.6	85355.0	0.0	0.9	22
9705.6	9555.2	10376.4	10487.0	0.0	1.0	82
124041.4	111975.9	118929.4	112120.0	0.0	1.0	717;727
50039.2	48346.5	48385.0	46977.0	0.0	1.0	1058
361744.1	396315.5	377712.2	415240.0	0.0	1.0	606
7636.4	7535.1	7996.1	7494.5	0.0	1.0	35
8281.0	7864.4	8399.0	7949.3	0.0	1.0	5202
89890.9	83301.0	84920.9	83583.0	0.0	1.0	766
121209.5	119906.6	118576.7	122360.0	0.0	0.9	25
10112.7	10524.1	11090.4	11091.0	0.0	1.0	152
15615.1	14492.0	15776.4	14230.0	0.0	1.0	1558
149710.0	145656.7	145570.7	151000.0	0.0	0.9	1153
5808.7	5671.5	6628.9	5313.4	0.0	1.0	1140
21659.1	20702.3	21103.6	21721.0	0.0	0.9	375
32353.4	28779.3	32105.3	32584.0	0.0	1.0	180
32353.4	28779.3	32105.3	32584.0	0.0	1.0	178
13188.8	12719.9	14963.2	13979.0	0.0	1.0	938
10862.5	10028.7	10953.6	9719.3	0.0	1.0	819;819;819
157567.0	153268.4	157080.0	149420.0	0.0	0.9	151
16255.0	16370.7	16712.5	16762.0	0.0	0.9	848
7805.7	7743.9	7699.3	7421.2	0.0	0.9	167
19738.5	20617.6	20718.9	20770.0	0.0	0.9	242

Sorbs2	0.867122	8.83E-94	154.34	ADLPGSSSTFT(0.001)TSFISSS(0.00	4	0.058797	25122.6	25219.2
Otud7b	0.981846	9.76E-31	86.073	QLAGGPCVGGPLS(0.018)YAT(0.98	3	-1.2664	15558.5	17772.2
Clasp2	0.968084	2.56E-105	144.26	AMGDDKS(0.968)FDDEES(0.031)V	4	2.1865	159783.3	150694.2
Lrrfip1	0.985539	1.34E-21	84.975	NAS(0.014)AS(0.986)DEDERLSVGS	3	-0.4942	14059.3	14854.4
Pcnx	0.750554	5.62E-08	54.058	VLS(0.751)LDS(0.188)GT(0.061)VA	3	0.68295	7871.6	7104.5
Fndc3a	0.987044	5.08E-09	103.43	MS(0.013)S(0.987)PPSPQK	3	-0.0034424	67125.2	68518.8
Kctd12	0.97033	4.44E-73	139.04	SPSGGAAGPLLTPTS(0.013)QS(0.97)	4	-0.24176	407371.6	405288.1
Slc12a6	0.760062	0.000878892	41.088	IDDIPGLS(0.76)DT(0.062)S(0.173)I	2	1.4164	9353.5	9497.2
Mark3	0.997558	0.00941364	53.034	RNT(0.998)Y(0.002)VCSE	2	-0.083813	22034.8	18590.5
Smtnl2	0.981694	1.59E-15	54.904	KDS(0.982)PPLVT(0.007)PPQS(0.0	4	-0.7137	17390.5	20141.6
Otub1	0.90606	2.77E-38	79.616	QEPLGS(0.906)DS(0.09)EGVNCLA\	4	-0.52189	40660.8	38122.2
Map4k5	0.660436	7.03E-08	59.728	INS(0.338)Y(0.002)PEES(0.66)LPDI	3	2.1893	17476.3	18675.0
Mtf1	0.99585	0.00504289	59.155	TFST(0.003)QY(0.001)S(0.996)LK	2	-3.1287	17545.5	16349.5
Phlpp2	0.589409	0.0099256	47.712	ES(0.007)ENS(0.404)PT(0.589)LPK	2	1.2334	7309.0	7041.6
Trak1	0.920857	4.89E-10	78.508	S(0.921)FPT(0.079)MVGSSVQMR	3	0.94525	2075.3	1634.6
Tceal5	0.995825	1.55E-52	150.69	GT(0.004)DDS(0.996)PKNSQEDLQ	2	0.19162	49863.5	52882.3
Ddx3	1	1.14E-05	105.2	RFS(1)GGFGAR	3	-0.19519	13708.7	10881.8
Ppp1r12a	0.959586	4.08E-36	139.49	KTGS(0.006)YGALAEIT(0.96)AS(0.0	3	0.29473	162955.8	152098.2
Kcnh2	0.875442	2.87E-05	44.848	GDPFLAS(0.875)PT(0.062)S(0.062)	3	-0.44882	16843.0	15789.0
Zc3h13	0.969507	0.0191012	48.028	KS(0.042)S(0.97)KS(0.988)PK	3	0.2481	39230.8	41341.6
Zc3h13	0.98814	0.0191012	48.028	KS(0.042)S(0.97)KS(0.988)PK	3	0.2481	39230.8	41341.6
Mlh1	0.963651	4.95E-06	74.165	T(0.036)DS(0.964)RDQK	2	-1.0718	12934.6	12017.8
Epb41l2	0.961349	0.00145479	46.387	EQHPDMS(0.961)VT(0.039)R	3	0.55113	11869.7	11157.8
Hic1	0.900308	8.53E-16	65.248	GS(0.07)GGS(0.9)PGPEPPGRPDGS	3	0.2307	37574.2	36151.0
Ebag9	0.991936	1.12E-42	113.31	KLS(0.992)GDQIT(0.007)LPTTVDYC	6	-1.1538	365568.2	391927.7
Atxn2	0.818182	1.20E-21	88.945	T(0.818)S(0.182)PAGGTWSSVVSG	2	-0.29111	14167.8	14296.1
Eepd1	0.97895	4.23E-08	90.476	GNS(0.001)AQHS(0.979)PS(0.016)	3	0.41461	37460.9	39099.5
Rasal2	0.773839	9.74E-08	87.863	APPSLPHS(0.226)AS(0.774)LR	3	0.14669	6643.1	6117.7
Ssfa2	0.98144	0.0213728	57.477	LS(0.981)PGKET(0.019)R	2	0.7022	22508.2	21875.8
Thrap3	0.627784	1.20E-31	88.239	KSPVGKS(0.045)PPAT(0.325)GS(0.	5	1.1416	13724.2	14065.7
Spag9	0.603774	6.41E-66	95.523	ATTPASTANS(0.002)DVS(0.604)AII	4	-0.39031	22885.1	24607.1
Mknk2	0.98839	0.000614158	46.844	CLQLS(0.988)PPS(0.011)QSK	3	0.10752	11359.1	10319.3
Fam21c	0.602299	4.90E-14	63.225	GLFSDEEDS(0.023)EDLFS(0.027)S(	3	0.57729	11426.1	10595.3
Suclg2	0.999688	1.36E-23	63.73	S(1)HNGPVLVGSPQGGVDIEEVAAS	4	0.43828	4622.8	4466.7

22746.1	25060.4	22325.0	25838.0	0.0	1.0	397
15649.2	15917.5	17060.9	16093.0	0.0	1.0	730
158216.4	153807.4	158073.8	157690.0	0.0	0.9	8
13121.7	14070.7	14615.8	13428.0	0.0	1.0	100
7462.4	8034.9	7592.4	6853.5	0.0	1.0	694
69479.6	67988.5	66701.5	70830.0	0.0	0.9	147
424611.2	389990.7	439757.6	409920.0	0.0	1.0	202
10979.7	10524.2	10038.7	9325.3	0.0	1.0	29
19841.7	19997.3	19965.5	20622.0	0.0	1.0	507
18634.4	20110.6	18594.4	17571.0	0.0	1.0	265
41398.6	39444.6	41060.5	39912.0	0.0	0.9	16
18423.6	17849.0	18480.1	18353.0	0.0	0.9	405
16842.6	15909.8	16995.7	17932.0	0.0	1.0	304
8887.8	7086.1	8700.9	7497.3	0.0	1.0	1219
1471.0	1667.0	1765.7	1758.4	0.0	1.0	802
45489.0	49032.9	51491.5	48003.0	0.0	1.0	120
12266.8	11613.4	12765.0	12552.0	0.0	1.0	597
161218.7	161243.1	158565.4	157410.0	0.0	0.9	453
14800.7	16055.0	16665.5	14807.0	0.0	1.0	353
44622.3	41041.7	41714.5	42690.0	0.0	1.0	215
44622.3	41041.7	41714.5	42690.0	0.0	1.0	217
11964.4	11866.4	12677.3	12448.0	0.0	1.0	267
11456.6	10966.8	11948.5	11639.0	0.0	1.0	978;908;1006
38668.9	36386.7	39461.8	36776.0	0.0	1.0	266
337023.1	408382.0	348645.1	339740.0	0.0	1.0	36
15243.5	14800.0	14936.4	14061.0	0.0	0.9	437
34495.5	34677.3	38519.3	38089.0	0.0	1.0	110
6162.9	6297.6	6194.5	6470.8	0.0	0.9	889
22860.0	21684.6	23217.4	22482.0	0.0	0.9	760
12721.4	12791.4	13984.3	13820.0	0.0	1.0	326
23839.5	24911.9	23193.8	23376.0	0.0	0.9	129;286
10087.1	9834.0	11209.0	10790.0	0.0	1.0	384
11338.4	11060.1	11144.9	11226.0	0.0	0.9	545
4609.0	4513.4	4246.9	4967.7	0.0	1.0	163

Eef2k	0.952933	1.12E-16	92.676	RPSEDEDS(0.953)LGS(0.042)S(0.00	3	0.19751	14061.7	14296.1
MAST1	0.773585	0.000121043	44.238	RPPRPS(0.225)S(0.774)DPSS(0.00	4	0.53022	8244.9	7339.3
Sorbs1	0.935648	4.35E-09	96.745	S(0.012)KS(0.053)EMNY(0.936)IDC	4	1.1095	47180.0	49317.3
Dlg5	0.993187	3.55E-82	166.21	NLLQHNNNS(0.993)T(0.007)QTDIFY	3	1.0893	15788.7	15744.0
Tjp2	0.991537	6.20E-33	99.011	S(0.001)YHQAY(0.992)EPDY(0.004	4	0.71808	56395.8	56962.8
Tnks1bp1	0.872334	3.16E-12	106.26	S(0.01)AEEGEVT(0.872)ES(0.118)K	2	-0.14577	11593.0	14093.2
Rps6ka2	0.958977	5.65E-41	108.12	AYS(0.959)FCGT(0.041)IEYMAPEV	3	0.37066	48926.1	48491.3
Arrb1	0.560806	2.48E-42	97.352	GMKDDKDEEDDGT(0.561)GS(0.43	4	0.41836	114665.4	115834.2
RGD13071	0.990912	2.63E-07	71.08	ALET(0.009)IPIT(0.991)PIER	3	0.41539	17790.0	19833.3
Ccdc82	0.996698	0.000302755	62.162	ET(0.003)PEKS(0.997)PAAR	3	0.80633	12228.5	11266.4
Trrap	0.797236	7.41E-08	55.705	S(0.051)QS(0.152)LPGADS(0.797)I	3	0.42769	37753.1	37206.3
Agap1	1	2.69E-07	70.373	LDPPPS(1)PHANRK	4	0.54574	64048.1	63889.8
Pitpnm2	0.862999	2.01E-08	58.93	LS(0.004)LLALPPPS(0.863)PT(0.09	3	0.48085	2058.1	2438.6
Pde4b	0.989801	1.40E-08	98.339	S(0.99)PAAS(0.01)QAPVTR	2	0.037782	9960.7	8954.6
LOC10090	0.951183	7.95E-26	70.994	SPGADVS(0.003)S(0.046)IDAPNLN	4	0.61115	13843.4	13665.4
Dock6	0.976388	0.0319259	50.04	INS(0.024)LT(0.976)FKK	3	-0.96483	4603.6	4081.9
Asxl2	0.741771	0.0177918	46.352	LT(0.021)AS(0.742)PS(0.237)DPK	2	-0.47375	8810.8	9635.7
Svip	1	4.30E-21	139.3	GILDIQS(1)VEAK	2	-3.1285	25377.8	25859.8
lws1	0.98435	3.05E-06	80.746	RMS(0.984)S(0.012)T(0.003)GGQT	2	0.26322	10164.5	9222.6
Mfap5	0.866134	3.16E-07	77.633	QCVHQACFT(0.134)S(0.866)LR	2	-0.6348	22136.1	25233.4
Ehmt2	0.961186	2.48E-42	88.573	LTS(0.002)GS(0.036)LS(0.961)EDL	3	1.3493	31490.3	31576.9
Atp7a	0.586816	4.92E-29	81.477	VSISS(0.001)EVES(0.877)PT(0.114	3	0.28313	35145.9	34918.1
Stmn3	1	4.38E-05	103.91	RKDAS(1)LEELQK	3	-0.72151	56954.0	56273.9
Gpsm3	0.99999	1.36E-12	101.75	S(1)APPS(1)PPPPGTR	2	0.18733	40817.1	45098.6
Map2	0.833727	3.38E-15	100.43	GNAQESLDT(0.166)VS(0.834)PK	2	0.083191	73599.1	73607.4
Pbx2	0.499938	1.39E-23	63.625	GGGSAAAAAAAAAAS(0.5)GGGVS(0	4	-0.38261	22449.8	23316.0
Pbx2	0.499938	1.39E-23	63.625	GGGSAAAAAAAAAAS(0.5)GGGVS(0	4	-0.38261	22449.8	23316.0
Sh2b1	0.958907	7.65E-84	133.58	S(0.959)S(0.041)EDLAGPLPSSVSSS	4	0.38913	107814.6	105468.4
Add2	0.971216	2.29E-48	119.86	S(0.971)PAVS(0.59)PS(0.429)KAS(i	3	-0.71184	648531.4	648419.3
Gprin3	0.566993	0.000343271	42.716	IHS(0.335)S(0.567)PS(0.098)ADRP	3	0.96598	6534.7	6070.7
Ncoa4	0.781266	8.84E-15	77.221	NS(0.177)S(0.781)LS(0.041)EWLIG	3	-0.76297	6505.2	6596.1
Ufd1l	0.611993	1.00E-72	108.9	EPERPVQHEES(0.612)IEGEADHS(0	4	-0.4639	11549.8	11429.9
Anxa2	1	0.0134731	55.064	IRS(1)EFKR	3	0.1439	9522.7	10350.4
Brk1	0.965627	0.00762292	49.189	VTKGET(0.034)LT(0.966)	2	0.9937	18126.3	16585.4

15421.3	14627.3	15159.8	14086.0	0.0	1.0	473
7160.6	7319.0	7771.2	7703.5	0.0	1.0	829
50419.3	45304.0	52519.6	49410.0	0.0	1.0	697;485;748;439
15020.0	15412.6	15811.7	15429.0	0.0	0.9	731
56772.0	55198.2	57742.0	57559.0	0.0	0.9	230;257
13081.3	13636.2	10331.4	14884.0	0.0	1.0	1649
45038.6	49111.0	46291.5	47368.0	0.0	0.9	202
106205.5	111480.9	111919.1	114050.0	0.0	0.9	410
17667.7	17632.4	18342.2	19439.0	0.0	1.0	3982
11271.4	11294.4	11521.0	12028.0	0.0	1.0	206
34069.6	35887.3	36584.0	36800.0	0.0	0.9	2064
62796.8	62262.1	62079.7	66822.0	0.0	0.9	957
2301.9	2154.4	2228.0	2431.4	0.0	1.0	892
10143.5	8980.1	10577.5	9566.6	0.0	1.0	182
13708.3	12194.2	14959.9	14156.0	0.0	1.0	331
4260.9	4617.4	4494.2	3864.4	0.0	1.0	1345
9349.8	9572.1	9170.7	9117.4	0.0	0.9	209
25886.8	26626.7	25439.1	25236.0	0.0	0.9	46
10122.8	9754.8	9699.2	10124.0	0.0	0.9	665;664
29220.2	25501.5	24097.9	27167.0	0.0	1.0	105
31684.8	30121.3	33561.8	31288.0	0.0	0.9	232
36207.4	35536.4	35356.1	35625.0	0.0	0.8	356
57335.2	54930.9	59269.1	56759.0	0.0	0.9	81
44165.6	42753.2	44304.9	43325.0	0.0	0.9	33
74870.9	73860.1	72777.9	75956.0	0.0	0.9	692;606
23536.0	22368.8	22550.5	24544.0	0.0	0.9	146
23536.0	22368.8	22550.5	24544.0	0.0	0.9	151
109370.7	108695.8	107152.9	107560.0	0.0	0.8	160
613169.9	617627.4	657226.7	639740.0	0.0	0.9	614
6690.8	6616.8	6778.9	5945.7	0.0	1.0	209
6927.6	6697.4	6695.9	6682.6	0.0	0.9	501
11273.5	10855.0	11218.6	12260.0	0.0	1.0	166
10396.3	8918.0	11677.1	9746.2	0.0	1.0	305
17756.1	16059.4	19075.3	17458.0	0.0	1.0	75

Pde3a	0.566304	0.0387158	48.561	FGS(0.566)QS(0.217)S(0.217)AR	2	-0.1958	10541.3	10245.2
Osbpl3	0.978559	7.58E-42	108.57	T(0.021)YS(0.979)APAINAIQGGAF	3	-0.041615	241374.5	234004.8
Ppfia1	1	0.0655243	51.113	VPHS(1)PAR	2	-1.9961	8757.4	7418.7
Glcci1	0.796215	3.62E-05	68.355	DSGS(0.102)S(0.796)S(0.102)PLPK	3	0.06027	12189.2	12275.6
LOC10090	0.917059	5.65E-07	63.682	S(0.036)RS(0.036)ES(0.917)ET(0.0	3	0.43946	5218.6	5313.7
Nefl	1	2.10E-26	113.88	YEEEVLS(1)REDAEGR	3	-0.041841	30434.8	31742.5
Ppig	0.942722	9.53E-08	92.039	T(0.057)RS(0.943)PVEKENQK	3	-0.11664	73116.0	73300.2
Hsph1	0.562439	0.000210401	40.319	VNT(0.562)HGIFT(0.241)IS(0.072)	3	0.54021	8508.6	8756.3
Mtcl1	0.560889	7.84E-09	69.258	AGGGT(0.006)T(0.088)PVS(0.561)	3	1.0408	4845.4	5447.2
LOC10369	1	0.00181179	59.227	GAKS(1)PEHPAR	2	-0.008464	110055.7	118631.3
Kndc1	0.871943	3.65E-05	84.053	VS(0.033)S(0.872)S(0.076)ES(0.01	3	-2.5537	44663.5	40245.8
Akap12	0.768704	1.44E-29	81.553	ES(0.003)T(0.002)EVQS(0.769)LS((	3	1.0199	13146.9	12576.1
Tpr	1	8.10E-17	144.51	QTPQAPQS(1)PR	2	-0.78764	97920.2	92812.2
Sgip1	1	0.00166244	85.622	RS(1)PGAIAK	3	-0.28814	70479.0	72680.5
Sik3	0.900933	2.43E-05	86.772	HS(0.901)LT(0.099)GHSDIR	3	-0.41401	12548.2	12414.9
Rps27a	0.822469	5.45E-05	116.74	T(0.822)LS(0.177)DYNIQK	2	-0.6983	31429.5	30742.1
Trim2	0.996446	0.000107016	75.102	RPAS(0.996)MYS(0.003)TGK	3	0.50075	19738.8	16677.5
Arhgef11	0.671142	1.90E-15	66.075	NSVLS(0.028)DPGLDS(0.127)PQT(i	3	0.44923	12316.8	11862.0
Clta	0.51822	0.000693639	68.676	LQS(0.482)EPES(0.518)IR	2	1.479	21747.3	20350.0
Nfic	0.831954	3.41E-23	67.181	SGSMEEDVDTSPGGDY(0.001)Y(0.(	3	0.9367	2996.7	2740.5
Map1a	1	5.75E-81	169.43	GEPVGGQKEPVPAWEGKS(1)PEQE'	3	0.32642	261948.2	251423.8
Map2k6	0.512376	2.45E-26	78.272	EAFEQPQT(0.019)S(0.096)S(0.512	3	1.1122	12104.5	11192.9
Prdm2	0.86381	2.60E-05	60.55	QEEES(0.136)ES(0.864)EGLKPK	3	0.1236	17415.5	17700.9
Apba1	0.974135	1.71E-17	75.215	S(0.025)PY(0.001)T(0.974)PDEPKE	3	2.2207	30289.3	29510.3
Dock4	0.737712	6.11E-05	51.798	ES(0.257)KT(0.738)PPPYS(0.004)V	3	-0.81398	45152.5	42897.0
Atxn2l	0.956066	4.41E-35	151.44	QGS(0.003)GRES(0.956)PS(0.011)I	2	2.3762	148715.2	152021.4
Pdlim4	0.788535	2.86E-06	69.045	S(0.21)GLGS(0.789)PY(0.002)GQP	2	-4.2879	10901.1	9604.1
Arhgap23	1	1.93E-20	105.99	S(1)AEALGPGALVS(1)PR	3	0.37304	70999.0	67217.8
LOC10091	0.895389	0.000743956	63.727	KS(0.105)APAT(0.895)GGVK	3	-0.16544	42799.3	51722.8
Rai14	0.990735	1.53E-15	90.259	LGLLSHES(0.991)ADGDS(0.009)R	2	-1.7918	35646.8	33922.1
Tpr	0.960929	2.01E-52	114.96	GAILSEEELAAMS(0.961)PT(0.039),	3	1.6972	50291.7	48960.8
Mark2	1	6.32E-06	71.208	VPAS(1)PLPGLDRK	3	1.915	34540.0	31467.2
Lrrc16a	1	0.0132408	50.452	IFPGLS(1)PLR	2	-0.88534	4436.4	4477.9
Zranb2	1	9.46E-59	121.5	ENVEYIEREES(1)DGEYDEFGRK	5	0.16958	124694.6	124192.7

10160.5	10426.4	9593.8	11001.0	0.0	1.0	271
218038.7	236117.3	235603.9	223360.0	0.0	0.9	250
9169.3	8006.3	9077.5	8322.6	0.0	1.0	707
11919.7	10696.6	12439.0	13337.0	0.0	1.0	280
5354.1	5350.2	5152.8	5421.9	0.0	0.9	147
30067.6	30498.6	31968.5	30002.0	0.0	0.9	184
70833.8	73067.0	72108.9	72603.0	0.0	0.8	714
8458.4	8939.6	8902.2	7944.2	0.0	1.0	393
4072.3	4920.3	5011.2	4468.5	0.0	1.0	1338
104295.5	109941.0	115648.6	108210.0	0.0	1.0	187
35889.1	42430.9	39181.8	39482.0	0.0	1.0	1497
13743.5	13051.0	13554.7	12958.0	0.0	0.9	1287
97230.6	96312.5	97818.3	94542.0	0.0	0.9	2126
68828.0	71768.0	69359.3	71386.0	0.0	0.9	188
12019.8	12258.0	12537.3	12280.0	0.0	0.9	977
33339.3	30516.2	33212.4	32021.0	0.0	0.9	55
16698.9	16733.7	19123.4	17391.0	0.0	1.0	473
11226.6	11835.6	12539.5	11119.0	0.0	1.0	295;294
22090.3	21472.3	20032.8	22843.0	0.0	1.0	109
3074.3	3236.4	3000.1	2597.1	0.0	1.0	305
273016.8	257082.6	263388.7	267900.0	0.0	0.9	1881
12031.5	11451.7	12336.4	11630.0	0.0	0.9	27
18788.8	17102.2	18299.5	18640.0	0.0	0.9	1013
27481.6	28022.6	28839.5	30641.0	0.0	1.0	374
46306.6	45902.4	47199.9	41596.0	0.0	1.0	1884
142023.2	146503.6	149984.2	147400.0	0.0	0.9	337
10234.9	9936.8	10506.8	10375.0	0.0	1.0	75;134
73851.0	71708.6	71283.9	69617.0	0.0	0.9	155
47128.5	48174.9	41353.3	52486.0	0.0	1.0	33
33899.3	33488.3	35461.9	34784.0	0.0	0.9	464;485
47530.9	49017.5	48788.9	49355.0	0.0	0.9	435
33315.8	34274.7	35851.9	29453.0	0.0	1.0	453
4147.0	3694.2	4864.3	4536.8	0.0	1.0	122
126011.0	127364.3	124101.6	124410.0	0.0	0.8	120



Rpn1	0.793089	0.00340132	70.256	S(0.793)LET(0.207)EHK	3	1.3449	7272.7	7320.2
LOC10255	0.979453	4.01E-48	121.38	VS(0.004)GAAFPS(0.979)PT(0.016	3	-0.6254	33194.7	33523.9
Tcf20	0.737015	2.02E-32	91.733	SSQEDDPAAS(0.737)QRPPS(0.253	3	0.87873	19636.3	20197.5
Rfc1	0.989539	0.00446123	60.255	S(0.01)KPLS(0.99)PIK	3	0.57707	8477.4	8863.4
Nme1	1	0.0015773	51.726	DRPFFS(1)GLVK	3	-0.23189	4295.4	4707.1
Map7	0.930796	0.000834887	56.209	S(0.931)MPHLPGT(0.069)PR	3	0.07495	1855.6	2058.1
Safb2	0.995864	2.04E-13	118.52	ESS(0.004)AS(0.996)EGADQK	2	0.074833	18558.1	21083.8
Svil	0.999507	1.74E-20	117.48	SPSPVENS(1)PVR	2	0.14843	23859.6	23274.3
Dclk2	0.716174	2.76E-09	78.69	S(0.001)S(0.001)S(0.003)S(0.068)S	2	1.4973	25877.6	24818.8
Slc1a4	0.758236	2.62E-16	66.925	VEAIPNS(0.758)KS(0.217)EEET(0.0	4	1.2055	25900.2	25512.0
Cnot2	0.51221	0.000521632	40.798	T(0.001)NS(0.004)MS(0.216)S(0.5	3	0.3801	9013.6	10540.0
Cobll1	0.911589	2.81E-14	85.29	EQT(0.018)AS(0.912)APAT(0.063)I	2	-1.54	63355.1	63269.0
Slc12a2	0.698135	1.15E-23	62.862	LLRPSLAELHDELEKEPFEDGFANGEE	5	-1.6586	4511.4	4594.3
Disp2	0.976413	1.45E-19	64.701	GGPGDIS(0.976)PVVLPNS(0.024)C	4	-0.29366	9884.5	8928.6
Nap1l4	0.673999	9.13E-09	59.975	LDNVS(0.002)HT(0.03)PS(0.674)S(	4	0.75278	4693.3	5291.3
Kcnq2	0.999839	4.29E-05	73.327	ESPQYS(1)PR	2	0.41522	26825.7	27994.4
Ranbp3	0.983219	1.42E-78	191.79	TS(0.001)S(0.983)LT(0.015)HSEEK	2	-0.70482	91093.3	86137.4
Kif1a	0.749416	4.88E-33	79.416	S(0.002)S(0.002)S(0.001)GAS(0.05	3	-1.1532	44272.3	44913.2
Pqbp1	0.622495	7.98E-07	41.247	T(0.01)GADT(0.073)T(0.237)AAGP	4	-0.051301	2647.4	2686.3
Hdlbp	0.9002	1.40E-07	57.366	VAT(0.9)LNS(0.098)EEES(0.002)DF	3	0.20059	7774.4	7789.3
Vps4a	0.747903	9.76E-11	66.022	GS(0.006)DS(0.748)DS(0.246)EGD	4	1.8153	52301.4	54789.8
RGD15620	0.999732	2.79E-09	78.501	SQALGPS(1)QEEDSR	2	-1.1938	9087.3	8965.7
Eef2k	0.981622	4.12E-16	92.65	DSENSGDS(0.002)GY(0.982)PS(0.0	3	-0.6532	20517.7	18812.1
Gga3	0.99974	9.76E-13	105.65	TLIPS(1)PPPRPK	3	-0.054224	104119.7	104427.4
Stmn2	1	2.44E-06	127.87	KDLS(1)LEEIQK	3	0.59217	110629.4	108298.4
Gapdh	0.878025	2.21E-17	93.226	GAAQNIIPAS(0.878)T(0.122)GAAK	3	0.48049	98827.8	102862.1
Casp8	0.629917	1.83E-06	44.054	RMS(0.366)T(0.63)EGGEELPVS(0.0	4	-0.74932	3510.3	3398.4
Scrib	0.849905	1.22E-42	101.45	RNEAFVCKPDPS(0.85)PPS(0.149)P	4	-0.37351	57596.9	60047.3
Prrc2a	0.545342	8.10E-07	70.197	AGS(0.545)QVEFGT(0.411)T(0.043	2	-2.383	39472.9	50389.0
Dlc1	0.59494	1.46E-23	62.487	KRS(0.595)VS(0.241)NS(0.08)T(0.0	4	0.59027	3394.2	3231.9
Psen2	0.802784	0.000209903	47.556	T(0.005)S(0.005)LMS(0.803)AES(0	2	-1.116	11703.0	12943.6
Prx	0.524605	1.58E-19	55.632	VSSLGISLPQVELAS(0.005)FGEAGP	4	0.73593	7336.8	8518.6
Frmd8	0.846856	2.03E-21	79.467	IQHLS(0.147)T(0.847)IDY(0.006)VI	3	-1.5945	19759.1	18764.9
Tbc1d9b	0.960884	3.00E-48	107.75	DGAHS(0.001)GDHNS(0.961)AT(0.	5	1.3915	60694.3	60400.5

6737.3	7551.1	6878.8	6955.9	0.0	1.0	517
32668.5	32578.6	33643.0	33425.0	0.0	0.8	21
20939.4	20285.5	20220.9	20426.0	0.0	0.9	668
9449.3	8460.8	9240.7	9159.2	0.0	1.0	156
4116.8	3930.5	4861.4	4362.0	0.0	1.0	62
1817.3	1722.6	2053.3	1970.3	0.0	1.0	356
18871.8	20370.2	18059.0	20240.0	0.0	1.0	419;398
20988.4	21794.6	25448.7	21060.0	0.0	1.0	841;473
25443.9	24041.8	26778.1	25523.0	0.0	0.9	356
26662.9	23970.3	28051.9	26261.0	0.0	1.0	497
9875.0	9624.1	9761.2	10122.0	0.0	1.0	75
69144.2	67390.1	64490.5	64413.0	0.0	0.9	288
3818.9	4452.9	4035.2	4471.5	0.0	1.0	257
9711.7	9119.7	10350.9	9131.3	0.0	1.0	1318
4498.6	4659.1	4633.1	5230.3	0.0	1.0	53
25546.1	25126.4	26670.1	28788.0	0.0	1.0	595
91998.9	87075.0	91431.0	91460.0	0.0	0.9	58
38781.7	44728.8	44955.7	38633.0	0.0	1.0	1441
2559.5	2644.4	2879.2	2391.2	0.0	1.0	245
8743.8	8480.5	8460.0	7433.6	0.0	1.0	28
49481.4	53387.6	48856.3	54759.0	0.0	1.0	170
10422.1	9258.6	10067.7	9227.2	0.0	1.0	792
19725.7	20060.0	18218.2	20940.0	0.0	1.0	442
92483.3	99462.8	103408.4	98989.0	0.0	1.0	23
122103.8	113647.8	119848.4	108480.0	0.0	1.0	80;46
100494.8	99717.9	104898.1	98407.0	0.0	0.9	208
3463.8	3268.4	3425.0	3707.9	0.0	0.9	189
61821.6	59923.6	59885.7	60156.0	0.0	0.9	503;503;503
53141.6	39734.9	42168.7	61498.0	0.0	1.0	1761
3296.6	3103.3	2901.4	3945.7	0.0	1.0	297
10377.3	13123.6	11159.8	10838.0	0.0	1.0	22
8291.6	8599.3	8143.1	7472.1	0.0	1.0	1108;1108
16563.7	19937.9	17079.1	18225.0	0.0	1.0	419
61897.2	58961.1	64583.5	59965.0	0.0	0.9	1055

Prph	0.999886	8.42E-190	219.61	TFGPPPSLS(1)PGAFSYSSSSR	3	-1.3535	298825.8	288817.7
Spag9	0.8009	0.00390279	100.98	GS(0.01)S(0.801)T(0.189)PTK	3	0.016821	43037.8	42356.3
Raph1	0.851487	4.27E-22	84.046	SSIT(0.001)S(0.003)AAS(0.064)S(0	3	-0.037015	11950.6	12459.9
Srsf12	0.994757	0.00159438	54.259	HLCS(0.995)PS(0.005)DHR	3	-0.28582	3511.7	3820.8
Rims1	0.999994	7.34E-06	93.839	S(1)LDEIHPTR	3	-0.13104	46377.3	50069.8
Sorbs1	0.953562	1.43E-05	101.57	RPS(0.023)S(0.954)S(0.023)ASTK	2	0.23743	78366.2	78783.7
Hp1bp3	0.533189	0.000177636	60.196	QT(0.001)PMAS(0.533)S(0.466)PR	3	0.54484	19889.1	19929.8
Itpr3	1	8.75E-15	122.63	LGFVDVQNCMS(1)R	2	-0.17681	40925.6	39112.7
Rai14	0.947592	4.91E-05	95.618	QLSDVS(0.052)S(0.948)PR	2	1.0971	6936.5	5958.6
Sphkap	0.992678	2.62E-22	89.136	KDAVT(0.003)EGNCS(0.993)PVS(0	3	1.2374	143002.3	147403.4
Rbm15	0.987355	4.32E-15	123.71	S(0.013)LS(0.987)PGGAALGYR	3	-0.50741	26342.7	25189.6
Kif5c	0.792076	5.25E-19	69.765	PIRPGHYPAS(0.792)S(0.204)PT(0.(	4	0.092976	17223.5	18219.8
Cobl	0.973574	6.75E-15	81.656	GCVTT(0.004)PNS(0.974)PS(0.022	3	-1.1457	5729.9	5294.6
Nckipsd	0.895258	1.95E-65	115.45	QHS(0.895)LPS(0.052)S(0.052)EHL	4	-0.40779	14563.8	12807.6
Trim3	1	1.27E-40	127.59	ALRPGDLPPS(1)PDDVCR	3	1.0302	397663.2	403138.1
Eif4g3	0.824199	2.75E-09	53.481	KEQAGQIPET(0.824)AAGEPS(0.17)	4	0.27864	32095.0	34481.5
Trio	0.95093	1.21E-16	93.495	ALGST(0.001)S(0.001)GT(0.046)S(	2	0.18989	11735.4	10857.3
Lrp4	0.698175	0.0470327	48.998	KLS(0.048)S(0.254)ES(0.698)QV	2	-1.1177	24073.0	23938.0
Exoc1	0.959767	0.000563551	77.597	LSVQS(0.001)S(0.039)GS(0.96)R	2	-0.11244	11158.8	9436.1
Pcdh1	0.709052	4.88E-19	73.649	S(0.058)NS(0.235)PLPS(0.709)IQL	3	-0.026233	10920.8	10288.1
Cdc42ep1	0.99843	8.33E-07	131.46	S(0.998)DS(0.002)LLSFR	2	-1.5372	17835.3	18681.6
Map1a	0.927861	2.66E-21	104.16	SSLLDVT(0.006)S(0.009)IPS(0.05	3	-0.8751	4476.4	4801.1
Pck2	0.999972	2.61E-05	58.32	YVAAAFPS(1)ACGK	3	0.66193	43836.9	44991.1
Irf2bpl	0.970227	3.61E-21	90.851	RNS(0.182)S(0.833)S(0.97)PVS(0.C	3	0.08943	38905.2	37942.3
Klf3	0.984152	3.87E-07	89.911	RPLPVES(0.984)PDT(0.016)QR	2	-0.046437	7236.8	7557.1
Hsph1	1	0.00324493	80.24	IES(1)PKLER	2	0.10286	166164.1	176745.9
Scaper	0.999324	2.72E-16	140.45	HVIQS(0.999)PS(0.001)ADR	2	-0.12202	26466.8	24181.5
Ddx54	0.999334	2.86E-36	104.18	ALPSFPTSECVS(0.999)DVEPDTR	3	0.3359	27609.3	27554.5
Srcin1	0.574676	4.11E-07	42.669	AVS(0.575)EVVRPAS(0.21)T(0.21)I	4	0.83898	6803.6	5803.0
Myo9b	0.999487	2.70E-59	101.2	DKKPS(0.999)LEGVEET(0.001)EGS	3	0.27598	116602.3	108738.3
Scaf1	0.55795	1.99E-78	124.2	FDIYDPFHPTDEAY(0.442)S(0.558)I	4	1.2407	25010.5	25351.9
Dync1h1	0.719544	8.91E-11	58.024	T(0.03)RT(0.03)DS(0.72)T(0.132)S	4	0.30542	15191.2	14253.3
Chm	0.92718	0.00691453	47.621	VQDNT(0.073)ET(0.927)PKK	3	0.99526	17216.3	15868.0
Top2b	1	3.05E-43	148.06	KAS(1)GS(1)ENEGDYNPGR	3	-0.52163	157195.2	165414.8

287112.6	286924.5	299947.0	290360.0	0.0	0.9	34
41271.9	43048.0	40145.7	43834.0	0.0	0.9	207;364
12858.7	12145.8	11973.1	13257.0	0.0	0.9	218
3669.1	3803.8	3867.5	3361.8	0.0	1.0	105
48388.0	48165.0	45763.6	51324.0	0.0	0.9	991
85013.8	80223.4	80789.5	81858.0	0.0	0.9	916
22017.9	20214.0	19774.2	22030.0	0.0	1.0	155
45805.2	42584.9	42612.2	41016.0	0.0	1.0	2669
7104.1	6461.1	6513.6	7083.3	0.0	1.0	261
150093.2	146470.6	153393.1	141930.0	0.0	0.9	1409
24382.4	25842.5	24839.6	25457.0	0.0	0.9	293
17269.6	16432.3	18430.9	18006.0	0.0	0.9	933
5111.5	5042.1	5854.5	5287.3	0.0	1.0	253
11780.3	11835.6	14723.8	12710.0	0.0	1.0	89
372007.2	393147.6	394383.0	388820.0	0.0	0.9	427
33629.9	33493.8	33943.3	33073.0	0.0	0.9	291
14406.7	11007.3	13129.4	12975.0	0.0	1.0	2393
23717.0	24925.1	23505.9	23515.0	0.0	0.9	1903
10483.2	10417.7	10641.4	10114.0	0.0	1.0	484
13002.5	10888.3	12278.7	11149.0	0.0	1.0	918
18943.2	18385.8	19203.5	18041.0	0.0	0.9	207
5411.3	4287.9	4849.8	5596.3	0.0	1.0	1114
44699.0	45746.2	44808.2	43385.0	0.0	0.9	304
42146.0	37378.8	39353.9	42630.0	0.0	1.0	646
8507.6	7812.9	7431.7	8129.4	0.0	1.0	249
156310.7	162915.0	168642.7	169220.0	0.0	0.9	717
22736.5	24986.7	23727.1	24900.0	0.0	1.0	184
27951.1	28030.3	27716.3	27628.0	0.0	0.6	74
6210.6	6101.6	6761.2	6013.4	0.0	1.0	1094
108540.2	108564.9	117283.7	109080.0	0.0	0.9	1398
25334.2	23750.3	26288.6	25898.0	0.0	0.9	241
14574.9	13745.1	15073.2	15341.0	0.0	0.9	4366
16293.3	16949.3	15869.4	16716.0	0.0	0.9	206
164710.8	167974.8	161440.0	159490.0	0.0	0.9	1541

Coil	0.999935	1.21E-47	140.48	RQEDSGPNEKAS(1)DLETK	4	-0.29651	194740.7	180278.0
PlekHg3	0.998695	5.59E-07	76.156	RFS(0.999)FS(0.001)PSAVSPR	3	-0.011422	2390.0	2211.6
Evl	0.777657	0.000636642	60.489	T(0.778)PS(0.445)VAKS(0.778)PEA	3	0.47978	43033.1	43215.2
Evl	0.777657	0.000636642	60.489	T(0.778)PS(0.445)VAKS(0.778)PEA	3	0.47978	43033.1	43215.2
Foxk1	0.553138	3.70E-15	59.536	S(0.001)LVS(0.008)PIPS(0.348)PT(	3	-1.8336	14692.6	15253.7
Arhgap22	0.817268	9.29E-84	181.52	T(0.069)S(0.114)S(0.817)LDGPAA/	2	-2.2225	32247.7	31135.9
Agap1	0.846878	1.28E-06	81.904	ATSACAPIS(0.153)S(0.847)PK	2	-0.92374	19381.0	17178.8
Fmn1	0.737149	0.00438208	75.509	GAS(0.737)PT(0.256)S(0.007)LR	2	1.6165	11208.9	11999.2
Cdc14a	0.534441	7.12E-05	61.167	S(0.427)IPS(0.534)LQS(0.024)EY(0	2	-2.0642	6438.6	5747.7
Dbnl	1	0.0068123	69.275	LRS(1)PFLQK	2	-1.8372	47741.8	40736.1
Pard3	0.999669	1.26E-08	108.01	S(1)MDLGSSPNR	2	0.6206	25761.9	27992.2
Mtmr9	0.999985	2.42E-32	131.54	QLAELETEDGLRES(1)P	2	0.84547	61022.3	62797.3
Arhgap23	0.994178	3.17E-08	102.73	HY(0.001)S(0.994)QDCS(0.004)S(C	3	-0.61587	35083.9	34484.8
Stx4	1	2.03E-203	233.14	QGDNIS(1)DDEDEV	2	1.0549	190315.9	192749.9
Nbas	0.97485	3.74E-09	51.876	VNFEIHPEGENINVVVS(0.975)PLT(0.	4	1.2053	15346.2	14627.4
Slain2	0.940078	1.10E-21	87.676	LS(0.001)LQGHPT(0.94)DLQT(0.04	3	0.50781	40454.5	43618.8
Map1a	0.586472	3.16E-66	125.91	QEPDPGPNVEPS(0.586)IT(0.414)P	3	0.51295	134856.3	125783.2
Inadl	0.623502	5.32E-30	87.319	APS(0.371)ADT(0.624)EES(0.006)E	3	0.63942	28347.6	27264.9
Arhgap23	1	5.49E-17	96.773	SAEALGPGALVS(1)PR	2	1.1027	66156.7	61843.0
Map1b	0.872659	2.60E-81	166.28	ES(0.002)S(0.107)PT(0.873)YS(0.0	2	0.3448	328201.5	321429.0
Map1a	0.850055	0.000141588	83.948	CLS(0.099)PDDS(0.85)T(0.051)VK	2	0.066685	36315.9	35042.0
Epn3	0.9805	1.46E-32	110.38	S(0.016)RGS(0.98)PS(0.003)SYTSA	3	-0.30587	14752.3	13924.2
Arhgap23	0.947381	3.49E-11	54.521	AS(0.019)S(0.017)AAS(0.947)LPS((	3	0.61101	8727.3	9010.6
Prune2	0.996964	1.65E-78	137.9	LPS(0.997)PPNT(0.003)VDMEHGA	3	1.2681	34773.8	36321.0
Tcf7	0.980315	5.13E-12	59.372	SSLVNES(0.019)EGAAAGAGVPS(0.	3	-1.3082	10598.7	10037.0
LOC68517	1	2.31E-29	119.47	TLTDEVNS(1)PDADRR	3	-0.73566	79111.6	78917.5
LOC69188	0.999996	0.00672545	86.332	T(1)PPTLFR	2	-0.48634	9628.3	9315.4
Dock7	0.816602	0.00111122	73.665	S(0.157)MS(0.027)IDDT(0.817)PR	2	-0.67466	19689.9	19216.9
Tmub1	0.734973	1.02E-06	71.531	EEAPGAES(0.265)PS(0.735)LR	2	0.42055	16216.9	17835.8
Sacs	0.978623	7.05E-22	81.574	YAS(0.979)NICFT(0.021)APGTEFG(	4	-0.055999	43056.9	37193.1
Nfib	0.814813	1.14E-05	78.401	DQDMS(0.119)S(0.815)PT(0.051)T	3	-0.55375	45631.9	47324.2
Rab10	0.644219	1.50E-06	95.094	FHT(0.33)IT(0.644)T(0.021)S(0.00!	2	-0.83996	14233.4	14009.8
Ubxn1	0.575788	2.34E-27	101.28	S(0.576)S(0.422)PPAT(0.002)DPGF	2	0.35257	43456.5	43355.6
Brap	0.869465	1.79E-34	115.38	SREQSESVENT(0.869)VPDS(0.127)P	3	-0.73361	87407.9	89728.7

168351.8	178534.5	180023.8	186590.0	0.0	0.9	146
2330.2	2274.9	2401.5	2278.1	0.0	0.9	915
45124.9	45957.4	44406.4	41440.0	0.0	0.9	334
45124.9	45957.4	44406.4	41440.0	0.0	0.9	328
14550.5	14767.0	15112.8	14763.0	0.0	0.9	243
32972.0	34041.6	31015.3	31615.0	0.0	0.9	236
17577.2	17366.2	17789.7	19159.0	0.0	0.9	911
12295.6	12354.7	11733.7	11533.0	0.0	0.9	589
7081.0	5882.9	6055.7	7392.8	0.0	1.0	589
44720.3	41915.1	46016.9	45711.0	0.0	1.0	291
28219.4	26466.1	27673.6	28108.0	0.0	0.9	849
63804.0	62561.3	64298.2	61394.0	0.0	0.9	548
34309.2	36245.9	34447.7	33533.0	0.0	0.9	390
187238.6	189226.1	189395.8	193600.0	0.0	0.8	15
15111.5	14734.0	14620.1	15883.0	0.0	0.9	1325
45145.1	43601.3	42908.2	43145.0	0.0	0.9	398
138414.1	129740.2	133495.0	137170.0	0.0	0.9	2262
26958.9	29339.2	24360.8	29152.0	0.0	1.0	1220
69343.3	65841.4	66632.1	65545.0	0.0	0.9	166
365427.7	332121.8	343130.9	343280.0	0.0	0.9	1788;1662
35900.8	35211.9	36289.0	36126.0	0.0	0.8	1222
14972.1	13917.8	15414.1	14467.0	0.0	0.9	175
8804.3	8196.5	9076.4	9360.8	0.0	0.9	1245
33231.7	35526.5	33528.7	35631.0	0.0	0.9	987
9665.6	10354.4	10191.1	9860.5	0.0	0.9	70
79699.1	77314.0	81581.3	79656.0	0.0	0.8	167
8679.9	9408.4	9525.6	8785.4	0.0	0.9	1101
17239.7	19646.4	18806.0	17890.0	0.0	0.9	186
16565.8	17278.2	16934.8	16583.0	0.0	0.9	73
38370.8	40655.6	41987.0	36396.0	0.0	1.0	2472
49694.3	42811.5	48149.9	52192.0	0.0	1.0	312
14646.3	14092.7	15849.1	13100.0	0.0	1.0	75
44567.0	41206.7	46420.8	44221.0	0.0	0.9	187
86965.3	89463.0	83839.4	91749.0	0.0	0.9	112



Afap1l2	0.733644	0.0501981	55.235	VT(0.266)S(0.734)AEIK	2	-0.14433	31069.3	27889.1
Coil	0.99992	2.55E-21	77.899	LVEDEET(1)DQGYKYPDK	4	0.5448	60071.7	58946.0
Wdr62	0.5	0.00055745	41.482	NQS(0.5)S(0.5)PPPAPPLCLR	3	-0.26252	5362.3	4715.0
Ahnak	0.986771	5.31E-08	93.424	LQGS(1)GVS(0.987)LAS(0.013)KK	3	0.048796	20570.1	22297.0
Luc7l2	0.930369	3.76E-06	72.681	RS(0.07)S(0.93)EEREAGEI	2	-0.28582	8041.5	7709.8
Atxn2	0.850217	8.46E-45	123.48	T(0.041)NS(0.85)PS(0.101)AS(0.00	3	-0.41484	115992.8	120737.4
Nefl	0.996164	0.0111031	48.998	QKHS(0.996)EPS(0.004)R	3	0.84811	11506.6	11597.7
Ip6k1	0.687434	1.07E-19	64.701	VELHSHSDVPFQMLDS(0.087)NS(0	4	-1.176	5081.4	4788.6
Helz	0.917903	2.01E-17	61.612	QIDLES(0.003)NPQNRS(0.918)PES	4	-0.35284	20150.3	19439.5
Naa30	0.853491	3.47E-32	93.776	LLSSSLT(0.003)T(0.065)GCS(0.008	3	-0.62856	5994.6	5730.1
Amfr	0.847581	9.31E-118	137.34	S(0.107)DS(0.848)LRPALNS(0.044)	3	1.4071	20417.5	20122.9
Mfsd5	0.821288	0.000412033	48.608	VPS(0.16)PT(0.821)GEPY(0.019)AF	2	0.052904	16276.5	15861.4
Map1a	0.944067	6.23E-51	110.03	QEPDPGPNVEPS(0.056)IT(0.944)P	4	0.14176	165842.1	160160.5
Maoa	0.668209	2.25E-21	79.293	VLGS(0.668)QEALY(0.307)PVHY(0.	3	0.27045	16314.7	16334.2
Gpm6a	0.796226	7.29E-08	59.372	SKEEQELHDIHS(0.796)T(0.204)R	4	0.31769	7668.5	9760.9
Dhx8	0.999968	0.000243303	66.538	QSMDMS(1)PIK	3	0.083815	68351.3	70995.6
Gmps	0.586575	2.47E-06	84.365	TLNMT(0.068)T(0.587)S(0.346)PEI	3	0.3008	6009.3	6075.5
Rtn4	0.995835	6.31E-48	143.46	LS(0.002)T(0.002)EPS(0.996)PDFSI	3	0.0089128	61077.1	60191.0
Limk1	0.548053	1.36E-37	106.63	SCS(0.001)IDT(0.096)S(0.548)PGA	3	-0.48846	9726.9	9314.3
Ablim1	0.989305	9.18E-30	127.53	STS(0.009)QGS(0.989)INS(0.001)P	3	1.3108	36082.1	33431.8
Smap	0.720436	4.33E-15	57.347	EKS(0.72)S(0.223)DDT(0.028)T(0.0	4	0.52513	8191.7	8098.4
Ctnna1	0.614199	0.000163894	50.534	DT(0.036)DS(0.157)S(0.614)S(0.15	3	0.48479	5394.5	5970.9
Phldb1	0.987695	6.98E-14	99.927	S(0.988)PS(0.011)PT(0.001)LGES(C	2	0.52681	12432.5	14123.9
Thrap3	0.896055	3.47E-49	118.37	KSPVGKS(0.091)PPAT(0.896)GS(0.	4	0.69867	79696.0	79726.0
Cep350	0.982996	7.24E-08	88.561	AES(0.983)DPKLDVS(0.017)HK	4	0.47325	49869.5	50544.7
Usp20	0.997589	3.09E-79	150.36	AVPIA VADEGES(0.998)ES(0.002)EI	4	-0.042349	46431.0	49048.5
Sec63	0.999999	1.96E-19	64.701	EQSICAAEEQPAEDGQS(1)DANKNK	4	1.68	9330.6	10104.5
RGD13115	0.803351	1.15E-11	68.277	DLPSFLVPS(0.803)LPS(0.196)PQK	4	1.3091	8882.8	8265.6
Plekha6	0.967151	3.14E-39	116.94	T(0.02)KS(0.967)PAEEEIT(0.009)PS	3	-1.0906	133174.6	121834.3
Eprs	0.703474	5.21E-79	102.51	EYVPGQLPAS(0.249)QNS(0.703)H!	4	-0.0062154	44093.4	42779.7
Zfhx3	0.582845	9.08E-06	49.595	TPIT(0.001)S(0.002)VPLGPLAS(0.3	3	-0.6546	11070.9	11188.5
Ilvbl	0.61436	0.00447626	43.502	KS(0.614)S(0.386)IIIVNR	2	-0.75049	16105.9	16607.3
Kdm1a	0.944819	0.000430275	46.797	QATPGVPAQQS(0.945)PS(0.055)M	2	0.31097	14147.6	18115.5
Evl	0.879214	4.31E-10	61.757	S(0.094)NS(0.879)VEKPVVS(0.014)S	3	1.1675	11751.2	12695.7



32240.6	31274.1	29125.9	31128.0	0.0	0.9	681
58856.6	58174.7	57532.6	62812.0	0.0	0.9	122
5450.8	5921.5	4512.7	5150.2	0.0	1.0	34
23497.7	21744.0	21686.0	23176.0	0.0	0.9	5535
7875.9	8646.6	7795.2	7271.9	0.0	0.9	374
115077.2	118751.6	117775.2	116570.0	0.0	0.8	632
11683.4	10887.8	11903.6	12124.0	0.0	0.9	130
5374.7	5245.2	5383.2	4672.5	0.0	0.9	174
19884.3	19224.0	19361.7	21108.0	0.0	0.9	1317
5198.3	4989.6	6401.6	5594.6	0.0	1.0	200
20480.5	18203.2	19854.3	23190.0	0.0	1.0	470
14807.0	15472.0	16087.4	15560.0	0.0	0.9	442
168532.8	160385.1	170758.6	165230.0	0.0	0.9	2264
13804.1	15936.2	15719.8	14970.0	0.0	1.0	383
8824.2	8988.7	8949.1	8413.6	0.0	1.0	204
65325.4	70303.9	68052.3	67079.0	0.0	0.9	429
7252.0	5820.3	7004.1	6584.9	0.0	1.0	331
61618.3	59668.4	63014.7	60891.0	0.0	0.8	689
9411.0	9520.3	9423.6	9615.5	0.0	0.8	268
37265.7	36396.6	35111.4	35674.0	0.0	0.9	482;383
7388.4	7487.0	8142.2	8138.6	0.0	0.9	348
4913.5	5114.2	6021.1	5205.2	0.0	1.0	247
14357.8	12411.9	15205.7	13451.0	0.0	1.0	519;576
83132.6	80182.7	79887.5	83401.0	0.0	0.9	324
49696.4	49713.8	53873.5	47091.0	0.0	0.9	469
44645.8	47930.7	45289.1	47436.0	0.0	0.9	114
9897.0	9615.1	9355.1	10473.0	0.0	0.9	502
8771.1	8537.2	8990.5	8490.2	0.0	0.9	903
135560.9	123987.5	136700.9	131370.0	0.0	0.9	1030;346
40398.9	41909.6	41434.5	44414.0	0.0	0.9	883
10243.6	10107.4	11486.9	11033.0	0.0	0.9	426
15524.6	16125.4	17114.3	15183.0	0.0	0.9	368
16500.9	15872.4	16512.7	16566.0	0.0	1.0	869
13193.0	12474.6	13028.9	12281.0	0.0	0.9	316

Nes	0.999603	1.97E-157	211.17	RKS(1)IDTQEPLWSTEVAR	2	-1.1842	207860.2	205879.9
Wipf3	0.5	8.01E-43	87.881	GGG(0.5)T(0.5)PPALGDLFAGGFPVI	4	1.0685	2709.6	2648.9
Map7d1	0.797637	7.71E-13	64.845	S(0.48)S(0.481)QPS(0.798)PT(0.22	3	-1.185	52350.3	54460.7
Prdm16	0.980233	4.11E-17	55.714	LHS(0.98)PLGNPALPLVS(0.004)AV	4	0.071451	36815.6	37661.5
Scaper	0.999922	1.46E-27	81.151	AKDDS(1)DKENICLLPEESIQK	4	-0.33676	31947.1	30655.5
Fam111a	1	0.0239356	40.533	NQRPLS(1)PK	3	0.072595	9706.4	10454.6
Trmt6	0.924977	1.59E-39	115.63	SCAS(0.005)ALDS(0.925)PKT(0.07)	3	1.1682	23517.3	22633.7
Itgb4	0.81354	1.87E-29	116.96	SLINEIS(0.814)AS(0.186)PPLPR	3	-0.46328	5934.2	5504.8
Cnpy3	1	1.72E-26	81.48	KELGS(1)LEEDANPDEEGVQK	3	1.2419	25040.3	25527.4
Tex264	0.997611	1.62E-20	106.28	ETSAT(0.002)PFS(0.998)PGASNR	2	0.92085	17934.3	17109.7
Akap13	0.591487	5.95E-09	69.331	S(0.001)AS(0.006)RPS(0.401)S(0.5	3	-0.32425	17924.8	16145.5
Plekha4	1	2.79E-29	80.117	S(1)PARPRPGEGPGGPGGPEVNR	3	0.27252	52605.5	54544.1
Myo9a	1	0.00208558	83.862	NVKNS(1)PQK	4	-0.2521	70543.4	75201.2
Prkar2b	0.5	2.50E-42	86.449	S(0.5)DS(0.5)ENGEEEEAAEAGAFN	3	-0.30762	11744.6	11516.5
Scg5	0.999954	2.65E-10	88.385	SVPHFS(1)EEEKEPE	3	1.6422	18490.1	21061.9
Sh3pxd2a	0.998503	0.000537992	44.998	S(0.175)AS(0.826)DAGIRDS(0.999	3	-0.41419	16402.9	15948.0
Atp1a1	0.999909	3.88E-102	138.09	S(1)PDFTNENPLETR	2	-1.6551	74724.9	72440.3
Tnks1bp1	0.991304	2.77E-06	81.789	VSGAGLS(0.991)PS(0.009)R	3	-0.14471	103357.6	99986.0
Dnajc6	0.998425	3.04E-05	67.187	VTT(0.002)GAVRS(0.998)PAR	3	0.75298	15441.6	15264.7
Nek1	1	0.0532553	44.863	AGGS(1)GEVK	2	-1.3466	6638.7	8203.1
Car14	0.66233	0.0214347	56.547	S(0.209)VVFT(0.129)S(0.662)AR	2	1.054	3142.5	3961.7
Gnas	0.991892	0.000721392	72.187	IST(0.008)AS(0.992)GDGR	2	-0.070579	16092.8	16780.6
Dclk1	0.807458	2.97E-53	93.596	AQPAPPELNS(0.093)ES(0.057)EDY	3	-0.010987	37067.3	36419.8
Iqsec1	0.852933	8.97E-09	61.409	NS(0.137)WDS(0.853)PAFS(0.011)	3	0.7517	2609.0	2948.8
Spp1	0.99846	1.94E-25	77.543	S(0.004)FPVS(0.995)DEQY(0.998)F	3	-2.6377	41758.1	39799.4
Fam171a1	0.999999	2.67E-15	90.422	TSDVPLEPLAS(1)PNQR	2	0.033317	29534.3	30147.6
Zfp618	1	0.00668359	57.175	S(1)PPAAVEEK	2	-0.64973	19644.6	18655.2
Zfp385b	0.960038	1.91E-21	80.585	SGTTPLT(0.001)LGAIAS(0.96)PS(0.	3	0.089705	15707.6	14398.1
Caskin1	0.989592	4.28E-52	124.08	QVLPSGVS(0.01)HFT(0.99)PPQTPT	3	0.23857	78390.1	80673.7
LOC10091	1	0.0740673	52.591	RLAS(1)GEK	2	0.15957	19447.8	19336.4
Ablim1	0.881469	1.90E-83	178.22	S(0.009)T(0.107)S(0.881)QGS(0.00	2	-0.068579	72099.9	66190.0
Scaper	0.999338	4.46E-27	76.899	AGAVVFS(0.001)CLIANRPDGNs(0.	4	0.46599	62349.7	64541.4
Fasn	0.999537	3.29E-22	88.176	DIMLATGKLS(1)PDAIPGK	3	-1.0238	14970.5	13856.2
Pi4kb	0.988398	1.74E-07	56.121	RLS(0.988)EQLAHT(0.01)PT(0.001	3	1.863	18646.4	19337.5

216793.0	206957.4	210319.8	215680.0	0.0	0.9	1166
2657.7	2429.6	2562.5	3055.0	0.0	1.0	94
54598.0	53241.3	54671.8	54120.0	0.0	0.8	118
37487.1	38754.9	36939.8	36706.0	0.0	0.8	426
30889.5	31610.6	31621.2	30625.0	0.0	0.8	296
10224.7	10697.0	9836.2	9971.1	0.0	0.9	62
25400.2	24517.0	23311.4	24003.0	0.0	0.9	477
5512.1	5195.9	6326.5	5495.3	0.0	1.0	1119
24792.3	24855.8	24287.1	26514.0	0.0	0.9	250
17433.5	16623.7	17153.9	18907.0	0.0	0.9	243
16052.7	16828.3	15901.4	17591.0	0.0	0.9	2515;1186
59503.9	56179.3	55669.9	55462.0	0.0	0.9	164;164
68869.6	74468.4	73089.9	67903.0	0.0	0.9	2586
12879.0	12164.5	12381.3	11738.0	0.0	0.9	85
19702.3	19090.9	20209.1	20190.0	0.0	0.9	202
14557.9	15558.9	16108.7	15428.0	0.0	0.9	677
74455.7	74744.5	77766.3	69993.0	0.0	0.9	228
102594.2	100260.2	104776.3	102120.0	0.0	0.8	1125
13974.5	15635.9	15740.1	13483.0	0.0	0.9	47
7259.4	7424.2	6689.5	8075.6	0.0	1.0	417
2960.0	3009.0	3366.2	3729.1	0.0	1.0	321
17199.3	16581.9	16714.7	16976.0	0.0	0.9	1102
39864.5	37342.5	38058.7	38403.0	0.0	0.9	419
2314.2	2962.5	2232.0	2709.1	0.0	1.0	514;513
41237.8	41661.0	40751.7	40876.0	0.0	0.8	166
29312.8	29956.3	29455.0	29941.0	0.0	0.7	724
18528.0	18192.2	19747.5	19117.0	0.0	0.9	395
14436.5	15518.2	15327.6	13876.0	0.0	0.9	172
72848.1	74858.9	80811.9	77177.0	0.0	0.9	707
20507.1	19023.8	19683.4	20824.0	0.0	0.9	182
75702.4	73063.7	71961.4	69834.0	0.0	0.9	479;380
56796.5	61816.6	61244.0	61372.0	0.0	0.9	1070
14515.3	14218.1	14740.9	14559.0	0.0	0.9	1578
19661.8	20240.4	19170.4	18469.0	0.0	0.9	511;496

Scap	1	2.87E-29	142.35	ASPEEPGDS(1)PPLRR	3	0.045857	53615.7	56280.5
Fzd2	0.999904	0.0196508	54.571	TVGQGT(1)K	3	-0.3959	17872.3	14166.7
Phactr1	0.67564	1.36E-14	82.59	S(0.001)DS(0.005)LVPGT(0.318)HT	3	0.46252	6854.2	6225.4
Tmem117	0.818796	0.000316711	108.35	S(0.03)PS(0.819)EHS(0.151)K	3	0.71419	7567.3	7670.2
Bcr	0.747559	0.000734904	81.09	VS(0.001)PS(0.748)PT(0.248)T(0.0	2	0.34247	9292.6	9388.2
Fbxo18	0.9786	2.45E-06	81.877	LGS(0.979)PGS(0.021)AQPAR	2	-0.44923	15931.8	14990.4
Cast	0.935045	8.67E-26	110.35	S(0.029)LT(0.935)PT(0.036)LPMES	4	1.6889	61318.0	59746.8
Oxr1	0.783978	0.000157625	77.124	T(0.108)T(0.108)T(0.784)PDVVHPI	3	0.26766	22352.0	20385.1
Mtcl1	0.936628	3.79E-61	161.02	REGPVGGES(0.937)DS(0.063)EDM	3	0.13867	132315.9	135052.2
Vcl	1	1.43E-06	90.707	GQGAS(1)PVAMQK	3	0.72867	228422.0	227917.0
Add2	0.568048	3.13E-68	130.83	TESVTSGPLS(0.057)PEGS(0.057)PS	5	-0.11902	40326.9	39483.4
Magi3	0.508974	1.17E-19	65.766	ET(0.008)S(0.031)GS(0.451)LET(0.	3	-0.70851	30226.1	29555.3
Dnmbp	0.96169	0.0106474	52.788	QPQDT(0.038)S(0.962)PLR	2	1.5295	21400.2	21573.0
Syn1	0.968172	6.88E-51	108.38	RLS(0.968)DS(0.032)NFMANLPNG	3	-0.6245	9473.1	10479.3
Jakmip1	0.92376	7.47E-17	132.93	HT(0.076)S(0.924)LNDLSLTR	2	-0.31332	27906.3	25843.3
Kank1	0.590552	6.30E-11	53.091	HS(0.842)PLS(0.116)S(0.042)GIS(0	4	-0.301	7837.3	8571.7
Ppp1r18	0.990545	1.40E-07	65.423	WRLS(0.991)PGET(0.009)PEENLR	3	1.0331	9671.8	8567.0
Kcna1	0.897565	3.80E-10	47.803	T(0.09)VMS(0.898)GENADEAS(0.0	3	-0.83727	5871.4	5528.8
Add1	0.912068	9.13E-138	167.7	YSDVEVPASVTGHFAS(0.019)DGD	4	-0.46198	43584.1	43228.3
Plekhm3	0.999933	2.81E-32	94.259	S(1)VNDLLDETTTFKPGHAR	4	-0.93698	28594.5	30766.3
Dclk1	0.968581	2.33E-70	121.25	AQPAPPELNS(0.969)ES(0.031)EDY	3	0.085748	26134.0	26954.5
Susd5	0.992847	1.07E-21	86.453	DT(0.007)HS(0.993)DEKPAPEESET	3	0.31864	12223.8	12160.4
Nckap5l	1	0.00874034	47.774	EGAGGGS(1)PLRK	3	-0.52247	32185.6	29742.8
Prkaa2	0.905208	1.65E-123	126.71	IADFGLSNMMS(0.005)DGEFLRT(0	4	-0.016341	14165.5	13776.2
Vdac1	0.752321	0.00465768	74.611	VNGS(0.752)LET(0.248)K	2	1.1676	71395.0	74358.8
Rab13	0.580969	9.81E-07	61.127	S(0.001)GNS(0.019)S(0.102)KPS(0	3	0.3234	22715.8	20046.1
Ahnak2	0.999454	2.56E-63	112.58	EVEASIDSTVHKGS(0.999)PGLWEA	4	0.9909	6597.1	6033.9
Ranbp3	0.992434	8.94E-31	73.459	SAGSS(0.001)S(0.003)PEAGEDS(0.	4	-0.61229	49739.5	50171.8
Eif3b	0.803725	1.00E-121	120.65	QQPVS(0.176)ES(0.804)PPT(0.02)I	4	0.18289	38718.0	40466.3
Ahnak	0.960807	0.0641312	51.445	FS(0.961)AS(0.039)GSK	2	-0.24883	10002.3	9345.5
Adra1d	1	0.0056952	83.948	S(1)LEAGIK	2	-0.52733	29050.1	29332.6
Dlg5	0.823635	0.000631821	55.261	HNGS(0.824)S(0.176)EILNK	3	-0.14133	18560.5	19699.5
Cspp1	1	0.00941464	53.034	AQS(1)PPVPAR	2	1.1246	12380.0	14164.5
Serpinc1	1	0.000361412	61.409	KAT(1)EEDVLEQK	3	0.060143	23245.3	24260.5

53729.3	54237.9	54100.1	55957.0	0.0	0.8	850
14332.2	17138.5	15627.8	13795.0	0.0	1.0	327
6390.9	6938.4	6881.6	5730.5	0.0	1.0	104
8363.1	6570.6	8249.0	8878.4	0.0	1.0	440
7914.5	8230.8	9163.8	9310.7	0.0	1.0	289
15978.1	14011.3	15678.1	17405.0	0.0	1.0	41
62049.5	60320.7	61890.5	61661.0	0.0	0.8	158
22055.1	25373.9	19859.7	19827.0	0.0	1.0	176
132835.4	137286.0	136316.2	128260.0	0.0	0.9	437
231889.7	224149.8	227802.8	239130.0	0.0	0.8	346
43218.1	37421.7	41318.0	44799.0	0.0	0.9	700
29481.0	29451.4	30700.0	29482.0	0.0	0.8	682
21063.9	22122.4	21532.1	20649.0	0.0	0.9	1407
10593.1	10163.2	10016.3	10493.0	0.0	0.9	9
27203.7	26566.2	25311.9	29412.0	0.0	0.9	382
7483.9	7225.7	8823.4	7943.3	0.0	1.0	285
8417.4	9432.5	9052.7	8282.0	0.0	0.9	195
5008.4	5030.9	5545.1	5901.0	0.0	1.0	5
47438.3	43753.1	44763.4	46294.0	0.0	0.9	427;427
31406.9	28985.0	31364.7	30797.0	0.0	0.9	132
28553.7	26600.3	27257.9	28125.0	0.0	0.9	413
11460.9	12812.3	11414.2	11769.0	0.0	0.9	258
26492.6	30913.3	29169.7	28710.0	0.0	0.9	942
14435.5	12932.2	14013.1	15610.0	0.0	0.9	82;183
73210.1	70196.1	74310.3	75379.0	0.0	0.9	57
21942.3	21874.9	21312.0	21790.0	0.0	0.9	185
7477.0	6898.9	6774.1	6519.7	0.0	1.0	5806;7177
54092.3	50381.5	52631.8	51641.0	0.0	0.9	40
39162.9	38866.0	38164.5	41817.0	0.0	0.9	28
10828.5	9796.8	10046.1	10461.0	0.0	0.9	442
32513.1	30816.5	28330.8	32133.0	0.0	0.9	281
17517.6	18572.8	18855.2	18586.0	0.0	0.9	185
11969.8	11947.8	13328.1	13402.0	0.0	1.0	775
24285.5	23115.7	24769.0	24212.0	0.0	0.9	63

Exosc5	0.727525	1.99E-30	86.54	VLT(0.001)DT(0.004)GT(0.038)ES(	3	-0.6046	35884.1	33576.6
Pip5k1c	0.702991	3.58E-66	127.53	RT(0.124)QS(0.703)S(0.173)GQDC	4	-0.83409	33800.5	30095.0
Dlg2	1	8.36E-07	76.1	EAGS(1)IVR	2	0.13081	27956.4	28822.5
Whsc1l1	0.986786	4.07E-05	93.556	LIIS(0.003)S(0.987)PS(0.011)QR	2	1.2147	3438.9	3301.2
Map2k1	0.979886	4.64E-73	139.75	LCDFGVSGQLIDS(0.018)MANS(0.9	3	0.20434	15320.0	16306.7
Apc	0.998477	0.000307313	94.409	EAPS(0.998)PT(0.002)LRR	3	0.51824	49737.1	51965.2
Rtkn	0.992939	3.65E-34	83.602	ASLDSAGGS(0.005)GNS(0.993)PILI	4	0.22434	36090.5	36357.2
Tnks1bp1	0.499992	8.45E-20	65.677	CSLGQEVMGIGS(0.5)S(0.5)QDECE	3	-0.55824	19786.6	19210.3
Ei24	1	1.82E-47	87.111	FPS(1)PHPS(1)PAK	2	-0.76673	141571.1	142763.5
U2af2	1	8.43E-14	116.19	GAKEEHGGLIRS(1)PR	4	0.33776	221254.0	236132.9
Camk2g	0.919358	0.000278337	46.89	S(0.081)DGGVKPQS(0.919)NNK	3	0.56162	26416.7	23862.3
Nfix	0.931315	7.73E-47	106.99	S(0.931)IDDS(0.069)EMESPVDDVF	3	-0.14667	34441.0	32654.1
Lrba	0.509677	1.23E-06	49.125	AS(0.51)S(0.451)IDS(0.038)AS(0.0	3	1.7751	9374.8	9549.7
Eef1d	0.935149	3.51E-21	109.07	AT(0.001)APQT(0.935)QHVS(0.06	4	-0.33342	61242.9	63134.0
Mark1	0.90256	1.12E-30	85.518	SRPSSDLNNS(0.903)T(0.076)LQS(C	5	0.38486	17510.9	17764.5
Git2	0.994137	1.51E-66	125	QKS(0.994)LDS(0.006)DLSDGPVTV	4	0.8274	43328.9	42300.3
Prrc2a	1	1.59E-28	143.88	ETPAGGNLS(1)PAPR	2	0.057821	53965.2	51606.6
Osbp16	1	0.00571819	61.962	GIS(1)PAHK	3	0.028264	23315.7	21926.2
Fam83h	0.757138	0.000357545	81.92	GS(0.064)PT(0.757)S(0.141)T(0.02	2	-1.7449	3774.9	4219.0
Fbxl20	0.943055	4.69E-19	75.539	VHAY(0.046)FAPVT(0.958)PPPS(0.	4	-0.64198	23740.3	23630.8
Sphk2	0.691724	2.00E-19	69.704	AKS(0.941)ELALAPAPAPAAT(0.367	4	1.6446	12516.0	11185.2
Cobll1	0.99968	4.17E-10	86.548	TPATQSAGS(1)AGRK	3	1.9577	25621.1	29519.1
Mag	0.802914	6.57E-135	182.95	KNVTES(0.007)PS(0.19)FS(0.803)A	4	-0.25555	46685.1	48516.5
Mapk1	0.987465	1.04E-42	117.35	VADPDHDHT(0.987)GFLT(0.907)E'	3	-0.0057647	57039.9	53203.7
Ccnc	0.899302	2.26E-05	48.51	S(0.01)S(0.01)LS(0.08)DS(0.899)PI	3	-0.90142	18300.5	18412.8
P2ry2	0.723115	2.01E-15	84.759	DAKPATEPT(0.723)PS(0.277)PQAF	4	0.26886	31534.4	32821.9
Hmga2	0.892257	4.87E-05	51.495	KQPQEPT(0.108)CEPS(0.892)PK	3	-0.57577	7214.4	7417.1
Aatk	0.999968	4.22E-25	99.409	DFLPGLVAAS(1)PGQESSR	3	0.91357	25714.2	24525.9
Vmp1	0.991593	6.51E-33	111.65	EQHNCS(0.992)FT(0.006)DPS(0.00	4	0.23865	88063.9	85376.2
Acin1	0.949953	4.42E-05	95.502	KIS(0.013)VVS(0.037)AT(0.95)K	3	0.025699	10076.4	9599.3
Git1	0.635577	1.28E-15	64.589	S(0.16)MDS(0.636)S(0.2)DLS(0.00	3	0.32535	4121.2	4297.9
Atxn2l	0.999948	2.99E-29	144.73	QGS(1)GRESPLVSR	3	0.57415	63811.9	66960.1
Fam13b	0.955248	4.31E-10	80.387	ASITPVLGS(0.955)PS(0.038)T(0.00	3	-0.2147	18347.0	17946.6
Arhgap29	1	4.07E-05	86.803	LRPVS(1)LPVDR	3	0.3976	1496.0	1403.4

36019.0	34035.0	36064.6	35829.0	0.0	0.9	19
29954.8	31608.4	31377.5	31264.0	0.0	0.9	554
27321.9	27753.1	30966.1	25740.0	0.0	0.9	175;301
2956.9	2788.2	3711.3	3238.8	0.0	1.0	554
16126.1	15455.5	16175.0	16326.0	0.0	0.9	222;226
49887.0	51320.8	52173.3	48742.0	0.0	0.9	2348
39093.7	36272.3	38086.5	37659.0	0.0	0.9	242
19637.3	19612.3	20173.9	19099.0	0.0	0.8	801
138765.4	140860.8	145731.0	138320.0	0.0	0.8	330
199088.1	219200.0	222438.2	217680.0	0.0	0.9	79
21450.4	24473.0	24396.1	23171.0	0.0	0.9	354
31553.9	34141.6	32831.9	32104.0	0.0	0.9	280
9583.7	9390.1	9334.5	9907.7	0.0	0.8	918
57834.5	59103.0	62238.9	61665.0	0.0	0.9	498;499
15341.5	17729.2	17484.1	15625.0	0.0	0.9	399
42476.0	42139.5	42031.9	44497.0	0.0	0.8	415
50618.4	53728.6	53401.2	49750.0	0.0	0.9	1007
23423.2	24828.3	22518.5	21622.0	0.0	0.9	9
4335.9	4474.1	4014.4	3895.9	0.0	0.9	939
23856.5	23552.3	25496.8	22494.0	0.0	0.9	423
11411.9	12365.7	11318.0	11585.0	0.0	0.9	379
22596.0	24961.4	27899.1	25221.0	0.0	1.0	44
49153.5	45715.4	50123.7	49158.0	0.0	0.9	549
52222.8	52164.5	53853.2	57175.0	0.0	0.9	179
18069.1	17284.8	19300.8	18442.0	0.0	0.9	272
30293.3	30121.3	33188.9	31764.0	0.0	0.9	326
7904.1	6918.7	7864.6	7853.5	0.0	0.9	44
26404.2	24759.0	26416.9	25813.0	0.0	0.9	690
81841.2	83284.5	84880.2	88266.0	0.0	0.9	23
10282.1	9951.8	10283.2	9858.0	0.0	0.9	725;831
4586.6	4414.7	4581.0	4068.8	0.0	0.9	422
59019.5	61007.1	70074.2	59568.0	0.0	0.9	333
17676.3	18810.4	18068.6	17335.0	0.0	0.9	667
1876.9	1581.7	1629.1	1587.1	0.0	1.0	939



Ap1ar	0.887285	0.000549342	73.082	S(0.113)KT(0.887)EEDILR	2	-0.67733	17671.9	16295.8
Shc3	0.990032	1.77E-07	66.387	AAS(0.99)VECIS(0.01)PVTPR	3	1.2805	5011.2	5005.2
Map1a	0.983987	1.10E-70	102.03	EDVIEKAELEEMEET(0.984)HPS(0.0	4	0.15514	75912.9	74190.9
Gbf1	0.710638	3.83E-22	84.436	AAS(0.022)S(0.122)S(0.711)S(0.14	3	-0.09267	63989.6	61326.3
LOC10036	0.999937	1.79E-42	92.474	ALPTAAEDGS(1)PVLGEGPASK	4	-0.25155	49634.5	49435.8
Kat7	0.924675	4.49E-14	115.04	LSQSS(0.001)QDS(0.074)S(0.925)F	2	-0.26027	19549.2	20917.1
Spp1	0.945118	8.32E-67	128.05	TSHESSQLDEPS(0.945)VET(0.054)F	3	-0.79759	32471.9	30207.9
Ndn	1	3.40E-33	81.974	AHQPPS(1)PARPIPAPPAPAQLVQK	4	0.19806	39276.1	40955.5
Sf3a1	0.990103	5.38E-08	52.465	EKQS(0.99)DDEVY(0.01)APGLDIES	4	-0.98599	6605.8	6611.9
Arhgef7	0.786112	9.85E-22	82.635	IIVEET(0.177)KS(0.786)NGQT(0.03	4	0.63692	30391.9	31274.1
Ap2m1	0.977937	0.0110429	63.694	S(0.978)PVT(0.022)NIAR	2	0.17329	4167.3	4425.7
Coro1a	0.639223	3.63E-11	64.5	ATPEPS(0.001)S(0.019)T(0.069)LSI	2	0.25222	7630.3	8001.3
Limch1	0.99313	0.00321341	64.906	RT(0.007)S(0.993)HGEPK	3	-0.27316	25983.7	23759.2
Pard3	0.790355	2.82E-07	60.334	S(0.79)LPRDPS(0.162)S(0.043)WSI	3	1.1306	5733.2	6580.7
RGD15620	0.783272	1.25E-05	50.377	TEQS(0.008)QLPKPGT(0.104)S(0.1	3	0.55985	11649.3	10202.7
Sptbn1	1	3.81E-15	126.32	RPPS(1)PEPS(1)AK	3	0.21296	724195.0	770867.9
Elavl4	0.999999	5.45E-43	122.44	SSQALLSQLYQS(1)PNRR	3	-0.077188	110523.2	112795.8
Mllt4	0.996503	0.00753556	45.829	EY(0.002)FT(0.997)FPAS(0.002)K	3	0.31534	3408.0	2951.5
Cald1	0.973258	0.00306279	42.317	S(0.973)PDGNKS(0.027)PAPK	3	0.48604	15229.3	14443.1
Caskin1	0.576133	6.12E-27	78.272	ALAGLQS(0.001)S(0.001)S(0.002)A	3	-0.52219	7177.2	7665.1
Adam22	0.974795	1.98E-09	80.411	S(0.025)NS(0.975)WQGNVGGNK	2	-0.16327	131373.6	129194.6
Zmynd8	0.99884	4.56E-83	117.79	QDAIGKPPPPTPAGNQS(0.999)PPE	4	0.33526	51887.5	51281.9
Ahnak	0.732891	4.44E-36	138.91	GHY(0.007)EVT(0.733)GS(0.255)D	3	0.22365	37402.4	34326.9
Stambpl1	1	3.06E-30	127.97	SDVCDLANYS(1)PPVNR	2	0.42671	28717.3	29310.7
Fam83h	0.999909	1.36E-06	73.722	HGS(1)DPAFGPSPR	2	0.98146	8627.2	8433.3
Add1	0.905424	6.76E-20	70.449	EKS(0.905)PPDQS(0.093)AVPNT(0	3	0.44199	12694.9	12372.1
Add1	0.905424	6.76E-20	70.449	EKS(0.905)PPDQS(0.093)AVPNT(0	3	0.44199	12694.9	12372.1
Ctnn	0.687102	5.87E-12	58.432	KQT(0.935)PPAS(0.055)PS(0.011)F	5	-0.05374	34231.1	32595.9
Pja2	0.755856	1.64E-42	87.091	ENT(0.001)AGS(0.042)S(0.201)S(0	4	-0.31118	12449.2	12728.6
Arhgef6	0.928202	2.77E-07	96.371	KT(0.072)S(0.928)EEYVIR	2	-0.80713	83342.1	82497.9
Clec2l	1	0.000388989	84.882	S(1)PAEAEAR	2	-0.27506	50705.6	52107.8
Pdzd2	0.910209	3.29E-10	60.133	SLVPVGIPT(0.005)S(0.005)T(0.005	3	0.096381	5295.9	5113.3
RGD13107	0.903856	2.14E-06	76.728	TIT(0.003)VPVS(0.093)GS(0.904)P	2	0.73104	32662.7	33459.2
Slc9a1	0.862708	8.05E-06	82.515	IGS(0.863)DPLAY(0.137)EPK	2	-0.68329	93378.5	90453.8

16743.6	16402.6	18363.6	16177.0	0.0	0.9	305
5635.6	4719.5	5546.2	5458.2	0.0	0.9	474
87199.5	79650.3	71335.2	87409.0	0.0	1.0	901
63304.7	61627.4	64685.0	63177.0	0.0	0.8	1779
54215.8	49526.8	52320.8	52148.0	0.0	0.9	1146
20729.6	19462.7	20577.8	21439.0	0.0	0.9	58
34201.6	30957.3	28683.5	37691.0	0.0	1.0	219
37519.0	39098.1	40243.0	38957.0	0.0	0.9	88
6924.2	6434.3	6414.2	7387.1	0.0	0.9	449
30887.4	29913.4	32130.9	30941.0	0.0	0.8	676
4269.1	4436.7	3902.9	4582.7	0.0	0.9	45
8712.1	8269.1	7778.6	8410.0	0.0	0.9	426
27430.5	24514.8	26964.0	26056.0	0.0	0.9	97;100
6101.6	6166.8	6622.5	5712.7	0.0	0.9	201;201
13692.4	11182.2	11367.2	13162.0	0.0	1.0	976
740948.2	754286.4	757561.7	734670.0	0.0	0.8	2089
101649.9	107917.0	111139.0	107440.0	0.0	0.9	241
3145.1	3038.0	3248.4	3263.0	0.0	0.9	1239
16046.3	15857.0	13479.9	16598.0	0.0	0.9	523;491
7273.7	7244.0	7238.5	7738.2	0.0	0.9	1226
133793.6	130818.2	131304.3	134110.0	0.0	0.7	835
51652.2	48480.7	54248.6	52828.0	0.0	0.9	753
52177.0	39699.7	39333.6	45463.0	0.0	1.0	5520
28652.7	29782.5	29194.3	28117.0	0.0	0.8	227
8319.2	8566.3	8673.1	8261.4	0.0	0.8	522
13129.2	12361.3	12200.7	13817.0	0.0	0.9	631
13129.2	12361.3	12200.7	13817.0	0.0	0.9	646
37559.5	34934.7	32824.5	37129.0	0.0	0.9	421;384
14427.0	12901.4	13354.8	13539.0	0.0	0.9	81
78487.5	80426.9	87391.6	77688.0	0.0	0.9	486;657;615
49626.2	52902.6	50903.8	49369.0	0.0	0.9	29
5431.5	5337.9	5218.8	5360.5	0.0	0.8	2370
31451.7	33976.7	32185.4	31884.0	0.0	0.9	202
95199.2	90466.2	99904.3	90013.0	0.0	0.9	707

Prkra	0.830034	2.93E-09	123.92	EDS(0.158)GT(0.83)FS(0.012)LGK	3	1.322	162621.8	179565.0
Trak1	0.99909	2.26E-17	70.837	ELQLEEPES(0.999)PDIT(0.001)HQK	3	-0.93208	12432.5	11248.9
Myo5a	0.964384	4.79E-123	194.21	T(0.018)S(0.018)S(0.964)IADEGTY	3	-0.67379	76425.7	74932.4
Camk2b	0.499937	8.65E-05	99.732	NSSAIT(0.5)S(0.5)PK	2	-0.46558	78360.2	72864.8
Atp1a1	1	0.00674243	68.786	NPNAS(1)EPK	2	-0.4273	6503.4	7070.6
Nudt5	0.871311	0.011248	52.247	DS(0.121)S(0.871)PPT(0.008)EQR	2	-0.084443	5460.3	5324.9
Capn2	0.716805	0.00471091	65.627	S(0.283)DT(0.717)FINLR	2	-2.4492	6043.8	6679.7
Farp1	0.924633	1.01E-29	128.01	LGAPENSGIS(0.075)T(0.925)LER	2	-0.073903	41679.4	38103.5
Supt16h	0.951004	0.0129633	72.23	HS(0.049)S(0.951)APPK	2	0.25882	27864.6	28814.9
Pcdh18	0.82949	5.65E-06	85.45	S(0.829)S(0.169)PS(0.001)SSPTLEF	2	-1.3378	8127.0	7449.8
LOC10369	0.980545	2.41E-05	50.897	VQPES(0.019)VIS(0.981)LNGVVK	3	0.26163	3844.6	4024.4
Vps11	1	0.000711982	51.03	QEIQELKAS(1)PK	3	1.5727	17657.6	16752.1
Gapdh	0.5	1.10E-15	88.385	GAAQNIIPAS(0.5)T(0.5)GAAK	4	0.65466	37268.8	38434.8
Bag3	0.784562	7.42E-88	138.95	S(0.209)QS(0.785)PAAS(0.004)DCI	3	-0.48687	158459.4	158548.1
Tenc1	0.99812	1.20E-15	56.211	IPS(0.998)KDPLEET(0.001)S(0.001	4	-0.14328	5807.5	5134.2
Cdh10	0.999668	2.09E-07	58.246	LAEMYGGGES(1)DKDA	3	-0.16209	15162.5	16214.6
Palm	0.62171	3.33E-19	72.99	ADEVTL(0.001)EAGS(0.622)T(0.1	3	0.49359	16730.9	15469.8
Ctnnd1	0.846027	3.17E-61	156.58	S(0.003)QS(0.13)S(0.846)HS(0.021	3	0.082264	11969.7	12095.7
Ckm	1	4.81E-10	100.11	GQS(1)IDDMIPAQK	3	-0.018051	90872.6	111194.3
Mcc	0.989179	3.11E-05	46.461	ES(0.003)ADAAS(0.989)PALS(0.00	3	1.5033	2369.1	2854.0
Cast	0.845942	1.22E-29	119.65	S(0.846)LT(0.153)PT(0.001)LPMES	3	0.36651	37024.3	37291.8
Prkg1	0.779835	3.39E-09	56.131	T(0.2)WT(0.78)FCGT(0.019)PEY(0.	3	0.2691	20570.1	21350.4
Cdc42bpb	0.842829	4.76E-29	79.236	HSTPS(0.001)NS(0.002)S(0.008)NF	4	0.93458	3107.9	3801.7
Arpc5l	0.991968	4.20E-15	85.469	AFHAALRNS(0.992)PINT(0.008)K	3	1.0393	22670.5	24203.4
Ctnnd1	0.999997	4.89E-15	124.5	S(1)LDNNYSTLNER	2	0.48927	33757.6	33155.3
Irs2	0.98998	1.82E-27	100.76	QRS(0.99)PLS(0.009)DYMNLDFS(0	3	-0.6557	28741.2	27720.1
Slc26a6	0.868932	0.00082207	49.595	S(0.044)GPKS(0.869)PVLAT(0.087)	3	0.13995	27175.2	26670.4
Hdac4	0.5	0.001191	44.425	NLNHCMS(0.5)S(0.5)DPR	3	0.67199	6579.5	5607.2
Hdac4	0.5	0.001191	44.425	NLNHCMS(0.5)S(0.5)DPR	3	0.67199	6579.5	5607.2
Limk1	0.602263	1.20E-32	95.209	S(0.027)CS(0.602)IDT(0.28)S(0.09	2	1.8689	8941.6	8532.1
Arpc4	0.499988	1.16E-14	81.316	S(0.5)S(0.5)KELLQPVTISR	3	-1.2021	6626.8	6376.8
Arpc4	0.499988	1.16E-14	81.316	S(0.5)S(0.5)KELLQPVTISR	3	-1.2021	6626.8	6376.8
Map1a	1	8.15E-05	58.079	S(1)PCS(1)LKEQQPHK	4	0.53538	21944.1	24077.3
Rexo1	0.995535	9.24E-06	62.357	S(0.996)LDEGAPQDT(0.004)PK	3	0.18769	22523.8	23757.0

162943.5	176653.5	163887.2	167040.0	0.0	0.9	20
12814.0	12061.1	12009.4	12602.0	0.0	0.9	287
72934.4	77435.0	75238.9	72712.0	0.0	0.8	1625
74338.6	76692.5	75865.2	74110.0	0.0	0.8	367;367;343
7174.1	7374.8	6696.7	6778.6	0.0	0.9	499
4875.1	5130.5	5277.5	5329.3	0.0	0.9	10
6640.9	6100.7	6403.1	6955.9	0.0	0.9	464
43414.0	38772.5	42690.2	42341.0	0.0	0.9	24
27614.7	27446.2	28185.5	29078.0	0.0	0.8	1039
9050.9	7575.0	8509.8	8664.5	0.0	0.9	777
3031.1	3397.9	4362.5	3193.5	0.0	1.0	291
16454.0	17536.7	16458.2	17120.0	0.0	0.9	750
38193.0	37823.2	39421.2	37215.0	0.0	0.8	209
159717.6	158603.2	163481.1	157000.0	0.0	0.7	176
5356.9	5245.9	5144.8	5988.6	0.0	0.9	1215
15735.4	15111.2	15848.0	16387.0	0.0	0.9	782
16161.3	16519.2	18086.8	13996.0	0.0	1.0	248
12231.7	12060.0	12260.6	12157.0	0.0	0.6	856
103400.2	97806.2	109621.5	99558.0	0.0	0.9	372
2279.9	2503.4	2730.7	2306.3	0.0	1.0	877
39668.6	37982.7	38329.1	38241.0	0.0	0.8	156
19589.4	21080.7	20163.2	20573.0	0.0	0.9	517
4209.7	3607.5	3801.2	3766.1	0.0	1.0	1692
21635.7	20111.7	24758.3	23984.0	0.0	0.9	64
31697.6	31925.2	35435.2	31747.0	0.0	0.9	893
27966.0	27538.6	28975.2	28343.0	0.0	0.8	968
28717.7	26902.8	28542.4	27538.0	0.0	0.9	716
6287.3	6140.7	6095.0	6332.4	0.0	0.9	168
6287.3	6140.7	6095.0	6332.4	0.0	0.9	169
9245.9	9019.1	9064.6	8772.3	0.0	0.9	264
6680.3	6197.4	6649.0	6938.0	0.0	0.9	42
6680.3	6197.4	6649.0	6938.0	0.0	0.9	43
23949.1	21555.9	24977.4	23795.0	0.0	0.9	1398
23739.4	22072.9	24825.7	23480.0	0.0	0.9	473

Prcc2a	1	3.28E-20	68.291	EGVLAQVPLAPPQPGAPPS(1)PAPA	4	0.47171	18607.0	16127.9
Dnajc6	0.997956	5.98E-22	139.77	AT(0.009)T(0.125)S(0.294)AS(0.57	2	-0.38203	85632.0	85377.3
Frmd8	0.999986	5.68E-05	116.03	RQGS(1)VVCSR	2	-0.6827	66101.9	66477.4
Leo1	1	4.32E-05	105.65	MQNT(1)DDEDR	2	-0.43974	3778.2	3684.9
Prkcg	1	0.000117805	69.641	AAPALT(1)PPDR	2	1.6307	11340.8	12837.2
Depdc5	0.788295	1.98E-21	80.316	SASSCDVS(0.009)S(0.181)S(0.788)	3	0.15469	17751.8	19296.9
Kifap3	0.664242	8.46E-33	132.74	LKS(0.336)LNANT(0.664)DITSLAR	3	-0.28251	24869.8	22197.2
Rabgap1l	0.626172	2.06E-08	58.864	PS(0.047)S(0.626)PS(0.327)GFPEE	3	0.74496	9163.4	8641.4
Camk2b	0.736887	2.42E-19	66.467	ES(0.008)S(0.037)DS(0.737)T(0.17	4	-3.0266	10413.6	10025.9
Tpgs1	1	7.68E-08	84.054	RPS(1)APMAR	2	0.93499	3471.1	3816.7
Ablim2	0.899698	2.30E-37	106.67	T(0.43)S(0.527)S(0.042)ESIVS(0.00	3	-0.29976	85546.1	88994.9
Ablim2	0.899698	2.30E-37	106.67	T(0.43)S(0.527)S(0.042)ESIVS(0.00	3	-0.29976	85546.1	88994.9
Hspa12b	0.941883	2.08E-29	81.974	TQESCGIAPLT(0.004)PS(0.054)QS(	3	-0.49332	138577.4	148368.7
Epn2	0.994079	6.80E-52	113.73	AGGS(0.994)PAS(0.867)Y(0.133)H	3	-0.14678	26015.9	26829.4
Insig2	0.999071	3.53E-09	98.592	AEGET(0.001)ES(0.999)PRPK	3	-0.38676	19059.0	23664.8
Rhbdf1	0.63223	1.39E-06	95.477	S(0.144)VS(0.224)MPAET(0.632)A	2	-2.8988	24470.2	27124.5
Ppig	1	8.04E-05	89.886	HMS(1)ES(1)PNRKIEK	4	0.035875	133246.2	140350.3
Cxcr4	0.778693	2.09E-05	59.41	SSAQHALNS(0.221)MS(0.779)R	3	-0.51457	6323.9	6256.8
Vps4a	0.896715	2.86E-12	74.789	GS(0.001)DS(0.103)DS(0.897)EGD	3	-1.0761	143073.8	156332.3
Sorbs1	0.926089	2.52E-07	56.882	RES(0.926)DGT(0.074)PGGLASLEN	2	-0.84564	15438.0	14460.6
Herc1	0.5	0.00587113	50.786	MS(0.5)S(0.5)GAGPGVR	2	0.065512	9875.6	10081.3
Psd3	0.716733	7.34E-22	84.108	S(0.006)HS(0.139)S(0.717)PS(0.14	2	0.53704	45810.8	43120.8
Ppp1r12c	0.990185	2.80E-71	102.47	RGPAEGEEAVPAERS(0.99)PECS(0.1	4	-0.65914	10259.1	9681.8
Ktn1	0.983099	3.06E-60	141.45	EIQNGT(0.003)LHES(0.983)DS(0.0	5	-0.45232	102340.2	109189.1
Rtn4	0.991953	4.86E-43	96.793	ASISPSNVS(0.001)ALEPQT(0.007)E	4	-0.05286	10855.9	8599.8
Prkar1b	0.601255	4.72E-79	129.02	SNSQCDSHDEEIS(0.399)PT(0.601)	3	1.8422	101551.9	98642.3
Synpo2	1	0.00343011	47.712	QKT(1)PPPVPAPK	3	-0.21637	50154.6	50234.3
Rusc2	0.999998	8.37E-12	62.002	LSEPGALAGPAS(1)PPRR	3	-1.0736	29052.5	29351.2
Cldn11	0.709632	5.29E-26	108.72	FYYSSGS(0.009)S(0.07)S(0.71)PT(C	3	-0.012704	46822.2	44803.5
Tex2	0.59651	7.38E-09	61.87	S(0.144)S(0.144)S(0.597)KGS(0.11	3	-0.30286	13675.3	14862.1
Ppip5k1	0.5	0.000207667	71.176	T(0.5)LHS(0.5)PPLQLR	2	-0.011483	12186.8	12930.4
Nefl	0.786602	1.01E-15	59.372	AFPAYYT(0.212)S(0.787)HVQEEQS	4	0.4883	8197.8	7478.9
Fkbp15	0.997834	1.40E-06	82.925	RLS(0.998)LT(0.002)PDPEKK	3	-0.11069	68954.8	67164.1
Gtf2f1	0.970182	7.02E-10	59.359	GT(0.002)S(0.006)RPGT(0.97)PS(0	3	0.044354	7993.7	7612.7

17136.5	17734.7	17396.5	17006.0	0.0	0.9	1150
85324.7	85784.8	86904.3	84960.0	0.0	0.5	625;595
56233.3	66416.7	60890.3	62477.0	0.0	0.9	408
3618.5	3761.4	2919.7	4457.4	0.0	1.0	200
12201.9	12585.7	12289.4	11692.0	0.0	0.9	604
16520.0	17367.3	17770.5	18707.0	0.0	0.9	390
22346.8	23139.9	23486.7	23145.0	0.0	0.9	21
9493.5	8356.0	9320.3	9763.0	0.0	0.9	119
10648.5	10568.5	10767.7	9912.6	0.0	0.9	397;373
3059.6	3028.4	3708.4	3664.2	0.0	1.0	279
89193.6	90645.5	83263.4	91197.0	0.0	0.9	294
89193.6	90645.5	83263.4	91197.0	0.0	0.9	313
149028.6	136351.0	152014.6	149890.0	0.0	0.9	46
26815.1	26058.0	28527.4	25493.0	0.0	0.9	192
17637.9	21833.1	18847.7	19998.0	0.0	1.0	8
25054.2	26638.8	25544.9	24868.0	0.0	0.9	56
129226.2	135405.0	141114.4	128420.0	0.0	0.9	413
6357.1	6151.4	6227.7	6658.2	0.0	0.8	318
143066.6	148472.6	134595.7	161730.0	0.0	0.9	172
14858.1	14748.3	14424.6	15820.0	0.0	0.9	877;665;872;535
9090.2	9034.2	9690.5	10476.0	0.0	0.9	1406
40810.9	44914.7	43344.2	42170.0	0.0	0.9	1260
9298.3	8590.8	10210.0	10593.0	0.0	0.9	648
98227.1	99963.2	109343.6	102090.0	0.0	0.9	75
11184.1	10361.5	11623.6	8816.9	0.0	1.0	937
96556.6	98070.2	103860.4	96395.0	0.0	0.9	63
53293.8	52894.9	47721.4	53884.0	0.0	0.9	749
28653.8	29308.4	29418.7	28795.0	0.0	0.6	538
52633.8	39836.1	47584.6	57609.0	0.0	1.0	198
14609.0	14684.5	14421.3	14271.0	0.0	0.8	745
11887.8	11959.9	12408.0	12835.0	0.0	0.9	1000
7707.0	7631.9	8475.8	7401.1	0.0	0.9	446
71671.7	68137.0	69926.7	70841.0	0.0	0.8	1091
8313.9	7249.8	8059.8	8738.9	0.0	0.9	389



LOC10091	0.99897	0.0125994	64.82	RLS(0.999)QDT(0.001)YR	2	-1.8294	5028.6	5673.8
Nfic	0.985379	8.61E-55	133.94	SPFNS(0.014)PS(0.985)PQDSPR	3	-2.8911	114127.5	115395.4
Cdk5rap2	0.980236	1.10E-15	90.348	GLT(0.001)ES(0.019)AS(0.98)QEDI	3	2.2631	25532.9	24222.1
Mark1	0.932908	4.57E-48	117.03	VPAAS(0.933)PS(0.067)AHSISASTF	3	-0.92186	20397.2	18633.3
Nefl	0.996907	0.000229196	64.045	AAKDEVS(0.997)ES(0.003)R	3	0.30141	69905.3	69377.7
Srrm1	0.953085	5.28E-05	71.176	S(0.047)RVS(0.953)VS(1)PGR	2	-0.090898	51100.4	51087.7
Arvcf	0.792564	1.33E-25	72.935	GTPNSGGFDDS(0.793)T(0.207)LPL	3	-1.3816	19966.6	20102.1
Farp1	0.999616	4.01E-60	139.69	SPDEATAADQES(1)EDDLSASR	3	0.23619	52084.3	53857.4
Vcl	0.980114	0.000524422	55.261	T(0.02)IS(0.98)PMVMDAK	3	-1.5293	7621.7	6758.4
Bclaf1	0.604486	0.000945864	72.187	T(0.396)IT(0.604)PQNAPR	2	0.17566	15331.9	14749.1
Dchs1	0.744713	8.06E-22	70.761	KAEAAPGPMSQT(0.002)APIAS(0.0	4	-0.11298	9067.9	9397.9
Niacr1	0.871743	1.23E-06	55.755	S(0.034)T(0.034)S(0.872)VELT(0.0	2	0.058259	9625.9	11106.3
Gle1	0.729481	2.04E-26	77.66	T(0.04)S(0.04)APS(0.729)PS(0.185	4	0.67774	53003.9	51757.9
Usp32	0.593788	0.00107862	77.597	S(0.001)GAS(0.594)CPS(0.394)S(0	2	-0.57221	10794.3	10187.2
Sh3kbp1	0.964121	6.66E-40	121.41	ETT(0.006)GS(0.03)ES(0.964)DGGI	3	0.24514	20676.3	25159.9
Mpzl1	0.803006	0.0103968	54.023	DYT(0.001)GCS(0.162)T(0.803)S(0	2	0.12481	2928.3	3198.2
Gigyf1	1	2.34E-42	111.58	VPFAPGPS(1)PPPLLGNDQER	3	2.4403	4167.9	4438.3
Phf23	0.745359	2.60E-92	113.97	VAS(0.041)PLS(0.745)PT(0.172)S(C	4	-0.62533	6514.9	6176.3
Prx	0.976817	0.000562302	112.83	S(0.977)RS(0.023)AEELR	3	-0.078903	164709.0	169254.0
Cdk12	0.989175	0.00016007	60.55	ES(0.011)KGS(0.989)PIILPK	3	0.039421	43549.5	44350.5
Ptdss1	0.59542	0.00179743	54.343	T(0.595)LS(0.396)KDDVNY(0.008)I	3	0.22881	16488.8	15059.5
Rai14	0.997467	9.53E-33	98.3	KAPPPPIS(0.997)PT(0.003)QLSDV	3	0.62784	22623.9	23005.6
Hivep2	1	2.70E-08	92.38	S(1)IEQAEDAHHK	3	-1.2696	55982.0	52298.7
Itsn1	0.912859	9.09E-70	137.61	SAFTPATATGS(0.002)S(0.085)PS(0	3	-0.35615	80012.1	77934.7
Sec16a	0.970556	2.19E-66	122.79	FT(0.029)GS(0.971)FDDDELHR	3	1.2821	29955.3	32967.8
Rfc1	0.996249	4.10E-05	90.793	ESVS(0.996)PEDS(0.004)EK	2	-0.059579	15859.1	15990.8
Fbxl2	0.999927	2.09E-33	94.384	VHAYFAPVT(1)PPPAVAGSGHR	3	-1.5187	45187.0	46526.7
Ndrp2	0.936946	1.87E-42	132.83	T(0.002)AS(0.937)LT(0.058)S(0.01	2	1.0902	451679.6	472956.8
Atf2	0.741177	1.54E-10	64.331	NDS(0.001)VIVADQT(0.21)PT(0.74	3	-0.62958	14343.2	13535.9
Acin1	0.99842	2.89E-07	64.476	EPIVS(0.998)PHT(0.002)VQLLR	3	-1.3484	10315.6	9578.2
Epb41l1	0.997119	1.29E-42	148.97	RSEAEEGEVRT(0.997)PT(0.003)K	3	-0.093382	161131.0	162146.0
Rbm15b	0.902064	1.70E-12	72.583	S(0.098)LS(0.902)PVAAPPLREPR	3	0.37869	24816.1	24800.1
Syn1	0.999528	4.09E-11	53.147	QS(0.001)RPVAGGPGAPPAARPPA	4	0.53569	7066.5	8140.9
Rap1gap	0.864402	1.23E-66	128.4	GSALGIGAVEES(0.002)LIVPGKS(0.1	3	-0.82922	56220.5	59062.3



5618.2	6611.7	4819.3	4977.2	0.0	1.0	44
110541.8	116012.7	119164.5	106720.0	0.0	0.9	339
23524.3	24330.0	25432.7	23913.0	0.0	0.9	483
22130.7	20230.5	20674.0	20588.0	0.0	0.9	588
68195.6	69363.5	72921.1	66318.0	0.0	0.9	307
46301.3	49261.7	56352.8	43683.0	0.0	0.9	344
20972.4	20488.9	20451.7	20433.0	0.0	0.7	801
52599.7	51807.0	51277.8	56321.0	0.0	0.9	883
6783.6	7357.0	7179.3	6742.9	0.0	0.9	795
14232.1	14830.8	14887.3	14837.0	0.0	0.8	303
9013.4	8973.3	9730.2	8925.8	0.0	0.9	2978
12169.9	10051.1	10829.6	12202.0	0.0	1.0	325
45964.9	52203.0	51316.3	48037.0	0.0	0.9	367
10762.5	10957.9	10277.4	10684.0	0.0	0.8	1213
23869.3	23131.1	21880.5	25079.0	0.0	0.9	133
3190.9	2819.6	2841.1	3708.2	0.0	1.0	205
3864.2	4207.2	4174.3	4158.0	0.0	0.9	536
6268.3	5726.7	7116.7	6221.2	0.0	0.9	83
156129.7	174860.6	166441.3	151510.0	0.0	0.9	5;5
38174.9	42908.3	43944.8	39923.0	0.0	0.9	422;421;422
16051.6	15841.6	16349.2	15674.0	0.0	0.9	9
23478.5	23033.2	23017.5	23442.0	0.0	0.7	231
60385.4	57469.6	55868.7	56268.0	0.0	0.9	169
79512.8	76745.3	80643.1	81399.0	0.0	0.8	901
32611.0	31456.6	33232.7	31380.0	0.0	0.9	1330
17227.0	16559.9	16118.4	16674.0	0.0	0.9	363
45965.9	46038.8	47494.8	44921.0	0.0	0.8	404
449428.0	459684.2	460040.5	462080.0	0.0	0.7	318
12352.0	12838.7	13861.4	13758.0	0.0	0.9	53
11440.6	11231.7	10129.0	10151.0	0.0	0.9	362;468;468
151317.6	156447.3	162733.1	158100.0	0.0	0.8	475;467
24389.9	24306.9	25254.2	24864.0	0.0	0.7	263
6735.6	7559.3	7227.8	7280.4	0.0	0.9	549
55352.9	57361.8	56647.7	57596.0	0.0	0.8	574

Efcc1	0.988055	8.15E-19	99.963	RPGS(0.988)PS(0.012)LHGGAYGEF	3	0.083804	12661.5	12838.3
Sybu	0.989054	0.000138459	90.104	S(0.001)GS(0.01)S(0.989)PPSPR	2	-0.72712	12279.8	11286.2
NdrG1	0.995731	5.51E-47	142.23	T(0.996)AS(0.004)GSSVTSLEGTR	2	0.38665	121510.2	117655.1
Tubb4a	0.999976	1.89E-33	114.96	INVYYNEAT(1)GGNYVPR	3	0.77465	7447.7	7801.7
Cep170	0.905276	0.0132877	61.344	S(0.905)S(0.032)ES(0.063)ELPK	2	2.4778	35776.8	31615.3
Map4	0.984332	2.65E-05	48.053	VGS(0.016)LDNVGHLPAGGT(0.984	3	3.3991	6528.6	6407.3
Irs2	0.999826	2.01E-38	88.573	GPGTGGEEAAAAGGS(1)PPQPPR	3	-0.4453	18302.9	20735.0
Nup205	0.570408	1.21E-09	75.01	S(0.424)VS(0.57)GFLHFD(0.005)A	3	-0.15479	16798.9	14462.8
Atm	0.983882	8.44E-40	122.44	S(0.016)AT(0.984)PANSSESEENFLI	3	-0.77584	21079.4	21541.2
Ckm	0.948143	9.21E-12	71.601	LSVEALNS(0.052)LT(0.948)GEFK	2	-0.24436	5251.6	6517.3
Prx	0.759001	2.09E-57	93.483	VS(0.226)S(0.759)LGIS(0.015)LPQ	4	0.57102	14543.5	13711.4
Thoc5	0.986811	0.000756382	73.082	S(0.002)DGT(0.987)PT(0.011)EGKI	2	-0.91915	9026.3	9638.2
Cables1	0.957863	5.20E-53	150.91	S(0.021)S(0.021)LET(0.958)LEDIEE	3	-0.4286	27926.6	27441.5
Edc3	0.999595	5.10E-32	92.39	SQDVAIS(1)PQQQCS(0.075)KS(0	4	-0.79509	66334.4	67708.2
Gprc5b	1	9.26E-08	88.092	AFS(1)MDEHNAALR	3	0.15516	3158.3	3464.1
Camkk2	0.999882	8.41E-09	60.621	GGPCVESC GAPAPGS(1)PPR	3	0.7941	10835.1	11189.6
Mapt	0.967429	2.91E-13	100.23	S(0.03)RT(0.967)PS(0.002)LPTPPT	2	0.76548	56527.0	57400.5
Mcc	0.978117	1.14E-29	126.63	LQSVQATGPS(0.022)S(0.978)PGR	2	-0.048369	34499.4	33848.6
Eprs	0.752138	7.96E-05	72.34	LNLNNT(0.752)VLS(0.248)K	3	-0.28576	2619.1	2621.3
Camk2g	0.937599	3.29E-119	186.15	GST(0.001)ES(0.058)CNT(0.938)T(	3	-0.84618	148214.3	158723.6
Pde4dip	0.999953	2.95E-05	57.62	YSNPAQPHS(1)PAR	2	0.23656	6834.4	7569.9
Pld1	0.982829	0.000134945	50.957	S(0.983)VQT(0.017)GVGELHGETR	2	-0.13155	9125.0	8516.8
LOC10369	1	2.72E-07	56.746	DEAEKPARPCS(1)PHR	3	0.57803	19251.0	19465.9
Ltb4r	0.986457	0.0597497	47.869	GGT(0.014)LVQT(0.986)PK	2	-2.9499	10143.6	11003.2
Adam22	0.768818	2.07E-06	76.358	SNGLS(0.769)HS(0.228)WS(0.003)	3	0.7849	6828.0	7029.7
Gpr162	1	0.0171538	59.067	AGGS(1)VGAK	2	0.18842	22558.3	22950.7
Tsc2	0.957101	2.83E-18	71.309	S(0.043)LS(0.957)VPAAGTAKPPTLI	4	-0.96549	51223.2	50095.0
Dmd	0.908786	7.26E-18	99.705	VNGTTVS(0.04)S(0.909)PS(0.046)T	2	0.61826	28474.0	30330.8
Flna	0.984624	4.43E-20	68.42	FNEEHIPDS(0.985)PFVVPVAS(0.01	3	-2.0459	12932.2	13586.4
Uhrf1bp1	0.82109	2.33E-09	75.535	S(0.064)LS(0.115)GS(0.821)GEVLC	2	2.7495	27590.3	28954.2
Nefm	0.993143	2.89E-83	215.71	GS(0.993)PS(0.006)T(0.001)VSSSY	2	-0.036216	453754.9	460210.6
Map1b	0.73773	4.99E-121	171	ESTAAYQT(0.738)S(0.121)S(0.121)	2	0.20608	54494.7	53964.9
Osbpl3	0.848734	8.62E-44	99.954	RT(0.151)S(0.849)LPAPGPNTSSVS'	3	0.32878	11861.4	11854.4
Ank1	1	1.83E-07	95.183	RDS(1)RDVGEEK	3	0.26923	22369.9	22772.0

12873.7	13373.3	11548.8	13671.0	0.0	0.9	172
11794.1	11193.2	12789.5	11580.0	0.0	0.9	198
132665.0	113031.9	128023.5	132910.0	0.0	0.9	328
7348.2	7625.5	7322.8	7779.1	0.0	0.8	55
37452.0	34979.8	33544.7	36926.0	0.0	0.9	125
6819.0	5998.6	6844.6	7026.1	0.0	0.9	2135;1059
18508.8	18461.7	19812.7	19606.0	0.0	0.9	67
17183.3	16104.5	14860.6	17761.0	0.0	0.9	1056
23424.3	20955.3	22491.7	22981.0	0.0	0.9	1892
6610.8	5155.5	7441.2	5889.7	0.0	1.0	166
13929.8	13686.8	14261.1	14482.0	0.0	0.8	1080;1080
8822.5	9822.9	8468.4	9355.5	0.0	0.9	19
26115.7	27720.1	30472.4	23767.0	0.0	0.9	204
65280.7	66084.5	69504.6	64900.0	0.0	0.8	129
3535.3	3180.0	3558.6	3478.5	0.0	0.9	329
10992.4	11078.8	10326.8	11805.0	0.0	0.9	571
55828.8	58500.3	58423.8	53832.0	0.0	0.8	457;541
33078.4	34890.7	33315.0	33819.0	0.0	0.8	469
2575.0	2652.4	2599.3	2609.9	0.0	0.5	431
135986.7	144941.7	158159.3	142440.0	0.0	0.9	385
6982.2	7254.2	7153.7	7105.1	0.0	0.9	1770
9738.1	8612.7	9763.7	9165.4	0.0	0.9	591
21128.9	19392.3	21714.8	19093.0	0.0	0.9	265
10235.9	10676.0	10224.8	10668.0	0.0	0.9	324
6777.9	6280.1	7154.6	7323.3	0.0	0.9	809
21238.5	23168.5	21381.4	22594.0	0.0	0.9	222
49361.1	50004.2	50998.9	50571.0	0.0	0.7	1195
33258.4	28976.2	30946.9	32687.0	0.0	0.9	532
13085.5	13928.8	13047.1	12864.0	0.0	0.8	2311
26399.9	29365.6	25196.5	28877.0	0.0	0.9	785
422769.3	467042.9	452613.4	425060.0	0.0	0.9	44
60969.9	54914.4	57337.0	58190.0	0.0	0.9	1809;1683
10892.4	11683.8	11744.4	11387.0	0.0	0.8	478
23090.0	23725.0	22358.2	22557.0	0.0	0.8	749

Sorbs1	0.883542	1.33E-30	88.841	RVGEQDPVPT(0.057)PAELT(0.059)	4	0.12657	53334.2	54469.5
Nfatc4	0.756295	1.16E-09	97.065	RT(0.193)S(0.756)S(0.05)EQAVALL	2	-0.6131	13912.6	14570.3
Prrt3	0.998795	6.27E-09	111.96	CRS(0.999)LS(0.001)EVCLR	3	0.65345	20732.3	21566.4
Tsc22d3	0.997169	3.37E-34	115.2	GRS(0.997)GENNPGS(0.003)PTVSI	3	0.02373	10058.0	10969.1
Stk11ip	0.983465	1.56E-30	123.02	SHLET(0.017)MGS(0.983)PPLATIK	3	0.39373	64224.6	68586.8
Dido1	0.74379	1.03E-78	102.13	S(0.174)DS(0.744)PVADMEDS(0.0	4	-0.76885	32607.9	32544.4
Hbs1l	0.812739	9.90E-07	85.45	S(0.005)S(0.005)QS(0.813)ES(0.17	3	0.29986	8292.1	6786.7
Nab2	0.934079	0.000110201	40.493	S(0.005)FS(0.061)PKS(0.934)PLELC	3	-0.23132	10502.4	11481.4
Lingo1	0.716961	2.82E-12	88.19	KS(0.267)DAGIS(0.717)S(0.016)AC	2	-0.028221	27785.9	29089.1
Map1a	0.761868	6.55E-146	165.23	AT(0.003)VS(0.168)PS(0.762)T(0.0	4	-0.79079	106267.7	111347.8
Nefh	0.958177	3.21E-30	124.04	S(0.958)AAGS(0.027)S(0.009)S(0.0	2	0.64014	25481.6	27239.7
Lmo7	0.999118	0.0269669	65.474	IS(0.001)AS(0.999)LPR	2	0.30222	20000.0	21195.7
Mecp2	1	4.35E-05	47.726	KPGS(1)VVAAAAAEAK	3	1.4935	14550.7	16635.8
Lzts2	1	9.78E-12	101.3	VAGGLLGS(1)GAR	2	-0.13249	10921.2	11131.5
Caskin2	0.535119	1.20E-06	51.469	GS(0.535)S(0.465)GEGLPFAEEGNL	3	-0.29233	11496.5	12284.3
Itsn1	1	0.00643866	57.347	RVAS(1)PAAK	3	0.88973	3392.0	4077.7
Scaper	0.90651	1.85E-15	89.358	ELS(0.907)DEEVEHLS(0.093)LKK	4	-0.35255	22400.9	22259.7
Ankrd17	0.99962	1.03E-09	78.95	NS(1)PLDCGSASPDK	2	0.22099	35908.0	40319.3
Phactr3	0.88597	2.45E-17	70.197	SASQLPS(0.114)PPLLPT(0.886)PPP	3	0.16122	6822.1	5782.2
Arfgef1	0.851684	4.47E-05	88.42	GREGS(0.148)LT(0.852)GTK	3	0.49483	28177.1	27200.2
Rab5b	0.931322	9.37E-12	69.111	QAS(0.069)PS(0.931)IVIALAGNK	3	0.093386	20126.5	18053.0
Plekha4	0.9269	1.11E-05	42.123	VLS(0.927)LS(0.073)QALATEASQM	3	1.3772	1692.5	1690.6
Brsk1	0.999993	3.18E-14	111.35	STPLPGPPGS(1)PR	2	-0.66994	100421.2	103728.7
Fry	0.999628	2.85E-05	47.082	LVHVLS(1)LCGQEVGLSK	3	1.6557	4361.7	4549.8
Sorbs1	0.797064	3.20E-39	73.602	RPHHSQPASACGS(0.001)LS(0.018)	5	0.3022	9800.1	10277.2
Sorbs1	0.796989	3.20E-39	73.602	RPHHSQPASACGS(0.001)LS(0.018)	5	0.3022	9800.1	10277.2
Tmem100	0.999673	2.23E-22	129.05	RRES(1)QTALVVNQR	3	0.78386	50264.3	49513.6
Dmtn	1	1.14E-08	91.969	MDRGNS(1)LPCVLEQK	4	-0.94597	62546.5	64323.1
Spag9	0.999786	2.39E-22	93.096	VSHS(1)PEPLK	3	0.73417	54765.5	54913.8
Plekha3	0.5	0.00737108	41.293	RS(0.5)S(0.5)LAAEDGK	3	-0.68877	7009.6	7428.4
Fam169a	0.803551	8.96E-22	83.894	T(0.006)S(0.006)ES(0.804)S(0.185	4	-0.42658	10838.8	12106.6
Pbrm1	0.960252	0.0025306	58.829	T(0.038)YS(0.96)QDCS(0.001)FK	3	1.4513	18675.0	17084.4
Rps2	0.803513	0.000278721	70.942	T(0.021)HT(0.804)RVS(0.176)VQR	3	1.4103	19780.6	20596.8
Kif3c	0.805061	1.40E-19	61.586	S(0.03)WCQS(0.805)PQRPPPPS(0.	5	0.33315	6243.8	6118.7

53177.8	49757.8	55935.0	56253.0	0.0	0.9	562;371;613;350
14257.7	13782.5	14563.5	14651.0	0.0	0.8	334
22252.1	20858.5	20952.9	23127.0	0.0	0.9	870
9344.1	10876.2	9639.5	10038.0	0.0	0.9	34
65781.0	62482.1	67913.4	69395.0	0.0	0.9	442
36139.3	35847.7	34895.5	31160.0	0.0	0.9	1690
6990.3	7707.5	7301.1	7193.9	0.0	0.9	147
9630.4	10251.4	10275.2	11279.0	0.0	0.9	162
29871.7	29053.2	29949.8	28270.0	0.0	0.8	601
114630.0	107815.8	120917.1	105530.0	0.0	0.9	1492
27687.1	26996.3	27391.5	26510.0	0.0	0.8	39;39
21185.3	21826.5	21208.3	19726.0	0.0	0.9	578;588
15000.8	15344.4	16519.1	14605.0	0.0	0.9	274
12871.5	12064.4	11030.5	12043.0	0.0	0.9	296
12146.5	12097.4	11271.0	12779.0	0.0	0.9	941
3496.5	3610.1	3567.5	3855.8	0.0	0.9	992
18755.8	22284.1	21573.8	19947.0	0.0	0.9	829
40694.9	34339.6	41236.8	42062.0	0.0	0.9	1793
5607.7	6232.6	6024.7	6066.4	0.0	0.9	194
23532.8	26726.8	27401.1	25267.0	0.0	0.9	1078
18908.0	18722.4	19011.2	19706.0	0.0	0.9	125
1591.0	1590.8	1789.7	1624.4	0.0	0.9	675;603
92369.4	100707.9	98825.0	98823.0	0.0	0.9	418
4742.3	4340.8	4533.8	4863.9	0.0	0.9	2401
10589.5	9806.9	9988.6	11062.0	0.0	0.9	455;264;506;243
10589.5	9806.9	9988.6	11062.0	0.0	0.9	451;260;502;239
51420.1	48941.6	52576.2	50623.0	0.0	0.8	121
62774.5	63281.8	67492.3	60054.0	0.0	0.9	333
53884.7	53085.2	54280.7	57220.0	0.0	0.8	251
7174.2	7926.5	6831.6	6989.3	0.0	0.9	516
11763.2	11723.4	11689.9	11513.0	0.0	0.9	376
15740.7	17854.5	15715.5	18253.0	0.0	0.9	984
19176.3	20802.4	19585.0	19541.0	0.0	0.8	278
5425.1	5721.1	6462.9	5715.6	0.0	0.9	768

Sipa1l2	1	8.69E-06	57.288	LMLPDS(1)PLVEEGR	2	0.53736	7599.2	7073.3
Osbpl8	0.996422	7.31E-93	170	ELQPS(0.004)LS(0.996)PASLHSQG	3	0.1635	9484.2	9536.0
Bag6	0.864816	8.69E-31	129.05	AAGARPLT(0.865)S(0.135)PESLSR	3	0.37877	35218.6	34209.5
Gtpbp1	0.933157	5.19E-33	81.055	SPVDSVPAS(0.002)MFAPEPS(0.0	3	0.47992	23852.4	22028.2
Tonsl	0.546326	0.0625316	56.177	GAS(0.454)VT(0.546)LR	2	0.49257	11511.9	15046.4
RGD13071	0.566108	8.36E-15	51.631	RLFLGDQTVNLPT(0.038)S(0.038)G	4	2	3676.2	3837.1
Wdte1	0.83892	1.71E-22	140.49	KDS(0.161)IS(0.839)EDEMVLRL	3	0.22491	37070.9	36130.2
Slc7a11	1	1.13E-10	66.022	LPS(1)VGDQEPGHEK	3	0.96865	12632.9	13992.2
Col6a3	1	4.55E-09	130.99	RDS(1)FQEVLR	3	0.78728	30775.9	34196.3
Map3k9	0.987635	0.000153246	51.771	FTVQAS(0.988)PT(0.012)MDKR	3	-0.31289	10908.5	12838.3
LOC68482	0.864903	0.0265132	66.663	KT(0.865)S(0.129)S(0.006)AAGK	3	0.52749	41353.8	41952.6
Ftsj3	1	6.21E-61	155.76	QAS(1)EEEEEEEEQLNR	3	-0.15998	21273.8	20575.9
Npdc1	0.589862	0.0030625	55.467	GPT(0.59)S(0.402)PT(0.007)T(0.00	3	0.103	12061.6	12987.5
Pacs2	1	1.91E-26	114.03	EPPS(1)PADVPEK	2	-0.60412	75460.8	70130.2
Palm	0.811845	0.000243492	73.082	VLS(0.812)S(0.081)T(0.103)T(0.00	2	2.2866	13350.9	12422.6
Cacna1b	0.624657	1.07E-21	83.792	S(0.032)S(0.032)S(0.625)VS(0.299	3	0.28279	3516.3	3603.8
Zfp295	0.516941	1.48E-06	50.783	RS(0.517)LS(0.409)MDS(0.073)QV	3	-0.12018	7384.7	8508.9
Ppl	0.992673	6.27E-15	68.445	S(0.993)IVVIDPDT(0.007)GRELSPE	4	2.009	2984.9	2843.2
Eprs	0.635389	2.52E-30	85.805	S(0.005)QGS(0.635)GLS(0.306)S(0	3	0.81796	10786.2	11724.9
Akap6	0.819913	3.84E-08	95.273	S(0.82)T(0.144)PS(0.036)LVDPPDF	2	0.98586	72557.8	68750.2
Syn1	0.793231	1.98E-23	62.487	QT(0.207)S(0.793)QQPAGPPAQQF	4	0.39512	1860.3	2500.2
Bcas3	0.671381	3.58E-09	58.952	CSPVPGLS(0.118)S(0.424)S(0.475)	3	0.17578	84512.1	81005.0
Araf	0.976034	0.00268351	55.353	S(0.018)AS(0.976)EPS(0.006)LHR	3	0.1738	514.7	548.2
Rbm15	0.996673	0.0108192	63.944	KNS(0.003)AS(0.997)AER	2	0.4574	27859.8	26252.5
Insm2	0.999509	8.30E-40	119.94	RLS(1)FADEVTTSPVLGLK	3	-0.2122	36106.0	32544.4
Tex264	0.977608	0.000471346	79.492	ELS(0.022)T(0.978)PERGEE	2	-0.15148	13102.8	15387.5
Hdac6	0.789161	1.48E-14	115.38	KLPQS(0.013)AS(0.789)PVS(0.198)	2	-0.34707	39524.2	43085.7
Srrm2	0.99498	3.50E-54	88.78	S(0.995)PVPS(0.005)AFSDQSR	2	0.93749	48753.2	38997.5
Wasf1	0.75869	4.23E-07	43.732	PT(0.001)PT(0.009)CVS(0.081)S(0.	4	-0.4537	3260.7	3429.7
Clasp2	0.958317	2.58E-05	119.6	LSS(0.023)S(0.958)VS(0.019)AMR	2	-0.32601	39996.5	36156.5
Kcnh7	0.69867	1.12E-07	54.253	S(0.047)FS(0.212)PS(0.699)S(0.04	3	0.63323	7603.9	7601.3
Tcf20	0.989365	1.38E-37	141.86	AGS(0.006)S(0.989)PT(0.005)QGA	2	0.81324	13732.5	12051.8
Mapt	0.977273	1.72E-21	72.228	S(0.004)PVVS(0.977)GDT(0.017)S(	2	-0.030884	80350.8	79688.7
Capza2	0.578171	0.000102679	46.249	FT(0.002)VT(0.026)PS(0.118)T(0.5	3	1.6173	3144.5	3520.8

7643.2	7348.3	7754.0	7354.1	0.0	0.8	1461
9789.2	9048.2	9705.9	10238.0	0.0	0.9	51
31942.5	32905.3	35185.1	33923.0	0.0	0.9	1094
22946.2	22515.1	23668.3	23081.0	0.0	0.8	25
13983.0	14098.2	11455.9	15245.0	0.0	1.0	629
4587.4	3906.1	4353.5	3918.1	0.0	0.9	4294
34868.1	35081.0	36557.2	37119.0	0.0	0.8	451
12197.6	11999.5	13400.8	13670.0	0.0	0.9	26
31036.4	28974.0	32953.8	34694.0	0.0	0.9	1243
11044.6	10970.3	12773.5	11270.0	0.0	0.9	526
44156.0	42347.3	42315.1	43615.0	0.0	0.8	27
20030.2	19977.5	20594.9	21704.0	0.0	0.8	353
12163.5	12514.2	11740.1	13198.0	0.0	0.9	234
74527.1	71918.7	75483.7	74135.0	0.0	0.8	349
13304.8	12539.5	13897.7	12893.0	0.0	0.9	188
3851.1	3803.9	3644.4	3593.9	0.0	0.9	771
7801.7	7811.0	8271.1	7766.6	0.0	0.9	343
2928.3	2853.6	2825.0	3134.8	0.0	0.9	1655
10101.1	10842.4	10696.1	11286.0	0.0	0.9	995
72676.7	67983.0	74116.9	73279.0	0.0	0.9	423
2103.0	2086.1	2326.1	2093.5	0.0	0.9	447
84542.2	85158.9	83084.9	83449.0	0.0	0.7	492
728.2	526.2	626.7	649.8	0.0	1.0	580;621
24321.7	27567.2	25485.0	25895.0	0.0	0.9	725
32222.5	33981.1	35228.9	32323.0	0.0	0.9	168
14224.7	14182.9	14661.8	14151.0	0.0	0.9	303
39325.7	40914.1	42162.3	39661.0	0.0	0.9	859
46453.5	42758.7	44136.1	48195.0	0.0	0.9	2407
3454.1	3372.1	3350.8	3488.6	0.0	0.8	298
35808.2	37866.1	36700.4	38135.0	0.0	0.9	594;804
8023.6	7816.1	8083.0	7483.3	0.0	0.8	1105
12413.7	11986.3	14300.6	12164.0	0.0	0.9	592
78551.4	75394.5	84755.2	80021.0	0.0	0.9	614;729
3785.4	3526.0	3490.8	3503.1	0.0	0.9	185



Tmem25	0.999507	1.84E-42	156.88	RPS(1)LISSDSNNLK	3	0.3141	16455.4	15773.6
Als2	0.999974	4.16E-60	164.65	RLS(1)LPGLLSQVS(1)PR	3	-0.10354	44346.2	43164.7
Dpysl4	0.779969	1.96E-19	71.297	GLYDGPVHEVMLPAKPGS(0.78)GTI	4	-0.95949	9242.2	9437.4
Prkd1	0.73175	2.31E-12	69.986	RLS(1)NVS(0.732)LT(0.253)GLGT(C	3	-0.10584	13527.4	12601.4
Sec16a	0.971486	1.58E-13	109	APS(0.028)LT(0.971)PDS(0.001)EC	3	0.096475	58220.6	55405.2
Brd9	0.978706	2.09E-48	90.062	LSVGEQPDVTHDPY(0.021)EFLQS(C	4	1.2599	22386.6	23845.8
Limd1	0.864503	8.90E-15	119.02	RDS(0.135)S(0.865)LGYEAPGR	3	0.0074511	11126.6	10979.0
LOC10091	0.876354	4.30E-54	160.95	GS(0.124)S(0.876)QLDVNEEVEALI'	4	-0.74933	71874.4	71575.9
Cacng3	0.793666	0.00684273	81.95	DLS(0.794)PIS(0.206)K	2	-0.83639	36009.4	33708.2
Atp2b4	0.999783	0.0010791	77.062	FQTGAS(1)FK	3	0.67446	77992.9	80315.0
Mecp2	0.997206	1.38E-17	95.197	AGS(0.003)LES(0.997)DGCPK	2	0.06721	104571.8	103907.5
Limk1	0.968763	5.82E-75	94.45	LLQLTLEHDPHDSLGHGPPVS(0.004)I	5	-0.53591	29119.3	29192.2
Dnajb6	1	0.00170067	52.247	HAS(1)PEDIKK	4	0.83677	47333.9	46825.1
Epb41l3	0.999322	2.17E-07	69.864	ET(0.001)EIT(0.999)PEDGED	2	0.44389	59116.4	61901.1
Kcnq2	0.998838	1.26E-17	97.765	GPTAPS(0.001)RES(0.999)PQYSPR	3	0.87621	33397.4	34969.6
LOC10369	0.995166	7.34E-05	77.062	RLAS(0.005)DS(0.995)PALPK	3	0.10502	23307.3	25248.8
Nr1d1	0.534855	3.17E-06	52.451	S(0.133)PS(0.535)PEPT(0.332)VED	3	-0.62445	4387.7	4254.6
Slc4a4	0.99992	4.63E-34	137.73	MFSNPDNGS(1)PAMTHR	3	-1.0629	22737.2	21461.1
Syt7	0.99785	1.75E-15	104.88	NSLET(0.002)VGT(0.998)PDSGR	2	-1.0582	12097.3	12818.5
Arhgap29	0.995324	2.51E-30	84.947	LEEDRCS(0.995)NS(0.005)ADMTG	3	-3.1056	14300.2	13930.8
Ssfa2	0.981281	2.41E-51	161.91	S(0.995)QS(0.981)LPT(0.02)T(0.00	3	0.07421	221432.9	214995.3
Amigo3	0.538091	4.81E-43	90.03	AS(0.538)S(0.461)PLQELS(0.001)A	3	0.9278	10056.9	9854.1
Scaper	0.999857	1.64E-19	62.706	AGAVVFS(0.001)CLIANRPDNGS(0.	4	0.46599	44234.1	45564.7
Arhgef10	0.9718	3.37E-107	124.82	VNPYSVIDIT(0.972)PFQEDQPPS(0.	4	-0.70042	29573.7	28264.2
Pclo	1	0.00123682	42.818	EKPELVDDL(1)PR	3	0.76415	9205.0	8613.7
Pex5l	0.864326	1.02E-29	107.72	GPET(0.017)S(0.118)S(0.864)LDLD	3	0.61336	15119.6	16635.8
Itpr3	0.999969	8.07E-40	125.31	S(1)IQGVGHMMSTMVLSR	3	-0.12344	35964.1	37436.6
LOC69188	0.989688	1.42E-08	130.99	EQS(0.01)S(0.99)DDFCR	2	-0.67842	94561.6	95285.7
Zcchc6	0.999997	5.19E-51	123.12	DLASLEAMTEVEAGS(1)PENKK	3	0.67256	10325.5	8712.4
Als2	1	4.16E-60	164.65	RLS(1)LPGLLSQVSPR	3	-0.034834	53609.7	52603.6
Abi2	0.999443	8.22E-23	91.622	TTPPTQKPPS(0.999)PPMSGK	4	-0.59476	210472.1	215192.8
Pnn	0.910433	2.45E-07	83.877	GFS(0.09)DS(0.91)GGGPPAK	3	0.53832	58042.9	51753.5
Ip6k1	0.788923	1.82E-06	77.894	S(0.036)GS(0.175)GS(0.789)DHKEI	4	0.19429	38595.1	39425.3
Eepd1	0.598894	2.98E-15	79.837	DIPGQES(0.599)S(0.4)PS(0.002)NC	3	-0.54595	10264.1	10839.1

15640.7	16104.5	16010.4	16072.0	0.0	0.7	275
42287.6	43026.0	44435.3	43200.0	0.0	0.7	486
8048.4	8658.0	9963.4	8284.3	0.0	0.9	514
13232.4	13245.7	14112.5	12265.0	0.0	0.9	206
54974.9	55918.7	56054.6	57751.0	0.0	0.8	2091
23475.4	23120.1	24058.4	22994.0	0.0	0.8	580
11536.5	11658.5	11806.4	10402.0	0.0	0.9	304
73540.1	70415.0	73322.9	74703.0	0.0	0.7	64
34840.4	36021.5	34656.1	34581.0	0.0	0.8	248
76157.0	81338.7	71572.4	83130.0	0.0	0.9	1103
103327.8	101958.6	105055.2	106890.0	0.0	0.7	424
28843.3	28922.3	30319.6	28500.0	0.0	0.7	241
44383.9	46377.6	46660.2	46439.0	0.0	0.8	15
57183.0	59162.4	60192.4	60047.0	0.0	0.8	1099;1081;1418;864
31060.9	32691.9	33430.4	33977.0	0.0	0.9	591
23535.0	23161.9	25284.1	24132.0	0.0	0.9	77
4343.1	3657.5	4705.9	4710.1	0.0	0.9	174
21930.6	20549.4	21864.5	24165.0	0.0	0.9	245;245
12241.3	12557.1	12423.0	12430.0	0.0	0.7	58
13449.6	12725.4	14623.3	14617.0	0.0	0.9	432
215047.0	217528.0	219424.7	218980.0	0.0	0.5	740
9878.2	9792.1	9674.0	10527.0	0.0	0.8	427
37260.3	43570.5	42992.6	41367.0	0.0	0.9	1074
28020.3	29078.5	29210.3	28158.0	0.0	0.8	133
8604.1	8218.3	9420.7	8965.0	0.0	0.9	1451
17172.7	14849.5	17255.4	17159.0	0.0	0.9	141
38417.6	37255.6	37817.2	37513.0	0.0	0.7	916
87722.2	93941.0	93941.3	91596.0	0.0	0.8	422
10134.8	10564.9	9430.2	9378.3	0.0	0.9	172
52035.4	52547.3	53840.4	52951.0	0.0	0.6	477
216473.7	209740.3	222726.8	214100.0	0.0	0.7	107
53378.0	56467.5	53032.5	54800.0	0.0	0.9	68
37674.5	38454.6	39786.7	38253.0	0.0	0.7	129
9366.5	10405.9	9234.0	11041.0	0.0	0.9	335

Sh3d19	1	2.18E-59	97.387	CLHEEPQS(1)PPPLPAEKPVGNTYSV	4	-0.74499	37363.1	39291.5
Amotl1	0.525174	0.000177154	41.513	QT(0.082)S(0.241)LT(0.525)S(0.15	4	0.033782	19873.6	18332.7
Slc20a2	0.980206	0.000566826	63.662	LVGDT(0.005)VS(0.98)Y(0.002)S(0	2	0.12988	31084.8	33499.8
Wwc2	0.55285	0.000773781	78.324	S(0.553)DS(0.425)DS(0.021)S(0.00	2	0.1325	9813.7	9548.3
Akap10	0.986949	0.00295196	74.849	NSCS(0.013)S(0.987)PLR	2	0.45526	52619.8	53333.1
Caskin1	0.889971	2.19E-32	96.881	VKPTPQLLPPT(0.89)DRPMS(0.11)F	4	-0.86656	45109.5	47220.0
Aldoa	0.891255	3.26E-05	50.392	RLQS(0.891)IGT(0.103)ENT(0.006)	3	-0.64075	15850.7	17325.8
Prkag2	0.999674	2.56E-07	65.038	TVFPFSYQES(1)PPR	3	-0.19514	37444.2	36472.4
Actr10	0.625607	0.00987009	112.11	RAFS(0.374)T(0.626)EK	2	-0.11061	65807.3	67836.5
Rap1gap	0.912151	3.34E-51	110.25	RES(0.991)PPAGQKT(0.043)PDS(0	4	0.52627	8934.7	9409.4
Inpp5j	0.868815	0.0123668	45.661	S(0.163)RS(0.869)PS(0.968)PGK	2	-0.16547	24884.1	27754.1
Tmf1	0.74885	1.16E-49	81.328	S(0.229)AT(0.749)PVNCDQPDT(0.1	6	-0.93006	20305.4	20981.8
Epb41l2	0.998341	7.11E-15	87.138	KGS(0.998)DPS(0.002)GADAHK	3	0.075421	80108.7	76377.1
Thrap3	1	4.70E-121	201.15	MDS(1)FDEDLARPSGLLAQER	3	-0.37193	126722.2	132266.0
Fbxl20	0.998548	8.92E-32	92.563	VHAY(0.001)FAPVT(0.999)PPPSVC	3	0.33581	84665.9	85861.0
Csnk1a1	0.811713	9.79E-29	79.489	AAQQAASSSGQGQQAQT(0.812)P	3	-0.90013	8693.2	7234.5
Mta2	0.579314	2.41E-15	82.922	DIS(0.122)S(0.579)S(0.299)LNSLA	3	-0.38913	5296.8	6328.3
Camsap3	1	7.02E-12	71.601	HPLLS(1)PGGPQS(1)PLR	3	-1.7298	35626.5	36103.9
Hecw1	0.97661	6.95E-159	218.63	S(0.002)T(0.003)S(0.977)DT(0.018	2	0.11786	349932.2	361422.5
Mpp6	0.529879	9.68E-11	51.096	CYES(0.53)PPS(0.41)S(0.056)PEMI	4	-2.2429	7374.6	6484.0
Vps13d	0.769629	4.92E-18	98.573	S(0.035)T(0.035)AS(0.77)LT(0.16)I	3	0.68648	14913.3	14389.3
Mpdz	0.860676	1.82E-06	74.987	APS(0.861)QS(0.136)ES(0.003)ESE	3	-0.43016	4128.8	3988.7
Nefh	0.99962	7.88E-48	115.55	S(1)PAEAKS(0.997)PVEVKS(0.004)	4	-0.41233	965235.5	1017980.8
Dlg5	0.989752	3.54E-31	90.729	IAS(0.002)S(0.008)YHS(0.99)EGDC	3	0.41487	22418.8	22886.0
Srrm2	0.991372	0.0017583	61.765	S(0.012)GS(0.991)S(0.997)PEMKEI	3	0.1316	36332.6	37303.9
Rbmxtl	0.869706	0.000182781	72.276	RS(0.87)T(0.13)PSGPVR	3	0.58065	35052.8	35158.3
Ndrp2	0.828837	2.40E-31	134.93	T(0.001)AS(0.062)LT(0.829)S(0.12	2	-0.88266	189791.1	181122.6
Abcc8	0.991632	1.66E-11	46.847	DGLLLDEDEEEEEAAES(0.992)EEDC	4	-0.34172	10650.3	9372.0
Pfkip	0.943931	1.88E-07	56.514	FVS(0.944)DDS(0.056)ICVLGIQK	3	-0.3439	3047.3	3001.0
Ints3	0.965141	3.17E-15	78.814	FPEFCS(0.005)S(0.03)PS(0.965)PP	3	-1.0676	21453.9	23814.0
Raly	1	6.02E-09	105.65	LS(1)PVPVPR	2	-1.4073	68754.4	75403.0
Lima1	1	0.000102892	71.806	ELS(1)VEEQIKR	3	1.2789	13569.1	12203.2
C2cd2	0.999947	8.30E-56	171.2	ASPLSSES(1)PVR	2	-0.50761	152794.2	148368.7
Flywch1	0.999723	1.75E-15	85.937	SHCHS(1)PDLAGLEALR	3	-0.79493	23734.3	23042.9

37503.1	40072.6	38264.9	36612.0	0.0	0.8	550
18073.4	19571.6	19066.7	18032.0	0.0	0.9	766
37570.2	33346.4	33917.7	35602.0	0.0	0.9	423
10033.6	9708.9	9568.6	10323.0	0.0	0.8	838
49471.8	50313.3	54103.3	52094.0	0.0	0.8	266
44048.5	45459.1	46809.8	45062.0	0.0	0.8	744
15399.0	15386.2	17489.4	16040.0	0.0	0.9	46
37411.5	37500.9	39031.1	35578.0	0.0	0.8	113
55901.2	63344.5	66475.0	61057.0	0.0	0.9	415
8814.1	8946.6	9920.3	8482.1	0.0	0.9	615;623
24931.8	26284.6	25789.6	26041.0	0.0	0.9	863
20370.9	19496.8	21711.6	20883.0	0.0	0.8	400
78090.4	75213.0	82405.3	78607.0	0.0	0.8	15;15;15
133303.8	127694.3	131892.0	135470.0	0.0	0.8	572
82261.7	87449.0	85141.0	81980.0	0.0	0.8	419
7234.2	7633.3	8573.2	7119.0	0.0	0.9	321
4466.2	5777.6	4933.8	5493.6	0.0	1.0	53
37951.3	36372.4	37318.1	36767.0	0.0	0.8	368;369
343751.6	344309.4	358562.1	359700.0	0.0	0.7	60
6283.9	7141.3	6770.3	6373.6	0.0	0.9	106
15012.5	14067.4	15324.4	15238.0	0.0	0.8	2864
4458.1	4184.5	4217.5	4263.0	0.0	0.8	1237
997846.3	1083273.3	936388.5	982600.0	0.0	0.9	742;712
24874.3	24022.0	23387.3	23270.0	0.0	0.8	973
34441.2	35257.0	38393.2	35198.0	0.0	0.9	1559
33283.9	35086.5	35612.6	33534.0	0.0	0.8	162
178646.9	176774.5	191127.0	185590.0	0.0	0.8	320
10661.3	10124.2	10811.5	9967.9	0.0	0.9	954
2609.9	2483.5	2965.9	3270.9	0.0	0.9	713
22510.8	22356.7	22638.2	23270.0	0.0	0.8	500
73010.0	70702.1	74042.1	73981.0	0.0	0.8	119
12623.5	13151.1	13314.2	12206.0	0.0	0.9	737
139574.6	143522.7	151619.2	148760.0	0.0	0.8	316
22361.7	22318.2	23894.9	23423.0	0.0	0.8	619

Uqcrh	0.523472	7.12E-06	47.082	S(0.435)QT(0.523)EEDCT(0.042)EE	3	-0.6691	6291.1	5464.0
Zfp516	0.953214	2.24E-06	58.98	VSEGLDGCAS(0.953)PT(0.047)K	3	-1.2237	17626.6	17403.7
Kif1a	0.999998	7.09E-09	113.24	DVLS(1)PLRPSR	3	-0.16071	46394.0	48961.9
Hk1	0.999688	0.000156296	45.342	ATDCEGHDVAS(1)LLR	3	-0.059307	2699.3	3415.5
Tenc1	0.94778	2.73E-06	56.956	GPLDGS(0.052)PY(0.948)AQVQR	2	-0.34385	3533.2	3126.5
Wdr24	0.791282	1.92E-07	54.004	GS(0.791)S(0.195)CS(0.014)LPLMI	3	-0.97303	4025.8	3835.7
Camsap3	0.813651	0.00219853	44.734	RS(0.003)PGPGPS(0.183)PT(0.814	3	1.3582	7740.4	7383.7
Tanc1	0.945539	1.43E-57	119.48	TAANKS(0.225)PCET(0.772)IS(0.02	3	0.44158	73195.9	73735.7
Nefm	0.974058	0.00638705	111.46	S(0.974)VT(0.024)VT(0.002)QK	2	0.48089	32197.6	31589.0
Hook3	0.999795	1.24E-21	90.453	LNQSDSIEDPNS(1)PAGR	2	0.80341	22934.0	23832.7
Vom2r51	1	0.0745974	52.49	KS(1)PIEGK	2	-0.45846	18518.7	16152.1
Ptdss1	0.975416	0.0072375	49.243	T(0.024)LS(0.975)KDDVNYR	2	0.69753	8676.4	8511.3
Zdhhc20	0.566442	3.78E-09	56.29	SIGSNQFPPIKPLS(0.566)ES(0.434)I	4	0.54686	7012.0	7315.0
LOC102551	0.882019	9.28E-25	66.884	AKVETPPLS(0.068)AS(0.882)PPQQ	5	-0.50468	17355.9	15687.0
Agap1	0.999998	1.18E-06	73.296	RNT(1)LDVGEVLSK	3	1.3908	3355.8	3174.4
Irs2	0.651761	2.44E-15	57.845	HSSETFS(0.002)S(0.019)T(0.019)TI	4	-1.866	13912.6	15956.8
Zfp608	0.999428	6.08E-14	76.378	APGS(0.999)PGAGNPPGT(0.001)P	3	0.57851	45790.5	45166.6
Prkx	0.751511	4.58E-09	54.582	T(0.212)WT(0.752)LCGT(0.037)PE	4	-0.64265	5594.9	5914.1
Nf1	0.955752	8.67E-16	88.593	S(0.032)MS(0.956)LDMGQPS(0.01	3	0.18005	74646.2	72611.4
Itpr3	0.725939	3.65E-58	115.83	KQS(0.104)VFGAS(0.726)S(0.152)I	5	-1.4335	168621.0	169122.3
Fam117a	0.98499	0.00456021	42.425	GCS(0.985)PPAPAGS(0.015)PR	2	-0.60365	14907.3	14358.6
Rnmt	0.63143	2.27E-30	86.748	TQDDLVEQNS(0.038)S(0.038)Y(0.6	3	-0.57536	13513.1	13200.3
Cap1	0.55464	3.75E-43	114.63	LEAVS(0.003)HT(0.024)S(0.08)DM	4	-2.22	63161.9	71799.7
Cbx8	0.931492	1.39E-05	54.237	VDEKPS(0.067)S(0.931)PGDS(0.00	2	-0.74981	33453.5	34794.1
Fam208b	0.996064	2.17E-10	62.94	NQET(0.002)EPCPVS(0.996)PNT(0	3	-1.2673	18598.6	18158.3
Mon1a	0.98989	7.17E-14	91.845	S(0.99)YEDLT(0.01)ELEDNR	2	0.59897	54495.9	52827.4
Kif21a	0.998211	0.00323687	70.908	QPS(0.998)VS(0.002)EK	3	-0.032016	69229.1	71708.6
Tkt	0.999484	1.36E-06	48.597	ILAT(0.001)PPQEDAPS(0.999)VDIA	3	-0.24189	4981.6	5285.8
LOC103691	0.578722	2.71E-32	94.973	KS(0.011)NS(0.402)EEENS(0.579)I	3	0.5142	20582.1	19924.4
LOC102551	1	0.0047511	74.306	LNS(1)PQDAR	2	-0.48262	16870.5	17338.9
Otud7a	0.860997	6.84E-29	78.451	VAPGT(0.003)GGPT(0.132)PGRS(C	3	0.28567	60013.2	63317.2
Cdc42bpb	0.986272	2.07E-95	162.11	HSTPSNSSNPS(0.986)GPPS(0.013)	3	0.057023	16213.3	17181.0
Madd	0.540414	3.95E-39	78.942	TYDHPY(0.002)FEPQY(0.458)GS(0.	3	-0.16172	13740.9	12186.7
Rpl14	1	0.00242413	63.091	AALLKAS(1)PK	3	0.11919	103423.2	110261.9

5793.1	6739.1	5321.3	5614.0	0.0	0.9	61
16906.5	17240.8	18005.6	17064.0	0.0	0.7	116
43534.3	45141.2	47732.0	47016.0	0.0	0.9	1093
3435.9	2542.1	3289.7	3787.8	0.0	1.0	635
3006.8	3238.2	3194.0	3304.2	0.0	0.9	460
4191.5	3687.2	4513.1	3939.9	0.0	0.9	475
6874.2	6930.8	7540.8	7685.8	0.0	0.9	776;777
71603.6	74996.4	74142.5	70978.0	0.0	0.7	211
30646.8	31860.3	31796.4	31461.0	0.0	0.7	805
21641.0	21010.3	23247.3	24647.0	0.0	0.9	238
20837.2	19387.9	18834.8	17689.0	0.0	0.9	533
9618.8	9079.0	8593.8	9328.8	0.0	0.9	11
7256.1	7597.6	7360.6	6782.2	0.0	0.8	332
17570.9	16722.7	16490.2	17770.0	0.0	0.9	189
4000.4	3547.8	3732.9	3326.9	0.0	0.9	437
15426.7	14565.7	15362.8	15700.0	0.0	0.9	1154
46517.4	46384.2	46988.3	45111.0	0.0	0.6	626
5403.6	5704.7	5680.3	5651.8	0.0	0.8	203
70981.8	72962.5	71821.4	75059.0	0.0	0.7	2504
174675.8	173738.6	172895.9	169550.0	0.0	0.6	939
15426.7	14076.2	14834.9	16110.0	0.0	0.9	29
13485.8	13790.2	13447.8	13257.0	0.0	0.6	54
67612.2	61046.7	67774.5	75244.0	0.0	0.9	34
32649.4	33085.7	35765.4	32789.0	0.0	0.8	168
18746.2	17995.3	19312.5	18605.0	0.0	0.8	1747
53400.3	52143.6	55673.1	54096.0	0.0	0.7	56
64296.9	66491.5	70767.7	69495.0	0.0	0.9	1231;1218
5011.3	4640.6	6038.5	4712.8	0.0	0.9	295
20654.1	22632.8	19981.5	19001.0	0.0	0.9	110
15478.8	18779.6	14490.8	16788.0	0.0	0.9	52
61081.7	60568.2	63593.9	61625.0	0.0	0.7	779
17394.1	15791.0	17899.8	17477.0	0.0	0.9	1688
15509.7	14115.8	13189.2	14443.0	0.0	0.9	778
80326.2	106444.2	94569.6	95202.0	0.0	0.9	139



Lrpap1	1	0.00258811	79.07	RES(1)GEEFR	3	-0.38112	21143.8	16311.1
Mapk9	0.972974	1.63E-14	82.837	TACTNFMMT(0.014)PY(0.973)VVT	3	0.41304	16317.0	18725.4
Vps13d	0.999739	9.23E-12	65.16	EKDDVS(1)PQPLMTDLER	3	0.95885	13819.6	13727.9
Ino80c	0.946758	1.01E-53	130.49	KRPAS(0.947)PS(0.047)HNS(0.005	4	0.062796	59895.2	56967.2
Rab11a	0.560188	8.34E-20	66.294	ENDMS(0.44)PS(0.56)NNVVPIHVP	4	0.1515	32055.6	33865.1
Osbpl11	0.877086	2.01E-05	50.621	S(0.877)FS(0.122)LASSGNPISQR	3	-0.19532	5435.2	5635.2
Map2	0.73219	1.75E-05	40.668	LEGAGS(0.732)AT(0.266)VAEVEM	3	0.060834	5072.7	5233.3
Arhgap12	1	2.96E-49	91.151	VLSSTINNQVAEADAAEEEEAPDS(1'	4	-0.14827	19668.5	20276.5
Hnrnpk	1	1.53E-47	174.42	RDYDDMS(1)PR	2	-0.77335	889750.8	945036.0
Mllt3	1	1.54E-29	120.9	TNNNQILEVKS(1)PIK	3	-0.0096031	52177.3	48470.5
Phyh	0.987922	0.0123144	51.286	GT(0.012)S(0.988)QENIAR	2	-0.25169	6336.1	6213.4
Phgdh	0.999988	7.62E-48	123	AGT(1)GVDNVDLEAATR	2	0.044463	18715.5	15956.8
Usp20	0.99926	8.19E-07	69.878	LSSS(0.001)PPRAS(0.999)PVR	2	0.13416	19297.6	20006.6
Rbbp6	1	0.00255254	84.522	RKDS(1)PPR	2	-0.52897	25970.6	30965.9
Nfix	0.989659	4.35E-14	114.64	S(0.99)IT(0.005)S(0.005)PPSTSTTK	2	0.12187	45408.9	43286.5
Shank2	0.992831	3.64E-21	104.84	ELDRFS(0.993)LDS(0.007)EDVYSR	3	1.746	13499.9	14121.7
Git1	0.687773	2.01E-15	58.952	KGVSAS(0.001)S(0.002)VT(0.082)F	3	-0.58684	4877.5	5546.9
Acap2	0.994505	7.17E-21	115.38	YSTLLS(0.995)PS(0.005)EQEKR	3	1.411	26966.5	26942.4
Osr1	1	1.12E-26	80.844	GEGPGS(1)PAGGLGALLDVTK	3	0.0051775	8213.7	7702.9
Trappc10	0.871311	1.04E-57	106.27	QES(0.871)GS(0.116)S(0.012)LEPP	4	-0.20945	59209.4	62993.6
Klc1	0.999871	2.69E-05	94.804	RSGS(1)FSK	3	0.85583	19073.3	19095.1
Hspb1	0.94314	1.76E-23	175.22	QLS(0.943)S(0.057)GVSEIR	3	0.15136	62014.6	62000.9
Fig4	0.996894	4.20E-10	89.624	S(0.003)LS(0.997)EEDHSIYAR	2	-1.5091	12493.3	12014.5
Ppp1r1b	0.96808	1.45E-39	118.48	VSEHS(0.032)S(0.968)PEEESSPHQI	3	0.030483	9189.6	8430.6
Gsk3b	0.959018	0.011863	78.113	VLGT(0.959)PT(0.041)R	2	-1.1604	12920.3	14775.4
Pnir	0.99832	0.00663228	68.355	S(0.002)RS(0.998)VDKDR	3	-0.89791	9777.7	11047.0
Irs2	0.98147	1.66E-59	142.23	T(0.018)AS(0.981)EGDGGGAAGGAC	2	1.128	12122.4	11902.6
Rai1	0.70753	3.95E-83	117.62	AGWAS(0.292)PCHLS(0.708)GEP	4	0.31805	11191.5	9583.7
Bicc1	0.984668	0.000494017	99.34	S(0.985)MPAET(0.015)IK	3	-0.078066	9887.8	9379.7
Atp5a1	0.86082	6.09E-06	59.15	TGTAEMS(0.139)S(0.861)ILEER	2	-1.2553	17211.6	17685.6
Sh3kbp1	0.872236	1.75E-29	85.563	CQVAFS(0.128)Y(0.872)LPQNDDEI	3	-0.077924	27126.3	26138.4
Phip	0.772805	7.99E-06	57.788	SEIS(0.035)T(0.157)S(0.773)PFS(0.	2	-0.09565	13280.5	12969.9
Eps15l1	0.918688	1.96E-31	85.805	STPS(0.007)HGS(0.919)VS(0.069)S	3	-1.1462	33330.6	32645.3
Srrm2	0.680731	0.00597875	54.023	QKS(0.681)QT(0.311)PT(0.008)R	2	0.14067	21807.0	24758.5



18277.8	19404.4	17223.3	19523.0	0.0	0.9	53
16085.7	17312.3	17739.5	16460.0	0.0	0.9	159
13805.2	13049.9	14667.1	13946.0	0.0	0.8	1139
59231.4	58372.7	58642.9	60400.0	0.0	0.7	26
33181.7	33785.3	32820.2	33241.0	0.0	0.7	192
5358.4	5722.7	5209.4	5620.1	0.0	0.8	183
5848.2	5089.1	5768.6	5417.8	0.0	0.9	634;548
20163.3	20817.8	19585.0	20157.0	0.0	0.7	537
854332.6	920567.3	889304.1	899460.0	0.0	0.8	284
47663.0	47921.9	51257.5	50248.0	0.0	0.8	285
5470.4	5633.9	6060.6	6461.2	0.0	0.9	296
16669.1	16291.5	17952.1	17485.0	0.0	0.9	78
19227.4	20815.6	19641.7	18516.0	0.0	0.8	396
25043.6	27903.8	27670.4	27027.0	0.0	0.9	1465
41953.3	45673.6	42835.5	43130.0	0.0	0.8	265
13842.5	14184.0	13926.6	13668.0	0.0	0.7	582;272
5791.3	5256.9	5754.1	5327.8	0.0	0.9	577
29852.6	27639.8	27872.4	28886.0	0.0	0.8	521
8583.9	7956.1	7633.1	9097.6	0.0	0.9	142
58445.7	59075.5	63178.2	59769.0	0.0	0.8	708
17448.4	18004.1	19929.1	18108.0	0.0	0.9	552
61009.3	63189.4	60675.5	62572.0	0.0	0.6	86
14294.9	12848.6	13280.0	12971.0	0.0	0.9	696
8701.5	8296.1	8919.2	9307.8	0.0	0.9	46
13038.7	13921.1	13706.4	13419.0	0.0	0.9	275;345
9356.2	10435.3	9520.3	10457.0	0.0	0.9	672
13013.1	12866.2	12403.7	12053.0	0.0	0.8	363
9663.3	9779.2	10947.2	9946.6	0.0	0.9	903
11283.1	10085.6	11090.4	9609.9	0.0	0.9	687
18597.2	18087.7	17213.7	18606.0	0.0	0.8	53
27293.2	27214.1	26772.7	27194.0	0.0	0.6	59
14747.4	12817.8	13815.4	14682.0	0.0	0.9	1448
34715.8	33614.8	33913.4	33944.0	0.0	0.7	244
21096.9	24488.4	21956.4	21744.0	0.0	0.9	784

Nedd4l	0.858104	8.80E-13	67.928	S(0.858)LS(0.106)S(0.035)PT(0.00	3	1.3482	13516.6	11617.4
Ube2j1	0.999961	0.00591007	110.88	NTSMS(1)PR	2	-0.15537	133258.1	138595.2
Tmem55a	0.998617	4.71E-102	168.79	AELPPPYTAIAS(0.999)PGT(0.001)S	3	-0.39753	26241.3	27410.8
Prx	0.586463	2.59E-26	62.428	VS(0.586)S(0.408)LGIS(0.006)LPQ'	5	0.27637	9142.1	7226.3
Ptpn13	0.979781	8.06E-16	89.484	EGRY(0.001)S(0.98)DGS(0.019)IAL	4	-0.10367	28866.4	27662.0
Lpin1	0.952588	0.0171792	59.052	DS(0.047)S(0.953)PLGGR	2	-0.47103	4719.4	4443.7
Abi2	0.867856	7.01E-16	89.877	T(0.001)YS(0.01)S(0.045)GS(0.868	3	-1.1675	3306.0	2673.0
Ppp1r12c	0.984272	1.42E-42	91.1	T(0.016)EPGS(0.984)PVKPNVLTAS	3	-1.1222	38879.0	37160.2
Bnip2	0.930191	1.24E-11	94.122	KGS(0.002)IT(0.059)EY(0.009)AAT	3	-0.68991	37106.6	38633.3
Htt	0.80023	2.12E-15	82.865	EKEPGEQT(0.14)S(0.8)T(0.056)PM	4	0.39465	47514.0	47113.6
Trim2	1	6.95E-05	73.927	VKS(1)PGS(1)GHVK	3	-0.1331	128093.8	127823.5
Klc1	0.999984	0.00320637	47.991	YES(1)GPDGGEEA	2	0.79344	11401.7	10497.0
Bet1l	0.931521	7.47E-05	52.866	AQS(0.932)S(0.068)GAVEEILDR	2	0.25463	9431.8	10079.9
Sf3b2	0.735215	9.92E-21	76.118	SSLGQS(0.038)AS(0.735)ET(0.226)	4	0.17201	57135.3	57263.3
RGD13115	0.684669	7.98E-10	61.345	RHS(0.685)S(0.193)T(0.061)GDS(0	3	0.97812	3832.7	3779.9
Map1a	1	6.11E-05	109.16	DRT(1)PEEKDR	3	-2.2318	107861.2	119179.8
Lmna	0.797427	4.70E-39	120.82	GSHCS(0.171)S(0.797)S(0.031)GDI	3	0.15243	37767.4	39405.6
Cacna1b	0.769529	0.00180311	45.115	HAQDS(0.77)S(0.23)KEGK	4	0.60769	15927.0	15860.3
Ccdc92	0.981578	9.03E-43	157.54	S(0.018)LS(0.982)APLHPEFEEVYR	2	-0.029117	61749.8	65850.0
Specc1l	0.765782	0.0346247	61.09	S(0.766)T(0.035)S(0.199)AGNK	2	-1.897	18740.6	18757.2
Eepd1	0.999993	6.69E-16	101.9	SIPRDPS(1)DLS(0.999)HS(0.001)R	3	-0.38757	50389.5	49295.4
Fam53c	1	3.87E-06	49.559	GNAGGGGPQVPHQS(1)PPKR	3	2.008	10096.5	10493.2
Dusp15	0.795783	3.11E-63	112.39	QGPGTSAPSAT(0.001)T(0.036)AS(	3	0.53095	9985.4	12172.5
Csn1s2b	1	0.0532553	44.863	DNS(1)QEDFK	2	2.4334	4730.3	4579.5
RGD13099	0.900034	1.84E-32	78.758	ET(0.001)MS(0.015)KVS(0.9)EPET(	3	0.99414	12995.4	12861.3
Mtor	0.744548	3.58E-76	108.24	T(0.199)DS(0.745)Y(0.001)S(0.055	4	0.089909	47585.5	50444.9
Fam169a	0.98698	1.08E-15	64.16	QDGDRDS(0.987)ALEPVNGEVT(0.(	3	-0.21985	19449.0	17748.1
Vim	0.999479	1.08E-08	57.238	EMEENFALEAANY(0.001)QDT(0.99	3	-2.6154	9639.7	10008.7
Prkd3	0.932523	2.01E-07	56.139	GLDDS(0.067)EEPS(0.933)PPEDK	3	1.7019	12588.7	13326.4
lqsec3	1	3.03E-42	112.48	AQAPELQQEERPGAVGS(1)PR	3	0.62907	34662.8	35004.7
Trex1	0.543155	3.20E-17	96.208	TLEQAS(0.441)S(0.543)PS(0.015)E	3	0.18116	9112.8	10070.4
Myo9a	0.983373	1.64E-13	105.58	SLGGMS(0.983)PS(0.017)EERR	3	-1.5932	35763.7	37354.3
Hcn2	0.545673	4.40E-11	58.111	RAPPGPLPPAAS(0.002)PGPPAAS(C	3	0.36686	37396.5	34823.8
Herc1	0.955069	5.56E-22	89.374	QSLT(0.041)S(0.955)PDS(0.004)Q	3	-2.1933	8678.1	7519.5

13318.7	11885.1	12825.9	14041.0	0.0	0.9	434
120038.4	135867.0	133334.7	125740.0	0.0	0.9	211
25522.7	26478.2	28115.0	25198.0	0.0	0.8	47
8869.9	8190.3	8176.1	9068.4	0.0	0.9	1079;1079
29649.2	27395.6	29210.3	30243.0	0.0	0.8	340
5231.9	4547.2	5042.6	4917.6	0.0	0.9	328
2658.2	2977.2	2897.1	2830.4	0.0	0.9	169
39747.3	37722.0	41871.6	37098.0	0.0	0.9	508
42906.1	40025.3	37358.7	42190.0	0.0	0.9	121
44787.4	46522.8	45088.2	48895.0	0.0	0.8	1039;1160
110286.3	128981.3	119153.8	120950.0	0.0	0.9	460
11181.9	10540.4	11342.6	11458.0	0.0	0.8	534
10150.0	9903.7	9629.4	10362.0	0.0	0.8	9
53804.9	54984.8	59607.9	54937.0	0.0	0.8	291
4317.0	4357.7	3609.9	4056.3	0.0	0.9	973
120411.0	114659.8	107730.0	127810.0	0.0	0.9	1698
39232.1	38412.8	40388.3	38526.0	0.0	0.7	574
16177.2	15079.3	16334.2	16931.0	0.0	0.8	962;963
59384.7	60144.7	66467.5	61857.0	0.0	0.9	194
19695.9	19279.0	18650.0	19720.0	0.0	0.7	111
47063.6	46947.4	53308.2	47661.0	0.0	0.9	16
9605.7	9670.7	10819.0	9946.4	0.0	0.9	125
11044.6	9623.0	12128.0	11716.0	0.0	0.9	190
4515.4	4102.4	5182.5	4650.5	0.0	0.9	23
13400.6	14043.2	13755.6	11772.0	0.0	0.9	548
46280.0	47216.9	50743.5	47505.0	0.0	0.8	2448
20237.8	19386.8	19756.0	18752.0	0.0	0.9	420
10139.8	9513.0	9780.1	10734.0	0.0	0.9	361
12454.2	12504.3	12767.1	13406.0	0.0	0.8	364
31762.5	34219.7	36291.1	31735.0	0.0	0.9	255
9044.7	9475.8	9476.1	9503.5	0.0	0.8	167
35701.7	35548.5	37757.3	36391.0	0.0	0.7	1300
38547.5	37218.2	39031.1	35412.0	0.0	0.9	756
7734.7	8194.5	8443.7	7488.2	0.0	0.9	2721

Dennd6a	1	1.03E-68	135.63	GS(1)LDEAGAEGR	2	0.77053	51372.3	50974.7
Adam17	0.871173	2.91E-37	160.46	S(0.871)FEDLT(0.129)DHPVTR	3	-0.53168	36506.7	39329.9
Afap1l2	0.601581	8.75E-31	72.935	MAQQPLSLVGCVDLPDPS(0.008)PI	4	0.38026	79749.7	81011.5
Magi3	0.913929	3.68E-41	127.5	QPEDESPQAFSQS(0.086)GS(0.914	3	-0.26962	4931.3	5079.7
Pde3a	0.876188	0.000827879	79.427	T(0.876)S(0.124)LPCIPR	2	0.62271	17909.3	15553.2
Tle4	0.744108	8.40E-30	85.062	DAPIS(0.744)PAS(0.255)VAS(0.00:	2	0.76811	38821.7	39246.5
Tmem51	0.96442	8.58E-28	101.42	AET(0.001)ET(0.024)S(0.964)PGH/	4	0.12201	10022.9	9817.5
Srrm1	1	0.00299184	52.247	RVS(1)RT(1)PEPK	3	-0.67001	49144.4	56083.1
Mef2d	0.934356	1.38E-21	66.182	VIPAKS(0.934)PPPPT(0.065)HNTQ	4	-1.5029	9282.7	9660.1
Dmxl2	0.982207	1.15E-13	104.94	VS(0.982)VDS(0.018)NLFVYSK	3	-0.76744	10132.3	10008.5
Camsap2	0.70024	2.94E-09	81.632	LS(0.002)QS(0.046)S(0.252)PDNIT	2	-0.15957	41173.7	36902.4
Tns1	0.99943	4.66E-24	69.075	S(0.999)PGVRS(0.998)PVQCVS(0.C	5	0.11975	16268.1	16474.6
Sash1	0.644689	1.65E-06	93.348	EVIKS(0.355)PS(0.645)ASR	2	-0.24007	13119.5	14492.4
Pcnx	0.969618	8.80E-27	83.059	RAS(0.97)NICDT(0.005)DS(0.025)F	3	-2.5239	7185.8	7369.5
Zc3h18	0.934736	0.0065335	65.627	S(0.935)PT(0.065)PAQTK	2	0.083518	11255.4	11333.3
Arpc1b	0.773714	1.91E-48	117.53	KAS(0.148)S(0.774)EGGAAT(0.078	4	0.54159	15708.8	14657.0
Nefm	0.956878	0.000168378	89.43	QPS(0.957)VT(0.042)IS(0.001)SK	3	-1.0191	50376.4	43027.6
Bsn	0.591968	1.84E-21	78.132	S(0.406)LS(0.592)DPKPLS(0.002)P'	3	0.059701	19759.1	20199.7
Asxl2	1	0.00246409	46.282	ANKS(1)PAEQPK	3	0.23955	19230.8	21191.3
Map1s	1	0.00305762	53.034	S(1)EPADKPGR	3	-0.7357	31861.2	32377.6
Usf1	0.796136	0.0166144	57.59	T(0.796)HPY(0.173)S(0.031)PK	3	0.33001	24978.3	25056.8
Ablim1	0.986649	2.24E-52	168.67	S(0.013)S(0.987)GREEDEEELLR	2	0.91909	49371.0	47849.6
Ank3	1	1.10E-29	117.78	GDS(1)GPEEEMADDKVR	3	0.88032	18807.4	17231.4
Pdcl3	1	3.78E-53	94.73	TYEDMTLEELQENEDEFS(1)EEDER	3	0.054172	17852.0	18997.5
Cpd	0.884735	4.06E-42	85.518	SLLSHEFQDET(0.014)DT(0.885)EEI	4	0.36725	10582.4	10414.3
Tns1	0.588816	1.36E-38	75.106	EAFEEMEGT(0.044)S(0.474)PS(0.5	4	-0.59463	17060.1	15857.0
Vim	0.971101	2.03E-21	78.917	ETNLESLPLVDT(0.029)HS(0.971)KF	3	0.049403	33435.6	30022.6
Nbr1	0.556319	3.29E-21	105.71	S(0.444)LT(0.556)LDAAPDHNPPCF	3	-0.48393	14916.8	12951.3
Clip2	0.704108	2.71E-38	86.519	QAS(0.704)GPS(0.247)S(0.049)AG	4	1.6905	45027.2	45900.4
Fam102b	0.686353	1.22E-06	60.549	CPVKQDS(0.314)VES(0.686)QLK	3	0.64686	20741.9	20176.7
Cmip	0.990826	0.00660738	97.277	DNS(0.991)PS(0.009)LK	2	-0.20937	53516.7	54083.4
Srrm1	0.973739	0.0172546	72.607	QKET(0.026)S(0.974)PR	2	0.098222	59252.3	62593.3
Plxna1	0.983246	3.73E-05	117.52	TAS(0.016)S(0.983)PDS(0.001)LR	2	0.56579	6124.3	5935.0
Arid1a	0.997689	2.36E-37	105.06	SHHAPMS(0.998)PGS(0.001)S(0.0	3	-0.96843	37057.7	36642.4

50675.9	50680.6	52558.0	51026.0	0.0	0.5	16
40422.3	38446.9	41280.6	37476.0	0.0	0.9	794
83696.8	85228.2	81006.4	80210.0	0.0	0.8	433
4931.2	5054.2	4822.4	5187.4	0.0	0.7	833
16724.5	17186.9	15356.4	18053.0	0.0	0.9	309
39344.9	38221.4	38579.1	41571.0	0.0	0.8	267
9830.7	9934.5	10667.4	9311.5	0.0	0.8	178
44966.2	48724.9	55628.3	47068.0	0.0	0.9	659
8382.0	8498.3	8884.7	10166.0	0.0	0.9	251
9703.5	10118.6	9829.4	10141.0	0.0	0.6	1124;1142
41145.2	42621.2	39257.7	38321.0	0.0	0.9	576
16352.9	16002.2	17489.4	16007.0	0.0	0.8	1089
15189.2	14453.5	14855.2	13844.0	0.0	0.9	441
7832.4	6507.1	8139.0	7925.6	0.0	0.9	800
11439.6	12691.3	10692.9	10924.0	0.0	0.9	765
14980.6	14602.0	15791.4	15326.0	0.0	0.8	311
39268.3	43953.3	46900.6	42910.0	0.0	0.9	428
21797.5	21948.6	20676.1	19640.0	0.0	0.9	2844
22178.6	20178.8	20295.7	22642.0	0.0	0.9	218
35643.1	32851.4	32188.6	35665.0	0.0	0.9	705
24197.2	24971.3	24723.1	25150.0	0.0	0.5	123
48295.4	46599.8	50224.1	49892.0	0.0	0.8	567;480
21557.9	19731.1	19027.2	19315.0	0.0	0.9	1679
19569.2	18362.7	19327.5	19197.0	0.0	0.8	65
11407.6	10673.1	11235.7	10765.0	0.0	0.8	1368
15501.2	16954.8	16678.3	15188.0	0.0	0.9	1136
30938.5	31072.8	33433.6	30676.0	0.0	0.9	438
13199.4	13610.9	14532.5	13266.0	0.0	0.9	660
45774.3	42427.6	48999.5	46414.0	0.0	0.9	50
22041.3	19763.0	21322.7	22399.0	0.0	0.9	296
60365.2	54723.0	49991.2	64652.0	0.0	0.9	196
56620.9	59664.0	60585.7	59710.0	0.0	0.8	456
5707.2	6299.7	5775.4	5840.2	0.0	0.8	1648
36445.9	36762.9	36725.0	37581.0	0.0	0.4	359

Cacna1h	0.757714	9.73E-16	59.991	GS(0.195)T(0.758)DDEAEDS(0.012	4	0.14512	6858.5	6625.6
LOC68003	0.842708	8.19E-32	89.721	S(0.008)AQT(0.148)S(0.843)LDS(0	3	0.036461	16979.0	17625.2
Tbc1d10b	0.999749	7.87E-24	98.135	TEEARAS(1)PVPGPPTPTR	3	-0.52134	86346.4	88789.8
Zmym3	0.984947	7.02E-13	66.022	VIS(0.003)S(0.012)VPT(0.985)PPPI	3	-0.27871	3295.4	3520.4
Vamp4	1	2.11E-27	101.92	RNLLEDDS(1)DEEEDFFLR	3	1.532	60418.8	61647.7
Cep170b	0.980759	7.16E-33	79.663	TPGMAAQMEQQS(0.019)LLVPGS(	3	-0.8598	32251.2	29889.8
Pi4ka	0.999978	9.38E-29	117.9	TSSVSSISQVS(1)PER	2	-0.2043	51008.5	56008.5
Bnip3	0.999944	0.00483975	90.135	TATLS(1)MR	2	0.19805	14092.7	15523.5
Foxo4	0.783499	2.18E-08	45.941	S(0.003)CT(0.02)WPLPRPELAT(0.1	4	-1.6691	7339.9	6909.7
Rbm14	1	0.00944121	56.551	QPT(1)PPFFGR	2	-0.21207	22643.0	23147.1
Tfeb	0.999559	6.54E-07	43.306	FAAHVS(1)PAQGS(1)PKPPPAAS(0.	4	-0.6875	18790.7	18794.5
Tfeb	0.999626	6.54E-07	43.306	FAAHVS(1)PAQGS(1)PKPPPAAS(0.	4	-0.6875	18790.7	18794.5
Dennd5a	0.862092	6.14E-32	97.94	KLT(0.862)S(0.069)GS(0.023)LS(0.	3	0.12632	38471.1	35740.8
Tmod2	0.824629	0.00653261	57.175	KFS(0.825)LAAT(0.175)R	3	0.50802	11226.5	10278.3
Heatr6	0.997179	3.53E-12	63.682	ALPAGPS(0.997)LEEAS(0.003)LSSP	3	-0.53319	4349.1	4333.1
Ttbk1	0.994804	8.10E-29	89.9	GVGVPS(0.005)S(0.995)PVR	2	-0.16408	36049.9	37321.4
Tln1	0.595351	3.66E-59	95.551	LNEAAAGLNQAAT(0.06)ELVQAS(0	4	-2.025	9935.9	8081.4
Csnk2b	0.849183	4.55E-11	56.121	IHPMAY(0.001)QLQLQAAS(0.849)	3	2.0884	20015.5	18524.7
Nr2c2ap	0.999998	8.52E-05	81.377	VSSVLNRNS(1)R	3	-1.407	4946.6	5706.0
Cast	0.999545	7.07E-12	116.12	S(1)NEQIVSEK	2	-1.5051	95723.3	87641.3
Mcm2	0.992092	1.46E-05	76.196	ADALT(0.001)S(0.007)S(0.992)PGF	2	-0.65744	18010.7	18105.7
Oxr1	1	1.29E-21	106.75	LKESLPIEVDQLS(1)GR	3	0.317	8250.6	7733.5
Usp5	0.96147	1.25E-17	96.208	S(0.961)AADS(0.038)ISESVPVGPK	3	1.8836	20349.5	20729.5
Ehbp111	0.990273	6.66E-09	75.376	VAS(0.99)RDT(0.01)DLGSSSK	3	-0.23504	37284.4	33043.5
Cap1	0.542666	1.50E-36	105.9	LEAVS(0.001)HT(0.038)S(0.245)DM	3	0.42838	16584.2	18841.7
Mtcl1	1	0.00159039	79.07	RGS(1)REIYK	2	0.31801	12368.1	12829.5
Plce1	0.764527	1.24E-32	137.39	GES(0.234)GEVT(0.765)DDEMAT(	2	0.2901	10722.7	9664.6
Arl3	0.938454	4.07E-32	93.583	QLASEDIS(0.038)HIT(0.938)PT(0.0	3	-0.72332	18920.7	17895.1
Ppef2	0.787029	6.21E-05	46.249	S(0.787)LPS(0.046)S(0.157)PFHLG	3	0.14553	5179.2	4875.9
Emc8	1	0.000212606	49.223	VKDAS(1)PNQVAEK	3	-0.53056	14969.3	15858.1
Fam53c	0.99164	1.28E-05	77.776	S(0.008)RS(0.992)QPCDLAR	2	1.2603	16109.5	17118.5
Akap6	0.77285	6.08E-74	158.52	S(0.102)S(0.102)S(0.773)VES(0.02	3	0.3759	104490.6	109330.6
Nefh	1	3.04E-40	163.59	S(1)LEGEEAALR	3	0.18573	59167.6	63889.8
Reep5	0.499949	8.84E-05	48.288	ATVNLLGDEKKS(0.5)T(0.5)	3	-0.2945	23287.1	22659.0

5830.4	6041.7	7187.5	6247.5	0.0	0.9	1172
15462.9	16734.8	16499.9	17253.0	0.0	0.8	1075
90793.7	87641.5	89477.6	91047.0	0.0	0.7	128
3752.3	3544.6	3423.6	3688.8	0.0	0.9	819
58866.2	61156.7	62210.0	59088.0	0.0	0.7	30
31073.7	30839.6	32138.4	31021.0	0.0	0.8	681
53933.7	51722.3	56234.2	54349.0	0.0	0.8	207
16837.3	16245.3	15993.3	14607.0	0.0	0.9	137
7543.8	7303.4	7471.1	7203.3	0.0	0.8	48
21713.4	23767.9	22802.7	21505.0	0.0	0.8	206
18742.0	19666.2	18877.6	18261.0	0.0	0.7	109
18742.0	19666.2	18877.6	18261.0	0.0	0.7	114
35646.3	37059.8	38053.3	35677.0	0.0	0.8	833
9277.6	10227.6	10218.9	10597.0	0.0	0.9	232
4542.6	4463.0	4790.9	4083.2	0.0	0.9	706
38259.0	36783.8	37499.8	38295.0	0.0	0.7	433
9130.2	8610.7	9918.0	8849.4	0.0	0.9	1260
20090.9	20365.8	20064.9	18699.0	0.0	0.8	205
5584.4	5251.2	5764.5	5360.0	0.0	0.9	22
105116.4	93778.2	103391.3	93777.0	0.0	0.9	107
20629.6	18683.9	18687.4	19860.0	0.0	0.9	42
7859.6	8027.2	8269.6	7751.3	0.0	0.8	294
21578.2	21108.2	20131.1	21955.0	0.0	0.8	756
35117.2	33887.6	35301.6	37160.0	0.0	0.9	1363;603
17678.4	17812.7	17875.2	17872.0	0.0	0.8	31
10988.2	12272.3	13345.2	10880.0	0.0	0.9	148
10123.4	10498.2	8936.3	11339.0	0.0	0.9	1097
18345.9	16696.3	20135.4	18806.0	0.0	0.9	46
4949.1	4640.3	5200.6	5293.2	0.0	0.9	353
15228.6	14967.2	16576.8	14911.0	0.0	0.8	100
15172.2	16641.3	17084.4	15095.0	0.0	0.9	236
105129.1	106339.7	108168.1	107220.0	0.0	0.6	1565
60815.5	59560.6	65884.0	60030.0	0.0	0.8	124;124
21891.2	22438.1	24027.4	21963.0	0.0	0.8	188



Reep5	0.499949	8.84E-05	48.288	ATVNLLGDEKKS(0.5)T(0.5)	3	-0.2945	23287.1	22659.0
Raf1	1	7.88E-10	95.775	RAS(1)DDGK	3	0.14397	256831.6	235123.7
Brd3	0.993961	4.06E-47	106.88	QASAS(0.006)YDS(0.994)EEEEEGL	3	2.2271	31607.2	30344.0
Mid1ip1	0.915271	1.66E-26	78.976	T(0.038)T(0.038)PAPS(0.915)PGS(	3	0.72946	28218.8	27425.1
Tceb3	0.974467	1.63E-11	69.92	KLS(0.026)PALDVAS(0.974)DNHFK	4	1.3479	8061.0	7956.8
Akap6	0.99453	5.42E-43	114.99	RSESTGSSAGPS(0.005)MVS(0.995)	3	-0.92141	79835.6	79054.7
Tcf20	0.80791	7.92E-43	94.707	GNAS(0.134)PGAAAHDS(0.808)IS(	3	-0.40155	18226.5	17876.4
Prr5	0.961201	3.41E-107	146.08	RHS(0.961)VS(0.021)EMT(0.014)S	3	1.1348	19378.7	18320.7
Cgn	0.973016	2.09E-06	74.92	S(0.973)T(0.027)PDLLR	2	0.48383	4833.2	5975.3
Carhsp1	1	0.000663967	82.954	DRS(1)PS(1)PLR	3	0.36759	100126.6	90275.0
Pard3b	0.77498	3.53E-08	56.882	NDSSLLY(0.003)PCGT(0.215)Y(0.0	3	0.36445	21919.1	20775.6
Cnn3	0.99435	6.21E-06	84.753	GPS(0.006)YGLS(0.994)AEVK	2	-0.32842	34957.4	36022.7
Scarf2	1	2.23E-08	60.764	QGAVAAAPS(1)PPPAGR	3	-0.039186	24170.8	26460.9
Nefm	0.56591	1.39E-06	72.705	GS(0.368)PS(0.566)T(0.055)VS(0.C	3	-0.92003	18938.6	19000.8
Snta1	0.999995	3.91E-66	149.12	NSAGGTSVGWDS(1)PPASPLQR	3	0.48312	45973.0	47759.7
Gpsm1	0.997175	3.98E-21	110.97	EGS(0.003)HS(0.997)PLDSADV	3	-0.42822	8135.7	7922.2
Cstf2	0.998739	1.31E-42	113.3	GQGT(0.001)LQHS(0.999)PVGPA	3	0.24071	38298.1	40423.5
Itgb4	0.73639	3.72E-09	56.681	MT(0.001)AANVAY(0.093)GT(0.73	4	0.043899	8256.6	8115.7
LOC10091	0.963189	1.27E-09	127.85	S(0.037)LS(0.963)PPWEQERR	3	-1.9062	89317.4	95148.6
Pum1	1	1.25E-47	142.85	S(1)MDELNHDFQALALEGR	3	-0.10981	15680.2	16492.1
Slc12a2	0.999198	2.42E-07	55.011	EDAT(0.001)AGS(0.999)QAGGGVF	3	0.32469	7137.0	7113.3
Trim3	0.89603	7.23E-05	54.812	VKS(0.104)PGGPGS(0.896)HVR	3	-0.32654	19113.9	20410.3
Synpo2l	0.791373	1.28E-06	51.31	AELAS(0.208)S(0.791)PVPNPDHLE	3	1.7202	12863.0	15042.0
Baiap2l1	0.767138	6.82E-07	69.456	DYDT(0.153)LS(0.073)KY(0.006)S(I	4	0.72047	19181.9	20128.4
Apoe	0.807934	9.35E-16	88.283	NEVNTMLGQS(0.808)T(0.192)EELI	2	2.5073	25591.3	26370.9
Coro7	0.991843	6.11E-12	103.77	S(0.992)LQS(0.008)LLGPSSK	2	-0.8025	36400.6	31764.5
Cldn12	0.589689	3.55E-12	65.954	S(0.59)RLS(0.41)AIEIDIPVVSHT	3	0.1415	5520.4	5528.8
Gnas	0.648405	9.25E-05	89.43	RDQS(0.352)PES(0.648)PPR	2	-0.24276	1501.3	1778.5
Lrrfip1	0.999999	2.04E-18	102.36	SEQQAEALDS(1)PQKK	3	-0.13447	52703.3	49895.4
Rpusd1	0.942981	3.02E-10	87.808	GPRPCS(0.943)PS(0.039)T(0.018)F	2	0.10946	9959.7	10173.4
Kars	1	2.47E-05	69.352	RIS(1)MVEELEK	3	0.51318	5541.1	5892.8
Pirt	0.999261	4.96E-07	78.615	ALEVDEERS(0.999)PES(0.001)K	3	-0.78887	60331.7	60935.8
RGD15599	0.998602	6.98E-35	154.36	SFLSEPS(0.001)S(0.999)PGR	2	0.64128	27265.8	27291.2
Pnpla6	0.78705	1.98E-127	167.98	ISVSLQEEASGGPQT(0.787)AS(0.20	3	1.1751	63612.8	61522.7

21891.2	22438.1	24027.4	21963.0	0.0	0.8	189
232081.3	239989.2	249464.2	240900.0	0.0	0.8	43
32385.3	31227.9	31320.9	32611.0	0.0	0.7	563
25925.1	25640.1	29038.3	27603.0	0.0	0.9	72
7966.4	8817.8	7753.4	7622.7	0.0	0.9	317
83298.7	79231.2	76514.9	88567.0	0.0	0.9	533
17789.1	17854.5	17377.2	19133.0	0.0	0.8	1006
20261.2	19269.1	19179.0	20021.0	0.0	0.8	283
4920.1	5391.1	5327.5	5148.1	0.0	0.9	288
102990.3	98068.0	98590.9	99310.0	0.0	0.8	32
21846.5	21972.8	22674.5	20461.0	0.0	0.8	577
36921.8	35924.7	37327.7	35599.0	0.0	0.7	13
25871.9	24229.9	25495.7	27452.0	0.0	0.9	672
17600.7	18820.3	18079.3	19130.0	0.0	0.8	46
47721.5	46960.6	47608.1	48133.0	0.0	0.6	183
8200.8	8050.2	9467.9	6954.9	0.0	0.9	469
39194.8	39130.0	39762.1	40066.0	0.0	0.6	302
9030.7	8496.0	8207.1	8924.4	0.0	0.8	1402
87600.9	92823.4	90329.3	91320.0	0.0	0.8	590
16834.1	15564.4	17489.4	16386.0	0.0	0.8	124
7081.6	7142.1	7266.2	7112.5	0.0	0.3	46
18987.9	19510.0	19635.3	19886.0	0.0	0.7	443
14608.0	14253.3	14963.2	13674.0	0.0	0.9	700
17789.1	19859.8	20246.5	17500.0	0.0	0.9	281
30790.5	26793.9	28477.2	28217.0	0.0	0.9	139
32445.0	34369.3	32690.9	34444.0	0.0	0.9	459
5322.4	5106.6	5923.6	5487.0	0.0	0.9	228
2029.1	1938.1	1745.2	1672.9	0.0	0.9	244
48398.6	50549.7	51723.4	50068.0	0.0	0.8	768
8946.2	9797.0	9767.8	9773.9	0.0	0.8	271
5287.0	5049.3	5894.9	5926.0	0.0	0.9	395
56447.3	57713.8	60477.8	61109.0	0.0	0.8	14
26013.5	28846.4	26824.0	25619.0	0.0	0.8	1629
68186.1	62376.5	67717.8	64953.0	0.0	0.8	433

Dctn2	0.562704	7.04E-07	54.559	RT(0.563)GYES(0.435)GDY(0.002)I	3	0.19763	13566.7	12577.2
Map2	1	3.23E-18	133.48	VTSEPEAVS(1)EKRR	3	0.099519	13279.3	12277.8
Araf	0.993166	3.34E-05	118.23	S(0.001)AS(0.006)EPS(0.993)LHR	2	-0.10834	16105.9	16746.6
Ndrg2	0.974114	2.74E-43	136.67	S(0.025)RT(0.974)AS(0.81)LT(0.18	2	0.68034	372557.3	386465.0
Rtn4	1	0.000331561	86.288	EDRVVS(1)PEK	3	-0.15515	61293.0	57465.2
Thrap3	1	0.00103139	75.819	GGFS(1)DADVK	3	4.1632	49270.8	51037.3
Tns1	0.887769	5.67E-278	234.37	VVPVHS(0.1)S(0.888)HS(0.012)AP	4	0.57528	18973.1	19977.0
Stk10	0.999887	0.00315283	64.103	S(1)REYEHVR	2	-0.24559	14332.4	15600.3
Hdgf	0.810566	0.0259883	42.031	ASGY(0.002)QS(0.188)S(0.811)QK	2	0.38244	2594.7	2624.7
Dnajc8	0.999614	0.00187075	89.032	RDS(1)VLTSK	2	-0.23104	44329.5	41907.6
Armcx2	0.743114	1.10E-25	74.776	AEEASSLAT(0.026)AVAEVAPT(0.7	3	1.6166	29088.3	30595.1
Hnrnpd	0.84143	1.28E-55	137.23	IDASKNEEDEGHS(0.067)NS(0.091)	4	-0.12422	83947.9	88163.4
Sh3pxd2a	0.692409	1.51E-32	71.688	VGES(0.307)S(0.692)EDVALEEETIY	4	0.724	16963.5	16415.3
Sorbs1	0.999238	3.32E-66	126.68	RPLVKT(0.999)PVDY(0.001)IDLAYS	3	0.041786	131421.4	127395.7
Fam171a1	0.910967	6.96E-31	74.287	GSY(0.001)NT(0.022)VLS(0.066)QI	3	-0.035163	41165.3	41998.7
Matk	1	0.0358134	49.777	S(1)AEEELAK	2	2.5457	14185.7	14737.1
Irs2	1	5.23E-15	125.41	RVS(1)GDGAQDLDR	2	-0.61939	25232.3	27654.3
Stxbp4	0.922547	1.01E-05	64.842	S(0.039)S(0.039)S(0.923)PLERDPA	3	1.2341	5027.1	5413.7
Map1b	0.920632	2.09E-53	126.32	ES(0.076)S(0.921)PT(0.666)Y(0.00	2	0.27424	554393.2	561521.7
Klhl17	0.677178	4.24E-101	132.62	T(0.215)QS(0.677)PEHS(0.101)S(0	4	0.083056	9118.2	8716.7
Sntb1	0.999994	8.48E-49	122.64	GSPVSEIGWET(1)PPPEPR	3	0.24783	188956.2	198377.0
Bsg	0.986309	2.12E-20	68.835	YTVDADDRS(0.986)GEY(0.004)S(0	4	-0.54736	3411.7	3614.4
Pcbp1	0.996654	1.18E-93	182.98	QICLVMLET(0.001)LS(0.002)QS(0.!	3	0.30101	440349.2	445084.2
Ip6k1	0.962827	9.74E-30	125.86	AS(0.003)LS(0.963)FET(0.034)SES	3	0.064441	25695.1	24324.1
Josd1	0.914221	2.80E-31	91.774	S(0.085)ES(0.914)LELPQAAPPQIY(	4	-1.1296	37110.2	37480.5
Zdhhc5	0.999339	1.19E-38	116.13	GLGS(0.999)PEPGT(0.001)TAPYLG	2	-1.0489	38263.5	36544.8
Lyst	0.598323	3.04E-48	118.51	S(0.598)RS(0.398)LPAFPT(0.004)Y	4	-0.48678	13826.7	13713.6
Ralgapa1	0.999698	7.54E-26	144.88	SATTTGS(1)PGTEK	3	0.21561	53966.4	60888.6
Fryl	0.999903	1.63E-05	91.123	TNHGGS(1)LVR	2	1.3305	30764.0	30472.3
Rab11fip1	0.874933	1.12E-06	83.169	HLFS(0.073)S(0.875)T(0.052)ENLA	2	2.1492	15512.0	14285.1
Dpysl2	0.869939	8.36E-18	97.502	GLYDGPVCEVS(0.87)VT(0.13)PK	2	-1.237	343193.5	360204.9
Mxra8	1	0.00237119	40.475	AGLAHS(1)PLPAK	3	1.0309	8654.8	6889.4
Kank1	0.534058	5.46E-07	55.866	S(0.033)AS(0.433)T(0.534)EELRNP	3	1.0067	16054.7	14623.0
Specc1l	0.499973	4.73E-09	49.559	T(0.5)KS(0.5)NDDLLAGMAGGVNV	5	2.1965	3449.1	3549.3

12329.6	13268.8	12853.6	12695.0	0.0	0.8	79
11554.6	12174.4	12292.6	12977.0	0.0	0.9	610;524
15482.0	15789.9	16665.5	16312.0	0.0	0.8	583;624
367993.5	378595.1	377209.9	381310.0	0.0	0.6	316
61664.1	58501.4	63650.6	59888.0	0.0	0.8	343
53112.9	50266.0	53244.1	51287.0	0.0	0.8	379
17965.8	19331.8	19129.8	18966.0	0.0	0.8	746
14590.9	17780.8	13860.3	13283.0	0.0	0.9	20
3062.8	2036.2	2951.7	3368.9	0.0	1.0	103
44150.7	44425.2	42996.9	44143.0	0.0	0.7	35
27898.9	29980.5	30174.2	28220.0	0.0	0.8	100
81026.7	85796.9	88157.8	81476.0	0.0	0.8	81
16340.1	17090.1	16584.3	16495.0	0.0	0.6	557
137200.4	129487.3	132917.9	137200.0	0.0	0.8	1634;933;1140;747
45205.8	41287.0	45960.2	42289.0	0.0	0.8	372
13442.2	14945.2	13793.0	14012.0	0.0	0.8	177
25696.2	25875.5	27220.5	26202.0	0.0	0.8	557
5074.4	4897.2	5355.1	5404.2	0.0	0.8	12
616906.8	568613.2	584227.6	595760.0	0.0	0.8	1786;1660
7447.0	8709.0	8730.5	8073.2	0.0	0.9	14
196692.6	189732.0	200648.6	198990.0	0.0	0.7	215
3155.1	3413.0	3468.9	3392.5	0.0	0.8	82
422641.6	436046.0	452816.5	431210.0	0.0	0.7	154
25024.4	24475.2	27114.7	24142.0	0.0	0.8	139
39782.5	36716.7	38416.7	40290.0	0.0	0.8	15
41218.7	38114.7	40752.7	38225.0	0.0	0.8	621
12187.0	12209.6	14753.7	13129.0	0.0	0.9	2094
51334.9	56733.7	55956.3	55027.0	0.0	0.9	739
29641.8	30401.8	29851.5	31461.0	0.0	0.7	1987
16630.8	15771.2	16162.2	14922.0	0.0	0.9	361
326621.5	365725.6	341260.7	332550.0	0.0	0.8	507;608
8525.2	7674.6	9029.8	7587.5	0.0	0.9	420
15867.4	14558.0	16142.9	16275.0	0.0	0.8	917
3196.1	3267.5	3629.5	3391.8	0.0	0.8	54

Specc1l	0.499973	4.73E-09	49.559	T(0.5)KS(0.5)NDDLLAGMAGGVNV	5	2.1965	3449.1	3549.3
Map4	1	7.15E-63	138.91	AAVGLTGNDIAT(1)PPNK	3	-0.49793	81512.5	86425.9
Stk10	0.85366	0.00130589	92.239	ET(0.001)GS(0.146)LS(0.854)LK	2	0.59224	96601.1	93826.8
Ncoa3	1	0.0065541	60.045	QEQLS(1)PK	3	0.68926	13921.0	11643.8
Fryl	0.999916	2.19E-22	87.654	LQLLSPQVDINS(1)PINAK	3	-0.42037	32031.8	32174.7
Syne2	0.950658	2.79E-21	76.799	T(0.039)NS(0.951)MS(0.01)FLPAV	3	1.5534	30199.8	31379.4
Ar	0.897603	1.85E-32	91.889	LQEEGENS(0.005)S(0.019)AGS(0.8	3	-1.1801	41935.8	44508.4
Snx7	0.999986	2.09E-30	110.56	LASGSSELAVGES(1)PR	3	0.22483	10983.5	10123.6
Scg3	0.9984	9.80E-43	93.166	LFPAPPEKS(0.998)HEET(0.001)DS1	5	0.17805	43864.4	45738.1
Fam65b	0.54872	0.000534394	45.825	LT(0.549)S(0.45)AEGPIT(0.001)TN	3	0.6097	4462.8	4541.3
Bclaf1	0.953737	9.74E-05	47.082	GDS(0.093)KGS(0.954)RES(0.784)S	3	-0.030514	17389.3	24419.5
Bclaf1	0.783701	9.74E-05	47.082	GDS(0.093)KGS(0.954)RES(0.784)S	3	-0.030514	17389.3	24419.5
Map1b	1	4.22E-66	123.72	VQS(1)LEGEKLS(1)PK	2	1.0296	615410.7	560424.8
Phgdh	0.989744	0.000188307	43.042	NAGT(0.01)CLS(0.99)PAVIVGLLR	3	0.95084	1383.0	1378.9
Lpin1	0.8026	0.000166079	40.158	NAT(0.197)IKEES(0.803)KPEQGLPC	4	-0.22018	27378.0	23797.6
Zc3h13	0.898518	0.0559166	53.404	S(0.018)GS(0.899)FDS(0.083)R	2	0.86637	8783.5	8314.9
Abcf1	0.604723	2.63E-08	54.559	NKPS(0.173)AT(0.605)DS(0.222)EC	3	2.6931	9120.9	11336.6
Prx	0.796526	1.71E-11	63.302	LPSVGFS(0.203)ET(0.797)AAPGSA	3	-0.86873	12148.6	12565.2
Mia3	0.910509	4.01E-07	81.017	T(0.089)EMS(0.911)IDLK	2	-0.36747	44861.4	55859.3
Prkd3	0.999931	8.85E-39	119.26	RLS(1)NVSLPGPLSVPR	2	-0.79942	29716.8	28858.7
Ccny	0.999993	1.38E-33	113.42	NAHS(1)RLES(1)YRPDTDLR	4	0.0044196	99716.4	101376.9
Rab12	0.999992	5.39E-33	94.389	RPAGGGLGAVS(1)PALSGGQAR	3	0.70011	48828.3	48953.1
Slx4	0.628961	4.66E-20	68.234	QQEPSTQRPPASQS(0.002)S(0.007	4	0.49879	9891.6	9754.6
Sptbn1	0.999135	6.46E-31	133.9	T(0.001)LET(0.999)PAAQMEGFLNI	2	2.5967	46792.4	49248.2
Bptf	0.982831	8.40E-10	70.555	DS(0.013)HT(0.983)PVS(0.004)VQ	3	1.3653	10225.0	9678.6
Slc9a1	1	2.30E-14	65.438	CLS(1)DPGPHPEPGEPEFIPK	4	-0.83761	16912.2	16532.7
Sec62	1	5.14E-08	59.606	GAPGDHGPEGS(1)GGER	3	0.10717	3064.6	3345.2
Fam171a2	0.872634	0.00612131	83.206	S(0.11)S(0.018)AS(0.873)ELR	2	-0.28847	9045.2	8947.2
Sptbn4	0.895365	2.64E-27	104.95	QES(0.001)S(0.001)EQET(0.895)P1	3	0.23673	31922.1	29277.8
LOC10091	1	2.49E-07	78.505	RLDGLPNS(1)PIRK	3	-0.65897	35460.7	37030.7
Phactr4	0.926055	2.93E-11	65.423	S(0.033)S(0.033)S(0.926)PILS(0.00	2	0.83402	15996.2	14355.3
Ahnak	0.999944	3.79E-32	71.207	GDINIEGSPMNIEGPELNVCEPEGS(1	5	-0.34756	140628.8	131037.4
Garnl3	1	3.10E-07	89.911	ELLGLS(1)DDGGPK	2	0.3011	18580.8	15962.3
Map2	0.597221	1.01E-10	52.96	S(0.002)GT(0.004)S(0.01)T(0.03)P'	3	1.3038	11800.5	13218.9

3196.1	3267.5	3629.5	3391.8	0.0	0.8	52
93904.6	88627.1	90271.6	85373.0	0.0	0.8	1735;659
98882.9	97265.0	95736.6	98996.0	0.0	0.6	529
14516.4	13070.8	14021.7	13361.0	0.0	0.9	721
32051.0	30987.0	33095.9	33071.0	0.0	0.7	859
30094.2	30395.2	31607.3	30525.0	0.0	0.6	4105
40937.6	41853.5	45865.1	40850.0	0.0	0.8	633
10644.2	10065.7	10826.4	11155.0	0.0	0.8	131
46174.6	43958.8	47100.5	45984.0	0.0	0.7	365
4344.6	4634.9	4759.0	4079.4	0.0	0.9	681
16351.8	20333.9	16652.7	21717.0	0.0	1.0	712
16351.8	20333.9	16652.7	21717.0	0.0	1.0	715
630246.8	592702.3	629741.2	600520.0	0.0	0.8	1772;1646
1347.5	1363.8	1374.5	1409.6	0.0	0.5	371
22779.1	24246.4	26285.4	24115.0	0.0	0.9	602
8294.9	8087.3	9158.9	8385.1	0.0	0.8	1355
8902.0	9953.5	7954.2	11727.0	0.0	0.9	195
13100.4	11518.8	12880.4	13770.0	0.0	0.9	1367;1367
62211.3	45464.6	60485.2	58517.0	0.0	0.9	270
32394.9	30090.5	31138.1	30600.0	0.0	0.8	213
105941.5	95211.4	110786.3	103940.0	0.0	0.9	25
47010.3	48012.1	48651.1	49498.0	0.0	0.6	20
9918.1	10278.8	10215.9	9349.4	0.0	0.8	537
48604.1	45802.3	49540.2	50672.0	0.0	0.8	2181
9793.9	10059.7	9883.0	10036.0	0.0	0.6	750
18141.5	16328.9	18551.7	17195.0	0.0	0.9	801
3570.7	3141.5	3059.3	3874.3	0.0	0.9	335
9246.2	9123.2	8800.9	9573.2	0.0	0.7	732
28362.1	29750.6	32558.4	28104.0	0.0	0.9	2306
36128.6	36933.3	36626.7	36093.0	0.0	0.5	97
15279.7	15562.2	15180.1	15323.0	0.0	0.8	118
142161.6	136274.0	142311.3	139180.0	0.0	0.8	2925
16509.4	17955.7	16510.5	17072.0	0.0	0.9	900
13541.2	10834.1	13011.8	15082.0	0.0	0.9	1682;1596



Kctd12	0.993277	4.20E-58	91.279	EGS(0.993)LGDELLPLGY(0.007)AEI	4	0.21487	201479.3	200889.0
Reps1	0.823983	0.00051566	66.023	QS(0.007)S(0.168)S(0.824)Y(0.001	2	-0.50312	12130.7	12355.6
Lnp	0.913326	2.25E-27	105.22	S(0.014)DS(0.053)VS(0.913)NLELS	2	0.05436	67050.1	67000.7
Nefh	1	1.87E-65	152.06	SPAEAKPPAEAKS(1)PAEAK	5	0.75412	596387.4	607603.1
Mgll	0.994337	1.38E-33	97.5	S(0.994)EVDLY(0.001)NS(0.005)DF	3	-0.18279	117310.8	112126.6
Ubr5	1	6.93E-06	83.877	WLDGAS(1)FDNER	2	-0.10711	13086.1	13092.8
Dennd1a	0.554487	0.00598547	44.543	KGS(0.446)GAILNT(0.554)VK	3	-0.25547	10352.9	10043.8
Ppp4r2	0.893194	2.74E-41	111.65	AEETET(0.001)AS(0.106)S(0.893)P	4	-0.04434	40701.4	37697.7
Mark1	0.996086	1.50E-54	130.83	SRPSSDLNNS(0.003)T(0.001)LQS(C	4	-0.12276	78083.5	75728.8
RGD13117	1	2.21E-15	54.466	IQPQLPDEDGNES(1)DKEDEQPQVV	4	-0.018811	70456.3	73083.0
Rnf213	0.9416	1.97E-13	69.188	DFATPTLQT(0.029)S(0.029)DQS(0.	3	2.1587	4977.3	5129.3
Ythdf2	0.967107	5.53E-06	51.31	DGLNDDDFEPY(0.033)LS(0.967)PC	2	1.4163	14096.3	15515.9
Ncoa7	1	0.0089829	68.657	GGGT(1)PPPK	2	-0.053851	55416.7	54868.8
Cep68	0.716462	6.02E-11	61.141	SLQVS(0.008)DS(0.207)DEPAS(0.7	3	0.41332	7286.6	7793.3
Nefl	0.855003	1.53E-58	120.56	LSFTS(0.001)VGS(0.104)IT(0.855)S	3	1.274	39864.1	40748.2
Amer2	0.851096	5.38E-21	79.462	TCLEAS(0.126)S(0.851)PT(0.023)G	3	-0.37219	16420.8	16609.5
Prr14	0.858723	0.000137371	48.568	LQPLGS(0.859)PS(0.062)S(0.08)LE	2	0.72157	10917.2	10804.4
Atp11a	0.587473	0.0107454	79.596	CSGS(0.412)LT(0.587)R	2	-0.49817	14184.5	16471.3
Hdgfrp2	0.655179	3.19E-39	79.382	GGSS(0.001)EELHDS(0.655)PQDS(	3	1.4609	13812.4	14517.7
Reps1	0.526575	2.41E-12	53.197	LIDLEDS(0.001)ADVGDQPGEVGY(	3	1.0286	4408.6	4391.7
Zfp385b	0.870276	0.00796867	67.334	S(0.13)PS(0.87)JLAAK	2	-0.73146	5918.7	5476.1
Mapk1	0.999845	3.48E-59	141.11	VADPDHDHTGFLT(1)EY(1)VATR	4	0.12543	251237.9	214403.0
Xrn2	0.995465	9.13E-07	84.895	NS(0.995)PGCQVAS(0.005)NPR	3	0.04576	8835.6	8318.2
Plekhn2	0.807368	3.07E-23	67.496	T(0.047)GS(0.145)PGEAPEKPPFCD	3	-0.73929	40229.1	37759.1
Atl1	0.999995	6.67E-05	100.22	NSWGGFS(1)EK	2	-1.7968	17213.9	16483.3
LOC10369	0.859675	8.92E-07	53.554	FGDLS(0.026)S(0.114)AS(0.86)AIM	3	-0.21627	17132.8	19712.7
H1fx	0.834755	8.50E-05	54.09	RGAS(0.835)AAS(0.139)S(0.026)P/	3	0.34729	23499.4	24913.1
Casp3	0.936614	4.30E-10	80.411	S(0.937)MDS(0.059)GIY(0.004)LD	3	-0.76394	40384.1	38918.5
Misp	0.962684	5.76E-07	55.546	AES(0.032)PET(0.963)PKET(0.005)	3	-0.10736	28984.5	27044.4
Lyst	0.999771	1.27E-32	107.98	S(1)LPAFPTYSPMLMQAQK	3	1.4504	40408.0	40670.3
Speg	0.994846	0.00159512	88.134	S(0.005)RS(0.995)VQDLR	2	-0.61398	23194.0	27111.3
Tcf20	0.752394	6.76E-08	55.177	LS(0.182)T(0.061)S(0.752)PAT(0.0	3	-0.68538	50572.0	49520.2
Arglu1	0.903109	5.98E-17	107.35	ERAS(0.097)S(0.903)PPDR	2	-0.026396	44377.2	52095.8
Atf7	0.818508	9.32E-05	43.37	S(0.003)AAGPLDMS(0.819)LPS(0.1	3	1.0603	12736.6	12071.5



199769.4	203723.5	206504.7	197650.0	0.0	0.5	153
14388.6	12716.6	13595.3	12934.0	0.0	0.9	274
67524.9	66996.3	68998.1	67508.0	0.0	0.4	413
586287.7	644400.4	594433.2	568560.0	0.0	0.8	724;694
113757.0	117508.7	109568.1	119400.0	0.0	0.8	189
13259.1	13306.2	14261.1	12249.0	0.0	0.8	79
10532.5	10163.2	9998.9	11064.0	0.0	0.8	419;426
40126.4	37722.0	42268.1	39673.0	0.0	0.8	243
65442.5	73851.3	77106.9	70406.0	0.0	0.9	403
63208.9	71374.2	74088.0	63279.0	0.0	0.9	50
4711.0	4757.4	4909.1	5293.9	0.0	0.8	1958
13601.9	14277.5	14126.4	15227.0	0.0	0.8	39
51913.0	54296.2	55286.3	54181.0	0.0	0.7	491
7021.4	6769.4	8328.3	7216.9	0.0	0.9	510
40428.7	40767.8	41139.6	40302.0	0.0	0.3	410
16927.8	17085.7	17728.8	15626.0	0.0	0.8	279
10521.6	10976.6	10262.2	11316.0	0.0	0.8	40
13879.7	14149.9	14948.2	15868.0	0.0	0.9	744
15234.0	14539.3	14666.1	14780.0	0.0	0.8	635
5070.7	4587.7	4696.2	4721.4	0.0	0.9	392
4703.8	5431.6	5706.9	5116.0	0.0	0.9	307
238384.0	225667.7	246546.8	238630.0	0.0	0.9	185
8626.2	8768.5	8491.3	8769.9	0.0	0.7	58
40055.0	40144.1	40125.4	38918.0	0.0	0.7	457
15687.5	17038.4	16370.6	16455.0	0.0	0.8	15
17178.0	18378.1	18114.6	18056.0	0.0	0.8	53
23688.3	24085.8	24655.8	24061.0	0.0	0.7	130
41531.7	40775.5	37728.5	43507.0	0.0	0.8	26
27495.4	25790.8	29120.5	29427.0	0.0	0.8	258
41532.7	40921.8	41995.6	40889.0	0.0	0.5	2096
25019.1	25833.7	25722.3	24503.0	0.0	0.8	2310
49585.7	49356.3	50256.2	51525.0	0.0	0.5	607
41530.6	45294.1	52460.8	41596.0	0.0	0.9	75
12544.7	13062.0	12711.5	11945.0	0.0	0.8	97

Mapk14	0.949668	4.25E-06	58.098	HTDDEMT(0.95)GY(0.05)VATR	3	1.1685	3890.8	4125.2
ErbB3	0.956948	2.76E-46	100.7	GRPAS(0.957)ES(0.021)S(0.021)EC	4	-0.46265	14867.9	15126.5
Crybg3	0.999179	1.80E-18	72.568	ASDT(0.001)CLDVIGGRDT(0.999)P	3	2.2305	13020.5	13218.9
Map7d2	0.997399	7.49E-21	117.08	KS(0.001)S(0.001)ENLS(0.997)LDD	4	-1.0333	263486.7	251401.9
Zbtb40	0.947365	0.00254304	43.761	DT(0.01)S(0.043)AS(0.947)PDAAK	3	-0.74648	28277.2	29004.6
Syt4	0.988985	1.32E-17	98.156	LFPETEKEAVS(0.989)PES(0.011)LK	4	1.0914	28666.1	27040.0
Xrcc1	0.971047	2.72E-05	55.031	DNGAEDS(0.029)GDT(0.971)EDEL	3	1.4462	6788.6	5692.2
Peak1	0.99975	2.23E-30	85.563	TDQEVLNASQPT(1)PPPLPK	4	-0.079328	40379.4	41661.9
Spred3	1	0.00105012	61.989	AS(1)PEAEAAAR	2	1.1018	13229.2	14651.5
Apba2	1	0.000160608	85.924	T(1)PEERPK	2	0.63932	72963.4	62762.2
Rps6kc1	0.997018	3.84E-24	93.804	LQQPS(0.003)AS(0.997)PQGSYSVE	3	0.93683	22131.4	23494.8
Srgap2	0.999388	0.00263766	62.694	ELEGPIY(0.001)S(0.999)R	2	2.378	22833.8	26279.9
Atxn2l	0.862586	0.0024785	51	S(0.092)T(0.093)S(0.528)T(0.158)F	2	0.013529	3866.0	3334.5
Tcof1	0.764473	1.14E-12	63.979	T(0.014)NVT(0.162)T(0.764)PT(0.0	3	-0.40314	17909.3	15133.0
Usp6nl	1	0.00371528	78.683	S(1)VGRPS(1)PK	3	0.57019	73535.8	78864.9
Copa	0.898188	9.40E-06	68.168	NLS(0.102)PGAVES(0.898)DVR	2	2.5075	28856.9	32379.8
Tp53bp1	0.692495	1.43E-25	73.936	LVS(0.028)PET(0.692)EAS(0.053)E	3	-0.80456	9809.3	9092.7
Ahnak	0.979291	4.73E-08	58.093	GPS(0.979)LKGDVAAS(0.013)S(0.0	4	-1.2858	7242.9	7352.8
Rps6kb2	0.680202	0.0219981	71.501	RLNS(0.68)S(0.32)PR	2	-0.44517	4391.8	4484.1
Sgip1	0.976876	3.56E-07	44.31	TEVLLDQPEIWGS(0.006)GQPINPS(	3	-0.22656	13695.5	13393.3
Zfp609	0.880642	0.000146035	73.499	APS(0.881)LT(0.119)DLVK	3	0.062379	4488.8	4153.0
Pnn	0.964077	2.93E-28	142.74	RGFS(0.964)DS(0.036)GGGPPAK	2	-0.53657	90276.3	82787.5
Prr5	0.5	0.00373936	50.95	S(0.5)RS(0.5)GDILAK	3	-0.23403	6086.0	5105.9
Larp4b	0.964546	7.69E-22	84.249	S(0.035)PS(0.965)PAHLPEDHKVAE	4	-0.91455	150551.9	158438.4
Phyhipl	1	4.87E-10	97.767	NLS(1)LEAIQLCDR	3	-0.3871	39907.1	37510.1
Unc13a	0.680903	0.0149141	48.944	ALS(0.003)PT(0.088)GS(0.681)S(0.	2	0.24025	24207.8	25605.3
Ppp6r3	1	8.35E-19	71.685	IQQFDDGGS(1)DEEDIWEEK	3	0.70785	30501.6	30463.5
Mprip	0.945905	9.09E-11	52.09	GALS(0.001)LCQPS(0.946)HPDS(0.	3	-0.36801	18974.3	17641.7
Tp53bp1	0.727046	9.36E-10	75.819	LMLSTS(0.001)ECS(0.727)QS(0.13	3	0.44366	12024.6	12417.1
Gys1	0.520065	0.00286638	49.298	AS(0.004)CS(0.435)S(0.52)S(0.032	2	0.076045	4036.1	3720.2
Vps13d	0.907194	6.34E-05	47.68	NLSFDIPT(0.021)GS(0.071)LRDS(0	3	-1.3046	1428.2	1664.0
Slc4a2	0.878608	8.93E-23	57.735	APPQQPS(0.879)PAS(0.042)S(0.04	4	1.81	4156.8	4208.9
Ywhag	0.864233	0.000422229	74.841	NCS(0.014)ET(0.864)QY(0.118)ES(	2	0.18585	6198.6	6355.2
Ccp110	0.91451	9.37E-13	72.904	LPS(0.001)PEPS(0.062)MS(0.915)F	3	-0.73593	13703.9	14012.0

3745.2	3884.2	3898.2	4093.9	0.0	0.8	180
17097.1	14743.9	16857.9	15951.0	0.0	0.9	1091
13489.0	12887.1	13660.5	13570.0	0.0	0.7	2884
292723.3	258215.5	279546.6	277780.0	0.0	0.9	738
29633.2	27665.1	31301.6	28802.0	0.0	0.8	743
27698.8	27664.0	29332.1	27228.0	0.0	0.7	135
6425.0	6282.9	6258.9	6549.8	0.0	0.9	487
40831.1	41519.1	42261.7	40301.0	0.0	0.6	1139
14221.5	13598.8	13877.4	15041.0	0.0	0.8	288
68911.1	71546.9	68277.8	66830.0	0.0	0.8	307
24512.3	23208.0	24465.5	23159.0	0.0	0.8	267
25135.1	24767.8	24257.1	25959.0	0.0	0.8	538
3580.7	3938.4	3816.8	3133.1	0.0	0.9	681
17347.3	16991.1	17611.3	16288.0	0.0	0.9	946
76377.4	76027.0	79845.9	75179.0	0.0	0.7	313
29634.3	32138.6	28793.5	30842.0	0.0	0.8	179
9538.2	10089.8	9775.2	8858.1	0.0	0.8	955
7445.9	6454.6	7736.6	8069.9	0.0	0.9	5005
4218.3	4546.6	4416.2	4261.8	0.0	0.7	416
14074.6	13552.6	13741.7	14279.0	0.0	0.7	264
4579.1	4194.6	4478.9	4679.2	0.0	0.8	1055
81120.4	86174.1	86768.5	83775.0	0.0	0.8	66
5324.9	5095.6	6051.4	5534.5	0.0	0.9	239
150604.3	149803.5	162198.8	152190.0	0.0	0.8	601
40247.7	38948.5	40915.2	38983.0	0.0	0.7	24
22042.3	24327.8	25100.3	23150.0	0.0	0.8	259
29936.7	29029.0	31051.6	31737.0	0.0	0.7	617
17477.2	17472.9	19742.1	17424.0	0.0	0.8	2017;2040
11089.3	11925.8	11734.8	12229.0	0.0	0.8	525
4761.3	3785.8	4346.5	4511.7	0.0	0.9	701
1553.5	1512.6	1814.3	1365.8	0.0	0.9	1038
4393.4	4628.7	3976.0	4283.2	0.0	0.8	145
6614.8	5623.8	6886.0	6852.7	0.0	0.9	115
15444.8	16591.8	13396.5	13609.0	0.0	0.9	372

Yap1	0.786329	6.81E-73	158.91	QAS(0.786)T(0.214)DAGTAGALTP(	3	-1.4212	44434.5	46251.4
Rb1cc1	0.961401	1.50E-08	59.339	ECLGRPDS(0.961)LNEHEGS(0.039)	3	-0.27084	35946.2	32991.9
Als2	0.944027	3.28E-36	106.35	S(0.022)S(0.027)S(0.944)LMDIREE	2	0.99896	79657.9	94685.7
Mecp2	0.988392	0.00842893	80.231	S(0.023)KES(0.988)S(0.988)PK	3	0.57643	101987.2	109427.1
RGD13099	0.723267	7.29E-24	133.23	S(0.138)GS(0.723)T(0.138)GS(0.00	3	0.80355	13230.4	13534.8
RGD13048	0.836291	0.0149131	47.574	S(0.133)LDES(0.031)T(0.836)LRK	3	1.0124	12651.9	13568.8
Mlx	0.996785	3.52E-21	79.88	GAPQLS(0.997)PES(0.003)PLLSRPF	3	0.7764	8896.3	8484.6
RGD13099	0.687309	4.03E-21	111.81	SGST(0.002)GS(0.687)S(0.31)LSISV	3	-0.026643	12116.4	12738.5
Mapk8ip2	0.7387	1.95E-29	79.845	MIS(0.042)S(0.151)IS(0.739)ET(0.0	3	0.9079	2945.1	2967.4
Aldoa	0.999851	3.73E-61	168.47	GILAADESTGS(1)IAKR	2	0.16796	177780.8	208238.3
Ehbp1	0.992349	1.98E-17	71.592	ATDEDMQS(0.992)LAS(0.007)LMS	3	0.89056	63643.8	67095.0
Setd5	0.754116	1.03E-06	51.827	S(0.754)PQLT(0.123)T(0.093)PGQ	3	0.075532	10589.7	11281.8
Sgtb	0.908321	2.98E-09	123.79	SFS(0.007)S(0.075)S(0.908)T(0.00	2	0.17194	24667.0	28017.4
Clasp1	0.772288	1.46E-11	62.739	SSSS(0.001)S(0.003)QES(0.224)LN	3	-0.77932	18469.8	19517.4
Bin1	0.999854	6.13E-41	125.23	SPSPPPDGS(1)PAATPEIR	3	0.42815	135703.1	154116.5
Cbarp	0.997753	1.94E-06	44.158	GAGDEVVS(0.006)ELPAPARS(0.997)	3	0.41124	21383.6	25545.0
Astn1	0.982493	1.14E-07	45.132	SASAEANEIHY(0.002)IPS(0.015)V	5	1.9881	4645.0	4179.8
N4bp2	0.888464	0.0112688	45.28	EENVS(0.015)S(0.097)AS(0.888)Pk	2	0.33912	2096.8	2611.8
Peak1	0.854978	6.92E-70	119.45	SLFT(0.001)S(0.005)QS(0.139)S(0.	3	0.42558	45856.1	50213.5
Runx1	0.991236	5.89E-05	48.216	VS(0.991)PHHPAPT(0.009)PNPR	3	0.23333	5283.1	5093.6
Arhgap17	0.845167	1.80E-12	101.71	S(0.073)S(0.019)GT(0.845)NFQGLI	2	-0.86235	12747.4	10313.6
Npdc1	0.818363	1.60E-07	66.246	KHQS(0.182)S(0.818)GEGLPQPR	4	0.73986	3148.4	4057.5
Tdrd7	0.969029	2.18E-19	62.193	EVNDNLNQT(0.024)VEKPNVT(0.90	4	0.73276	18887.3	16810.2
Dlg4	1	0.00159534	88.37	RYS(1)PVAK	3	0.13915	22489.2	22966.1
Hivep1	0.999667	0.00127411	76.843	RGS(1)IDSPK	3	-0.50636	23730.7	22723.7
Myo9b	0.839255	1.65E-11	60.325	S(0.006)PS(0.004)PLQRPAS(0.839)	3	0.50491	12202.3	12405.0
Prkcd	1	8.88E-05	55.196	LLAEALNQVT(1)QK	3	-1.4153	5610.4	5422.4
Arhgap12	0.80468	6.36E-42	93.505	AT(0.195)T(0.805)PPNQGRPDS(0.0	4	-0.47034	71465.4	71414.6
Llg1	0.583482	4.19E-14	80.414	NIILAPES(0.417)CEGS(0.583)PR	2	-0.032153	8438.9	7441.5
Spata6	1	0.00689986	48.284	HVDPPS(1)PR	3	0.27449	5771.0	5565.5
Spata13	0.883435	1.45E-122	195.55	LRPFTFSQS(0.883)T(0.116)PIGLDR	3	-0.84924	20601.2	20826.0
Stk38l	1	0.0635061	55.898	FEGLT(1)QR	2	0.16662	20651.2	21218.7
Yap1	0.813559	6.81E-73	158.91	QAS(0.186)T(0.814)DAGTAGALTP(	3	-0.23125	44000.3	44951.6
Npap60	0.745431	5.49E-07	53.565	LQQDS(0.745)PFS(0.255)FHGNK	3	2.4598	17940.3	18609.2

44824.6	49053.8	44707.8	43120.0	0.0	0.8	94
31725.3	32598.4	35146.6	33937.0	0.0	0.8	222
77284.5	80362.0	83204.6	90609.0	0.0	0.9	460
111169.9	107510.1	108360.5	109980.0	0.0	0.7	349
13941.5	12641.8	13452.1	15025.0	0.0	0.9	2090
11103.2	13296.3	12961.6	11444.0	0.0	0.9	132
7665.3	8295.1	8026.0	8978.9	0.0	0.9	45
11705.7	12399.8	13174.2	11358.0	0.0	0.8	2093
3615.2	3109.9	3526.7	2987.9	0.0	0.9	275
199120.0	182197.3	212093.8	196800.0	0.0	0.9	39
67851.8	64536.8	62553.1	73521.0	0.0	0.9	171;171
11260.7	10289.1	11339.4	11841.0	0.0	0.8	882
23017.6	24895.4	25245.6	26332.0	0.0	0.9	295
19510.6	20165.6	19560.5	18359.0	0.0	0.8	568;568
151157.9	147284.6	146885.1	151320.0	0.0	0.8	288
22970.7	21925.5	24707.0	23982.0	0.0	0.9	257
4517.6	4428.2	4525.6	4525.2	0.0	0.8	216
3180.7	2512.6	2593.3	2864.2	0.0	0.9	552
51185.9	47477.6	50799.1	50487.0	0.0	0.8	823
5619.4	5106.1	5144.3	5910.1	0.0	0.9	212
11716.4	11924.7	10841.4	12369.0	0.0	0.9	164
3183.2	3355.8	3625.6	3514.7	0.0	0.9	86
16998.1	16844.8	18141.3	18253.0	0.0	0.8	214
22751.4	22551.4	23371.2	22988.0	0.0	0.4	235
23427.4	22802.2	24273.2	23528.0	0.0	0.7	774
12434.0	11769.6	12677.3	12977.0	0.0	0.7	1229
5501.5	5500.2	5733.7	5471.3	0.0	0.6	295
70682.6	72227.8	71952.9	71591.0	0.0	0.1	229
8427.3	8094.9	8465.0	7999.2	0.0	0.8	987
4481.5	5180.6	4949.9	5851.3	0.0	0.9	265
19216.8	20583.5	21503.3	19187.0	0.0	0.8	671
18731.3	20490.0	21294.9	19446.0	0.0	0.8	450
44622.3	48502.7	43725.7	42735.0	0.0	0.8	95
16616.9	17856.7	18902.2	16961.0	0.0	0.8	235

Ppp1r12b	0.522758	0.0783768	48.048	LAS(0.523)LT(0.471)S(0.006)R	2	-0.10835	4285.4	4263.3
Fam83h	0.956991	5.37E-09	96.489	RGS(0.957)PT(0.04)T(0.003)GLME	2	0.15855	71346.1	68285.1
Ttc3	0.99481	9.41E-40	128.78	RNS(0.995)DS(0.005)AGPFAVPDH	3	-0.66644	12994.2	12598.1
Prpf6	1	0.0024279	47.712	IQQQFS(1)DLKR	3	0.51032	5724.7	7502.5
Ppfia1	0.862914	5.42E-12	78.69	S(0.007)S(0.007)DGS(0.122)LS(0.8	2	0.80047	105824.1	105191.9
Dock9	0.993205	1.71E-41	114.15	S(0.006)NS(0.993)LDKQQS(0.001)	3	-1.4118	17135.2	15863.6
Eepd1	0.999837	1.82E-06	76.378	GNS(1)AQHS(0.779)PS(0.179)S(0.(	2	0.32331	22597.7	22073.2
Zc3h14	0.904645	0.00282257	47.869	VS(0.002)T(0.009)S(0.084)S(0.905	3	0.54486	16518.6	15702.3
Pard3b	0.999934	4.48E-05	61.11	S(1)MDLVPDESK	3	-0.14868	29548.6	29972.1
Ctnnd2	0.999992	5.87E-15	83.54	GGs(1)APEGAAYAAPR	3	-0.2557	14757.0	13599.6
Nelfe	0.547097	1.27E-26	81.574	S(0.547)LS(0.453)EQPVVDTATATE	4	0.9059	16697.5	16708.2
Ints3	0.759928	0.0151595	41.399	KAALS(0.76)S(0.24)PR	3	4.0162	8063.1	8069.8
Ptpn21	0.999201	2.19E-21	77.221	RNS(0.999)IEIAGLT(0.001)HGFEGl	3	0.38142	2029.5	2077.0
Chmp2b	0.632385	0.0357633	42.426	S(0.005)LPS(0.025)AS(0.632)T(0.2	2	-0.5617	10152.3	10279.1
Map3k2	0.911361	0.00514546	71.614	AKPS(0.089)S(0.911)PK	2	0.1056	91281.7	90637.0
Mpz	0.987407	0.000390876	65.179	S(0.987)PS(0.007)RT(0.004)S(0.00	3	0.29856	581801.0	525981.6
Gphn	0.750003	1.31E-29	125.98	DTASLS(0.001)T(0.005)T(0.025)PS	2	-0.11884	9552.2	10088.9
Arhgef12	0.999993	1.30E-23	92.39	EAHS(1)DDNPSEGDGAVR	3	0.38591	32262.0	29704.5
Map7d2	1	0.0065662	66.27	AEHS(1)AGK	2	0.54808	12684.1	13890.2
Piezo2	0.499991	8.05E-33	110.74	MLS(0.5)LT(0.5)QESGEGQDIQK	3	-0.047894	11163.4	12391.8
Piezo2	0.499991	8.05E-33	110.74	MLS(0.5)LT(0.5)QESGEGQDIQK	3	-0.047894	11163.4	12391.8
Prickle2	0.998103	5.16E-10	84.436	S(0.998)DNALHLAS(0.002)ER	3	-0.043471	30397.8	33595.2
Rab18	1	0.0405046	43.982	GVKLS(1)PR	3	0.19499	11039.0	11392.6
Fam171a1	0.717745	2.71E-15	81.316	DQS(0.045)T(0.217)S(0.718)MS(0.	3	0.15212	25658.1	27387.8
Ssfa2	0.885432	7.44E-44	137.69	S(0.001)LT(0.114)S(0.885)FEEAQQ	3	-0.40329	367798.5	370845.0
Terf2ip	0.962372	1.71E-12	69.485	YLLGNAPVS(0.962)PS(0.036)S(0.0(	3	-0.18718	7181.2	7221.3
Epb41l3	0.919821	1.65E-15	115.92	LS(0.08)ES(0.92)LAPIK	3	-0.16034	111630.0	106943.7
Hcn2	0.844486	2.05E-08	70.41	T(0.844)S(0.155)PYGVPGS(0.98)P/	2	0.060134	58868.3	63605.7
Slc22a5	0.510273	0.00603962	43.68	DGGES(0.49)PT(0.51)VLK	3	1.1561	5837.8	5991.9
Tnik	0.990927	1.49E-21	78.428	S(0.008)EGS(0.991)PVLPHEPS(0.0(	3	-0.33952	116331.6	113168.7
Rer1	0.968008	5.51E-09	57.806	VDPS(0.002)LMEDS(0.968)DDGPS	3	0.57892	12601.9	12501.5
Spag7	0.870261	5.09E-09	51.321	QEEEEAAQQGPAVVS(0.87)PT(0.09/	3	1.9112	7037.4	6872.5
Ablim3	0.890276	1.07E-32	77.169	ASSPGYIDS(0.002)PT(0.036)Y(0.03	3	-0.82389	4491.2	5979.9
Rufy3	0.817738	5.22E-73	142.4	DGNS(0.818)S(0.179)KGS(0.003)Ei	4	0.38143	9797.9	8784.4

3950.2	4223.0	4202.0	4204.1	0.0	0.7	696;73
69539.2	71342.3	69255.6	70751.0	0.0	0.5	926
13587.0	13429.4	13231.9	12926.0	0.0	0.7	1080
7608.3	7190.7	7040.5	6821.3	0.0	0.9	143
106645.2	102228.1	108082.6	110660.0	0.0	0.7	244
17928.6	17185.8	16832.2	17440.0	0.0	0.8	1272
21702.7	21497.6	22429.8	23138.0	0.0	0.7	106
16309.3	16963.6	16106.6	15966.0	0.0	0.7	135
29766.3	28769.4	30323.8	31126.0	0.0	0.7	652
14959.3	14740.6	14612.6	14415.0	0.0	0.7	268
18257.5	17467.4	17008.5	17727.0	0.0	0.8	49
8143.7	8331.6	8447.8	7750.7	0.0	0.7	992
2359.8	2157.5	2675.5	1700.9	0.0	0.9	637
10782.7	10067.7	10491.9	10981.0	0.0	0.8	192
85147.9	89972.3	92271.0	87619.0	0.0	0.7	37
641542.6	613018.5	574214.4	580410.0	0.0	0.9	292
9567.6	9410.5	9766.4	10338.0	0.0	0.8	270
25830.3	28509.9	28551.0	31658.0	0.0	0.9	1392
12262.5	12509.8	12548.0	14187.0	0.0	0.9	419
12874.7	12319.5	13177.4	11316.0	0.0	0.9	1515
12874.7	12319.5	13177.4	11316.0	0.0	0.9	1517
33640.6	30902.3	33944.4	33816.0	0.0	0.8	698
10593.5	10061.3	11940.0	11372.0	0.0	0.9	188
26996.1	25296.9	28153.4	27436.0	0.0	0.8	233
366790.5	372677.3	377680.1	366760.0	0.0	0.3	668
7437.4	7186.7	7326.9	7557.2	0.0	0.6	200
107262.7	108831.1	108670.4	111780.0	0.0	0.6	1031
62317.8	60260.2	64446.7	62042.0	0.0	0.7	763
6074.8	6129.0	5705.9	6259.3	0.0	0.7	550
123423.9	114329.8	117593.6	124750.0	0.0	0.8	685
11797.3	12151.3	12930.6	12211.0	0.0	0.7	95
7546.6	7553.6	5920.1	8211.0	0.0	0.9	158
5367.9	5397.3	4774.0	5836.6	0.0	0.9	388
8255.8	8638.2	9119.1	9367.0	0.0	0.9	247;297



Slc4a4	0.967059	1.22E-83	167.85	NLT(0.001)S(0.004)S(0.028)S(0.96	3	-0.51243	246133.3	188801.0
Fermt2	0.999903	5.88E-15	78.78	AKDQNES(1)LDEEMFYK	3	-1.1341	82461.9	83976.5
Dzank1	0.920428	2.82E-06	48.077	FS(0.064)ES(0.92)PLEIPAY(0.015)F	3	1.7029	9598.6	8328.7
Strn4	0.998318	1.97E-43	133.24	AS(0.998)PGPGGLS(0.002)GGESLL	3	-0.80403	89436.6	88234.7
Acap2	0.985033	0.0132894	68.224	HS(0.015)T(0.985)IQQK	2	1.2643	28491.9	27181.5
Pacs2	0.957893	1.06E-19	66.36	EPPGQPEES(0.958)PEAET(0.03)S(C	3	2.1107	32938.2	29887.6
Arf6	0.726142	2.46E-08	49.266	LGQS(0.016)VT(0.181)T(0.726)IPT	3	-0.92822	11961.4	10394.3
Borcs8	0.713722	8.82E-07	43.823	DHMST(0.001)S(0.001)AQGHS(0.C	4	-0.65965	4258.5	4245.3
Slc23a2	0.903626	0.0082522	50.46	SSDKDS(0.096)QAT(0.904)V	2	0.21009	43358.7	41847.3
Cbarp	1	8.00E-13	105	RGDS(1)VDCPPEGR	2	-0.85359	24696.8	26877.7
Cdh11	0.540963	4.92E-05	49.768	KLADLYGS(0.415)KDT(0.541)FDCC	3	0.78668	14024.7	14680.0
Prune2	0.792121	3.00E-12	64.522	NLS(0.792)LT(0.208)CFVGEEPASPI	3	-0.26349	6923.3	7224.5
Mbp	0.995375	5.07E-10	98.974	YLAT(0.995)AS(0.005)TMDHAR	3	-1.2552	8620.2	8745.5
RGD13071	0.964299	1.75E-29	117.48	VVFENEQDS(0.014)NS(0.964)LT(0	3	-0.50074	28692.3	27851.8
Mast2	0.517435	2.20E-07	44.625	S(0.465)AGS(0.517)IPLS(0.012)PLA	4	0.71362	3974.7	3058.9
Sgip1	0.902735	0.000244572	71.806	S(0.023)T(0.03)PT(0.903)PELT(0.0	2	-0.2764	33083.7	35085.9
Kcnc3	1	1.84E-06	77.367	LAPLAT(1)PPGS(1)PR	2	0.82818	38936.2	41690.4
Polr2a	0.757585	4.90E-14	77.746	YS(0.003)PT(0.109)S(0.758)PT(0.1	2	1.0054	27269.4	27207.9
Ufd1l	0.537261	0.00192973	40.278	AFS(0.537)GS(0.463)GNRLDGK	3	0.40564	5304.1	6005.2
Ltb4r	0.734417	0.000767638	58.814	LLEGT(0.001)GS(0.01)EVS(0.734)S	2	-2.1322	21345.4	22664.5
Mzb1	0.687726	1.59E-53	97.839	SHT(0.007)PDS(0.139)S(0.688)GS(	3	1.1929	20085.9	20643.9
Limk1	0.814514	1.65E-75	98.22	LLQLTLEHDPHDS(0.001)LGHGVPVSI	6	0.58873	21186.8	20155.8
Sptan1	0.899775	0.0271613	43.808	S(0.001)MAT(0.1)S(0.9)RR	2	-1.5641	3838.6	4082.8
Cby1	0.93056	8.10E-07	70.197	S(0.006)AS(0.931)LS(0.048)NLHS((	2	0.36711	21665.0	21272.5
Mug1	0.725598	6.13E-13	62.203	VYHKEES(0.179)S(0.726)CIHS(0.07	4	-0.21372	6410.9	6642.9
Tmem57	0.5	1.57E-10	52.172	LNNDLVGS(0.5)T(0.5)ENLLK	2	-1.6851	4462.4	4374.5
Cox4i1	0.988226	0.00609397	105.1	LLS(0.012)AS(0.988)QK	2	1.1625	52890.6	52953.6
RGD13075	0.999999	3.22E-07	76.759	SDDALPDGLS(1)PK	3	0.62851	21575.6	21593.9
Rltpr	0.922948	2.68E-21	83.666	GS(0.077)PS(0.923)PAAPGPPAGPI	3	-0.24264	27995.8	28892.7
Mtss1l	0.998816	1.17E-16	93.753	TPT(0.001)VPDS(0.999)PGYVGPTR	3	1.0265	33857.8	38963.5
Jup	1	6.76E-15	81.632	ALMGS(1)PQLVAAVVR	3	-0.49922	16845.4	16261.8
Snta1	0.882466	1.96E-09	126.21	QPS(0.882)S(0.118)PGPQPR	2	1.0848	38052.4	37867.7
Dock7	0.96203	5.97E-68	133.58	S(0.002)LS(0.034)NS(0.962)NPDIS	3	-0.34615	56556.9	60290.8
Arhgdia	1	0.0257368	47.603	KQS(1)FVLK	3	0.2868	5021.7	4628.4

197097.2	216340.1	187119.5	235320.0	0.0	0.9	257;257
81731.5	84317.4	81910.5	84592.0	0.0	0.5	587;666
9035.9	8655.8	9958.6	8636.9	0.0	0.9	179
86939.7	86295.1	91496.2	89649.0	0.0	0.6	222
30250.7	28964.1	28477.2	29404.0	0.0	0.8	244
33018.8	32696.3	33495.6	30681.0	0.0	0.8	390
11190.5	10863.8	12771.4	10271.0	0.0	0.9	41
4835.5	4391.6	4526.3	4564.5	0.0	0.8	114
40493.7	39453.4	43344.2	44252.0	0.0	0.8	646
24001.3	26483.7	25034.1	24870.0	0.0	0.8	343
14141.6	13586.7	15355.3	14365.0	0.0	0.8	791
7300.6	6916.9	7712.5	7049.7	0.0	0.8	337
9942.2	8494.9	9599.7	9507.2	0.0	0.9	18;18;18;18
27970.3	28035.8	30506.6	26882.0	0.0	0.8	2755
3365.5	3266.2	3694.7	3550.2	0.0	0.9	1284
34609.4	35122.8	33723.2	35041.0	0.0	0.7	210
39507.8	40517.0	41402.5	39512.0	0.0	0.7	754
28707.0	27316.4	27954.7	28813.0	0.0	0.7	1878
5760.7	5326.8	6543.1	5384.8	0.0	0.9	186
23125.1	20872.8	23100.9	23888.0	0.0	0.8	313
22601.3	19962.1	20136.5	23919.0	0.0	0.9	76
20445.4	20305.3	21745.8	20407.0	0.0	0.7	237
3876.8	4108.9	4068.4	3749.1	0.0	0.8	1735
21841.1	20865.1	22486.4	22131.0	0.0	0.7	20
7911.2	7069.3	7155.9	6968.3	0.0	0.9	428;428
5169.7	4884.8	4223.8	5050.8	0.0	0.9	255
48308.1	49402.5	55465.8	50966.0	0.0	0.8	58
22437.3	22289.6	21190.1	22844.0	0.0	0.7	36;36
28941.2	30881.4	27105.1	28783.0	0.0	0.8	953
38448.5	34603.6	40453.5	37431.0	0.0	0.9	564;575
16903.3	15693.1	17940.4	16925.0	0.0	0.8	182
33582.0	35804.8	38401.7	36496.0	0.0	0.8	194
58371.1	59277.9	60509.8	57354.0	0.0	0.7	900
5337.6	4502.5	5219.6	5430.6	0.0	0.9	101

Tmod2	0.506263	0.0727937	55.37	KFS(0.494)LAAT(0.506)R	2	-0.34009	45267.0	49192.2
Nono	0.999822	6.68E-45	79.867	FGQAATMEGIGAIGGT(1)PPAFNRP	4	-0.58515	85787.0	77583.7
Cep170	0.994712	4.73E-29	153.85	AEEDS(0.04)KS(0.965)IQS(0.995)D	3	0.21669	51851.7	53022.7
Adrbk1	0.999939	1.06E-27	82.302	GEVNAADAFDIGS(1)FDEEDTK	3	-0.36776	55594.4	53299.1
Srrm2	0.820629	0.000102569	50.202	MS(0.001)CFS(0.024)RPS(0.294)M	3	1.0935	54251.4	54541.9
Map4	1	0.00360749	52.247	ELPPS(1)PEKK	3	0.59455	108865.4	107517.4
Tmem179l	0.692651	7.42E-06	52.19	GDPEWS(0.248)S(0.693)ET(0.059)	3	-0.60457	13620.4	15837.3
Arhgef10	0.926282	2.91E-107	124.82	VNPYSVIDIT(0.074)PFQEDQPPS(0.	3	0.23881	32024.6	33253.0
LOC10255	0.987685	5.30E-06	65.374	TLEEV(0.012)QGHS(0.988)LK	3	1.4791	13411.7	12612.3
Rapgef2	0.887641	1.88E-25	70.145	S(0.004)LGS(0.052)LS(0.888)QGS(i	4	0.54853	4762.5	4749.9
Hectd4	0.998213	3.91E-15	101.3	T(0.002)EGT(0.998)PPPPGQPAK	2	0.05533	53123.1	54912.7
Amer2	0.906104	3.25E-07	76.868	S(0.906)GGT(0.094)MPSIFGVK	3	-0.49395	20470.0	18792.3
Jarid2	0.542878	0.00682617	55.531	EVRPS(0.457)PS(0.543)K	3	0.10129	8820.7	9933.7
C2cd5	0.74822	5.17E-06	47.796	S(0.02)QS(0.516)ES(0.568)S(0.748	3	-0.6991	19579.0	18722.1
Herc1	0.564939	0.00085352	63.473	MS(0.565)S(0.435)GAGPGVR	2	-0.32034	16787.0	16588.6
Map1a	1	0.000206835	83.182	QQDKT(1)PEQK	4	0.94909	132590.2	132551.2
Dmnl2	0.922233	2.89E-09	106.67	T(0.064)IS(0.922)VS(0.014)GSTAK	3	0.29303	46768.5	43893.0
Ptrf	0.530283	9.35E-98	187.56	ATEEPS(0.024)GT(0.53)GS(0.446)I	3	0.29268	21809.3	23019.9
Kalrn	0.647378	4.85E-33	75.773	S(0.177)FDLGS(0.013)PKPGDET(0.	3	1.4177	18054.8	17473.9
Srrm1	1	8.89E-08	115.33	T(1)AS(1)PPPPPKR	3	-0.51382	161655.8	170230.2
Zdhhc5	0.683662	8.21E-31	72.726	S(0.684)KGS(0.264)LEIT(0.049)ES(	4	0.71667	21773.6	22891.5
Tnks1bp1	0.739534	1.07E-42	113.7	S(0.034)LS(0.74)S(0.169)GFS(0.05	3	0.11267	32612.6	30979.1
Tesk1	0.849283	0.000162689	65.895	T(0.147)EPS(0.849)PPPS(0.004)AP	2	-0.40204	5114.2	5401.2
Tbc1d4	1	8.23E-05	40.432	ILEDGCFDEQQEFRS(1)R	3	-0.30172	7385.3	7650.9
Ccser2	0.842384	1.38E-33	136.1	S(0.075)S(0.075)S(0.842)GES(0.00	3	0.4507	17823.4	17167.8
Rere	0.865453	1.69E-17	122.34	EKVAS(0.115)DT(0.865)EDT(0.019	4	0.50081	83356.4	87409.9
Serinc1	0.992998	5.13E-42	157.37	S(0.007)DGS(0.993)LDDGEGVHR	2	0.46148	64484.6	70632.5
Rims1	0.961575	3.31E-05	56.339	GRS(0.962)QDY(0.015)S(0.023)DR	4	1.1268	10426.0	9051.9
Hivep2	1	4.95E-05	49.066	QGCAS(1)EPK	2	0.2718	25418.4	30657.7
Birc6	0.999919	1.04E-14	93.598	S(1)LDGLSR	2	0.26826	19048.3	20404.8
Ms4a6a	0.506648	8.76E-08	58.164	S(0.016)S(0.019)IS(0.437)S(0.507)	3	0.2225	7724.6	8320.8
Macf1	0.998505	7.17E-21	115.38	RQGS(0.999)FS(0.001)EDVISHK	3	-0.20542	26989.1	27934.0
LOC69180	1	1.23E-71	168.81	RRS(1)QDEPVQSGMNGIPK	4	-0.47453	302666.3	314299.0
Wbp4	0.944977	0.00136146	40.432	QNPS(0.014)NT(0.041)NEEKPKT(0	3	-0.42081	5319.1	5108.1

43654.6	47003.5	47830.4	44803.0	0.0	0.8	236
77526.2	83515.5	80156.8	79882.0	0.0	0.8	455
49501.6	51787.2	52764.3	51531.0	0.0	0.6	358
54374.5	54995.8	53569.0	56509.0	0.0	0.6	487
44046.4	51544.1	56714.0	46273.0	0.0	0.9	2081
118846.0	111469.9	111000.0	116470.0	0.0	0.8	1744;668
14861.3	14443.6	15834.1	14532.0	0.0	0.8	161
33516.0	32876.7	33051.0	33961.0	0.0	0.6	142
12069.8	13496.5	12311.8	12708.0	0.0	0.8	46
5151.5	4604.1	5370.0	4852.5	0.0	0.8	1090
52111.0	51460.5	55724.4	54743.0	0.0	0.7	2584
18997.5	19571.6	19986.8	19350.0	0.0	0.7	70
9582.9	9900.8	9265.8	9486.3	0.0	0.8	161
19837.5	19530.9	19288.0	19968.0	0.0	0.6	628;653
15973.9	16262.9	16609.9	17027.0	0.0	0.6	1405
138105.4	128937.3	144737.1	134070.0	0.0	0.8	1613
42680.4	43434.1	47926.5	43469.0	0.0	0.8	1383;1401
24141.8	22955.1	24397.1	22389.0	0.0	0.8	40
16761.7	17819.3	16192.1	18863.0	0.0	0.8	1802
165307.0	161672.1	172575.3	168500.0	0.0	0.7	549
26806.6	23860.3	24797.9	23612.0	0.0	0.9	296
33419.1	31844.9	33125.8	33125.0	0.0	0.7	970
4893.9	4825.0	4988.2	5768.6	0.0	0.9	555
8209.8	7592.9	7547.8	8365.6	0.0	0.8	141
17892.4	18551.9	18514.3	16410.0	0.0	0.8	198
81913.6	85263.4	83075.3	87173.0	0.0	0.7	390
65181.6	65705.0	68748.0	68091.0	0.0	0.7	364
9493.4	9016.1	10599.1	9680.9	0.0	0.9	346
27334.7	27496.8	26066.4	30783.0	0.0	0.9	1497
18691.9	19841.1	20166.4	18790.0	0.0	0.8	593
7843.9	8098.9	7774.1	8284.4	0.0	0.7	235
25678.1	27015.0	26383.7	28108.0	0.0	0.7	3883;3825
299004.7	311244.6	308036.6	306990.0	0.0	0.5	26
5179.9	5435.9	5366.3	4980.5	0.0	0.7	285

Tprn	0.94828	2.20E-11	51.034	QRPAS(0.948)PPPFLPAT(0.026)T(C	3	0.61782	3626.1	3684.2
Palm	0.66183	1.35E-08	50.752	ENS(0.001)AAPS(0.014)PIRPHS(0.6	4	-0.46443	11357.6	12276.7
Palm	0.661731	1.35E-08	50.752	ENS(0.001)AAPS(0.014)PIRPHS(0.6	4	-0.46443	11357.6	12276.7
Palm	0.661731	1.35E-08	50.752	ENS(0.001)AAPS(0.014)PIRPHS(0.6	4	-0.46443	11357.6	12276.7
Kank4	0.986044	1.19E-33	83.879	ES(0.986)PVPPS(0.436)S(0.432)T(C	4	-0.083774	58506.9	60200.9
Edc3	0.925234	5.10E-32	90.946	SQDVAIS(1)PQQQQCS(0.075)KS(0	4	-0.79509	18442.4	20282.0
Dennd5a	0.915076	1.33E-08	44.533	VLVGELLT(0.019)S(0.019)LPEVDEF	5	-0.63311	1509.5	1063.4
Arhgap35	0.564194	2.40E-32	103.04	NEEENIY(0.433)S(0.564)VPHDS(0.1	3	1.6758	28335.7	29422.5
Usp21	0.996001	5.03E-09	49.559	ADHGVPLPGS(0.996)PPPT(0.004)\	3	-1.0366	8847.5	9393.0
Rita1	1	0.0157269	59.908	GVS(1)PGPPK	2	-0.95777	26873.5	23540.9
Bsn	0.99866	1.97E-05	53.008	QASAT(0.001)APGRES(0.999)PR	3	1.0618	7423.8	8428.8
Zfp518a	0.713249	1.07E-06	66.215	AAPLS(0.143)CS(0.713)S(0.143)PE	2	2.6996	5956.8	6337.3
Ppp1r16b	0.930492	0.0626245	55.249	RAS(0.93)LS(0.07)DR	2	-0.038164	9291.3	8998.5
Hepacam	0.997628	7.93E-21	105.28	THT(0.002)S(0.998)PPR	2	0.98022	81723.6	90043.5
Mag	0.84412	3.51E-238	220.98	NVT(0.002)ES(0.115)PS(0.844)FS(	3	0.28245	190840.6	212231.1
Gltscr1	0.499999	4.55E-63	112.55	S(0.5)PT(0.5)PPPALHLVPEPTAPPPI	3	-0.18539	15247.2	16504.2
Gltscr1	0.499999	4.55E-63	112.55	S(0.5)PT(0.5)PPPALHLVPEPTAPPPI	3	-0.18539	15247.2	16504.2
Srp72	0.890865	2.82E-76	139.29	T(0.007)VS(0.102)S(0.891)PPTSPR	2	-0.37468	96743.0	95326.3
Zc3h14	0.515645	7.98E-07	41.247	S(0.001)VT(0.003)T(0.007)EPS(0.0	4	2.1765	7271.8	7494.7
Synpo	0.689182	1.63E-70	86.771	SSPGLYNAPVQDS(0.195)LQPT(0.6	4	-0.13392	15475.0	14608.7
LOC10255	0.994381	2.62E-07	50.404	DQQS(0.006)QVRPIS(0.994)PDAFF	3	1.0853	11182.7	10903.2
Fam120b	0.841235	0.000138669	65.295	QKS(0.159)PS(0.841)EIDPK	2	1.4834	69801.6	71829.3
Dclk1	0.518485	1.46E-05	52.569	S(0.02)PS(0.39)PS(0.518)PT(0.519	2	0.6784	6182.5	4734.9
Fbxw9	0.728815	6.46E-22	84.707	RS(0.271)S(0.729)LQSMFASLGM	3	0.61142	9986.3	9089.4
Gab2	1	2.98E-11	101.43	RNT(1)LPAMDNSR	2	0.60886	29256.4	30692.8
Arhgef7	0.693678	0.00597416	70.321	QTLNS(0.296)S(0.694)S(0.011)R	2	2.1732	24975.9	23466.3
Arhgap12	0.999063	1.06E-41	114.1	TSFSQEQS(0.001)CDS(0.999)AGEC	3	0.14221	10823.9	11420.0
Mtus1	1	2.94E-10	47.803	LHNGDLCS(1)PK	2	0.73904	18444.8	20851.3
Atpaf1	0.977614	8.12E-77	114.88	RGS(0.978)GLS(0.016)S(0.006)GG	3	0.86127	17351.1	16059.9
Ctnnb1	0.999704	2.75E-15	96.707	S(1)PQMVSAIVR	2	-0.57348	50892.8	53440.6
Map1a	0.557526	5.72E-15	81.606	SSLLD(0.022)VT(0.558)S(0.408)I	2	0.57752	13676.5	16272.7
Pf1	0.981418	1.25E-17	98.58	FPGLSTLNS(0.004)S(0.015)GS(0.98	3	0.49345	2801.8	3071.3
Dmtn	0.99748	8.48E-18	99.069	DSS(0.001)VPGS(0.997)PS(0.002)P	3	0.34573	78264.8	77129.6
Arhgap42	0.999992	9.01E-14	68.42	IFHTAPDPNIPLPQPS(1)R	3	-0.20523	21182.0	19723.6

3582.4	3766.3	3579.1	3669.9	0.0	0.5	458
11598.2	12135.9	10846.7	12647.0	0.0	0.8	122
11598.2	12135.9	10846.7	12647.0	0.0	0.8	124
11598.2	12135.9	10846.7	12647.0	0.0	0.8	123
59907.4	56539.0	61919.4	62171.0	0.0	0.7	630
17552.8	18705.9	21183.7	17023.0	0.0	0.9	138
1180.7	1059.1	1299.0	1437.8	0.0	0.9	1079
28289.7	27288.9	30705.3	29026.0	0.0	0.8	1106
10220.7	8947.7	10559.3	9276.2	0.0	0.9	93
24448.4	23780.0	28111.7	23818.0	0.0	0.9	56
7866.3	7467.0	8628.0	7892.8	0.0	0.9	105
6547.4	6573.9	6296.6	6184.7	0.0	0.7	511
8423.9	8835.2	9234.9	8946.5	0.0	0.7	350
79743.8	87102.5	84290.4	82972.0	0.0	0.8	369
204475.1	211940.2	205051.4	197450.0	0.0	0.8	547
16356.1	15962.6	15901.4	16790.0	0.0	0.7	868
16356.1	15962.6	15901.4	16790.0	0.0	0.7	870
95412.1	95255.4	99581.6	95914.0	0.0	0.5	557
8057.8	7151.7	7675.7	8256.6	0.0	0.8	85
15971.8	15676.6	14800.7	16103.0	0.0	0.8	642
11779.2	11246.0	11448.4	11557.0	0.0	0.7	62
71203.3	74352.9	69502.5	71412.0	0.0	0.6	412
6049.0	5506.7	6291.5	5362.2	0.0	0.9	27
9503.0	10403.1	9430.2	9072.3	0.0	0.8	51
30576.5	29824.3	30723.5	31015.0	0.0	0.6	348
22515.0	23222.3	24090.4	24459.0	0.0	0.8	652
10433.4	11209.7	11193.0	10650.0	0.0	0.7	199
19463.8	20050.1	20272.2	19113.0	0.0	0.8	1180
16177.2	16185.9	17367.6	16605.0	0.0	0.7	76
50249.0	50093.3	54391.8	51876.0	0.0	0.7	191
14274.7	14046.5	14983.5	15703.0	0.0	0.9	1109
2940.8	2994.5	2834.6	3086.2	0.0	0.8	1669
82318.1	81898.6	81989.6	76563.0	0.0	0.7	26
20692.4	21672.5	20574.6	20062.0	0.0	0.7	533



Flna	1	2.18E-10	54.167	AGNNMLLVGVHGPRT(1)PCEEILVK	5	1.4119	31714.5	31738.1
Limk2	0.975629	0.0015948	88.392	RSNS(0.976)IS(0.024)K	3	0.085839	19672.1	21112.3
Kti12	0.978728	1.18E-07	54.237	DILPS(0.01)NPPAVMT(0.979)PES(C	3	-0.96913	7936.6	8992.8
Marcks	0.860769	3.11E-22	88.565	AEDGAAPS(0.139)PS(0.861)S(0.86	3	-0.17394	48251.0	44149.7
Dctn2	0.99306	1.13E-35	100.28	T(0.007)GYES(0.993)GDYEMLGEG	3	1.6456	69071.6	61767.3
Tusc5	0.993488	1.21E-34	123.36	QPS(0.643)LS(0.361)GS(0.993)PS(i	2	-0.64677	145280.3	142939.0
Alms1	0.965116	0.00034565	79.492	VS(0.012)T(0.012)DS(0.012)GS(0.9	2	0.57824	21458.7	20830.4
Dnajb4	0.708617	0.000152503	66.056	DGS(0.119)NIVY(0.709)T(0.172)AF	2	0.11725	25550.8	26938.0
Cdk1	0.896023	8.17E-06	83.862	IGEGT(0.101)Y(0.896)GVVY(0.003	3	0.62653	30647.1	29661.7
Nckipsd	1	1.34E-06	84.365	RAAPAT(1)PPPPVK	3	-0.25304	141070.1	140635.5
Pwp1	0.716221	0.00639264	49.842	S(0.173)GS(0.716)PQT(0.109)PME	2	-0.71514	4236.0	4426.9
Sntb1	0.931769	1.08E-73	144.73	GS(0.932)GT(0.068)GHPGTGVPQA	3	0.24185	18367.3	19011.7
Map1b	0.795325	1.55E-26	81.884	ASDAEIMS(0.01)S(0.195)QS(0.795	3	-0.90558	8887.3	8990.1
Akap12	0.989202	1.17E-76	113.33	VIETVVISSET(0.011)GES(0.989)PEC'	4	-0.68943	45789.4	45820.3
Psm5	0.999929	2.97E-07	98.942	GVNTFS(1)PEGR	2	2.1454	6254.2	5547.0
Add1	0.990138	1.49E-25	108.96	S(0.009)PGT(0.99)PAGEGS(0.001)(	3	-0.71523	140223.3	151856.9
Arid4a	0.5	0.00423083	49.448	EKHPNS(0.5)S(0.5)PR	3	0.021102	11443.3	12066.1
Arid4a	0.5	0.00423083	49.448	EKHPNS(0.5)S(0.5)PR	3	0.021102	11443.3	12066.1
Specc1l	0.925536	3.10E-15	69.27	HS(0.926)IS(0.074)GPVSTSKPLTAL	4	0.57279	20724.0	21032.2
Dsp	0.983437	0.00519874	72.848	S(0.017)MS(0.983)FQGIR	2	0.44877	32374.1	33226.6
Ank1	0.813228	2.23E-15	83.894	S(0.187)GS(0.813)DPAADAATSFLR	3	-0.22818	15944.9	15501.6
Map1b	1	0.00692309	66.056	KKES(1)VEK	3	-1.1459	47348.2	42098.5
Tbc1d22a	0.739357	5.92E-39	91.276	S(0.001)VS(0.007)ES(0.086)HT(0.7	2	1.5806	2693.8	2086.3
Akap12	0.769895	4.43E-83	117.94	LSADYEKVELPLEDQVGDLEAS(0.77	4	0.12373	60612.0	59762.1
Ulk2	0.797355	2.69E-07	54.281	LQS(0.797)APT(0.197)LT(0.004)DI'	3	3.0659	1711.3	1469.6
Ncoa6	0.989636	2.10E-05	61.165	S(0.001)S(0.001)RPAS(0.99)AS(0.0	3	-0.70043	10210.4	11398.0
Asap2	0.667378	8.49E-06	49.768	NVGKDPLT(0.146)T(0.667)T(0.187	4	-1.3889	14924.0	15195.6
Ube4b	0.712732	1.05E-53	97.469	S(0.713)LS(0.184)DKEPS(0.076)S(C	4	1.2703	19135.3	17966.4
Il16	0.887469	9.49E-24	56.313	NLFSPIMS(0.001)ENHS(0.004)HMI	5	0.32151	6040.9	6207.3
Mgea5	0.999996	1.19E-79	122.53	LENEGS(1)DEDIETDVLVYSPQMALK	3	0.30724	104426.2	104859.6
Emd	0.720855	4.99E-29	121.32	DDIFS(0.15)S(0.721)S(0.129)EEEG	3	-0.8317	33594.2	34904.9
Map1a	0.970024	3.31E-59	97.957	EGEGGAGAPDS(0.001)S(0.002)S(0	3	-2.807	75410.7	76604.1
Zc3h13	0.703578	0.015871	55.503	DS(0.296)S(0.704)FERR	3	0.71623	6160.3	6804.8
Dock7	0.575528	1.58E-29	124.99	S(0.389)PS(0.576)GS(0.036)AFGS(	2	-0.15873	46583.7	45346.5



28249.2	31150.9	30041.7	31570.0	0.0	0.8	2591
17464.4	18725.7	20894.1	19303.0	0.0	0.9	289
8316.2	8533.2	8757.1	8247.8	0.0	0.8	186
42530.3	43992.9	44902.3	47599.0	0.0	0.8	141
64594.0	65785.3	65560.2	66352.0	0.0	0.7	83
133655.2	147614.6	142493.0	136660.0	0.0	0.7	74
21038.4	21896.9	21522.5	20643.0	0.0	0.6	582
25373.6	26467.2	26312.1	25988.0	0.0	0.6	252
32536.5	31203.7	29393.1	33328.0	0.0	0.8	15
138871.9	144237.7	141285.4	139950.0	0.0	0.3	116
4365.8	4325.5	4304.9	4550.0	0.0	0.6	493
19231.7	18075.6	19416.2	19778.0	0.0	0.7	73
9695.7	9517.2	9104.4	9272.5	0.0	0.7	1480;1354
48341.1	46555.8	48494.0	46531.0	0.0	0.6	1397
6399.1	5709.7	7110.2	5592.7	0.0	0.9	16
145887.9	139859.9	152912.3	150310.0	0.0	0.8	358;358
11766.4	10393.1	12308.6	12986.0	0.0	0.9	892
11766.4	10393.1	12308.6	12986.0	0.0	0.9	893
21925.2	19743.2	21362.2	23320.0	0.0	0.8	888
30229.4	31400.5	35693.8	29856.0	0.0	0.9	2216
15619.4	16433.4	15517.8	15665.0	0.0	0.6	10
44975.8	44861.9	46932.7	44200.0	0.0	0.8	2288;2162
2297.8	2109.7	2456.7	2594.3	0.0	0.9	146
59900.0	61250.2	62283.8	58853.0	0.0	0.5	370
1517.3	1521.2	1607.7	1624.4	0.0	0.8	482
10125.2	10701.8	10728.1	10676.0	0.0	0.8	2026
14984.8	14795.6	15980.5	14858.0	0.0	0.7	751
16957.6	18084.4	19932.3	16678.0	0.0	0.9	141
6367.5	6307.7	6490.0	6036.9	0.0	0.7	740
105656.1	103709.7	109664.2	105280.0	0.0	0.5	364
41398.6	38639.4	33125.8	39428.0	0.0	0.9	143
79020.9	76171.1	78655.4	78934.0	0.0	0.5	2135
5771.1	6389.2	7011.8	5556.3	0.0	0.9	678
43997.4	44858.6	46822.6	45853.0	0.0	0.6	1423

Nefh	1	1.02E-08	117.7	S(1)PVKEGAK	2	1.4643	1416306.9	1471730.6
Map4	0.991795	3.92E-05	110.93	TTSAS(0.008)S(0.992)VKR	2	-0.2516	63778.5	57488.2
Ppig	0.98455	0.00661189	43.604	DHKS(0.015)ES(0.985)KER	4	0.23664	26041.0	30192.6
Irf2bp1	1	0.0148942	60.398	S(1)PGPPALK	2	0.12975	9488.6	9166.5
Myo9b	0.99713	5.85E-14	115.83	TAGAALT(0.997)PT(0.003)EERR	3	-0.51889	60403.3	65641.6
Ckap4	1	1.48E-05	70.41	GAHPS(1)GGADDVAK	3	2.8621	21258.3	23225.0
Prr12	0.982559	1.51E-23	68.434	AAGPET(0.002)AGGGAAAGGGGY(	4	-2.2874	9625.0	10329.0
Ep400	0.993825	0.00161303	87.123	ALS(0.994)PVT(0.006)SR	2	0.35737	17514.5	19039.2
Kif21b	0.864481	7.79E-06	97.779	S(0.864)LAS(0.136)LVEIK	2	0.25461	11393.5	8690.7
Pdzd2	0.543631	6.43E-05	41.908	EANS(0.544)S(0.496)PGLGT(0.813	4	-0.71037	12278.6	12082.5
Rab40c	0.998495	1.16E-13	76.761	S(0.001)IRPPQS(0.998)PPQNCSR	3	-0.1392	13885.2	14503.4
Topors	0.996965	0.00314359	58.604	ACS(0.997)PY(0.003)NHR	3	0.55252	15738.6	14983.9
Gramd1b	0.712895	1.27E-36	105.96	S(0.225)PS(0.062)T(0.713)PEQGV(	2	0.75716	2313.8	2903.3
Esyt1	0.9941	0.000500665	49.333	ITAETLY(0.005)MS(0.994)HR	3	1.3668	2264.2	2148.4
Cald1	0.996192	1.89E-08	113.61	QTENAFS(0.996)PS(0.004)R	2	0.10862	30539.8	27484.3
Hars2	1	0.00204764	64.313	DLS(1)PQQMVVR	2	-0.44809	39842.7	40649.5
Rab12	0.641426	2.72E-39	90.694	S(0.001)ELS(0.017)NS(0.341)ILS(0.	4	0.83681	23717.6	23064.8
Filip1	0.55295	1.75E-20	72.359	S(0.3)IGEDVY(0.553)EKPI(0.147)E	4	0.16726	8745.4	7146.2
Ufl1	0.967868	5.72E-33	111.57	GRKDEDS(0.968)DDES(0.02)QS(0.0	5	0.50047	51140.9	53853.0
Ppfibp1	0.987554	2.16E-64	115.34	ALEYSNGIFDCQS(0.988)PT(0.01)S(	3	-0.50705	15931.8	14333.4
Cdc42bpa	0.875549	0.0002019	65.043	DYDGEDS(0.876)DS(0.124)PR	2	0.10736	2463.8	2253.4
Akap8	0.776678	3.27E-101	114.11	AVEGDGEPAAEHSDVLAEVEGPVDT	4	0.87178	14394.4	14938.9
Map2	0.999637	2.39E-13	63.998	KDEWGLAAPIS(1)PGPLTPMR	4	-0.70285	75484.7	72682.7
Vamp4	0.765946	1.54E-15	85.937	HLNDDVT(0.234)GS(0.766)VK	2	-0.90142	32229.8	31454.0
Dmtn	0.861068	3.35E-13	65.438	T(0.139)RS(0.861)LPDR	2	0.22336	21585.1	22644.7
Aebp2	0.997972	2.82E-33	135.81	RGS(0.998)LEMS(0.002)SDGEPLSR	3	-0.70996	31255.4	30724.6
Map7d1	0.996516	0.00486826	42.78	S(0.997)RGPT(0.922)PT(0.079)AT(	3	0.028416	5958.7	6216.2
Arvcf	0.747713	3.98E-16	73.688	TLGSDS(0.001)IGDS(0.251)S(0.748	3	-0.096127	19348.8	19456.0
Fam21c	0.499981	6.48E-12	64.407	LAAQES(0.5)S(0.5)EAEDVTIDR	3	1.0747	15439.2	14718.4
Nek1	0.704154	2.83E-14	65.808	EVGLDGS(0.002)LT(0.036)ES(0.70	3	-0.16777	33327.0	32621.2
Map1a	0.500811	1.08E-111	150.94	TEATQGLDY(0.022)VPS(0.296)AGT	5	0.95881	29918.4	29345.8
Zbtb44	0.965898	1.57E-23	98.175	DGS(0.03)IS(0.966)PVS(0.004)SEC	3	-0.37194	10486.6	11026.2
RGD13115	0.994846	2.63E-21	104.21	DLPSFLVPS(0.005)LPS(0.995)PQK	3	1.3229	10503.1	9898.9
Chd3	0.769165	1.64E-12	57.154	DRHS(0.769)PPS(0.231)CHLFPPPP	6	0.26148	25182.2	25242.2

1367745.6	1526414.1	1449401.7	1330300.0	0.0	0.8	760;730
54790.7	53006.0	69601.8	55535.0	0.0	0.9	1918;842
22771.6	25743.5	30927.6	23271.0	0.0	0.9	431
9873.1	8852.5	9795.5	10219.0	0.0	0.8	66
63979.7	62699.9	62850.2	66733.0	0.0	0.7	1319
19996.1	21800.1	21559.9	21886.0	0.0	0.8	156
10070.0	10741.9	9732.0	9907.2	0.0	0.8	383
17862.6	18844.5	18014.1	18205.0	0.0	0.7	662
12695.9	10845.4	10319.5	12006.0	0.0	0.9	1163
13380.4	12038.0	14117.9	12036.0	0.0	0.9	791
13227.1	14025.6	13703.2	14384.0	0.0	0.7	268
14814.5	14805.5	16420.8	14855.0	0.0	0.8	585
2599.6	2938.1	2211.0	2761.1	0.0	0.9	50
1768.9	2019.0	1928.8	2307.7	0.0	0.9	115
32168.2	30242.3	30164.6	30866.0	0.0	0.8	281;249
39308.7	39256.5	41955.0	40027.0	0.0	0.6	68
21949.7	23087.1	22715.1	23755.0	0.0	0.7	222
9465.5	8133.2	8397.9	9130.6	0.0	0.9	143
49078.9	50327.6	51483.0	54114.0	0.0	0.7	393
16336.9	16193.6	15437.6	15531.0	0.0	0.8	37
2052.2	2445.9	2150.9	2254.1	0.0	0.9	1691
16483.9	15451.1	14463.0	16454.0	0.0	0.8	539
72233.8	71678.9	76784.2	74591.0	0.0	0.6	367;281
30828.8	32532.4	33176.0	29943.0	0.0	0.7	17
20802.0	22298.4	22030.1	21488.0	0.0	0.7	269
28209.8	29884.8	31896.9	29497.0	0.0	0.8	198
5640.2	5859.5	6363.6	5807.2	0.0	0.8	95
22635.4	20438.4	21032.0	20712.0	0.0	0.8	851
15086.0	15296.0	15138.4	15356.0	0.0	0.5	1041
30266.7	36237.1	31537.8	29604.0	0.0	0.9	646
31664.6	31617.2	30376.2	30036.0	0.0	0.7	1130
10087.7	10422.9	10459.2	11101.0	0.0	0.7	161
10635.3	10706.9	10480.6	10226.0	0.0	0.7	906
26395.7	24462.0	26799.5	26491.0	0.0	0.7	119

Ahnak2	0.829531	1.25E-21	75.529	LS(0.17)LKDT(0.83)QEQLHDAEIQG	3	-2.4725	8924.7	9396.2
Larp1	0.999605	5.77E-32	132.79	ETES(1)APGS(1)PR	2	-0.39757	232632.1	225141.8
Unc45a	0.519965	1.03E-06	44.726	T(0.048)VS(0.439)GPGT(0.875)PEF	4	0.55889	8071.8	8394.8
Unc45a	0.87499	1.03E-06	44.726	T(0.048)VS(0.439)GPGT(0.875)PEF	4	0.55889	8071.8	8394.8
Klc1	1	2.37E-30	85.387	EFGS(1)VDDENKPIWMHAEERECK	5	-0.35469	23958.5	23003.4
Zfp36	0.97142	0.00347179	78.61	S(0.003)T(0.025)S(0.971)LVEGR	2	-0.49378	17360.6	17121.7
Nek9	0.798948	1.45E-09	60.635	ALT(0.2)S(0.799)PACACS(0.001)AL	3	-1.5364	7580.2	6602.1
Otud7b	0.998376	1.43E-19	69.98	QVHAGNLS(0.998)PPFS(0.001)GG	3	0.36816	26023.1	25709.5
Iqgap2	0.654983	1.68E-05	69.03	KQS(0.345)DDILT(0.655)VLK	3	0.20066	7621.6	7944.1
Tnrc18	0.995087	3.14E-30	83.934	LGAGEQALS(0.995)PS(0.005)LEES	3	0.89864	3545.6	3517.0
Trip12	0.986953	2.27E-06	128.08	SPTT(0.004)T(0.009)QS(0.987)PK	2	0.15803	78371.0	72990.9
Rufy3	0.920262	4.85E-51	110.03	DGNS(0.013)S(0.064)KGS(0.92)EG	4	-0.12492	10903.6	10505.3
Coro1b	0.602854	4.08E-07	65.265	NVLS(0.396)DS(0.603)KPAGYS(0.0	3	-0.99971	14557.8	14140.3
Slc15a2	0.876159	6.81E-70	119.99	NES(0.056)KET(0.075)LFS(0.876)P	4	-0.47579	61232.2	64301.1
LOC10090	0.901588	4.87E-49	117.64	RDS(0.054)S(0.902)ES(0.044)QLAS	3	0.64779	36348.1	35057.4
Pacsin1	0.682934	3.56E-107	127.47	KAEGAALS(0.002)GAVES(0.04	4	-0.22418	20192.1	18657.4
Esam	0.622882	6.76E-07	42.885	TDGPPPQAVS(0.007)LT(0.009)PG	3	-0.57047	19209.3	20770.1
Nf1	0.996154	5.22E-19	70.699	GS(0.996)EGY(0.001)LAAT(0.002)	3	-0.36079	8810.4	9020.5
Tardbp	0.999223	8.06E-08	68.576	LPNS(0.001)KQS(0.999)PDEPLR	3	-0.13172	20973.3	21036.6
Rims1	0.97258	1.61E-27	80.316	LQTHDES(0.005)S(0.023)LPLPQPSI	3	0.54293	13960.3	12342.5
Pde1b	0.999995	1.59E-09	59.55	QPS(1)LDVDVGDPNPDVVSFR	3	-0.79375	10615.6	10017.4
Kif1a	0.997873	9.08E-28	175.64	SGT(0.002)S(0.998)QEELR	1	0.55207	99809.4	102309.2
Gpi	1	0.00220996	55.353	GKS(1)PEEARK	4	0.21623	60573.8	57672.5
Arhgef11	0.59091	5.63E-15	81.854	QPS(0.375)DT(0.591)S(0.034)ETT	3	0.45783	36239.6	40890.8
N4bp1	0.999838	0.000106079	83.204	ART(1)PVSELTK	3	-0.75454	50542.2	47064.2
Adcy9	0.992789	0.00064825	49.988	AS(0.004)LGS(0.993)DDGAQT(0.0	2	-1.5464	8607.4	7687.2
Cacna1b	0.564299	2.25E-15	60.527	T(0.029)ANS(0.406)S(0.564)PVHF	3	3.3967	7194.8	8310.4
Cacna1b	0.638026	2.25E-15	60.527	T(0.029)ANS(0.406)S(0.564)PVHF	3	3.3967	7194.8	8310.4
Pex13	0.821271	1.81E-06	68.044	QQQS(0.821)FT(0.178)NPTSVK	3	-0.37334	22980.5	23177.8
Tcea3	0.997499	1.55E-05	49.528	GLGS(0.001)S(0.001)GWKPEAGLS	3	1.8445	18343.4	19463.7
Xpa	0.561718	9.20E-33	94.295	RT(0.562)S(0.438)PEPAAAEKPAELI	4	-0.39953	48934.4	49058.4
Gap43	0.84184	2.14E-99	122.35	EGDGSATTDAAPAT(0.157)S(0.842	4	0.63388	46502.6	46799.9
MAST1	0.748085	4.28E-53	108.44	S(0.126)S(0.126)S(0.748)GEAGTPF	4	-0.064907	31343.6	31243.4
Macf1	1	0.000565806	42.314	LQS(1)QLQENEEFQK	3	2.5245	8244.3	10369.6

11125.5	11033.7	8821.3	9948.8	0.0	0.9	438;438
220604.5	227196.7	229929.4	229490.0	0.0	0.5	386
9159.5	9080.2	8632.1	8225.4	0.0	0.8	14
9159.5	9080.2	8632.1	8225.4	0.0	0.8	8
22255.3	23353.2	24432.4	22273.0	0.0	0.7	418;418;418
16583.9	16781.0	17766.2	17140.0	0.0	0.6	59
7500.7	5739.7	8431.9	7775.2	0.0	0.9	884
27054.7	25202.3	28770.0	25774.0	0.0	0.8	53
8042.6	8006.1	7703.2	8186.5	0.0	0.6	559
3820.8	3574.8	3533.6	3907.7	0.0	0.8	1790
74857.1	75713.5	77296.1	75970.0	0.0	0.6	1069
10164.9	11046.9	10596.2	10316.0	0.0	0.7	251;301
14915.6	13262.2	15493.2	15391.0	0.0	0.8	415
61899.3	63172.9	63848.3	62703.0	0.0	0.5	26
36827.0	36446.1	36876.8	36233.0	0.0	0.5	67
20489.0	19844.4	20202.7	20017.0	0.0	0.7	343
20774.4	21521.8	19481.4	20494.0	0.0	0.8	370
8793.7	8878.1	8753.6	9318.9	0.0	0.6	2481
19778.9	19438.5	22660.6	20447.0	0.0	0.8	183
12522.3	12674.8	13190.3	13436.0	0.0	0.8	895
9178.7	8830.3	10643.4	10704.0	0.0	0.9	446
98310.1	104475.3	100378.8	99265.0	0.0	0.6	937
53742.1	56045.1	62892.9	55163.0	0.0	0.8	441
38491.1	37863.9	38896.5	40282.0	0.0	0.8	37;76
50778.1	48866.8	51847.4	49495.0	0.0	0.7	242
7702.0	7759.1	8393.2	8139.5	0.0	0.8	1296
7536.8	6716.1	8281.8	8327.7	0.0	0.9	2224;2223
7536.8	6716.1	8281.8	8327.7	0.0	0.9	2233;2232
20669.0	21838.6	23623.4	22188.0	0.0	0.8	354
20928.7	18724.6	18212.9	22523.0	0.0	0.9	114
51781.0	49738.0	51545.0	50339.0	0.0	0.6	9
47862.0	48234.3	50342.7	44330.0	0.0	0.8	96
34941.5	33875.5	32803.1	32055.0	0.0	0.8	1427
9795.3	9192.9	9756.5	9811.1	0.0	0.9	4792;4734

Hectd1	1	1.30E-12	102.9	TNATNNMNL(1)R	3	-0.32712	6802.7	6168.0
Camk2b	0.999997	3.87E-112	159.43	RGS(1)GAPEAEGLSCSPVPISPLP/	5	0.1099	114988.6	113223.5
Lats2	0.796002	0.000687883	52.071	QIQT(0.204)S(0.796)PVPVRK	3	0.88947	9110.5	9320.9
Nefm	1	4.70E-147	208.37	GVVTNGLDVS(1)PAEEKKGEDR	4	1.3099	1088737.5	1103167.2
Cops5	0.999871	3.21E-07	77.42	GS(1)FMLGLETHDR	3	-0.47466	11262.5	11092.0
Rab11fip5	0.940249	6.96E-10	83.929	T(0.94)S(0.054)LS(0.003)T(0.003)/	2	2.1672	7010.3	7835.9
Phka1	0.770308	1.24E-33	81.532	S(0.002)VRPT(0.003)DS(0.009)NV/	4	0.47824	7850.3	6723.5
Map1a	0.686746	2.64E-17	78.95	GEKELS(0.687)S(0.313)EPR	3	0.52947	83136.9	84737.8
Sh2b1	0.971653	1.19E-06	76.759	ALANDGT(0.028)S(0.972)PGER	2	-0.91267	20826.6	21848.3
Zfand2b	0.888796	6.48E-38	145.88	AQGLASTS(0.001)T(0.008)VPS(0.8	2	0.14417	46073.2	42718.3
Adgrl2	1	0.00322962	61.344	S(1)MPNLGAGR	2	-1.1592	24014.6	23362.1
Wwp1	0.796773	0.00701875	104.2	VT(0.082)VS(0.122)S(0.797)AK	2	0.57103	26613.4	31599.9
Ehmt2	0.988876	2.26E-19	62.398	GDGGT(0.989)PPVGT(0.011)VAPA	3	-0.34469	6636.4	7968.8
Ahnak	0.801525	1.92E-15	62.193	VPDVDIS(0.198)S(0.802)PGVNVEA	3	0.37054	64379.6	64633.5
Ahnak	0.70654	3.43E-09	97.223	LSS(0.01)S(0.023)S(0.001)S(0.012)	2	-0.22881	20175.4	18827.4
Apba1	0.880964	1.88E-55	136.64	S(0.001)DGES(0.118)DS(0.881)PE/	3	-0.94999	47281.4	46378.7
Ddx20	0.681035	2.96E-22	85.937	AAMHT(0.001)YS(0.003)S(0.008)P	3	0.038275	17910.5	19902.4
Lbr	0.668118	0.000712979	58.658	KS(0.008)GS(0.668)T(0.162)S(0.04	3	-0.095194	12737.8	14213.8
Wipf3	0.975268	9.33E-06	62.287	APS(0.025)VS(0.975)PPVPPTK	3	0.4342	22944.8	22786.2
Rps6ka2	0.924221	3.13E-33	92.792	GFS(0.924)FVAS(0.071)S(0.005)LV	5	-0.14714	73291.3	69606.9
Slc6a15	0.934891	4.79E-18	74.141	CNLIDDS(0.001)S(0.008)GNLAS(0.!	3	1.599	8217.8	8700.5
Fam102b	0.753303	0.000234766	72.887	S(0.069)S(0.022)S(0.155)FS(0.753)	2	-0.65268	6987.6	8803.5
Rps6	0.616378	2.87E-23	102.87	AS(0.274)T(0.616)S(0.169)KS(0.91	2	0.38363	84036.2	86024.4
Gphn	0.996319	5.23E-05	95.477	CS(0.004)S(0.996)KENILR	2	-0.60438	27671.4	29426.9
Add1	0.838454	1.48E-25	69.059	YSDVEVPAS(0.006)VT(0.007)GHS(i	5	0.14066	9158.5	9504.7
Pitpnm1	0.937477	7.41E-20	66.925	T(0.062)AGT(0.937)PDGPEAPPGPI	5	0.74421	34363.5	36932.0
Nsfl1c	0.999887	1.25E-23	103.88	S(1)PGETSKRPFAGGGYR	3	0.35907	224438.4	225416.0
Prune2	0.999067	8.43E-18	81.642	T(0.999)PT(0.001)ENLDK	2	0.1743	55683.8	53099.5
Zdhhc8	0.99351	0.000236033	48.391	EPS(0.994)PVRY(0.005)DNLS(0.00	2	0.55854	30178.4	29975.4
Parg	0.999688	3.79E-12	66.448	LTGQESGLGDS(1)PPFEK	3	-2.9215	10142.2	9341.9
Sept7	0.999993	3.99E-24	93.371	IYFPET(1)DDEEENKLVK	4	0.25181	42671.7	43305.1
Bbx	0.971614	7.76E-13	75.017	QKS(0.972)PLFQFAEIS(0.011)S(0.0	3	-0.42797	11174.8	9372.7
Yeats2	0.967038	8.35E-40	116.61	IVS(0.03)GS(0.967)PIS(0.003)TPSP	3	-0.98006	1628.1	2322.2
Flrt3	1	0.000500905	66.004	KDNS(1)ILEIR	3	-0.93614	5743.6	5381.4

6614.0	6037.2	7471.0	6318.6	0.0	0.9	1449
109892.3	115594.8	115541.8	111150.0	0.0	0.5	423;408;399
8624.3	9750.9	8765.7	8873.9	0.0	0.8	534
1136931.2	1120089.0	1121648.6	1128300.0	0.0	0.4	766
11064.8	12100.7	10389.5	11344.0	0.0	0.8	267
7869.5	7078.2	7996.1	7923.7	0.0	0.8	1108;541
6757.2	7012.4	7806.0	6777.8	0.0	0.9	927
78737.7	84299.8	88960.3	76420.0	0.0	0.8	737
22247.8	21416.2	23043.2	21271.0	0.0	0.7	253
41627.5	43887.3	45469.7	42687.0	0.0	0.7	163
25828.2	24410.3	24322.3	25385.0	0.0	0.7	1370
30029.3	27797.1	30108.0	31439.0	0.0	0.8	26
7837.6	7169.6	7518.8	8035.0	0.0	0.9	551
68703.5	67826.8	64118.6	68244.0	0.0	0.7	4821
21132.1	19122.8	19313.6	22451.0	0.0	0.9	5551
44417.9	47069.5	47458.5	45279.0	0.0	0.6	251
18820.7	21936.5	17461.6	17945.0	0.0	0.9	471
12622.4	12497.7	14371.1	13201.0	0.0	0.8	67
22391.6	22680.1	23081.6	23215.0	0.0	0.3	208
65820.4	70577.8	68798.2	71961.0	0.0	0.7	361
8691.2	8710.9	8644.0	8576.2	0.0	0.5	654
8713.7	7311.3	7865.1	9636.1	0.0	0.9	230
64011.6	82417.8	83240.9	71355.0	0.0	0.9	241
26319.0	27930.2	28822.4	27714.0	0.0	0.7	295
10183.4	10160.4	9827.1	9221.9	0.0	0.8	431;431
37036.8	35221.8	37168.5	37306.0	0.0	0.7	287
199130.6	207100.4	247391.1	202670.0	0.0	0.9	140
61370.2	57624.7	59135.5	55539.0	0.0	0.8	1754
28781.5	29582.3	31598.7	28877.0	0.0	0.7	534
10964.7	10075.2	10276.1	10482.0	0.0	0.8	180
42143.9	41018.6	44733.4	43988.0	0.0	0.7	227
10176.0	10506.2	10932.2	9673.8	0.0	0.8	243
1906.2	1839.5	1925.7	2165.5	0.0	0.9	464
6638.1	5228.1	6490.6	6269.3	0.0	0.9	585



Epb41l1	0.80816	5.40E-08	59.502	GACS(0.808)T(0.192)PELPQFESVK	3	0.88363	9848.9	11424.4
Lphn3	0.705644	2.20E-08	41.081	DS(0.025)LY(0.001)T(0.248)S(0.70	4	-0.86709	6683.5	6827.4
Hnrnpc	0.804641	3.54E-09	69.331	QADLS(0.805)FS(0.181)S(0.014)PV	3	0.45679	25275.3	26578.2
Asap1	0.542473	6.48E-06	63.682	KT(0.004)ET(0.078)S(0.376)HHLS(I	4	0.087844	12203.5	12296.4
Fubp1	0.915781	1.24E-25	73.675	QQAAYYAQT(0.084)S(0.916)PQGM	3	-0.36185	20537.9	19452.7
Utrn	0.999939	2.17E-07	58.123	EKEYS(1)VLNAVDQAR	3	0.051269	18047.6	18552.1
Pstpip1	0.863177	1.35E-32	93.776	EVT(0.001)PLT(0.136)GS(0.863)PIV	4	-0.13636	10486.3	10713.0
Mast3	0.867664	0.000570022	50.806	S(0.066)S(0.066)ES(0.868)VVDEDC	2	0.25516	5866.4	4931.1
Dennd4c	0.844457	7.11E-39	110.33	RS(0.155)S(0.844)LPS(0.001)AQDS	2	0.4252	86948.7	83274.5
Tnks1bp1	1	3.23E-16	93.226	NMAPGAGCS(1)PGEPR	3	-0.14839	32352.6	29809.8
Slain2	0.999476	0.000116572	54.198	NS(0.001)PRPS(0.999)PK	3	0.28204	51864.9	48235.7
Map4	0.768258	1.50E-11	66.122	NT(0.184)T(0.768)PT(0.047)GAT(C	2	-0.45072	26899.7	28513.2
Myh10	0.918958	1.26E-05	74.733	RGGPISFS(0.007)S(0.074)S(0.919)I	2	0.16018	41177.3	43327.0
Dennd4c	0.658302	6.96E-31	73.771	S(0.171)S(0.171)S(0.658)MELHGEI	4	-0.76129	14877.5	15642.0
Iqsec2	0.99249	2.45E-15	60.382	AQNPAY(0.008)FEGKPAS(0.992)LL	3	1.1067	19577.8	18512.6
LOC10091	0.834324	1.99E-09	72.662	AQDS(0.161)S(0.834)PQQS(0.005)	3	-0.029101	20970.9	20249.0
Nr3c1	0.869402	1.84E-19	76.574	SSTSATGCAT(0.13)PT(0.869)EKEFF	3	0.89796	26546.7	23906.2
Arid1a	0.783226	7.19E-32	90.062	S(0.216)NS(0.783)VGIQDAFPDGS(	3	3.0878	34544.8	28913.6
Dda1	0.971353	8.98E-05	76.068	T(0.027)DS(0.971)PDMPEDT(0.00	2	-0.25271	49526.0	50512.9
Faf1	0.89118	0.00442417	73.9	RT(0.891)S(0.108)PVQT(0.001)R	3	-0.020335	20659.6	22348.5
Cnksr2	0.993854	5.61E-71	174.35	GSES(0.994)PNS(0.006)FLDQEYR	2	-0.48969	141583.0	139209.5
Gbp2	0.956844	0.00180886	53.08	EES(0.957)Y(0.043)QEHVR	3	1.0355	3005.7	3144.7
Fryl	0.999688	5.18E-16	90.561	AYGVDVGS(1)PEISFAK	4	-0.85127	47961.2	48140.3
Atat1	0.999041	8.28E-54	98.151	SSS(0.001)LGNS(0.999)PDRGPLRP	4	-1.2945	6085.3	10384.2
Epb41l1	0.999797	1.47E-09	95.236	RLPSSPAS(1)PS(1)PK	3	-0.30025	44634.8	44937.3
Map1a	0.802765	4.31E-152	181.63	TEATQGLDYVPSAGT(0.176)IS(0.80	4	-1.4003	72518.5	68890.6
Rims2	0.876105	1.25E-21	90.442	T(0.041)GS(0.156)VQT(0.843)S(0.8	3	-0.009215	18394.7	19517.4
Fam83h	0.999943	2.82E-07	54.964	EGPEETGLIKQDS(1)FR	3	-1.3274	12384.8	11412.3
Mtfr1l	0.544609	9.29E-05	50.088	AS(0.545)S(0.455)FADMMGILK	3	0.75195	4525.5	3906.7
Fryl	0.997082	0.00108131	108.43	T(0.002)RS(0.997)LS(0.001)SLR	2	0.67325	50354.9	52949.2
Mpzl1	0.917175	5.89E-08	100.02	DYTGCS(0.007)T(0.076)S(0.917)EF	3	0.55644	13652.6	15923.9
Map1b	0.505589	2.27E-05	45.992	T(0.506)IKS(0.39)PCDS(0.075)GY(C	4	1.0441	18660.7	17371.8
Hectd1	0.867758	7.37E-12	47.989	TNVQQT(0.006)T(0.016)DLEIPPPG	4	2.0504	6352.0	5832.6
Ppfia3	0.999962	2.78E-13	63.979	MTQALALQAGS(1)LEDGAPPR	3	-0.80049	3289.6	3217.5

10904.1	10339.7	11213.3	11032.0	0.0	0.8	1356;1348
6580.8	7229.7	7061.3	6055.4	0.0	0.8	1371
25804.8	26822.5	25753.2	26067.0	0.0	0.5	229
10723.1	12230.5	11864.1	11575.0	0.0	0.8	925
20385.8	21568.0	19092.4	20482.0	0.0	0.8	625
18089.3	17803.9	19359.6	18220.0	0.0	0.7	2602
10507.7	10263.4	11088.2	10758.0	0.0	0.6	298
5422.0	5178.3	5541.0	5706.2	0.0	0.8	137
89153.1	83234.0	89780.0	89658.0	0.0	0.7	1235
31927.5	30745.0	33086.3	31455.0	0.0	0.7	1275
58734.2	52303.1	54501.9	54051.0	0.0	0.8	354
28814.5	29944.2	28170.5	27186.0	0.0	0.7	1924;848
41901.1	39163.0	43936.2	44917.0	0.0	0.8	1960
16242.2	16487.3	15500.7	15370.0	0.0	0.7	1209
19915.2	19565.0	18946.0	20235.0	0.0	0.7	412;207
21750.6	20828.8	21122.8	21823.0	0.0	0.6	336
23580.8	24393.8	25254.2	25333.0	0.0	0.8	172
32431.1	31079.4	31063.3	34975.0	0.0	0.9	1180
51988.6	51319.7	53223.8	49435.0	0.0	0.6	95
20025.9	21690.1	21387.8	20767.0	0.0	0.7	268
139265.8	142752.8	145175.3	137540.0	0.0	0.5	390
3625.1	3534.3	3023.9	3343.2	0.0	0.9	523
46359.8	46768.1	48389.3	49139.0	0.0	0.5	2287
7704.3	5916.0	11552.0	7017.2	0.0	1.0	276
40463.8	44973.0	43737.5	43002.0	0.0	0.7	546;538
69477.5	74530.0	70453.6	68622.0	0.0	0.7	1132
20307.0	17813.8	22496.0	18660.0	0.0	0.9	914
13225.0	12236.0	12044.7	13219.0	0.0	0.8	660
3885.2	4563.0	4202.9	3710.6	0.0	0.9	234
50421.4	50013.0	53321.1	52377.0	0.0	0.6	1993
14446.1	14365.5	15117.0	15109.0	0.0	0.8	206
18603.6	18155.9	18939.6	18247.0	0.0	0.7	1905;1779
6839.6	6242.4	6314.1	6713.7	0.0	0.8	1682
3415.8	2877.9	3557.9	3615.4	0.0	0.9	735

Sash1	0.996319	4.20E-13	64.522	ASPASPVSPS(0.004)DCPS(0.996)PI	3	0.48317	13334.2	13097.2
Mctp2	0.999527	0.000385116	61.11	TRPLLINLS(1)K	3	-0.21362	2308.0	2472.9
Scn7a	0.989432	2.37E-46	140.28	TVSTEATDQT(0.989)CDPS(0.01)VK	3	-0.27539	21029.3	23073.6
Herc1	0.9994	3.90E-104	193.31	RQS(0.999)LT(0.001)SPDSQSTR	2	0.322	16822.7	17099.8
Slc24a2	0.985622	2.18E-09	72.075	GGs(0.002)S(0.013)AS(0.986)LHN	3	0.0079437	12570.8	12753.8
Bag3	0.765244	4.40E-42	80.355	VSSAPIPCPS(0.001)PGPAPS(0.001)	3	-1.8826	142811.4	151571.7
RGD15611	0.629084	0.032263	51.264	S(0.629)S(0.091)GQLS(0.28)GR	2	1.2008	15154.2	15206.5
RGD13065	1	2.03E-12	96.773	RDES(1)DEEPPRVER	3	-0.25833	52939.5	58511.6
Cald1	0.984112	0.000523178	69.314	GS(0.016)S(0.984)LKIEER	2	-0.66618	63449.4	73810.3
Hm13	0.908017	1.52E-68	131.33	LTHFPT(0.002)VS(0.089)GS(0.908)	3	-0.90928	15715.9	15537.8
Sash1	0.998564	2.50E-08	113.69	S(0.001)NS(0.999)EDGCVGK	2	0.37285	130753.5	127845.4
Wnk1	0.999604	4.45E-14	92.264	DRPVS(1)QPSLVGSK	3	1.1824	57819.9	61079.5
Rps6kc1	0.507777	1.41E-07	43.732	LGQVEGAVT(0.059)S(0.05)QDLQE	4	-0.49254	4542.4	4314.8
Srrm1	0.996855	0.00186337	67.234	RLS(0.997)PS(0.003)ASPPR	3	0.33221	16354.0	17150.3
Arfgef1	0.5	1.56E-51	110.77	QQHLLQS(0.5)PVS(0.5)HHEPESP	6	-0.0481	6844.5	6780.1
Abl2	0.792158	0.000780123	49.188	DKS(0.792)PS(0.048)S(0.16)LLEDA	2	-1.0878	10407.1	11247.8
Sh3bp5l	0.999965	6.19E-124	127.41	ETPQGELRPEVVEDEVPRS(1)PVEEE	4	-0.93311	46594.4	46150.5
Hivep2	0.501894	3.74E-18	74.776	S(0.075)PS(0.423)LGS(0.502)EDLP	3	-0.02237	7654.4	8027.4
Dpf2	1	5.35E-30	119.04	VDDDS(1)LGEFPVTNSR	3	0.41972	121891.8	121472.3
Bod11l	0.675475	1.30E-21	84.276	KLS(0.053)S(0.134)QPS(0.675)T(0.	4	0.27181	94330.2	87912.2
Ei24	1	0.00645782	85.764	RAQS(1)VERK	3	-0.60994	31210.0	30254.0
LOC69188	0.934472	1.42E-08	130.99	EQS(0.934)S(0.066)DDFCR	2	0.30613	79885.7	79286.1
Ankrd12	0.947525	0.0001366	128.03	S(0.046)S(0.007)S(0.948)VEDVK	2	0.020429	37627.8	33073.1
Nfic	0.634864	7.08E-12	65.038	NWT(0.635)EDMEGGIS(0.298)S(0.	4	-0.52938	33317.5	33584.2
Ccdc43	0.999996	0.00173804	72.34	DS(1)LRDESQR	2	0.5665	4328.9	4056.9
Ank2	0.774998	3.33E-24	93.776	AS(0.008)S(0.031)S(0.149)S(0.775	3	-0.10518	17553.9	19662.2
LOC10091	0.999997	1.39E-21	128.06	GDSSYDRLS(1)DAPR	2	-0.27044	19596.9	19949.6
Cpeb3	0.999174	5.38E-30	124.62	RS(0.999)PASPSQAPYAQR	3	-0.80192	54665.3	57206.3
Lrrfip1	0.98538	7.23E-13	68.705	RGS(0.985)GDT(0.014)S(0.001)ISM	3	0.74031	46497.8	46657.3
Fxr2	0.988529	7.99E-33	98.533	TKPSEDSLS(0.002)GQKGDs(0.989)	4	-0.35237	50160.5	48979.4
Bcap31	1	1.46E-16	100.93	LDVGS(1)PEMK	3	0.14976	143050.0	145966.5
Glcci1	1	8.44E-15	78.078	VPCNVEGIS(1)PELEK	2	-0.26394	60879.1	58131.0
Erg	0.900505	0.000363233	75.764	NS(0.901)PDECS(0.095)VT(0.004)H	2	2.0661	30286.9	28526.4
Abhd17b	1	0.00895151	46.069	QFVS(1)QELVNL	2	1.4309	3072.6	3289.0

11228.8	11728.9	12898.5	13521.0	0.0	0.9	1025
1885.7	2503.8	2194.1	2055.1	0.0	0.9	24
21787.9	21775.9	21719.1	23252.0	0.0	0.7	779
17157.8	17552.1	17163.5	17029.0	0.0	0.3	2718
11622.7	12295.3	12540.5	12592.0	0.0	0.7	337
146281.8	147856.6	151832.9	146710.0	0.0	0.6	388
16542.4	15195.9	17251.1	15067.0	0.0	0.8	432
54103.0	55012.3	54650.4	58048.0	0.0	0.7	206
69694.7	64027.6	71691.0	73933.0	0.0	0.8	414;382
14699.5	14966.1	14916.1	16670.0	0.0	0.8	368
135049.8	128057.3	136733.0	133990.0	0.0	0.6	134
61074.3	60883.9	59121.7	62318.0	0.0	0.6	165
4650.1	4654.7	4471.8	4557.3	0.0	0.6	626
15374.5	15819.6	17897.6	15800.0	0.0	0.8	304
7083.0	7021.8	7321.4	6635.1	0.0	0.7	237
12362.6	11750.9	11798.9	10913.0	0.0	0.8	616
50005.2	45977.2	48713.1	49930.0	0.0	0.7	30
7504.7	7997.6	8214.7	7278.3	0.0	0.8	772
131738.8	123701.5	127361.0	128960.0	0.0	0.7	142
90428.6	92797.0	93715.8	89735.0	0.0	0.6	241
27120.7	28727.6	33461.4	27558.0	0.0	0.9	56
71685.5	79208.1	78058.0	76622.0	0.0	0.7	421
36737.6	34434.2	38867.6	35549.0	0.0	0.8	1276
30677.7	32339.9	32908.9	33614.0	0.0	0.7	314
4764.1	4258.1	4729.1	4335.9	0.0	0.8	181
18433.2	18852.2	18730.1	18800.0	0.0	0.7	2654
21116.1	19684.9	20376.9	21400.0	0.0	0.7	578
55935.2	55148.7	59567.3	55302.0	0.0	0.7	257
46878.3	46195.0	46946.6	48738.0	0.0	0.5	296
42613.4	49061.5	50014.7	44547.0	0.0	0.8	647
139233.9	141476.8	144982.9	147440.0	0.0	0.5	172
61457.5	60031.4	61650.1	61171.0	0.0	0.5	186
29949.4	31061.8	26809.1	32065.0	0.0	0.8	81
4172.8	3314.4	3762.9	3596.3	0.0	0.9	282

Irs2	0.918701	7.44E-08	55.755	S(0.001)DDY(0.003)MPMS(0.919)I	3	0.47796	16666.5	18121.0
Tbc1d22b	0.653289	3.13E-05	118.61	S(0.173)S(0.173)S(0.653)DAQLSR	2	-0.45022	13028.8	12266.8
Ldha	0.813316	2.14E-17	97.129	IVS(0.185)S(0.813)KDYS(0.001)VT,	4	1.4521	47079.8	52575.1
Rbm34	0.548139	2.82E-15	50.464	RQS(0.452)S(0.548)EDDVGNAATD	4	0.49037	2059.9	2298.8
Clasp2	0.50183	2.31E-06	42.314	S(0.456)T(0.502)GALY(0.035)APD\	3	1.9028	14659.2	15479.7
Cep120	1	8.65E-32	88.504	AS(1)PPPPPPAPPCSEIQVEPR	4	0.52382	32099.8	31112.9
Nfic	0.95958	9.35E-06	56.817	S(0.001)PFNS(0.022)PS(0.017)PQ[	2	-2.0957	12438.5	11760.0
Chd8	0.628475	7.48E-22	107.18	T(0.159)AS(0.628)PS(0.212)PLRPD	3	0.37387	46865.1	44264.9
Ahnak	1	6.26E-11	52.642	ADLDVS(1)GPKVDIEVPDVNIEGPEC	4	-0.28088	13591.8	11978.3
Madd	0.891795	0.000675266	80.245	EKPAS(0.108)S(0.892)PVR	2	0.076228	72662.8	74630.8
Dtna	0.707	0.0358963	43.477	S(0.01)LS(0.707)CAS(0.084)S(0.19	2	-0.85929	19128.2	17289.6
Ulk2	0.87837	9.91E-07	71.354	T(0.005)PLPT(0.049)IIGS(0.878)PT	2	-0.58721	12498.1	10731.9
Sec22b	0.993898	9.79E-19	69.98	GEALS(0.005)ALDS(0.994)KANNLS	3	-0.94176	23567.3	20255.6
Nek9	0.761949	1.36E-16	91.622	S(0.762)S(0.138)T(0.081)VT(0.019	2	1.3939	19041.1	18424.9
Six4	0.999948	1.70E-12	53.231	EVAGGAAAGLS(1)PPAPAPFPLEPGI	4	4.2944	4374.7	3635.8
Gja1	0.847136	7.51E-48	88.395	MGQAGS(0.014)T(0.059)IS(0.847)	4	-0.39967	28036.3	26297.4
Ltbp2	0.980273	7.79E-22	83.723	VRGEVDPVPEDNS(0.98)VET(0.02)I	3	-0.02019	20566.6	22270.7
Hdac5	0.552495	0.00132745	108.47	T(0.552)AS(0.448)EPNLK	2	0.36014	67698.9	73792.8
Tpd52	0.852008	6.94E-20	101.3	ASAAFS(0.148)S(0.852)VGSVITK	3	-1.8623	26036.2	26520.1
Lmna	0.999595	3.18E-22	89.663	SVGGSGGGS(1)FGDNLVTR	3	0.21598	21734.2	19458.2
Pkd2	0.838005	1.19E-12	62.707	RGS(0.838)IS(0.08)S(0.08)GVS(0.0	3	1.3536	11025.1	10202.1
Cdk16	0.782803	2.84E-05	85.813	VS(0.217)LS(0.783)EIGFGK	3	0.036872	2552.8	2517.3
Adrb2	1	1.04E-10	66.289	FHAQNLS(1)QVEQDGR	3	0.45085	13312.7	16498.7
Zfp318	0.937681	6.06E-08	60.062	EKPRS(0.938)PLS(0.062)EPDDFLK	3	0.17869	10472.6	8874.4
Dmwd	0.997004	7.34E-06	93.839	Y(0.002)HS(0.997)LGNIS(0.001)R	2	-1.9361	104420.3	105278.6
Ktn1	0.739885	1.92E-12	60.621	AAGDTVVIENNDIS(0.74)PEMGS(0.	3	0.51928	12542.2	12593.7
Pard3	0.5302	1.99E-07	72.286	S(0.156)S(0.53)LS(0.243)AS(0.071	2	-0.43691	14554.3	13350.6
Nt5c2	0.554974	0.0323089	42.068	NRT(0.555)S(0.445)VDFK	3	-0.29596	23269.2	21712.3
Kcna2	0.896958	9.11E-05	86.262	S(0.023)RS(0.897)AS(0.056)T(0.01	3	-0.2454	23318.1	19250.9
Mecp2	0.988392	0.00842893	80.231	S(0.023)KES(0.988)S(0.988)PK	3	0.57643	135190.2	145549.6
Map1a	0.996898	1.12E-52	123.61	S(0.997)PFEIIS(0.003)PPASPPEMT	3	1.3947	18989.8	18546.6
Sgip1	0.861326	8.40E-99	119.94	LPPGKPGVGDVS(0.011)RPF(0.86:	5	-0.47354	40392.5	39140.1
Nek1	0.556874	1.54E-06	47.058	DLNLVQS(0.557)AHRS(0.443)PEEA	4	-0.18206	11534.9	11421.1
Prkcd	0.859333	5.79E-95	176.67	AS(0.141)T(0.859)FCGTPDYIAPEILI	3	0.064042	18745.3	17193.0

18329.9	16959.2	18940.6	17920.0	0.0	0.8	676
12637.3	12506.5	12361.0	13567.0	0.0	0.7	132
51040.0	50455.2	56469.3	45765.0	0.0	0.9	80
2542.0	2170.9	2379.1	2442.1	0.0	0.9	20
14837.9	15367.5	13538.6	16667.0	0.0	0.8	567;777
32725.0	30910.0	33866.4	32436.0	0.0	0.7	631
11883.5	12807.9	11560.6	12193.0	0.0	0.7	343
44986.4	47921.9	44485.5	45518.0	0.0	0.7	2003
13595.5	12071.0	13593.2	14022.0	0.0	0.8	1851
70683.7	74862.2	76664.5	69349.0	0.0	0.7	1225
14900.7	16503.8	18543.1	16954.0	0.0	0.9	328
10883.8	10966.7	12030.8	11570.0	0.0	0.8	554
19360.5	22594.3	21228.6	20201.0	0.0	0.9	168
17489.9	18597.0	18245.0	18845.0	0.0	0.6	330
4459.6	3958.9	4029.5	4647.7	0.0	0.9	36
27332.6	26507.9	28318.0	27928.0	0.0	0.7	328
22927.1	21739.6	22680.9	22221.0	0.0	0.7	513
68320.2	75708.0	71090.5	65812.0	0.0	0.8	248;226;216
26963.1	27323.0	26721.4	26536.0	0.0	0.4	155
22262.7	21195.1	22493.9	20613.0	0.0	0.8	637
9867.5	11272.4	10499.6	9737.8	0.0	0.8	827
2482.7	2219.3	2603.9	2830.6	0.0	0.9	155
14270.5	15437.9	14987.7	14245.0	0.0	0.9	246
10558.2	9771.8	9842.7	10690.0	0.0	0.8	2123
105303.7	98454.1	112036.6	108720.0	0.0	0.7	537
13568.9	13198.4	11872.6	14151.0	0.0	0.8	1231
12903.5	14233.5	14327.3	12793.0	0.0	0.8	221;221
24140.8	21439.3	22847.6	25760.0	0.0	0.8	478
17252.5	19959.9	21621.9	19040.0	0.0	0.9	449
144525.1	142378.8	143508.2	145070.0	0.0	0.6	350
18336.3	18823.6	19165.1	18632.0	0.0	0.4	1995
36633.3	38076.2	39983.3	39662.0	0.0	0.7	513
11159.6	12186.5	11575.6	10811.0	0.0	0.7	946
16721.3	18478.2	18106.0	16782.0	0.0	0.8	505



Zfp521	0.964174	9.37E-12	62.203	ALS(0.034)PLS(0.964)PVAIEQT(0.0	3	1.2964	2507.4	2131.3
Garem	0.997599	0.00141905	55.467	DELTA(0.002)QS(0.998)FHR	3	-0.15821	12715.2	11966.2
Rbm6	0.773276	2.76E-157	174.46	EGETQSGTFEHESQSDQNS(0.227)	5	0.58231	24727.8	25770.9
Cnm4	0.948176	0.000305503	86.344	S(0.02)AS(0.029)LS(0.948)Y(0.003	2	-0.67466	50114.0	46816.3
LOC10091	0.945375	2.04E-22	87.99	GVQQPS(0.055)S(0.945)PQQPVAC	3	0.18932	8217.8	7866.6
Cgn	0.773972	1.46E-30	88.627	S(0.215)QS(0.774)QAS(0.011)LTGI	3	0.84668	3857.7	4215.1
Bod111	0.82888	0.00139616	92.866	AQLS(0.829)PS(0.171)VK	2	-0.36057	19761.5	20683.4
Src	0.939265	0.000204411	50.088	GAY(0.939)CLS(0.058)VS(0.003)DF	3	0.87844	12793.9	14054.8
Map1b	0.938298	7.26E-47	106.86	DYNASAS(0.001)T(0.007)IS(0.085)	3	1.0675	117266.6	118982.4
Rab8b	0.870389	1.24E-12	69.361	KMNS(0.075)NS(0.87)S(0.055)G/	3	-0.57915	35910.4	39227.9
Fam208a	0.999997	2.94E-41	111.66	LIPITGGNAGS(1)PEDQH GK	3	-1.0969	47696.4	45147.9
Cdh1	0.999702	2.36E-10	55.022	DNVYYYDEEGGGEEDQDFDLS(1)QL	3	-0.84326	15855.5	15515.9
Sntb1	0.696591	5.71E-29	78.098	GS(0.001)GT(0.002)GHPGT(0.697)	3	0.51204	30768.7	31471.6
Synpo	0.736369	5.13E-36	110.6	AAS(0.01)PAKPS(0.254)S(0.736)LC	3	0.81201	18591.5	19789.4
Fam63a	0.73499	0.000152967	69.815	T(0.256)RAPS(0.735)S(0.009)PGR	3	0.21726	6074.7	6060.7
Rbm15b	0.999926	9.31E-06	120.54	TTHS(1)PYEER	3	0.46014	19450.2	20207.4
Arhgap39	0.912708	5.25E-05	57.794	KPS(0.001)S(0.001)DS(0.002)QPS(	3	-0.12411	7985.6	6038.4
Ablim1	1	4.45E-11	139.15	QSLGES(1)PR	2	-0.30112	101711.7	104385.7
Irs1	0.990831	1.31E-42	85.937	S(0.991)PGEY(0.005)VNIEFGS(0.00	3	-1.6998	16852.6	15534.5
LOC10091	0.761651	2.67E-12	47.524	T(0.007)PS(0.008)PPEEAS(0.571)P	4	1.022	6261.2	6526.6
Cbl	0.739932	8.47E-43	132.73	IKPS(0.057)S(0.202)S(0.74)ANAIYS	3	-0.019389	8660.5	7750.6
Wdr44	0.946954	9.89E-73	157.49	S(0.048)NS(0.947)GRELT(0.005)DE	3	1.556	119542.3	121472.3
Inpp5f	0.861208	3.12E-07	63.682	KS(0.139)S(0.861)KPHEDIIGIR	4	0.316	15036.1	13947.3
Lsg1	0.995327	5.19E-09	96.371	AS(0.995)PENS(0.003)QMS(0.002)	2	0.63987	37675.6	42269.6
Rps6ka1	0.980377	3.06E-26	78.428	T(0.02)PRDS(0.98)PGIPPSAGAHQL	3	0.21331	40027.5	40080.2
LOC10369	0.65591	5.90E-23	65.801	SPFLPDLKPGLS(0.071)S(0.243)LHP	4	-0.48267	8281.3	8113.9
Dennd4c	0.687102	4.32E-31	75.539	S(0.058)S(0.058)S(0.197)MELHGEI	3	-0.13944	6838.2	7491.3
Trip12	1	0.0145662	57.032	RGS(1)GLGK	3	0.12711	15135.1	12474.1
Ppm1h	0.588909	1.23E-08	95.264	VGT(0.001)IT(0.062)S(0.589)T(0.3	3	0.25295	17301.0	19952.9
Ccny	0.997682	5.28E-16	128.73	RS(0.998)AS(0.002)ADNLILPR	3	-0.32477	22045.5	24144.2
Fam189b	0.849401	0.00389205	52.788	SLT(0.001)S(0.004)RPS(0.849)T(0.	2	0.25122	45543.7	44398.7
Igfbp5	0.999993	6.93E-70	117.21	IERDS(1)REHEEPTTSEMAEETYS PK	5	1.5701	42316.3	37420.2
Prrc2b	0.929398	2.55E-06	46.504	S(0.929)PDEALPGGLGS(0.058)HS(I	3	0.61766	26822.2	28063.5
Ncor2	1	2.93E-13	111.79	EGT(1)PPPPPPPR	3	0.13121	48524.2	47234.2



2503.4	2348.6	2640.4	2248.9	0.0	0.9	388
11377.8	11921.4	12443.3	12179.0	0.0	0.7	299
24629.4	24512.6	25050.1	26575.0	0.0	0.7	362
47158.3	48217.8	50653.7	47154.0	0.0	0.7	664
7487.2	8141.1	7390.2	8357.2	0.0	0.8	513
3804.7	3997.0	3999.1	4041.2	0.0	0.7	132
23111.2	22104.8	20774.4	21533.0	0.0	0.8	3007
13788.2	14072.9	13442.5	13669.0	0.0	0.7	187
128651.3	122370.5	123182.6	124270.0	0.0	0.7	1204;1078
41083.5	38517.3	39405.2	39868.0	0.0	0.8	182
45668.9	44996.1	47204.1	48183.0	0.0	0.6	918
14964.6	15329.0	15553.0	16080.0	0.0	0.6	774
32145.8	31320.3	31378.6	32963.0	0.0	0.6	80
21437.6	20091.9	22452.2	18084.0	0.0	0.9	602
5587.7	6038.8	6095.8	5828.4	0.0	0.7	440
19575.6	19249.3	19891.7	20894.0	0.0	0.6	606
6639.1	6445.4	7031.1	7466.4	0.0	0.9	301
109871.1	104883.4	106651.7	108720.0	0.0	0.6	453;354
16629.7	17520.2	16599.2	15563.0	0.0	0.8	891
7061.6	6185.4	6688.4	7245.2	0.0	0.8	257
8162.9	7719.8	8932.8	8255.4	0.0	0.8	668
116610.2	118003.7	125116.8	119370.0	0.0	0.6	346;346
14302.4	14351.2	14955.7	14568.0	0.0	0.6	752
37876.8	49395.9	35653.2	34377.0	0.0	0.9	348
39635.6	43363.7	40513.4	37498.0	0.0	0.8	347
8587.9	8829.3	7550.7	8943.8	0.0	0.8	353
7814.2	8240.6	7124.5	7081.1	0.0	0.8	1222
13502.9	13565.8	14400.0	13709.0	0.0	0.8	340
16661.6	17687.4	17922.2	19045.0	0.0	0.8	112
24219.5	23401.6	22850.8	25122.0	0.0	0.8	324
43420.4	45498.7	44219.4	45474.0	0.0	0.5	17
48835.1	41785.3	42196.5	46354.0	0.0	0.9	115
26470.2	25878.8	29805.5	26788.0	0.0	0.8	1490
51691.6	49263.9	50514.8	49695.0	0.0	0.6	1351

Rbm15	0.574574	6.12E-88	140.78	S(0.575)RS(0.419)PLDKDT(0.006)Y	4	2.2918	17011.2	17074.6
Cep170b	0.828189	1.08E-19	68.445	S(0.828)PS(0.172)LGNVPNTPASTIS	2	-0.76411	28474.0	28891.6
Thoc2	0.980117	0.0032197	65.467	EKT(0.98)PAT(0.298)T(0.722)PEAF	3	0.054172	11528.7	13757.5
Thoc2	0.721992	0.0032197	65.467	EKT(0.98)PAT(0.298)T(0.722)PEAF	3	0.054172	11528.7	13757.5
Wasl	0.881025	1.23E-07	67.902	VEQNS(0.001)RPVS(0.881)CS(0.11	2	2.961	19043.5	20902.8
LOC10255	0.699008	1.63E-13	75.215	S(0.007)QS(0.147)S(0.699)AT(0.14	3	-0.63776	5847.5	6029.7
Hepacam	0.99635	2.99E-08	72.23	APS(0.004)S(0.996)PGR	2	1.3701	100582.2	108043.9
Slc12a4	0.646376	0.00735575	103.87	VS(0.646)S(0.354)LLGK	2	1.5448	7978.7	7519.9
Uppt	0.827001	3.43E-09	97.223	QVNS(0.002)T(0.018)S(0.144)S(0.8	2	-0.44879	3380.1	3149.0
Purg	0.998746	3.39E-46	103.02	HS(0.006)APS(0.994)PPVS(1)VGS(I	4	-0.27178	397257.7	453563.3
Mme	0.984794	5.54E-65	148.2	GRS(0.985)ES(0.015)QMDITDINAF	4	-1.242	98267.2	103135.2
Hnrnpul2	0.965925	0.000844805	49.298	S(0.966)RGQGY(0.034)VGGQR	3	0.69755	11854.0	12915.1
Sipa1l2	0.788627	0.000565495	42.317	NEFWFS(0.789)DGS(0.197)LS(0.01	3	-0.26112	5441.5	6395.9
Ppig	0.962183	7.22E-06	63.682	SNEHDHS(0.038)KS(0.962)KEK	5	0.85098	20670.3	21178.1
Arpp21	0.804507	4.70E-05	95.094	QS(0.019)S(0.805)S(0.17)ET(0.006	2	0.3027	11195.4	11504.4
Gorasp2	0.98871	1.12E-25	100.02	ADTSSLT(0.006)VDVMS(0.989)PAS	3	0.39611	53446.4	50062.1
Limch1	0.856534	4.74E-39	118.37	TSVPES(0.007)S(0.005)VAAGT(0.8	2	-0.53604	40121.7	42588.8
Gap43	0.499988	1.13E-63	114.63	QADVPAAVTDAAAT(0.5)T(0.5)PAF	4	0.50683	57116.2	57728.4
LOC10036	1	1.66E-06	90.412	S(1)VDIPEVQNVK	2	1.1299	27490.1	26232.7
Gabpa	0.997776	0.00124056	60.161	S(0.002)PRIS(0.998)GEDR	2	0.20347	37543.2	34835.8
Tln1	0.847679	2.49E-33	94.281	VVAPT(0.001)IS(0.151)S(0.848)PV	3	0.089082	6003.5	6746.4
Map6	0.960374	2.90E-42	92.463	GQS(0.04)PT(0.96)APGPPK	3	0.4432	180619.4	189678.5
Macf1	0.84063	3.32E-05	41.475	LNS(0.138)QES(0.841)DGES(0.014	3	-0.7705	11181.6	12403.9
Ice1	0.656461	3.17E-10	89.301	LRLDNES(0.344)PEPDT(0.656)R	3	-0.23911	20399.6	23161.4
Trpm8	0.996001	0.000937401	107.55	TLYS(0.003)S(0.996)VS(0.001)R	2	0.65914	18634.4	18536.8
Trappc12	0.576257	2.81E-09	70.197	S(0.576)PS(0.402)FS(0.02)S(0.001	2	0.60581	14593.6	11648.1
Ip6k1	0.674927	0.000186195	56.569	S(0.675)GS(0.05)GS(0.275)DHKEE	3	0.24221	10903.7	9704.8
Ahnak2	0.626968	7.72E-20	74.665	GDLKT(0.627)PDVS(0.372)IQLPS(0	3	-0.23581	9766.4	10570.5
Hcn2	0.917293	1.83E-10	48.943	RAPPGLPPAAS(0.065)PGPPAAS(C	3	-0.23172	31764.6	28255.4
Hcn2	0.507423	5.85E-11	56.476	RAPPGLPPAAS(0.065)PGPPAAS(C	3	-0.23172	31764.6	28255.4
Bhlhe41	0.981185	4.87E-22	73.294	S(0.005)LKS(0.013)PVQADLDAFHS	4	0.16301	13120.7	14654.8
Tom1l2	1	2.18E-75	164.18	GIEFPMADLDALS(1)PIHT(1)PQR	3	-0.56491	664286.7	669326.5
Caskin1	0.973605	9.19E-17	94.922	T(0.974)LS(0.023)GPVTGLLAT(0.00	2	0.60988	25017.6	25492.3
Mdm4	0.987987	0.000114446	76.326	T(0.012)IS(0.988)APVVRPK	3	1.0936	11514.0	11375.0

16894.8	15875.7	17609.1	18196.0	0.0	0.8	256
30576.5	29458.0	29948.7	29744.0	0.0	0.6	1340
10580.5	13019.1	11217.6	12123.0	0.0	0.9	1285
10580.5	13019.1	11217.6	12123.0	0.0	0.9	1289
20155.8	20966.3	20100.1	19862.0	0.0	0.7	426
6333.2	6627.4	5728.9	6104.6	0.0	0.8	38
95906.1	108625.4	102629.4	97467.0	0.0	0.8	376
8507.4	8188.5	8494.9	7653.3	0.0	0.8	49
3606.7	3355.2	3758.7	3161.5	0.0	0.8	23
420203.5	400836.3	440666.0	447050.0	0.0	0.8	167
104552.1	98105.4	100358.5	111710.0	0.0	0.8	4
11060.6	11496.8	12598.2	12229.0	0.0	0.8	653
5918.7	5979.6	6064.8	5956.8	0.0	0.8	1549
19326.4	20699.0	20926.2	20395.0	0.0	0.6	534
11305.4	11188.8	10626.8	12660.0	0.0	0.8	347
53267.2	50592.6	53865.0	54489.0	0.0	0.7	418
41397.5	40445.5	43383.7	41999.0	0.0	0.6	362;353
63843.4	56828.3	62656.7	61682.0	0.0	0.8	171
25620.6	26765.3	25823.8	27856.0	0.0	0.7	200
30278.4	35161.3	36077.4	32845.0	0.0	0.8	238
7103.9	6600.6	7135.8	6393.7	0.0	0.8	729
197001.4	189226.1	204688.1	181290.0	0.0	0.8	683
12692.7	11910.4	12482.8	12391.0	0.0	0.8	3078;3020
20146.2	22591.0	21376.1	20631.0	0.0	0.8	1809
18838.8	19199.8	18612.6	18981.0	0.0	0.2	27
12819.4	13276.5	12615.3	13716.0	0.0	0.9	232
9856.5	10212.5	11557.4	9122.5	0.0	0.9	125
10188.5	9780.4	10857.4	10316.0	0.0	0.7	2390
31350.5	31186.1	32394.9	29072.0	0.0	0.8	750
31350.5	31186.1	32394.9	29072.0	0.0	0.8	757
12651.1	14015.7	12364.2	14615.0	0.0	0.8	133
646663.5	664199.7	690258.5	653660.0	0.0	0.5	160;160
23381.7	24788.7	24983.8	25158.0	0.0	0.6	995
11307.6	11057.9	12446.5	11173.0	0.0	0.7	318

Trim24	0.738874	3.68E-13	67.11	SEWPDAS(0.261)QKS(0.739)PVHV	3	-1.5702	24250.8	25961.8
LOC68570	0.541713	3.32E-43	91.617	VAPGPSSGSTPGQAPGS(0.017)S(0.	3	-0.1282	42331.8	43521.2
Scn7a	0.933596	0.00162942	42.958	QGGG(0.934)NIFIT(0.066)VK	3	0.1404	5033.9	6150.9
Add2	0.874902	9.82E-84	132.53	DKTESVTSGPLS(0.003)PEGS(0.875	4	0.40844	127855.2	132880.3
Ptges3	0.998454	0.00157435	52.527	KGES(0.002)GQS(0.998)WPR	3	0.014453	10737.3	10715.0
Map1b	0.792369	2.22E-07	80.834	KES(0.208)KEEAPEAT(0.792)K	4	0.603	64535.9	66597.0
Ssfa2	0.999895	0.000498091	59.67	S(1)RGPSGSKPR	3	0.072027	14010.4	12254.7
Crif2	1	0.00207206	51.727	GS(1)FPGLFEK	3	0.45296	8306.7	8537.7
Itsn1	0.561113	8.22E-39	119.8	S(0.011)T(0.011)S(0.417)IDT(0.56:	2	-0.8154	71192.2	70737.8
Nr3c2	0.520201	1.60E-14	69.03	DAEYTY(0.001)DQQNQGS(0.52)I	3	1.4031	13359.2	11288.4
Xrcc4	0.499996	5.89E-12	132.86	LGS(0.5)S(0.5)PPQTLK	2	0.93174	37988.0	35062.9
Xrcc4	0.499996	5.89E-12	132.86	LGS(0.5)S(0.5)PPQTLK	2	0.93174	37988.0	35062.9
Kcnb2	0.65745	5.85E-20	72.399	S(0.055)T(0.055)S(0.229)S(0.657)I	3	0.21623	5570.3	6585.0
Prkra	0.990689	1.35E-54	131.33	AEAPPLQREDS(0.991)GT(0.008)FS	3	-1.0109	495987.7	501103.6
Mast2	0.997959	7.81E-05	78.964	LLS(0.002)GDS(0.998)IEKR	3	0.03057	10225.9	10474.1
Ralgps2	1	6.11E-39	102.98	S(0.043)AAS(0.957)REDLAGPDVG/	4	-0.76508	57678.0	62658.0
Iqsec2	0.60379	3.36E-15	77.776	ALS(0.014)DS(0.231)Y(0.028)ELS(C	3	-0.3739	6930.2	6621.2
Npm1	0.538185	4.64E-07	51.495	DELHIVEAEAMNY(0.462)EGS(0.53	4	0.69078	5391.3	4942.1
Ccdc66	0.904134	2.12E-08	111.94	AAATS(0.01)T(0.086)AS(0.904)PK	2	0.48723	10737.0	10129.1
Nek1	0.790766	3.23E-08	45.042	IPGT(0.001)VDQS(0.027)CKDHIEP,	4	0.011783	10807.6	10041.2
LOC10036	0.927959	0.00265385	81.525	S(0.928)LES(0.072)INSR	2	1.7639	4411.7	4607.0
Zfp609	0.98783	1.11E-05	64.565	LVEPHS(0.996)PS(0.988)PS(0.011)	3	1.1167	11831.4	12931.5
Snx19	0.978565	3.90E-33	79.512	S(0.004)EPQS(0.979)PT(0.018)EEL	5	1.539	16645.0	16680.8
Homer3	0.992176	5.53E-35	72.553	EKS(0.992)QDGGELT(0.005)S(0.00	5	1.5515	8331.7	8310.2
Lyst	0.557981	2.19E-10	49.707	LGETLQGTLCGAGPS(0.215)CGLPS(	3	0.79526	6259.7	6825.7
Tjp1	0.824016	9.89E-07	70.889	S(0.249)VAS(0.854)S(0.824)QPAKI	3	-1.4939	50538.6	50597.4
Hnrnpa2b:	0.996558	7.12E-60	99.325	GFGDGYNGY(0.003)GGPGGGNF(	3	-1.0381	36801.3	35206.6
Vamp1	0.999905	1.37E-22	64.397	DQKLS(1)ELDDRADALQAGASVFES:	4	3.1826	8511.3	9937.7
Snap91	0.58675	6.09E-33	71.688	GASPVPESSLTADLLS(0.064)VDAFA	3	0.20422	3044.7	2182.0
Ptpdc1	0.956402	0.000319474	73.36	RHS(0.956)T(0.022)S(0.022)DPVLF	2	0.39643	21712.7	20767.9
Rreb1	0.998276	1.35E-16	68.657	AEQLS(0.998)PHPPPCPT(0.001)LS(	4	0.76054	10454.2	9749.3
Nhs	0.980639	1.09E-79	103.99	GQSIAAS(0.001)LS(0.018)HS(0.98:	4	-0.39316	23178.5	23516.8
Git2	0.680498	4.29E-15	54.53	QNS(0.68)T(0.294)PES(0.021)DY(C	3	1.0622	3572.2	3279.6
Cyfp1	0.540039	3.83E-05	50.305	S(0.001)GDGES(0.54)T(0.459)PVEI	3	0.23639	3242.7	4224.9

27382.6	25178.1	24872.7	28636.0	0.0	0.8	334
42943.4	42644.3	43879.6	44088.0	0.0	0.3	1648
6059.9	5871.5	6069.7	5546.9	0.0	0.8	1169
138286.3	125648.4	120382.7	158620.0	0.0	0.9	696
9257.1	11951.1	9303.1	9888.6	0.0	0.9	85
63682.6	64286.0	65216.1	68067.0	0.0	0.6	569;443
11687.6	12347.0	13130.4	13012.0	0.0	0.8	1126
9380.0	8295.0	9184.2	9116.0	0.0	0.8	278
73896.8	71241.1	76052.2	71588.0	0.0	0.6	978
13907.4	12116.1	13990.7	12994.0	0.0	0.9	127
38304.8	37984.9	35619.0	39332.0	0.0	0.7	292
38304.8	37984.9	35619.0	39332.0	0.0	0.7	293
5908.4	5953.6	6950.8	5415.7	0.0	0.9	602
441379.3	485753.2	506996.7	466150.0	0.0	0.8	18
10088.0	9754.6	11082.9	10388.0	0.0	0.7	980
59182.4	60786.0	60856.1	60428.0	0.0	0.6	308
6650.5	6768.5	7185.5	6535.2	0.0	0.7	326;121
5088.8	4871.7	5391.4	5378.6	0.0	0.8	70
10123.4	10358.3	10590.5	10482.0	0.0	0.5	560
9534.9	9770.2	10976.0	10071.0	0.0	0.8	915
4202.0	4516.1	3766.2	5127.3	0.0	0.9	10
13326.1	12376.7	13289.7	12967.0	0.0	0.7	578
15584.2	17674.2	16982.9	14953.0	0.0	0.8	597
8326.0	7623.1	9265.7	8436.6	0.0	0.8	120
6609.5	7254.0	6923.0	5799.9	0.0	0.9	669
50255.4	49333.2	49999.7	54227.0	0.0	0.7	325
40440.4	38098.2	36586.1	39375.0	0.0	0.8	259
7975.3	8605.2	9376.0	8821.9	0.0	0.9	63
3331.2	2910.3	2352.4	3417.9	0.0	0.9	594
21470.6	20617.6	21533.2	22718.0	0.0	0.7	55
10322.6	10583.9	10093.1	10287.0	0.0	0.6	889
23609.5	24046.2	24711.3	22557.0	0.0	0.6	302
4085.4	2901.9	4022.5	4169.9	0.0	0.9	571
4091.5	3649.9	3981.7	4093.7	0.0	0.9	1233

LOC65295	0.945919	8.50E-13	66.467	TLES(0.054)GS(0.946)GVGDGGDS(	2	1.0265	6761.5	6346.1
Clip1	0.97443	5.14E-33	71.445	AAS(0.974)PLS(0.02)T(0.006)AAA1	4	0.065663	55613.5	53877.2
Abl2	0.730408	5.94E-23	67.072	T(0.029)GGS(0.241)S(0.73)PEVLHF	4	1.4572	11001.2	12576.1
Purg	0.994043	7.61E-40	92.258	HS(0.006)APS(0.994)PPVS(1)VGS(i	4	-0.27178	404533.0	463600.1
Dpf2	0.776167	6.68E-12	64.249	EGLISQDGS(0.224)S(0.776)LEALLR	3	-0.56613	4281.0	4959.6
Arpc5	1	0.0203568	69.598	AGS(1)IVLK	2	0.5845	18424.5	17514.4
Rabgef1	0.966773	0.00162754	86.882	APS(0.967)PS(0.033)INR	2	-0.18117	16894.3	17371.8
Caprin2	0.991933	1.05E-17	69.779	QQJSMAPVS(0.008)QWKPE(0.99:	4	-0.66158	30754.4	31321.3
Ankib1	1	2.39E-42	155.43	GVAPADS(1)PDAPRR	4	0.22841	137945.3	142949.9
Apc	0.871598	1.16E-32	97.69	T(0.006)PAS(0.027)KS(0.096)PS(0.	4	0.59996	9304.3	10234.3
Pom121	0.573757	8.48E-20	70.316	T(0.036)S(0.036)S(0.131)VS(0.574	3	-0.12976	18281.4	18840.6
Rsrc2	0.624281	0.00774617	47.394	LNS(0.376)S(0.624)ENGEDR	2	0.73817	11617.5	11904.8
Srrm2	1	1.46E-26	101.6	T(1)PPVALSSSR	2	1.4845	90519.6	94264.5
Ahnak2	1	1.11E-08	52.527	VEGDVALPS(1)VQGDLK	3	2.5466	7511.4	7329.8
Plec	0.746966	7.97E-06	50.132	S(0.747)GGGS(0.253)VGNGSVLDP	3	-2.2539	15296.1	15637.6
Ccnyl1	0.831054	1.24E-53	125.45	YS(0.162)S(0.831)CS(0.005)T(0.00	3	-1.8408	16889.5	15662.8
Purg	0.999715	7.61E-40	92.258	HS(0.006)APS(0.994)PPVS(1)VGS(i	4	-0.27178	391568.6	448166.5
Sh3pxd2a	0.985527	0.000223188	71.888	RNS(0.986)S(0.014)FSTAR	3	0.3059	11378.6	12724.2
Apc	0.960718	6.95E-22	85.737	S(0.039)KT(0.961)PPPPPPQPVT	4	-0.08287	69185.0	71290.7
Wdr48	0.99775	1.12E-42	79.59	GIHNFAS(0.998)GDY(0.002)DND	5	1.4137	7278.4	7488.0
Plekha4	0.959359	1.39E-14	84.375	S(0.019)PS(0.959)PAPQREES(0.01	2	-0.72571	8015.0	9321.0
Vcl	0.999987	8.03E-13	67.685	AQQVS(1)QGLDVLAK	3	1.5522	7743.7	7550.5
Cdk13	1	2.10E-05	63.212	ILELT(1)PEPERPR	3	-0.15855	15246.0	14708.5
Map2	0.5	1.40E-13	115.06	VT(0.5)S(0.5)EPEAVSEKR	2	0.90143	13498.7	12119.8
Dclk2	1	0.00056876	56.177	S(1)IELEHFEER	3	-0.57734	16626.0	15276.7
Pdzd2	0.934916	5.47E-09	54.253	EANS(0.524)S(0.524)PGLGT(0.935	3	-0.90943	29300.6	28378.3
Ahnak2	0.999234	1.69E-13	109.48	GES(0.999)QEVAISSR	3	1.0368	16804.9	16115.9
Add1	0.96258	1.46E-31	89.979	EKS(0.037)PPDQS(0.963)AVPNT(0	4	-0.54793	134498.5	139066.9
Add1	0.96258	1.46E-31	89.979	EKS(0.037)PPDQS(0.963)AVPNT(0	4	-0.54793	134498.5	139066.9
Wnk2	0.999107	7.26E-05	91.701	DT(0.001)GS(0.999)PDKAR	2	0.17504	21543.4	21956.9
Anks1a	0.847015	1.56E-33	113.33	IMS(0.153)S(0.847)IGEGIDFSQEQ(	3	-0.30508	20874.3	19565.7
Gltscr1l	1	0.0454588	58.23	ALRNS(1)PK	2	0.79979	5775.8	5775.3
Plekha4	0.969295	0.00605529	70.056	VTLLQS(0.031)S(0.969)F	2	1.0564	2554.7	2456.7
Vrk1	0.527855	1.07E-08	46.415	DDGKLDFAVENG(0.124)VNT(0.5	4	3.4117	10178.8	10860.1

6837.6	5990.2	7108.1	7133.7	0.0	0.8	7
60414.2	58825.8	54806.5	58716.0	0.0	0.7	146
12587.3	10936.7	12782.0	12966.0	0.0	0.8	57
428891.0	409141.0	449161.7	457380.0	0.0	0.8	160
4360.3	4377.3	5138.5	4280.9	0.0	0.9	118
17787.0	18572.8	17703.2	18224.0	0.0	0.5	77
13760.5	15331.2	17012.8	16375.0	0.0	0.9	125
32133.0	29794.6	34563.1	31210.0	0.0	0.8	436
136891.7	133865.1	137620.0	152330.0	0.0	0.8	685
8760.4	9371.4	10106.0	9230.2	0.0	0.8	2161
17107.7	17753.3	18314.4	18945.0	0.0	0.7	369
12525.5	11566.1	12196.4	12806.0	0.0	0.7	105
89865.4	89611.5	95546.4	93461.0	0.0	0.6	2060
6335.7	6265.4	7210.7	8007.1	0.0	0.9	851;674
16505.1	15821.8	16382.3	15921.0	0.0	0.6	44
16234.7	16784.3	15876.8	16832.0	0.0	0.6	52
413570.8	394478.5	434425.1	442540.0	0.0	0.8	164
11076.5	11252.6	12390.9	12045.0	0.0	0.8	956
71872.9	70543.7	72376.0	72502.0	0.0	0.4	1334
7223.4	7457.8	7702.5	7147.9	0.0	0.6	335
8598.5	8990.6	9158.8	8161.5	0.0	0.8	513;441;513
7888.6	7981.4	7434.8	8103.1	0.0	0.6	357
13940.4	14951.8	15607.5	13973.0	0.0	0.7	1185
12943.9	13498.7	12902.8	12721.0	0.0	0.7	603;517
15071.1	16770.0	15550.9	15336.0	0.0	0.7	6
28519.6	27683.8	32232.4	27536.0	0.0	0.8	797
17920.1	15873.5	17997.0	17710.0	0.0	0.8	5852;7223
141086.4	137846.9	139169.5	143670.0	0.0	0.5	636
141086.4	137846.9	139169.5	143670.0	0.0	0.5	651
19914.1	21406.3	21813.2	21118.0	0.0	0.7	560
20315.5	20891.5	20429.3	20319.0	0.0	0.5	134
6012.2	5847.2	6321.2	5650.6	0.0	0.7	980
2897.2	2661.1	2628.9	2733.8	0.0	0.8	778;706
9991.6	10288.5	10386.6	10808.0	0.0	0.7	351



LOC100911	0.587142	0.000146944	76.332	IISIFS(0.098)S(0.315)T(0.587)EK	3	0.90723	6604.9	6053.2
RGD13097	0.843592	2.58E-26	80.016	S(0.001)S(0.001)T(0.009)PGS(0.84	3	1.055	25429.1	25062.3
Zc3h13	1	1.35E-14	88.561	KAASVAS(1)PLLDQQR	3	1.0725	45787.0	50828.8
Cmklr1	0.879112	1.82E-11	55.662	LVNALS(0.879)EDT(0.097)GPS(0.0	5	0.23864	2658.2	3534.0
Lmna	0.999951	0.000862886	107.1	LESSES(1)R	2	-1.3351	78594.0	58767.2
Brsk2	0.992627	3.33E-24	94.632	S(0.993)MEVLS(0.119)VT(0.485)D	3	1.006	87667.9	87196.0
Rps27a	0.775468	2.48E-07	54.103	T(0.177)IT(0.775)LEVEPS(0.024)D	3	1.4299	3775.5	4453.3
Notch1	1	0.0130622	47.603	KKS(1)QDQK	4	0.20242	9387.3	9147.7
Ssfa2	0.727847	8.39E-28	105.06	S(0.129)LT(0.728)S(0.143)FEEAQG	3	0.73645	25348.0	25665.6
Camk2b	0.821152	8.65E-05	99.732	NSS(0.004)AIT(0.821)S(0.175)PK	2	-0.21836	92900.2	86140.7
Mta2	0.909462	4.32E-56	132.86	GHLSRPEAQS(0.087)LS(0.909)PY(C	4	1.2255	20640.5	23090.1
Ank3	0.99707	0.00342308	61.11	S(0.002)DANAS(0.997)Y(0.001)LR	2	-0.094154	32575.7	31677.8
Pbrm1	0.999689	5.98E-22	139.77	AAQQQQPSAS(1)PR	2	-0.31973	4728.0	5552.1
Add1	0.725521	3.45E-16	58.858	S(0.003)PPDQS(0.02)AVPNT(0.952	3	0.35823	79487.3	74539.8
Nfix	0.523997	5.29E-14	116.63	S(0.018)IT(0.524)S(0.447)PPS(0.00	3	0.35476	11054.5	11816.0
Ttbk1	0.993196	4.81E-05	103.21	MDLPGS(0.993)PS(0.007)R	2	-0.1768	33712.3	33962.7
Rgs18	0.982099	6.84E-21	110.6	S(0.017)RS(0.982)FT(0.001)YNEFC	3	0.12961	29196.8	25684.3
Sptbn1	0.99996	2.05E-91	108.58	GDQVS(1)QNGLPAEQGS	2	1.1321	26493.0	28372.8
Acap2	0.99453	6.19E-43	150.91	SSPST(0.001)GS(0.995)LDS(0.004)	2	0.34667	45932.5	44792.5
Pcdhac2	1	0.000504735	57.106	HS(1)AGNLIILK	3	-0.145	5850.6	5528.7
Pard3	0.591158	3.53E-76	112.86	RS(0.407)S(0.591)DPALT(0.002)GL	3	-0.19968	15349.8	14799.6
Ahnak2	0.950923	2.04E-21	84.249	T(0.951)PDVS(0.049)IQLPSTDLEIR	3	-0.17228	36719.0	37371.9
Atxn2l	0.717571	6.16E-22	82.367	LQPS(0.034)S(0.151)S(0.718)S(0.0	3	-0.31154	25766.6	24200.1
Tln2	0.631893	6.05E-105	144.45	S(0.184)GS(0.632)S(0.184)GPETFN	4	0.1235	20252.9	17233.6
Tmem74	0.999998	0.0154612	60.064	LYGS(1)FNFR	2	-0.8808	15006.3	16041.3
Akap17a	0.5	4.60E-84	118.85	GGSGGDEAGGIS(0.5)S(0.5)PGGIA	4	-0.84125	6123.5	6124.8
Akap17a	0.5	4.60E-84	118.85	GGSGGDEAGGIS(0.5)S(0.5)PGGIA	4	-0.84125	6123.5	6124.8
Clip2	0.827369	1.17E-07	57.248	T(0.006)GNES(0.165)GS(0.827)NL	3	-0.088603	35191.2	47059.8
Nktr	0.949578	1.09E-32	111.65	IVMPPDLEPS(0.012)RS(0.95)PT(0.0	3	0.697	22025.2	25943.1
RGD15630	0.994635	0.00260986	60.398	T(0.005)AAS(0.995)PEAK	3	0.27512	14425.5	14822.6
Raph1	0.989667	2.99E-09	77.324	T(0.009)AS(0.99)AGT(0.002)VSDA	2	-0.70496	13776.6	13829.9
Ptrf	0.671182	7.35E-137	159.95	ATEEPSGT(0.011)GS(0.318)DELIKS	3	-2.1295	26837.7	25878.4
lqsec3	0.992723	1.14E-08	41.619	AAS(0.993)PGQQPALAT(0.002)A	4	-0.61377	13485.6	13832.1
Uhrf1bp1	0.748388	9.41E-06	56.768	S(0.061)LS(0.748)GS(0.191)GEVLC	2	2.7218	23816.6	22076.5

6058.0	6056.5	6562.3	6370.9	0.0	0.7	60
26878.0	25218.8	26943.7	26338.0	0.0	0.6	212
49124.7	47395.1	51393.2	49083.0	0.0	0.7	241
3017.8	3367.4	2813.6	3163.8	0.0	0.9	338
64651.4	70616.3	63113.0	71239.0	0.0	0.9	426
85394.9	91523.2	86420.2	86131.0	0.0	0.5	398
3529.8	3678.0	4282.2	3971.1	0.0	0.9	14
9736.7	9460.0	10311.9	8915.2	0.0	0.8	2173
24170.6	25378.3	24499.7	26411.0	0.0	0.6	667
88867.8	90367.2	91357.3	90122.0	0.0	0.5	366;366;342
22951.6	23202.5	21438.1	23022.0	0.0	0.8	435
30520.1	32698.5	31018.5	32451.0	0.0	0.6	27;44
4312.1	4953.3	4484.2	5369.4	0.0	0.9	1489
80321.9	77303.0	81399.7	79095.0	0.0	0.6	660
12381.8	11511.1	11772.2	12488.0	0.0	0.7	267
32169.2	33401.4	34008.5	33906.0	0.0	0.5	484
24856.2	25950.2	28153.4	26809.0	0.0	0.8	185
29237.2	28397.7	26452.1	30493.0	0.0	0.8	2114
49446.2	45995.9	48763.3	47481.0	0.0	0.7	384
5063.5	6001.4	5494.2	5190.3	0.0	0.8	838
14913.5	14614.1	16115.1	15000.0	0.0	0.7	144;144
42983.9	39848.2	39602.9	39356.0	0.0	0.8	858;681
25308.7	25915.1	26108.0	24368.0	0.0	0.6	556
18932.5	18070.1	19088.1	20097.0	0.0	0.8	462
14236.4	15611.7	15639.6	14704.0	0.0	0.7	277
6456.7	6164.8	6362.5	6455.1	0.0	0.5	174
6456.7	6164.8	6362.5	6455.1	0.0	0.5	175
40939.7	43772.9	38664.6	42581.0	0.0	0.9	205
22693.9	23633.7	22935.2	25142.0	0.0	0.8	230
12903.5	16280.5	13610.2	12888.0	0.0	0.9	136
13487.9	14209.3	13033.2	14464.0	0.0	0.7	192
24906.2	26190.0	26591.1	25999.0	0.0	0.5	48
13195.2	13180.8	14173.4	13763.0	0.0	0.6	265
22057.3	24581.9	20597.0	23786.0	0.0	0.8	783

Ptk2	0.999778	3.29E-13	76.416	LSRGS(1)IDR	3	0.25583	9654.3	9753.0
Stim1	0.958344	1.98E-42	96.708	AMAEEDNGSIGEET(0.002)DS(0.04	3	-0.50801	36110.8	35682.6
Cgn1	0.902119	3.37E-38	85.087	NCFPKPCGS(0.176)QPNS(0.922)P1	4	-0.76203	30092.5	30780.5
Mcrs1	0.947454	4.58E-10	57.238	CS(0.947)GS(0.046)EPS(0.004)S(0.	3	-0.86179	12371.7	12703.4
Eif3c	1	8.96E-98	186.75	QPLLLS(1)EDEEDTKR	3	0.029703	437033.5	455274.5
Kif1c	0.948886	0.00106232	62.166	YPPYT(0.051)T(0.949)PPR	3	0.46676	46186.5	45946.5
Agap2	0.919723	0.00217965	64.86	RS(0.08)S(0.92)AASLGR	2	-0.57289	4555.6	4200.0
Map1a	0.995431	1.34E-178	156.56	RPGS(0.995)VAMET(0.004)TPELGI	5	-0.69987	24003.9	21850.5
Rims1	0.777945	0.000235778	44.577	S(0.188)GS(0.778)IEQAS(0.034)LV	3	2.3493	8705.1	8699.2
Ttbk2	0.99981	1.59E-30	125.73	SILLGS(1)DNEDEK	3	-0.22871	114466.2	114989.6
Mapk4	0.770361	0.00107862	77.597	VGS(0.77)PS(0.23)YLDK	2	0.81471	14095.1	14069.0
Ociad1	1	0.000182063	50.831	LENS(1)PLGEALR	2	0.97829	9677.0	10586.9
Ampd2	0.999989	6.30E-26	111.08	RAS(1)LQASAAPEAR	2	0.48489	37262.9	36454.9
Magi3	0.763514	1.40E-05	52.19	HS(0.764)QS(0.236)LGCY(0.001)PV	3	1.085	17036.2	17921.4
Slc2a13	0.999976	2.52E-10	66.246	GSNYHLSNDNDAS(1)DVE	2	-0.22921	10919.7	10798.2
Mylk	0.650385	2.49E-15	80.316	KS(0.149)S(0.65)T(0.149)GS(0.05)	4	0.31606	10527.8	10087.1
Ssfa2	0.991569	7.99E-23	76.492	SADNLS(0.008)CPS(0.992)PLNVM	3	0.074931	6544.7	6935.7
Dlg2	0.999911	0.000565915	81.92	HYS(1)PVECDK	2	0.017063	36131.0	35091.4
Cstf2t	0.712606	8.01E-11	54.559	QGAGQPS(0.016)S(0.048)FS(0.715	3	-0.91923	2296.1	2801.2
Rfx7	0.776457	3.21E-06	53.453	NLS(0.776)GS(0.205)T(0.013)LY(0.	3	0.8786	1944.1	2037.8
Lig1	0.785517	3.67E-39	78.128	VAQVLS(0.214)S(0.786)EGEDEDEA	5	-1.2716	22479.6	23287.5
Cdc5l	0.978925	7.33E-19	72.916	GGLNTPHES(0.002)DFS(0.019)GV	3	-0.64848	11825.7	11998.1
Pdha1	0.983027	3.27E-38	145.69	YHGHS(0.017)MS(0.983)DPGVS	4	0.0012119	117990.6	119958.6
Fam98a	0.9593	0.00721967	44.847	T(0.002)S(0.007)S(0.031)GS(0.959	3	-0.1223	13347.3	15694.7
Adh5	0.893886	3.41E-05	48.288	EFGAT(0.106)ECINPQDFS(0.894)K	3	-1.137	7333.8	7036.4
Camk2b	0.858263	5.09E-07	63.691	ADGVKPKQT(0.075)NS(0.858)T(0.0	3	2.0371	60721.7	57405.9
Tfeb	0.614232	1.17E-06	71.031	RS(0.363)S(0.614)FS(0.022)MEEGI	2	-0.81018	13307.9	12179.0
Prkce	0.999434	1.06E-06	82.822	KQET(0.999)PDEVGS(0.001)QR	3	-0.02777	15289.0	16873.8
Sgip1	0.976943	3.82E-15	128.35	NLS(0.977)S(0.023)EEVARPR	3	0.33418	53058.7	55145.2
Esf1	0.996504	0.00125635	44.734	DTTDLs(0.003)VEAS(0.997)PKGK	3	1.4637	21948.9	23359.9
Prkag2	0.998314	0.00531203	84.615	MS(0.998)PGS(0.002)PK	2	0.67498	25370.7	26113.2
Bcr	0.994975	0.00510924	54.023	RQS(0.995)ILFS(0.004)T(0.001)EV	2	0.7834	13312.7	12623.3
Nfat5	0.92519	0.0209489	43.405	RS(0.074)S(0.925)PIFQT(0.001)TK	2	1.0098	10956.5	9428.0
Pcyt1b	0.95066	0.00118074	109.29	T(0.003)S(0.001)PPS(0.951)S(0.04	2	-0.063022	20212.3	20082.3

10930.7	9968.3	10076.1	10747.0	0.0	0.8	843
38366.5	36452.7	38765.1	36589.0	0.0	0.6	668
32767.6	30676.8	31972.8	32391.0	0.0	0.7	204
12883.2	12743.0	13150.7	12632.0	0.0	0.4	85
423131.3	444658.7	448787.7	441670.0	0.0	0.5	39
47088.1	46083.9	47121.9	48099.0	0.0	0.4	1077
4997.9	4641.6	4143.2	5174.4	0.0	0.9	822
21901.8	22613.0	22902.1	23256.0	0.0	0.7	12
8244.1	8630.0	9023.2	8379.6	0.0	0.6	1202
114012.5	112481.9	118437.8	117700.0	0.0	0.4	717
14502.6	15391.7	13701.1	14214.0	0.0	0.7	430
9352.0	9934.4	10018.1	10108.0	0.0	0.7	108
36592.8	36663.9	37861.0	37444.0	0.0	0.3	21
19810.9	18377.0	18399.9	18815.0	0.0	0.8	1015
10763.5	11129.4	9930.6	11910.0	0.0	0.8	634
10156.4	9397.9	9786.1	12050.0	0.0	0.9	1807
6639.7	6505.8	6985.1	6932.1	0.0	0.6	1062
36884.5	35576.0	35561.3	38599.0	0.0	0.7	365
2406.9	2458.2	2294.6	2864.6	0.0	0.9	576
1832.4	1761.0	1955.2	2185.7	0.0	0.8	1177
21192.8	28112.8	20192.0	19665.0	0.0	0.9	67
11724.9	11521.0	12545.9	12018.0	0.0	0.6	396
106730.4	110567.9	123631.4	115680.0	0.0	0.8	295
12578.7	14404.0	14356.2	13489.0	0.0	0.8	285
6949.6	6828.1	7585.4	7228.1	0.0	0.7	247
57037.1	55354.4	60241.6	62214.0	0.0	0.7	358;358;334
13230.3	13333.7	14390.4	11578.0	0.0	0.8	467
14899.7	15624.9	16104.5	16044.0	0.0	0.7	228
56645.3	55506.2	55544.9	56290.0	0.0	0.5	197
23204.9	23009.0	25008.4	21532.0	0.0	0.8	180
26267.9	26989.7	27751.6	24186.0	0.0	0.7	98
12119.9	13272.1	13048.1	12312.0	0.0	0.7	1194
9939.4	9579.1	10795.4	10409.0	0.0	0.8	542
19473.4	19792.7	19796.6	21085.0	0.0	0.6	311

Rbm15	1	0.00331573	57.174	ERS(1)PVKPK	2	-0.48095	77799.7	73357.3
Col4a3bp	0.940293	3.46E-05	51.771	TES(0.002)GY(0.006)GS(0.94)ES(0.	3	1.4751	7372.8	7739.9
Col4a3bp	0.565915	3.46E-05	51.771	TES(0.002)GY(0.006)GS(0.94)ES(0.	3	1.4751	7372.8	7739.9
Slc8a2	1	3.19E-25	114.03	GIS(1)ALLNQGDRK	2	-1.8391	69134.9	64264.9
Cbx3	0.555246	1.59E-12	95.57	S(0.007)LS(0.555)DS(0.437)ESDDS	4	-0.47757	89388.9	92283.4
Dapk2	1	5.25E-15	120.54	RES(1)VVNLENFKK	3	0.02468	55869.9	48710.7
Itsn2	0.982488	2.77E-66	128.4	T(0.001)VS(0.018)PGS(0.982)VS(0	3	0.39726	34611.6	35419.4
Vwa5b2	0.659236	0.00347179	78.61	S(0.659)LS(0.165)S(0.165)PS(0.01:	2	0.07274	8022.3	8379.1
Npr2	0.8045	3.44E-05	49.988	GS(0.084)S(0.804)Y(0.013)GS(0.8	3	0.050894	26477.5	26890.9
Syt9	1	0.00154758	59.418	S(1)LDNDDGRR	3	1.0355	5855.5	6024.7
Prune2	0.499981	1.06E-105	140.57	KPGYQMTVLHIHEDPEALS(0.5)S(0.	5	0.46502	11658.1	11652.5
Dab2ip	0.802485	0.0242206	70.908	QMS(0.198)LT(0.802)EK	2	0.064067	28006.5	26760.3
Soga1	0.993051	0.000638992	71.221	VY(0.002)Y(0.005)S(0.993)PPVAR	2	0.36908	21556.5	20808.5
Lmo7	0.999376	3.20E-21	87.676	SAS(0.001)VNKEPICLT(0.999)GIMF	3	-2.0825	37293.9	40760.3
Dtna	0.919268	2.08E-14	87.157	TQFEDLVPS(0.919)PT(0.065)S(0.0:	3	-0.18985	111933.0	103814.2
Fxr1	0.836363	5.61E-07	56.719	GYAT(0.836)DES(0.07)T(0.079)VS(	2	-1.095	4055.7	4286.4
Ssh1	0.683827	5.20E-14	114.87	S(0.005)S(0.005)S(0.302)S(0.684)I	3	0.081804	3776.6	3613.0
Tmem35	0.805925	9.08E-11	62.94	ALPES(0.806)AEEQPS(0.186)LY(0.(	3	1.5753	9322.5	8476.8
Map2	0.976456	1.40E-13	115.06	VT(0.024)S(0.976)EPEAVSEKR	3	0.74717	74979.0	69525.8
Caskin1	0.981124	3.73E-22	74.525	HMSSSQELLGDGPQGGPS(0.981)P	3	0.37237	7464.0	8008.9
Gpsm1	0.861797	1.83E-37	140.46	APS(0.862)S(0.138)DEECFFDLLSK	3	-0.25359	57415.6	57996.1
Farp2	0.999635	1.63E-07	96.067	GS(1)LEGNSQHR	3	1.1958	4788.7	4877.1
Dock6	1	3.43E-15	113.01	ERS(1)PFGNQENVR	3	1.533	27722.6	30952.7
Map7d2	0.985286	0.000795238	63.181	KS(0.985)DAS(0.015)LEVK	3	0.0076873	18980.3	16321.0
Usp5	0.834606	4.72E-14	76.341	S(0.114)AADS(0.835)IS(0.051)ES(C	3	1.3126	23159.4	21335.0
Fam219a	0.969679	4.12E-15	69.331	EGESVAMNY(0.03)KPS(0.97)PLQV	4	1.9212	11636.4	11044.8
Gtf2i	0.983523	1.51E-38	90.694	VMAADADRPMLS(0.984)PGGS(0.(	3	0.30349	52507.7	49962.3
Tsc2	0.799193	7.22E-20	67.496	AIS(0.799)S(0.2)EGARPTVDLSFQPS	5	-0.19661	1976.2	2122.3
Pgm1	0.540868	0.00507957	43.166	LS(0.009)GT(0.272)GS(0.178)AGA	2	-1.0764	17701.7	18728.7
Appl1	0.969809	8.29E-41	113.59	VNQSALAVT(0.015)PS(0.97)PS(0.	2	0.38572	52561.4	52383.2
Ash1l	0.853443	6.80E-07	42.319	KLS(0.853)PVHS(0.078)QMADY(0.	4	-0.1116	3927.1	3129.7
Sipa1l2	0.996342	1.19E-28	107.02	S(0.004)EGS(0.996)PPPEEPEVTECF	2	0.36536	47026.2	50383.5
Tjp2	0.812435	0.000433512	50.806	S(0.812)S(0.188)EPVQHEEVR	3	1.8994	9141.5	9530.0
Ank1	0.800172	5.46E-08	59.983	LS(0.2)T(0.8)PPPLAEEEEGLASR	3	-2.0205	3477.7	4494.6

75573.6	78761.5	75041.2	76366.0	0.0	0.5	51
7259.5	7753.8	7728.9	7228.8	0.0	0.6	123
7259.5	7753.8	7728.9	7228.8	0.0	0.6	125
59966.0	64387.2	65572.0	66340.0	0.0	0.7	622
82296.8	84606.7	100704.7	82663.0	0.0	0.8	95
56107.7	53439.3	53135.1	56555.0	0.0	0.8	294
36712.0	34043.8	38067.2	36256.0	0.0	0.7	846
8168.7	8262.9	7969.1	8712.1	0.0	0.6	761
25901.7	26344.0	28313.7	25819.0	0.0	0.6	523
5828.3	6183.1	6008.9	5786.4	0.0	0.5	207
12578.7	12675.9	12293.7	11467.0	0.0	0.7	2203
28997.7	30239.0	27460.9	27342.0	0.0	0.7	869
22430.9	22068.5	21391.0	22325.0	0.0	0.6	1048
42351.5	41117.6	41505.1	39621.0	0.0	0.7	1238;1221
110435.3	101772.7	114879.2	114510.0	0.0	0.8	686
4491.4	4800.6	4131.8	4097.2	0.0	0.8	398
4079.6	3307.5	4119.8	4217.3	0.0	0.9	789
8857.5	8867.4	8934.5	9263.0	0.0	0.6	148
74908.2	72766.7	73358.1	76651.0	0.0	0.6	604;518
6813.2	6690.1	7093.8	8844.0	0.0	0.9	651
55055.8	56995.5	60677.6	55409.0	0.0	0.7	490
4914.2	4679.8	4828.1	5295.8	0.0	0.7	892
27992.6	28196.4	31177.7	28624.0	0.0	0.8	1378
19495.7	18415.5	18828.4	18395.0	0.0	0.8	585
21215.1	23171.8	21898.7	21649.0	0.0	0.7	760
9301.8	11004.0	11025.2	10446.0	0.0	0.8	47
50005.2	50806.0	51859.2	52158.0	0.0	0.5	210
2190.2	2178.8	2312.1	1894.6	0.0	0.8	1307
17839.1	17785.2	19810.5	17510.0	0.0	0.7	513
52447.5	49468.5	56289.7	54059.0	0.0	0.7	401
3995.9	3200.2	4575.7	3447.4	0.0	0.9	178
50766.4	48191.4	52544.2	49729.0	0.0	0.7	1406
8963.9	8914.1	9494.2	9654.4	0.0	0.6	959
4329.0	4106.6	4606.4	3778.6	0.0	0.9	876



Larp4b	0.779929	3.60E-05	61.11	LPS(0.109)T(0.78)PT(0.109)AT(0.0	3	0.2665	9819.0	9009.4
Ppp1r9a	0.866369	0.00640817	70.389	GRPS(0.134)S(0.866)PQK	2	0.38434	27327.9	26346.8
Fam189b	0.999993	4.04E-22	84.249	VPLPSGPAPAHS(1)LGDLK	3	-0.30364	23214.3	20935.7
Dvl2	0.903295	6.03E-13	105.17	S(0.056)GS(0.903)GS(0.009)ES(0.C	2	0.42285	8225.2	7066.7
Flnb	0.590632	1.69E-09	55.051	LVTPGSANET(0.021)S(0.006)S(0.0	3	1.7487	4471.4	5747.0
Cd2ap	0.824241	1.11E-09	77.726	FNGGHS(0.132)PT(0.824)QS(0.04	2	-0.23668	19743.6	17553.9
Tom1l1	0.976818	8.08E-59	93.807	QEAGQIS(0.977)PS(0.023)RPTSVP	5	-0.35267	19790.1	21054.2
Eif4b	0.909132	1.37E-30	89.923	S(0.021)RT(0.065)GS(0.909)ES(0.3	3	0.25995	5591.0	6282.4
Slc8a3	0.988001	3.05E-05	50.077	GIS(0.001)ALLLS(0.988)PEVT(0.01	3	1.175	1045.1	1103.9
Lrsam1	1	9.71E-58	175.29	RFS(1)REEAEWQNR	3	0.57841	43587.7	45199.5
Arap1	0.531621	0.000150456	86.288	LS(0.532)S(0.179)AS(0.29)VLGVR	2	-1.2549	9291.6	8370.1
Khsrp	0.598233	2.71E-09	78.95	VQIS(0.402)PDS(0.598)GGLPER	2	-0.65174	34175.0	33363.8
Rbbp6	0.936047	0.0262962	53.965	GQS(0.936)PT(0.064)KR	2	0.23372	18015.4	17687.8
Mast2	0.747734	1.81E-06	43.306	HFS(0.748)T(0.252)ENVPDEEGRQ	4	-0.71314	20425.8	19994.6
Mast2	0.999798	1.81E-06	43.306	HFS(0.748)T(0.252)ENVPDEEGRQ	4	-0.71314	20425.8	19994.6
Ywhag	0.847354	6.34E-61	161.51	T(0.153)S(0.847)ADGNEK	2	2.1796	28865.2	28763.3
Sptbn4	0.957572	2.97E-26	109.72	SERQES(0.958)T(0.042)DQPEEAAF	3	-0.34585	2497.0	2450.7
Eif2b4	0.543268	1.68E-09	53.281	QS(0.543)S(0.41)LT(0.046)QYMSIF	3	-2.4235	6283.4	5751.0
Npepps	0.977756	0.0341697	65.224	KAS(0.022)PPS(0.978)V	2	0.06118	18787.1	19655.6
LOC10369	0.992	4.06E-28	104.95	EGVRNDCS(0.992)DGET(0.008)REI	3	0.24697	14148.8	14657.0
Rab11fip2	0.547513	2.39E-29	93.804	LS(0.001)S(0.004)AHS(0.446)MS(C	3	-0.3331	18196.7	17231.4
Fam83h	1	0.000354653	63.257	RGS(1)PVPPVPER	2	-0.76576	25096.4	26617.7
Mpdz	0.9051	1.66E-73	156.97	RPS(0.905)QS(0.073)S(0.021)QVSI	4	-1.0117	40911.3	40365.4
Ythdc2	0.97632	4.71E-61	157.53	KS(0.018)S(0.976)ADT(0.006)EFSD	3	0.47043	13414.1	10552.6
Ralgapa1	0.55628	3.60E-09	97.797	S(0.001)AT(0.333)T(0.556)T(0.109	2	-0.55981	5934.1	6130.8
Cbarp	0.84782	2.39E-06	42.347	GAGDEV(S(0.848)ELPAPARS(0.765	4	0.933	25225.2	25204.9
Gabbr1	0.999986	1.69E-15	87.429	HPPT(1)PPDPSGGLPR	3	-1.0693	40923.2	41839.6
Evl	0.79093	4.49E-37	142.94	SNS(0.187)VEKPVS(0.791)S(0.022)	3	-1.5372	18209.8	18839.5
Dync1h1	1	5.30E-13	70.094	KDS(1)AIQQQVANLQMK	4	-0.63216	4263.5	3587.6
Peak1	0.924361	3.12E-08	91.006	ESQQY(0.038)Y(0.038)HS(0.924)L	3	0.86562	14431.4	14693.2
Cdv3	0.913631	1.87E-05	59.864	S(0.914)GDGGS(0.086)AGPGGK	3	0.23735	12000.7	12236.1
Limch1	0.999203	1.48E-12	126.78	QT(0.001)PS(0.999)PDVVLR	3	0.10006	103921.7	119991.5
Nktr	0.77165	2.14E-07	46.818	LDS(0.772)PEIS(0.228)LIPEQDEHIA	4	-1.4778	3715.0	4217.3
Jph3	0.998293	2.76E-09	68.639	S(0.998)LPVALES(0.002)DEETGDEI	3	0.28807	10149.2	10625.9



10048.0	10619.6	9024.4	9679.3	0.0	0.8	627
31037.5	30143.3	27219.4	28661.0	0.0	0.8	95
21106.5	23248.7	21708.4	21310.0	0.0	0.7	574
9010.9	8628.5	8340.3	7710.3	0.0	0.9	614
5186.4	5156.5	5089.5	5397.3	0.0	0.8	2470
18106.4	18608.0	18874.4	18780.0	0.0	0.7	512
18334.2	20480.1	19980.4	19635.0	0.0	0.7	93
4886.4	5103.6	6503.9	5412.3	0.0	0.9	422
1148.7	1106.8	1235.6	1006.6	0.0	0.8	634
47330.8	42526.6	48087.9	47618.0	0.0	0.8	243
9060.0	9464.8	7964.2	9707.9	0.0	0.8	182
33936.5	35078.8	34569.6	33404.0	0.0	0.4	185
17412.2	17615.9	18140.2	18185.0	0.0	0.3	747
17624.1	21651.6	18610.4	18686.0	0.0	0.8	227
17624.1	21651.6	18610.4	18686.0	0.0	0.8	239
25694.1	27584.8	28491.1	28545.0	0.0	0.7	71
2345.7	2876.0	2408.4	2122.9	0.0	0.9	2250
5665.6	6446.1	6418.8	5111.4	0.0	0.9	191
16701.0	18293.4	18675.6	19036.0	0.0	0.8	919
13698.7	14457.9	15906.8	12804.0	0.0	0.8	61
17426.1	17493.8	18425.6	17761.0	0.0	0.5	229
27225.0	26689.4	27143.6	26340.0	0.0	0.6	959
38336.7	41466.3	40428.9	39589.0	0.0	0.5	1769
12863.0	13033.4	12305.4	12067.0	0.0	0.8	1156
6658.9	6295.9	6229.7	6491.3	0.0	0.7	736
22574.7	25471.8	24167.4	24509.0	0.0	0.7	245
39705.8	40986.7	42573.7	40830.0	0.0	0.5	929
18009.5	18272.5	19715.4	17935.0	0.0	0.7	322
3443.2	3766.0	3848.2	3857.7	0.0	0.8	1228
13114.3	13455.8	15975.2	13473.0	0.0	0.8	1361
11293.7	11646.4	12294.7	12149.0	0.0	0.6	90
109487.8	102276.5	120361.4	116020.0	0.0	0.8	58;61
4151.1	4390.5	4236.9	3646.6	0.0	0.8	910
9286.0	10515.3	9462.1	10558.0	0.0	0.8	704

Epb41l1	1	0.0148735	48.981	LVS(1)PEPPPK	2	1.8593	9631.1	7857.6
Ptbp1	0.557758	0.00324303	66.246	ELKT(0.02)DS(0.558)S(0.422)PNQ/	2	-1.8323	11160.7	12248.2
Afap1	0.687051	2.59E-39	80.646	KKPS(0.006)T(0.006)DEQT(0.075)S	5	0.45711	17663.6	17087.7
Sgsm2	0.97157	1.57E-06	77.372	RPS(0.972)GGS(0.028)QEALR	3	0.82804	11655.0	12034.3
Pex5l	0.742386	0.0218763	50.473	KS(0.029)ES(0.114)S(0.742)S(0.11	3	-0.23438	8880.2	8128.7
Map1a	0.545382	4.30E-101	134.14	TEATQGLDY(0.359)VPS(0.185)AGT	6	0.53601	9291.8	9218.5
Matr3	0.996854	1.97E-09	94.94	TEEGPT(0.003)LS(0.997)YGR	2	0.94914	34425.5	37403.7
Garnl3	0.837638	1.21E-54	130.27	KHYGSVELLIS(0.838)S(0.162)DADC	4	-0.31284	2798.9	2818.3
Plekhg3	0.990432	3.10E-07	76.332	SSS(0.006)VLS(0.99)LEGS(0.003)EI	3	-0.49637	16980.2	15775.8
Rtn4	0.956604	8.97E-67	129.2	DLAEFSELEY(0.957)S(0.042)EMGS	4	-0.46579	50901.2	48846.7
Chgb	1	0.00179607	105.1	IRHS(1)EER	2	0.056328	26466.8	30754.2
Prx	0.997616	1.13E-07	147.19	S(0.002)RS(0.998)AEELR	2	0.0067577	186582.8	193408.0
Adcy6	1	7.22E-05	89.507	ANS(1)MEGLMPR	2	0.0062539	17162.7	19064.4
Mtcl1	0.575126	2.24E-12	65.184	REGPVGGES(0.425)DS(0.575)EDM	4	0.28301	19035.2	17750.3
Reep2	0.999898	0.00143339	53.034	KSPGGGDS(1)A	2	0.28139	52891.8	55179.2
Fhod3	0.887378	4.88E-16	64.845	GS(0.076)VS(0.887)PDAES(0.029)C	5	1.2364	88645.9	85548.4
Nos1	0.604934	0.0344358	50.354	EQS(0.605)PT(0.3)S(0.095)GK	2	0.047632	9528.3	10194.5
Caskin2	0.801453	3.34E-07	53.033	GS(0.198)S(0.801)GEGLPFAEEGNL	4	-0.16062	3674.9	2961.3
Epb41l3	1	9.15E-57	175.01	RQS(1)PEEDDTQK	3	-0.37697	521165.1	541470.1
Mef2a	0.992823	8.04E-05	81.918	S(0.007)EPIS(0.993)PPRDR	3	0.49587	16721.4	15444.6
Kiz	0.999476	0.000581245	65.234	REPS(0.999)PDS(0.001)AR	3	0.32104	3973.2	3755.6
Pnpla6	0.901631	4.49E-46	102.78	KVS(0.902)QS(0.085)T(0.006)S(0.0	4	0.243	14571.0	16095.0
Myo9b	0.800404	1.22E-05	76.728	AEAGVS(0.188)S(0.8)PVT(0.012)R	2	0.16797	21626.9	22414.4
Dync1i1	1	2.90E-07	75.911	VGHDS(1)ELENQDKK	4	0.68899	131659.9	141238.8
Sgpp1	0.99964	4.54E-23	130.23	RNS(1)LTGEEGELAK	2	0.30174	71371.1	70238.7
Ppfia1	0.970422	1.10E-16	106.42	S(0.004)S(0.004)DGS(0.97)LS(0.02	3	0.31912	155859.4	162310.5
Eif2ak4	0.882889	1.03E-37	82.665	HERPAVPGT(0.101)PPPDY(0.883)I	4	-0.26132	9108.1	9491.8
Ptk2	0.993891	5.83E-12	72.898	S(0.003)NDKVY(0.994)ENVT(0.003	3	0.52797	11636.1	13090.6
Sorbs1	0.98215	0.000178313	90.005	RPS(0.982)S(0.009)S(0.009)ASTK	2	-0.68153	38602.3	37831.5
Sorbs1	0.98215	0.000178313	90.005	RPS(0.982)S(0.009)S(0.009)ASTK	2	-0.68153	38602.3	37831.5
Ccdc6	0.978272	5.32E-05	50.966	AEQEEEFIS(0.022)NT(0.978)LFK	3	-1.2414	6847.8	8148.1
Shc1	0.999788	6.81E-05	68.171	HGS(1)FVNKPTR	3	-0.12033	21067.5	21483.1
Nbeal1	0.824366	0.00780052	67.113	KLWGS(0.824)S(0.176)K	3	0.16879	20226.7	18435.8
Cttn	0.934785	5.87E-12	58.432	KQT(0.935)PPAS(0.055)PS(0.011)F	5	-0.05374	47355.3	44154.1

9002.0	9565.8	8879.5	8463.4	0.0	0.8	378;378
10387.3	11192.1	12864.3	10273.0	0.0	0.9	139
16029.2	18171.3	18069.7	15341.0	0.0	0.8	344
11941.0	12283.2	11238.9	12671.0	0.0	0.7	102
9817.7	9299.6	9126.9	8824.0	0.0	0.8	107
9458.4	9719.6	9543.7	9147.3	0.0	0.5	1136
38034.3	35857.6	38900.8	36842.0	0.0	0.7	157
3005.1	3001.1	2647.1	3110.3	0.0	0.8	33
16147.4	15990.1	16858.9	16828.0	0.0	0.6	542
53100.1	49302.4	55593.0	50371.0	0.0	0.7	285
26191.3	30175.2	28023.0	26535.0	0.0	0.8	155
183448.5	204548.5	194824.5	172990.0	0.0	0.8	7;7
17413.3	18331.9	18012.0	18146.0	0.0	0.7	574
18572.7	18455.1	20721.0	17060.0	0.0	0.8	439
51030.4	53384.3	58829.9	49414.0	0.0	0.8	253
85406.6	87859.3	92305.2	83560.0	0.0	0.6	921
10138.3	10486.4	9019.1	10830.0	0.0	0.8	280
3084.6	3238.2	3435.4	3201.8	0.0	0.8	942
543489.1	552091.8	563976.8	515590.0	0.0	0.6	1044
16936.3	16501.6	18065.4	15317.0	0.0	0.8	372
3819.0	4154.9	4260.6	3316.2	0.0	0.9	309
15815.3	15393.9	16568.3	15260.0	0.0	0.7	89
19817.2	21014.7	23269.7	20592.0	0.0	0.8	718
124541.8	130983.2	139393.9	133400.0	0.0	0.7	178
71760.1	67747.6	75354.4	73670.0	0.0	0.7	101
158227.1	164026.0	158009.7	161960.0	0.0	0.4	242
8798.3	9536.7	9534.8	8764.1	0.0	0.7	672
12076.2	11141.5	13097.3	13152.0	0.0	0.8	928
38731.7	38893.5	38853.8	39258.0	0.0	0.1	915
38731.7	38893.5	38853.8	39258.0	0.0	0.1	703;910;573
8125.3	7394.1	7811.7	8284.8	0.0	0.8	89
22120.1	21753.9	21839.9	22111.0	0.0	0.3	29
18486.4	19631.0	18501.4	19932.0	0.0	0.7	2518
53929.4	47866.9	46065.0	53838.0	0.0	0.8	401;364

Nipbl	0.998866	1.46E-06	76.728	AES(0.001)RPET(0.999)PK	3	0.067084	70065.1	68766.7
Pde4d	1	0.00128324	109.79	LSPVIS(1)PR	2	0.77087	7773.9	7896.8
Kif16b	0.658484	0.00111375	67.095	RS(0.342)T(0.658)LDLEIQEQR	2	-0.0084652	18887.3	17881.9
Scn2b	0.967087	3.59E-15	56.854	LS(0.001)T(0.001)DDLKT(0.031)EE	4	0.4893	53232.9	48898.3
Acsbg1	0.999532	1.34E-113	197.75	AAS(1)LDASEEALWTTR	3	1.0544	96923.1	95060.8
Atxn2l	0.531788	9.45E-09	54.559	ELPT(0.057)KEPS(0.532)RS(0.411)	4	-0.71024	6996.4	6253.6
Usp24	0.954111	3.65E-13	62.303	MLTATAMPT(0.002)VAT(0.022)S(	3	0.37534	2840.7	3038.8
Nefm	0.957577	0.000168378	89.43	QPS(0.034)VT(0.958)IS(0.008)SK	2	-0.2272	13522.6	14938.9
Pgm2l1	0.998651	1.19E-51	165.64	AVAGVMIT(0.001)AS(0.999)HNR	3	-0.59223	267017.1	257467.8
Trip11	0.999997	8.83E-13	72.583	LSVHDLKPLDS(1)PGRR	4	0.24264	42872.1	40839.2
Cdc42ep2	1	8.98E-07	70.089	LHLES(1)PQPS(1)PK	3	-0.25569	57774.6	62124.9
Hsf4	0.98893	1.01E-06	51.876	GPIIS(0.011)DIPEDCPS(0.989)PEGI	3	-0.501	14078.4	15165.9
Vps13d	0.79162	1.11E-21	106.28	S(0.792)T(0.162)AS(0.044)LT(0.00	3	-0.15716	5943.1	6028.6
Fkbp15	0.5	9.40E-05	81.239	RLS(0.5)LT(0.5)PDPEK	3	0.050108	13472.5	11428.8
Pea15	0.999921	1.32E-06	60.307	VLKIS(1)EEDELDTK	3	0.40186	29391.2	31726.1
Rap1gap2	0.994407	2.06E-07	72.523	LHS(0.994)GS(0.006)EGQGDSR	3	0.38791	19484.8	20767.9
Fam208a	0.999998	1.02E-17	96.917	DAQS(1)PVLEVDAASGK	3	-0.012652	40577.3	40381.8
Smarca4	0.850383	7.24E-69	180.61	EVDYSDS(0.149)LT(0.85)EK	2	-0.19429	73496.5	59693.0
Mical2	1	0.0330906	61.679	LPLS(1)PAR	2	0.54883	4509.6	4732.5
Bcl9	0.993268	5.67E-12	65.022	SPPVLGS(0.007)AAAS(0.993)PVHL	3	0.21068	6088.4	6045.4
Sh2d3c	0.931511	2.74E-14	125.53	AAS(0.062)PAS(0.932)PS(0.007)GF	2	-0.24075	50574.4	54128.4
LOC100361	0.966597	8.26E-33	109.83	DIDT(0.014)EPQS(0.967)S(0.02)ILE	4	-1.2739	11406.1	12433.5
Uhrf1bp1	0.99816	5.36E-05	47.113	SDASS(0.001)DQGPVS(0.998)PEK	3	0.22111	13303.1	13981.3
Wipf3	0.890837	4.21E-27	108.98	LNPPPAPPARS(0.891)PT(0.077)T(C	4	0.58838	69600.0	77352.2
Gorasp1	0.885185	3.05E-05	53.255	KPPS(0.165)AS(0.885)S(0.561)PGT	2	0.47382	6859.7	6863.0
Sh3pxd2a	0.922622	0.00137579	55.04	RT(0.038)S(0.923)T(0.038)LT(0.00	4	0.49528	12208.3	12287.6
LOC100911	0.593103	9.97E-11	68.243	DANIKS(0.407)PT(0.593)AQAAPR	3	0.20298	21821.3	21239.6
Map3k3	1	0.000157721	75.088	S(1)FPDNRK	3	0.019559	75184.1	80728.5
Zzef1	0.999785	0.00129679	53.448	S(1)LRLEEQSAK	3	1.0087	10861.3	11429.9
Myo5a	1	3.20E-139	172.11	IGELEVGMENIS(1)PGQIIDEPIRPV	4	1.2435	100012.1	105561.6
Plec	0.561518	0.00234255	84.615	S(0.004)WS(0.434)LVT(0.562)FR	2	-1.4016	9314.8	10179.6
Ccnl2	1	5.08E-05	60.631	GDS(1)PVNGLLK	2	-0.041779	44129.1	42761.0
Tnik	0.651716	1.28E-21	77.576	ANS(0.714)KS(0.227)EGS(0.407)PV	4	-1.4337	18516.3	18225.2
Rtn4	0.999195	2.51E-65	151.21	DSEGRNEDAS(0.999)FPS(0.001)TP	3	-0.47301	389421.8	361576.0

74189.6	71677.8	74489.8	70270.0	0.0	0.6	713
7951.7	7763.4	8112.1	8125.8	0.0	0.4	60
17657.1	18269.2	17765.1	19265.0	0.0	0.6	1032
49394.1	52947.7	49385.2	51624.0	0.0	0.7	175
91754.0	93673.7	98681.8	95938.0	0.0	0.5	70
6503.0	7059.9	6601.0	6409.3	0.0	0.7	512
2513.3	2830.5	3023.4	2673.7	0.0	0.8	910
12475.5	12827.7	14336.9	14430.0	0.0	0.8	430
240704.9	265574.3	263901.6	248010.0	0.0	0.7	175
41687.1	43055.7	43656.2	40703.0	0.0	0.6	1885
62675.5	60803.6	61485.5	63225.0	0.0	0.6	141
14233.2	14120.2	14888.3	15169.0	0.0	0.6	211
5678.3	5687.9	5945.3	6301.2	0.0	0.7	2861
15836.5	14079.5	13041.7	14273.0	0.0	0.9	1093
31844.5	27043.6	33461.4	33956.0	0.0	0.8	90
20516.7	20600.0	21297.0	19853.0	0.0	0.6	551
43130.8	41700.6	40805.1	43588.0	0.0	0.6	844
71388.5	70400.7	68185.9	69298.0	0.0	0.8	1351
4811.3	4741.8	4391.0	5147.9	0.0	0.8	154
6220.4	6439.4	6264.5	5947.2	0.0	0.6	842
50929.3	51219.6	55765.0	51165.0	0.0	0.7	188
13295.2	11901.6	11694.2	14140.0	0.0	0.8	631
12485.1	12838.7	13803.7	13771.0	0.0	0.7	926
76831.0	86169.7	70153.3	71087.0	0.0	0.8	394
6775.2	7167.2	6353.1	7310.1	0.0	0.7	216
12140.1	12249.2	12653.8	12328.0	0.0	0.2	463
19860.9	21334.8	20702.8	21906.0	0.0	0.6	158
74783.6	79175.1	79304.1	75967.0	0.0	0.6	250
9359.6	10358.5	10751.6	11055.0	0.0	0.8	2529
105393.2	103081.6	102471.2	110470.0	0.0	0.6	1425
8903.5	9507.8	9613.1	9738.9	0.0	0.7	1053;939;910
42315.3	43162.4	44708.9	43436.0	0.0	0.4	368
18317.2	18848.9	19966.5	17139.0	0.0	0.7	693
411420.2	381202.0	384861.4	415270.0	0.0	0.7	425

Mast2	0.579062	5.81E-24	94.569	S(0.05)PS(0.371)PLS(0.579)GHGS(	4	0.33639	5000.4	4044.9
Mapt	0.952404	4.44E-63	112.62	ESPPQPPADDGSEEPGS(0.952)ET(C	3	0.13519	53466.6	49149.5
Vav2	0.81463	1.91E-22	88.283	MS(0.185)S(0.815)PADADAPGAGL	3	0.84041	46122.1	56872.8
Pam	1	5.05E-12	73.138	GSGGLNLGNFFAS(1)R	2	-1.643	19667.3	16802.5
Gas2l1	0.909492	1.12E-10	90.56	RS(0.09)S(0.909)RPEVTPISLR	3	-0.49827	30743.7	32547.7
Lmna	0.994926	2.23E-05	78.814	EALST(0.005)ALS(0.995)EKR	3	1.3066	2915.1	2986.7
Tbx3	0.936658	3.61E-13	61.488	S(0.002)AVLAAS(0.937)PAS(0.061	3	3.1665	5769.5	6014.9
Cap1	0.54698	5.18E-32	90.385	LEAVS(0.001)HT(0.097)S(0.547)DM	3	-0.026702	12166.5	14288.4
Wdr11	0.995051	1.39E-20	100.4	VY(0.002)IS(0.973)S(0.995)PHCS(C	3	-0.77038	117111.6	120529.0
Bud13	0.738619	0.00289164	40.516	RGHDS(0.336)PDPS(0.925)PT(0.73	3	0.27737	1211.9	1575.0
Pdha1	0.992114	1.78E-29	115.92	YHGHS(0.992)MS(0.008)DPGVSYR	3	-0.72217	328857.5	334460.3
Ncor2	0.999997	2.31E-127	165.31	TVLSSSEDAIEPVS(1)PPEGMTEPGH	3	-0.22327	68989.4	70045.7
Gphn	0.5	0.00172631	58.172	CS(0.5)S(0.5)KENILR	3	-0.2781	11608.0	12508.1
Slc6a13	0.974265	4.32E-22	88.071	SQPELT(0.001)S(0.021)PAT(0.974)	3	-0.48	22618.0	23416.9
Cmtm4	0.5	9.96E-15	78.95	T(0.5)ES(0.5)RDVDGRPEIQR	4	1.2984	10878.0	11360.7
Fam117b	0.748421	3.93E-05	48.229	YAT(0.045)S(0.045)PKPNNS(0.748	4	0.72562	7863.6	8408.9
Srf	0.864089	2.85E-19	62.589	ALIQT(0.018)CLNS(0.864)PDS(0.11	4	-0.36787	29044.1	27818.9
Ahnak2	0.909679	2.06E-55	83.165	VEGEVVLPS(0.068)VQGDLKT(0.91	4	1.3261	10939.5	11947.6
LOC10091	0.836409	1.73E-06	80.312	GNT(0.033)S(0.065)S(0.065)S(0.83	2	-0.064672	20350.7	17906.0
Iqsec1	1	2.77E-08	103.76	MQFS(1)FEGPEK	3	1.0684	200632.5	184819.2
Ap3b2	0.727684	7.45E-12	50.099	GADQEEAS(0.27)S(0.728)PVLGPEC	4	0.53925	9821.1	10616.7
Tom70a	0.740453	3.36E-33	81.863	AS(0.259)PALGS(0.74)GPDGSGDSI	3	-0.11454	161894.3	166939.5
Akap2	0.985248	1.18E-39	165.42	T(0.015)LS(0.985)MIEEIR	3	-0.14435	97886.8	97219.6
Pcm1	0.843552	0.0140974	44.318	T(0.001)ET(0.018)ES(0.844)NS(0.1	2	-0.15126	2901.3	3887.1
Mttr6	0.994833	5.30E-15	80.719	DLLHAVHPES(0.995)PS(0.005)LK	4	-0.45926	46799.5	48830.3
Ugp2	0.70161	0.0353581	65.474	LGS(0.043)S(0.256)FT(0.702)K	2	-1.2406	15983.1	19400.0
Akap13	0.995478	3.92E-29	115.87	SGSLDSELS(0.005)VS(0.995)PKR	3	-0.15851	74701.1	75571.9
Nucb1	0.956416	9.98E-63	172.43	AQRLS(0.044)QET(0.956)EALGR	2	0.28933	18255.2	18349.2
Kcnh2	0.824187	5.37E-07	78.69	RAS(0.824)S(0.176)ADDIEAMR	3	-0.31436	3637.1	4066.5
Srrm2	0.590222	0.0581686	49.06	S(0.44)T(0.59)T(0.969)PAPK	2	-0.36871	9719.3	9854.8
Srrm2	0.969492	0.0581686	49.06	S(0.44)T(0.59)T(0.969)PAPK	2	-0.36871	9719.3	9854.8
Mff	1	4.78E-17	145.29	ERS(1)MS(1)ENAVR	2	-0.33673	61320.4	61832.0
Mycbp2	0.951092	0.00528549	43.592	S(0.951)T(0.823)S(0.226)PKPKPVP	3	-0.5529	32939.4	35530.2
Mycbp2	0.823246	0.00528549	43.592	S(0.951)T(0.823)S(0.226)PKPKPVP	3	-0.5529	32939.4	35530.2

4681.1	4512.1	5004.1	4433.6	0.0	0.8	1311
57448.1	55218.0	53389.4	54066.0	0.0	0.7	50;50
47322.3	47808.6	53448.2	51513.0	0.0	0.8	566
16803.2	19128.3	17549.3	17465.0	0.0	0.8	827
32467.3	34121.8	32052.9	31147.0	0.0	0.6	316
3173.6	3044.9	3247.3	2931.4	0.0	0.7	153
5912.7	5898.5	6045.9	6041.7	0.0	0.3	660
14081.0	13472.3	12776.7	14949.0	0.0	0.8	25
109839.1	117376.7	120991.9	114790.0	0.0	0.6	205
1563.6	1460.1	1469.6	1491.9	0.0	0.9	188
308267.1	305590.8	348377.9	333500.0	0.0	0.7	293
68469.3	70379.8	71156.7	69366.0	0.0	0.2	2181
11735.5	12243.7	13018.2	11177.0	0.0	0.8	294
21976.3	20600.0	23667.3	24858.0	0.0	0.8	473
11058.4	11066.7	11668.5	11108.0	0.0	0.5	192
8720.7	7916.3	9174.9	8312.2	0.0	0.8	219
31564.5	30004.7	32013.4	27862.0	0.0	0.8	217
13905.3	12619.8	12538.4	12239.0	0.0	0.8	1191
20455.0	18256.0	22173.3	19248.0	0.0	0.8	563
192316.9	196760.8	197175.5	193340.0	0.0	0.5	180;179
10240.3	10326.2	10518.1	10339.0	0.0	0.5	26
168894.8	174816.6	165522.3	165590.0	0.0	0.5	99
97422.2	98891.9	99573.0	98886.0	0.0	0.0	771
3663.9	4546.1	2732.4	3346.1	0.0	0.9	1534
46946.5	51516.6	47315.3	46096.0	0.0	0.7	557
16849.0	16675.4	18905.4	17513.0	0.0	0.8	437
69323.1	72068.3	80371.6	70779.0	0.0	0.8	2676;1347
18579.1	17778.6	19829.8	18487.0	0.0	0.6	371
3710.2	3956.9	3923.6	3721.9	0.0	0.7	285
10477.2	10215.5	9349.0	10984.0	0.0	0.8	251
10477.2	10215.5	9349.0	10984.0	0.0	0.8	252
61479.9	62301.7	62406.7	62980.0	0.0	0.0	129;155;129
32101.1	34349.5	36020.8	31866.0	0.0	0.7	2971
32101.1	34349.5	36020.8	31866.0	0.0	0.7	2972



Synpo	0.499959	4.44E-85	104.2	S(0.5)S(0.5)PGLYNAPVQDSLQPTA\	4	-0.0057493	6518.8	6739.3
Synpo	0.499959	4.44E-85	104.2	S(0.5)S(0.5)PGLYNAPVQDSLQPTA\	4	-0.0057493	6518.8	6739.3
RGD13055	1	1.29E-26	80.277	GHS(1)APPGGPGPHQQAGAR	4	0.96867	9614.3	10000.6
Eif4b	0.761789	1.37E-30	101.38	TGS(0.001)ES(0.04)S(0.762)QT(0.1	2	-0.8171	13327.0	13080.7
Add2	0.990614	6.88E-09	94.454	S(0.001)T(0.004)PAS(0.995)PVQS(	2	1.7671	49508.1	50392.3
Vcl	1	6.02E-06	59.198	AVAGNIS(1)DPGLQK	2	0.11089	12767.6	12858.0
Nol3	0.999445	3.28E-38	77.657	SYDPPCPGHWT(0.999)PEAPSSGTT	3	-0.31771	10442.3	10533.5
Nemf	0.972266	0.00185778	45.507	EES(0.972)FNS(0.022)S(0.006)DSK	3	0.051442	7539.3	13690.6
Trim41	0.999885	7.62E-29	79.922	VDLTLDPDTAHPALLS(1)PDRR	3	0.76454	7534.5	7264.2
Syn3	0.989163	0.000266762	87.216	S(0.006)PGS(0.989)PQLS(0.005)R	2	-0.79988	29294.6	29199.9
Uck1	0.999991	0.00571873	71.153	SNAGS(1)LDR	2	-0.49504	12461.1	12015.6
Fam208a	1	9.47E-06	40.28	S(1)PGEQLVCPPPAEAFPNDR	3	0.27213	6199.4	5795.4
Polr2a	0.543354	0.020062	42.287	YS(0.01)PT(0.446)S(0.543)PK	3	0.25242	17632.6	16656.7
Aak1	0.60314	2.07E-92	126.71	REQSSGLGS(0.016)GS(0.603)S(0.	3	-0.47299	17075.6	16201.4
Sgip1	0.743588	8.40E-99	119.94	LPPGKPGVGDVS(0.011)RPF(0.86:	5	-0.47354	41916.7	40625.3
Trip12	0.996898	0.0310661	48.527	DDS(0.003)LDLS(0.997)PQGR	2	1.2373	8550.1	8029.2
Slc16a1	0.99474	8.19E-163	196.68	SKES(0.004)LQEAGKS(0.995)DANT	5	-0.40178	136824.2	142116.3
Cc2d1b	0.826127	3.69E-10	86.777	AS(0.008)S(0.154)S(0.826)KES(0.0	3	-0.081844	23737.9	25690.8
Slc9a3r1	0.828916	5.96E-53	138.28	S(0.005)AS(0.159)S(0.829)DT(0.00	3	0.13313	16598.5	14589.0
Emc7	0.597222	0.00330355	41.838	S(0.003)S(0.003)GKS(0.597)S(0.24	3	-0.43451	12005.5	16619.4
Ubxn1	0.520251	1.00E-08	47.73	S(0.419)S(0.512)PPAT(0.077)DPGF	3	0.96732	10994.1	11084.3
Zcchc8	0.793822	5.89E-07	77.372	SSSQS(0.044)S(0.794)PNS(0.161)P	3	0.28992	19953.5	17500.2
Scn1a	0.560401	0.00323482	56.205	LS(0.149)DS(0.096)S(0.149)S(0.04	2	0.79303	12291.8	12296.4
Lrrk2	0.711053	0.000420388	52.372	QS(0.005)DS(0.044)S(0.133)S(0.00	2	-1.876	5062.9	5008.1
Txndc11	1	7.65E-06	45.885	GGGGGNN(1)EDAEDGGGPK	3	-1.0927	1969.9	1782.7
Ptpru	0.656557	2.14E-18	99.371	KGS(0.3)PY(0.043)HT(0.657)GQLH	5	0.038302	22381.8	24448.0
LOC102551	0.999934	9.11E-09	55.302	ALAS(1)PEQLAQLPSSGLPR	3	0.17209	3218.7	3347.7
Fbxw8	0.956455	7.83E-69	136.1	S(0.044)RS(0.956)PPDRDAAEPEPL	3	-0.45585	55742.3	56313.4
Nefh	1	3.18E-17	136.33	S(1)PVEEVK	2	-1.6858	4498190.6	4623386.3
Chd3	0.989061	1.03E-40	123	METEIDS(0.989)PS(0.011)PAPSLGI	3	0.37279	13963.9	14892.8
Pou2f1	0.798766	1.41E-18	99.663	INPPSSGGTS(0.008)S(0.193)S(0.70	3	0.47092	16734.5	15728.7
Tbx3	1	0.000151144	51.405	VPGADEHRS(1)PGR	3	-0.040343	8553.3	9068.5
Epb41l3	1	9.48E-21	116.06	AQELDKT(1)QDELVK	3	0.12648	48010.1	44468.9
Hnrnpa1	0.802767	2.48E-07	69.224	S(0.803)ES(0.197)PKEPEQLR	3	0.19353	87734.7	96854.3

7958.1	6981.1	7402.5	7184.1	0.0	0.8	626
7958.1	6981.1	7402.5	7184.1	0.0	0.8	627
8722.3	9852.4	9685.7	9268.5	0.0	0.7	39
11838.8	12013.8	14360.4	12506.0	0.0	0.8	425
42422.8	47548.0	46587.5	50546.0	0.0	0.8	606
12919.4	13466.8	11997.7	13720.0	0.0	0.7	809
10286.4	10630.0	10907.6	10243.0	0.0	0.4	114
13048.3	13520.7	9618.2	11708.0	0.0	0.9	792
7113.7	7397.2	7283.6	7595.3	0.0	0.5	445
29698.2	31016.7	30740.6	27899.0	0.0	0.7	483
11413.0	12020.4	12657.0	11808.0	0.0	0.6	6
6046.8	6466.8	5736.7	6137.8	0.0	0.7	936
17079.0	16375.1	18994.1	16852.0	0.0	0.8	1836
16725.5	16937.2	16972.2	16924.0	0.0	0.3	20
37911.9	39428.1	41712.4	41315.0	0.0	0.7	520
8030.9	7635.3	8554.9	8829.3	0.0	0.8	1024
127331.2	138033.9	154419.0	120580.0	0.0	0.8	220
25396.0	25016.4	25449.8	25604.0	0.0	0.5	517
16383.8	17065.9	15917.5	15380.0	0.0	0.8	288
12731.0	12316.2	17112.2	12616.0	0.0	0.9	153
9696.3	11236.1	10784.8	10283.0	0.0	0.8	199
18301.2	18434.2	18325.1	19924.0	0.0	0.7	206
12263.6	12085.3	12523.4	12857.0	0.0	0.4	487
4575.2	4349.2	5237.9	5303.1	0.0	0.8	975
2180.4	1718.7	2124.4	2189.0	0.0	0.9	15
23553.1	22143.3	23373.4	26041.0	0.0	0.8	857
3579.9	3460.4	3860.8	2994.5	0.0	0.8	362
55790.4	58538.8	56647.7	55463.0	0.0	0.4	84
4679208.0	4872051.5	4596558.0	4562700.0	0.0	0.5	872;842
14839.0	14352.3	15410.9	14664.0	0.0	0.6	1708
15597.0	16336.6	15602.2	16927.0	0.0	0.6	473
8898.8	8302.3	9076.2	9586.8	0.0	0.7	438
49710.3	46464.5	50613.1	47497.0	0.0	0.7	740;722
80336.8	91866.4	89298.0	88209.0	0.0	0.8	4

Cct3	0.734836	8.80E-05	67.519	IVLLDS(0.265)S(0.735)LEYK	2	0.021253	8428.5	10294.5
Ksr2	0.990122	6.65E-07	80.387	LKPPGT(0.99)PPPS(0.004)S(0.006)	3	0.11465	29353.0	30861.7
Bet1l	0.720676	1.85E-06	41.047	YLDGMD(0.001)DFT(0.009)S(0.001)	4	-0.33052	3142.0	4772.6
Dab2ip	0.999347	5.02E-67	96.461	T(0.001)LDGEAGS(0.999)PVGPEAL	4	1.0125	6536.0	7131.0
Fyn	0.69909	2.54E-13	113.07	DGS(0.253)LNQS(0.699)S(0.047)G	2	-0.18348	8730.8	8984.1
Dock7	0.626923	1.82E-110	173.34	S(0.372)RS(0.627)LS(0.001)NSNPC	3	0.10707	10101.3	12126.4
Srrm2	0.716138	3.73E-24	92.932	S(0.001)EQPLS(0.092)QVLPT(0.716)	3	0.23885	35793.5	34958.7
Mme	0.980753	1.97E-48	120.41	GRS(0.013)ES(0.981)QMDIT(0.006)	3	0.13497	107610.7	110174.1
Mark1	0.994645	6.85E-36	102.66	CRNS(0.995)IT(0.004)S(0.001)ATD	3	-0.88887	6483.9	7070.7
Aldoa	0.910073	1.33E-98	193.64	GILADES(0.91)T(0.089)GS(0.001)	4	0.21767	316537.1	376669.6
Pitpnm1	0.985539	1.12E-10	51.783	TAGT(0.001)PDGPEAPPGPDAS(0.985)	3	1.1386	24638.4	25587.7
Ccnl2	0.62856	4.02E-05	70.68	GS(0.01)KS(0.629)S(0.36)PLS(0.001)	3	1.0711	48020.9	51053.7
Zzef1	0.537594	0.000119143	44.468	AIT(0.462)PS(0.538)PEQVFAECSQI	3	0.027151	8409.6	6883.9
Nrp2	0.902953	0.000278999	73.927	KT(0.038)DHS(0.903)IT(0.059)YK	3	-0.69823	42640.7	44813.4
Atp2b1	0.756707	1.84E-10	89.636	S(0.757)S(0.212)LY(0.001)EGLEKP	3	0.32446	22780.2	21906.5
Vars	0.740551	5.19E-08	59.585	S(0.741)VT(0.256)QQPGS(0.004)E	3	1.0282	13142.1	13326.4
C2cd5	0.780313	2.40E-31	69.729	AS(0.78)T(0.22)DNEDGLQFPLELCS	4	0.78496	10950.2	10539.7
Ppp1r3g	0.975876	1.35E-12	71.08	S(0.024)FS(0.976)LPADPILQAAK	3	-0.19528	5014.0	3520.7
Zcchc6	0.984141	1.69E-12	66.636	DATAEQQEAGS(0.984)DS(0.015)E	3	0.59199	3873.6	4106.7
Rnf146	0.575881	2.04E-27	79.426	QEIPEDFLDKPT(0.424)LLS(0.576)P	4	0.0055515	11251.5	11703.0
Slc16a4	0.881835	1.81E-23	92.563	NKGS(0.026)JLS(0.882)AT(0.092)G	3	1.0436	24566.8	22720.4
Tcof1	0.801837	4.76E-28	84.127	KS(0.001)T(0.011)LS(0.181)S(0.801)	3	-0.87138	19703.1	17596.7
Foxo1	0.86874	6.12E-13	107.46	T(0.112)S(0.016)S(0.869)NAS(0.001)	2	0.09786	13420.0	10836.1
Sgip1	0.748408	1.19E-32	95.996	T(0.166)GS(0.748)PLT(0.085)VATC	3	0.28242	60309.0	67836.5
Pclo	0.768899	1.74E-12	60.95	AATAPT(0.003)AT(0.046)AS(0.182)	4	0.49399	8583.5	8044.3
Pclo	0.874012	1.74E-12	60.95	AATAPT(0.003)AT(0.046)AS(0.182)	4	0.49399	8583.5	8044.3
Ahnak2	0.790622	2.28E-16	67.496	LAEDQPTDAET(0.105)S(0.105)AQ/	3	-0.059219	11296.1	11214.9
LOC10369	0.827349	1.42E-20	103.28	VPDRDS(0.827)PS(0.172)HSSPER	3	1.7342	25633.1	26460.9
Slc4a4	0.785008	4.06E-12	67.76	NLT(0.785)S(0.288)S(0.485)S(0.44)	4	-0.11389	23705.7	18221.9
Jph3	0.999263	4.12E-05	48.053	QSVPY(0.001)GMAAVIRS(0.999)PI	3	-0.4644	5192.8	5077.2
Agap3	0.590624	9.06E-06	66.215	ATPS(0.002)T(0.032)APGT(0.591)S	3	0.046536	10751.8	10789.3
Ckm	0.999322	1.17E-12	67.194	SQEEY(0.001)PDL(0.999)KHNNHI	4	-0.52286	30560.0	37645.0
Prrc2a	0.75264	1.38E-26	83.064	T(0.124)AS(0.753)ET(0.119)RS(0.001)	3	-0.39958	42570.3	44181.5
Rbm15	0.565439	7.73E-05	89.301	LHS(0.005)YS(0.421)S(0.565)PS(0.001)	2	0.6132	7349.4	8038.1

8831.2	9749.2	9355.8	8912.0	0.0	0.8	244
27710.5	29641.7	31459.8	28300.0	0.0	0.7	290
4508.4	3977.3	4668.6	3985.7	0.0	0.9	70
7468.8	7343.3	6767.9	7379.6	0.0	0.7	735
9186.4	9249.5	8980.2	9123.5	0.0	0.4	25
10328.5	9480.7	12485.0	11138.0	0.0	0.9	896
39501.4	35991.8	37314.9	38801.0	0.0	0.7	1216
112894.6	105988.8	112132.8	118120.0	0.0	0.7	6
5296.2	6735.1	6355.3	6077.6	0.0	0.9	46
352279.4	326259.0	391818.3	345020.0	0.0	0.8	36
25828.2	25575.2	25196.5	26565.0	0.0	0.5	300
44403.0	46910.0	50646.2	48341.0	0.0	0.7	346
7474.2	8338.6	7596.7	7216.7	0.0	0.8	2079
46936.9	42894.0	46212.4	47553.0	0.0	0.7	869
23805.4	22637.2	23531.5	23483.0	0.0	0.6	1155;1104
13725.4	13377.7	13984.3	13513.0	0.0	0.4	215
10166.5	10431.5	9969.4	11792.0	0.0	0.8	783;808
3617.9	3901.7	4396.7	4060.2	0.0	0.9	81
3696.8	4336.8	3243.0	4295.3	0.0	0.9	747
11362.9	11055.7	12639.9	11204.0	0.0	0.7	92
23966.2	22961.7	24810.7	24691.0	0.0	0.6	216
18366.1	19074.4	19169.3	18368.0	0.0	0.7	1165
12650.1	12627.5	12450.8	12456.0	0.0	0.8	313
67852.8	65068.1	65234.3	69035.0	0.0	0.7	293
9532.0	8469.9	8865.3	9270.4	0.0	0.8	609
9532.0	8469.9	8865.3	9270.4	0.0	0.8	617
11988.9	10967.3	11523.2	12598.0	0.0	0.7	1070;1063
23983.2	25133.0	25433.7	26809.0	0.0	0.7	321
20252.7	21366.7	20207.0	21668.0	0.0	0.8	254;254
4475.1	5905.6	4549.1	4542.3	0.0	0.9	158
11607.8	10692.4	11189.8	11833.0	0.0	0.7	106
32672.8	29966.2	38108.9	34528.0	0.0	0.9	24
41059.0	45454.7	46098.1	38445.0	0.0	0.8	1088
7558.0	8391.9	7191.8	7754.8	0.0	0.8	127

Epb41l1	0.994806	4.00E-29	117.3	GT(0.005)VS(0.995)PPAVEPETEDR	2	0.19445	24168.5	22913.5
Ahnak2	0.694937	1.39E-277	232.12	DLS(0.137)PT(0.695)S(0.137)T(0.0	3	-3.287	153998.8	159063.6
Ralgapb	0.930968	1.10E-32	108.47	LSMPQS(0.009)AAVNT(0.06)T(0.9	3	-0.046915	52956.2	53509.7
Mical3	0.94876	7.67E-05	43.768	S(0.021)RPAPS(0.949)PGKEPGLEA	4	-1.2251	12597.1	12991.9
Ahnak2	0.992161	1.42E-06	47.564	MPS(0.992)FGVS(0.008)VPGKPTVI	4	0.17295	9417.5	8455.7
Tph2	0.959591	6.19E-15	55.406	RGLS(0.96)LDS(0.04)AVPEEHQILG	4	0.4389	5882.3	7093.7
Tnik	0.923312	1.28E-21	78.428	ANS(0.923)KS(0.167)EGS(0.885)P	4	0.8894	152770.3	151374.2
Ap1m1	0.964281	2.72E-41	112.88	LETGAPRPPAT(0.964)VT(0.035)NA	3	0.10658	32223.8	28811.6
Prx	0.999997	1.50E-38	107.65	GS(1)KGQEGDAASK	2	-0.60322	115551.6	108912.7
Phf3	0.568919	8.99E-26	75.588	S(0.11)T(0.11)FS(0.569)PT(0.212)F	3	2.0471	10497.2	10642.9
Tenc1	0.999679	1.23E-20	103.88	S(1)PSLAPTQR	2	0.0063702	37278.4	37313.8
Arhgap21	0.707873	4.57E-11	91.781	T(0.052)QS(0.241)PHS(0.708)PKEE	3	-0.1503	25730.9	31320.2
Mapk8ip3	0.653906	6.96E-06	64.104	T(0.115)GS(0.654)S(0.115)PT(0.11	3	0.58395	4285.1	4309.3
LOC10036	0.999876	0.00230541	63.816	RS(1)PPTTK	2	2.3258	22490.4	21469.9
Bmp2k	0.958479	0.0047076	60.691	GGES(0.007)S(0.035)S(0.958)LRR	2	1.1426	9463.7	9522.4
Nes	1	2.81E-08	41.017	AVGNEQMAVS(1)PPEKVDPELPKPL	4	-0.30781	7486.9	6517.6
Kif13b	0.999265	0.000648056	71.159	S(0.076)IS(0.301)S(0.624)PS(0.99	2	0.52291	38901.6	40917.1
Caskin1	0.973215	2.66E-08	116.19	IQGS(0.973)PT(0.027)PASK	2	-0.82968	61869.1	65538.5
Wdr20	0.946661	9.18E-05	80.632	S(0.947)S(0.034)DKLNLVT(0.019)K	3	0.16286	133031.5	119684.4
Hebp1	0.9356	2.45E-10	61.477	IPNQFQGS(0.936)PPT(0.06)PS(0.0	3	0.064644	8165.0	7788.1
Slc16a1	0.91722	6.49E-09	48.286	ET(0.077)QS(0.917)PAPLQNS(0.00	3	-0.14107	14894.2	17694.3
Hk1	0.992365	0.00309879	48.405	T(0.002)T(0.005)VGVDGS(0.992)L'	2	-2.6758	7842.3	8412.9
Gatad2a	0.605646	0.00122312	44.318	GVLHT(0.011)FS(0.384)QS(0.606)F	3	1.3924	13471.3	17376.2
Sh3pxd2a	0.549063	0.000159186	82.774	RT(0.549)S(0.451)PASSLQR	2	-0.34218	9311.5	9917.8
Dync1li2	0.99304	1.76E-27	102.89	GGPASVPS(0.002)AS(0.993)PGT(0	3	-0.19566	48315.4	50740.0
Peak1	0.999959	2.73E-05	58.079	VTHEVAEELS(1)PR	3	0.042249	20514.1	20437.7
Gse1	1	0.000108522	52.172	ERS(1)PS(1)PPAIQCK	3	-0.28909	22963.9	22737.9
Gse1	1	0.000108522	52.172	ERS(1)PS(1)PPAIQCK	3	-0.28909	22963.9	22737.9
Otud3	0.998203	2.91E-27	102.98	T(0.002)QGDS(0.998)LRDDMEDA\	3	-0.57826	43333.6	41364.7
Hectd1	0.9244	4.09E-21	104.47	EAASQRPLS(0.924)S(0.074)S(0.00	3	0.35107	14612.7	15715.5
Mapkap1	0.961577	0.00208056	96.946	RT(0.962)S(0.038)FSFQK	3	0.098441	89164.7	82327.8
LOC10255	0.763798	1.64E-66	123.29	ISSTSSHIDCLPS(0.034)T(0.034)S(0.	4	-0.01215	19824.7	21956.9
Sap130	0.943305	1.81E-05	51.495	S(0.002)AS(0.044)GS(0.943)PRPA	4	0.17556	36051.1	37874.3
Psd	0.554651	7.86E-05	61.11	S(0.445)LS(0.555)ELADPNPK	3	0.90319	7285.1	8005.8

25108.5	24305.8	24215.5	24906.0	0.0	0.6	968;960
155703.9	148901.5	169967.8	157930.0	0.0	0.7	267;267
54625.7	53092.9	56381.7	54378.0	0.0	0.4	313
13673.2	10964.6	15513.5	13457.0	0.0	0.9	1634
8190.9	8139.5	9261.9	9109.6	0.0	0.8	1161;1154
7081.7	6953.8	6564.8	6883.3	0.0	0.8	19
159025.6	151838.4	155733.5	163550.0	0.0	0.6	680
27084.5	31120.1	29831.2	28683.0	0.0	0.8	152
108742.5	103524.9	120468.2	114940.0	0.0	0.7	1312;1312
11459.8	10727.7	11514.6	10918.0	0.0	0.7	1080
38766.8	36219.5	38972.4	40117.0	0.0	0.6	908
29492.7	26727.9	28673.9	32634.0	0.0	0.8	1102
3611.2	3853.5	4137.8	4424.7	0.0	0.8	373
24571.9	22450.2	24287.1	22978.0	0.0	0.7	216
10346.9	9354.7	9650.5	10835.0	0.0	0.8	769
8569.3	6827.3	8637.1	7500.1	0.0	0.9	1101
44414.7	39926.3	43640.2	42817.0	0.0	0.7	1457
56690.1	65584.0	64686.1	57014.0	0.0	0.8	1172
128832.3	128222.3	130770.0	129170.0	0.0	0.6	430
7743.0	7909.7	7731.0	8466.4	0.0	0.6	111
15890.8	18373.7	15019.8	15927.0	0.0	0.8	476
7305.7	9672.8	6938.9	7358.1	0.0	0.9	415
15773.7	17685.2	15573.3	14172.0	0.0	0.9	546
8806.1	9070.0	9777.2	9674.7	0.0	0.7	540
48853.2	51073.3	48549.6	50858.0	0.0	0.5	407
22603.4	21983.8	20320.3	22357.0	0.0	0.7	1048
21684.6	22825.3	21783.2	23951.0	0.0	0.6	723
21684.6	22825.3	21783.2	23951.0	0.0	0.6	725
43046.7	42533.2	43928.7	43509.0	0.0	0.4	222
17462.3	15707.4	16250.9	16666.0	0.0	0.8	1391
84180.2	83645.3	87113.7	89375.0	0.0	0.6	473
21165.1	22012.4	22405.2	19628.0	0.0	0.7	522
33955.7	36358.1	38103.6	35303.0	0.0	0.7	684
7449.4	8382.8	7312.4	7442.2	0.0	0.8	721



Rsrc2	0.999993	2.65E-19	138.05	EQSDISVS(1)PR	2	-1.4667	186129.6	202029.8
Cbarp	0.993858	0.0292928	55.353	RDY(0.006)S(0.994)IDEK	2	-0.19956	12309.6	11255.4
Rps20	0.961167	1.28E-05	51.786	DT(0.039)GKT(0.961)PVEPEVAIHR	4	1.2401	13969.9	13209.0
Alpk1	0.524832	1.56E-06	57.148	VCS(0.303)QDS(0.525)GS(0.146)TI	3	1.154	14302.6	14440.9
Samd14	0.991238	2.31E-58	106.88	S(0.002)PLHS(0.007)GPGS(0.991)F	3	-0.98149	12656.7	13168.5
Lrwd1	0.998029	6.46E-37	76.938	VRAS(0.998)PPAQT(0.002)EDSPM	6	-1.8144	6997.2	6716.6
Tanc2	0.726473	1.87E-15	85.51	S(0.126)S(0.126)S(0.726)QLGS(0.0	3	0.56896	9422.2	9439.5
Klc2	0.999804	4.40E-21	80.994	S(1)VEEPVQPGGTGLSDSR	3	-1.3225	52717.6	54753.6
Epn1	0.861247	4.11E-101	154.86	TALPTS(0.002)GS(0.116)S(0.861)T	3	0.031054	5157.4	5466.0
Pitpnm2	0.593898	3.30E-09	71.601	GAS(0.889)PS(0.594)RHS(0.475)IS	3	-0.16867	35266.3	36211.4
Dmxl2	0.851154	3.44E-33	110.74	AAEGIS(0.851)S(0.14)DS(0.009)LL	3	1.0895	21915.5	17698.7
Scn11a	1	0.000360643	59.198	GLS(1)CHFLCHK	3	-0.83542	17890.2	21236.3
Vars	0.994988	0.0063186	61.958	AAS(0.995)GYS(0.005)AK	2	1.3693	19861.7	20562.8
Clmn	0.987561	1.20E-47	140.2	S(0.012)HS(0.988)EEGLDFKPSPLS	4	1.6416	26073.2	26671.5
Ints1	0.896791	6.53E-06	68.761	LS(0.007)S(0.096)T(0.897)PPLS(0.0	2	0.92802	18746.5	22102.8
Dmtn	0.938183	3.88E-21	102.5	S(0.031)T(0.031)S(0.938)PPPSPEV	3	-1.1797	67815.8	61567.6
Snw1	1	9.38E-33	111.66	GPPS(1)PPAPVMHS(0.98)PS(0.02)	4	-0.17117	181847.8	187407.9
Zc3hc1	0.998248	2.05E-54	97.469	DTSATFQSVSDGS(0.998)PQAEQPPL	3	1.8336	55716.0	56380.3
Phf6	0.569146	0.000397195	66.663	S(0.41)S(0.569)PNDT(0.021)RPK	3	-0.33668	8339.1	8710.7
Pikfyve	0.963585	1.33E-40	123.61	S(0.028)S(0.008)S(0.964)PIRLPEVS	3	-0.2861	50040.1	50998.9
Srrm1	0.996017	1.51E-06	81.651	T(0.015)RHS(0.988)PT(0.996)PQQ	3	0.3262	1920.8	1313.7
Tp53i11	0.996626	3.52E-08	115.12	KHS(0.997)QT(0.003)DLVSR	2	-0.22145	94312.3	101465.7
Cttnal1	0.999783	0.000152791	73.951	HPS(1)CESAHK	3	-0.32695	8576.8	10198.5
Sox8	0.703097	7.19E-21	76.378	GAPS(0.001)AS(0.161)AS(0.703)PT	4	0.24661	11028.3	12748.3
Fam53b	0.936811	0.000329042	57.148	S(0.063)RS(0.937)QPCVLNDK	3	-0.59103	61229.8	58047.6
Tiam1	0.745156	1.27E-11	67.645	T(0.005)ES(0.13)LPS(0.745)AQQY(	2	-1.471	4946.5	6149.1
Pdha1	0.998792	4.04E-17	93.424	YHGHS(0.958)MS(0.044)DPGVS(0.	3	0.20953	202505.0	197927.3
Rnps1	1	0.00842945	62.546	RFS(1)PPRR	3	-0.0046617	13697.9	14918.0
Slc9a3r1	0.997958	1.90E-70	165.06	EALVEPAS(0.002)ES(0.998)PRPAL	4	-0.5796	50932.2	56071.0
Ppfia3	0.999907	1.15E-38	124.77	GEGPAIPGDT(1)PPPTPR	2	-0.3344	54214.4	56604.1
Akap12	0.915216	2.71E-15	58.952	ES(0.001)T(0.001)EVQS(0.078)LS(0	4	-0.86428	6100.2	5804.3
Hivep3	0.605758	2.05E-09	58.952	S(0.022)AS(0.359)EQS(0.606)PNVI	3	1.1716	2481.0	2523.2
Rab3il1	0.967538	0.020357	67.838	S(0.022)S(0.01)S(0.968)MEIR	2	0.22424	39849.8	37119.6
Mapk8ip3	0.706382	2.38E-32	75.047	S(0.221)NT(0.706)PT(0.071)S(0.00	3	-0.42118	34540.0	34493.6



194307.8	193977.9	208471.1	190190.0	0.0	0.7	32
12865.1	11995.1	13752.4	11319.0	0.0	0.8	270
13525.2	13630.7	13566.4	14218.0	0.0	0.5	9
14757.0	15582.0	14681.0	14000.0	0.0	0.6	515
12481.9	12479.0	13610.2	12890.0	0.0	0.6	92
6726.1	6862.3	7165.7	6770.9	0.0	0.5	239
9878.4	9499.4	9831.5	9914.1	0.0	0.4	1816
53948.6	52484.6	56425.5	55346.0	0.0	0.5	589
5271.9	4980.7	5987.4	5206.8	0.0	0.8	419
33477.7	36964.1	35098.5	34740.0	0.0	0.6	318;294
19632.0	20945.4	19845.8	19498.0	0.0	0.8	913;931
17857.2	18603.6	19184.3	20199.0	0.0	0.8	1002
18896.3	19834.5	21039.5	19492.0	0.0	0.6	1225
27827.6	24041.8	30818.6	27132.0	0.0	0.8	768
20702.0	21019.1	21211.5	20406.0	0.0	0.7	110
70730.6	67689.3	69289.8	66664.0	0.0	0.7	92
174186.1	185860.2	185837.2	181330.0	0.0	0.5	224
55003.7	58870.9	55345.1	55837.0	0.0	0.4	62
8647.2	8584.6	7816.2	9750.7	0.0	0.8	124
46528.0	47313.7	57362.7	45503.0	0.0	0.8	1688
1474.4	1657.7	1641.1	1493.4	0.0	0.9	331
94959.7	109751.8	85705.2	100430.0	0.0	0.8	14
8569.2	8673.4	8831.5	10324.0	0.0	0.8	209
12463.8	12820.0	12915.6	11147.0	0.0	0.8	338
55260.2	56852.5	61180.9	59598.0	0.0	0.7	239
6238.8	5418.5	6180.3	6043.3	0.0	0.8	1409
186993.7	184364.2	213664.7	199830.0	0.0	0.7	300
12996.1	13906.8	15106.4	13338.0	0.0	0.8	228
52588.0	54580.0	55422.0	52425.0	0.0	0.6	277
56442.0	55598.6	59019.1	55616.0	0.0	0.5	712
6959.7	5970.8	6789.0	6439.8	0.0	0.8	1289
2737.5	2332.1	2698.2	2849.1	0.0	0.8	983
39762.2	38530.5	39702.3	40576.0	0.0	0.6	69
35353.6	35738.8	35118.8	35388.0	0.0	0.1	284

Acap2	0.529444	1.20E-12	70.748	S(0.03)S(0.03)PS(0.407)T(0.529)G	3	-0.81313	15262.7	15703.4
Sec16a	0.995281	9.78E-22	73.574	SPDPEMV PQGS(0.005)PVRHS(0.9	4	0.5551	21426.5	23137.2
Cast	0.78501	3.08E-19	76.817	IES(0.013)EKS(0.155)QS(0.785)S(0	4	0.31837	103494.8	103360.1
Stx2	0.748834	0.000106246	50.358	KS(0.749)DDGDNAVIIT(0.251)VEK	3	0.39968	5665.7	6540.2
Zgpat	1	2.02E-10	89.358	GKS(1)LDQCAEILQK	4	-2.6112	25560.3	26738.4
Vapa	0.991054	1.43E-43	128.1	VAHS(0.001)DKPGS(0.991)T(0.007	4	0.45288	6032.7	6515.1
Map2	0.999272	1.05E-14	113.82	KSEVQAHS(0.999)PS(0.001)RK	3	-0.11664	343622.9	363309.2
Abl1	0.818003	0.00443239	49.333	S(0.031)CS(0.151)AS(0.818)CMPH	3	-2.7234	4046.0	4401.9
Syde1	0.764412	9.41E-15	56.783	VLEGSQAGA E V P L S ( 0 . 1 3 ) P E T ( 0 . 1 0 5	3	-0.35893	10647.9	11466.1
Ccdc102a	0.87229	6.73E-15	81.713	SLLT(0.003)JLGS(0.124)PS(0.872)	3	0.99181	8813.4	8517.4
Sox6	0.743473	1.94E-10	65.949	NT(0.004)S(0.083)T(0.17)S(0.743)	4	-2.1431	11075.3	10376.4
Kcnh7	0.743061	1.87E-10	49.967	ALIQPSQCS(0.003)PLVNIS(0.009)C	4	1.7082	9962.3	9138.7
Sp4	0.978979	8.53E-22	73.448	TSGS(0.001)QDS(0.02)QPS(0.979)	4	0.81124	10800.9	9164.7
Phf12	1	1.01E-55	133.17	VLT(1)PPQAAGDSILATGANQR	3	1.0431	14246.6	12348.0
Zswim8	1	0.000568876	94.584	RLS(1)AEGDK	2	-0.21427	45738.1	42472.5
Micall1	0.774071	2.08E-05	71.558	KPS(0.11)PS(0.136)T(0.774)S(0.90	3	-0.024049	64543.0	61666.4
Sox6	0.716619	2.02E-06	44.683	MPST(0.001)PQPPNS(0.007)AGAV	4	0.4309	9028.6	9683.6
Prkaa1	0.861699	0.00291765	99.788	S(0.044)GS(0.862)IS(0.094)NYR	2	0.093088	32043.7	29425.8
Cd2bp2	0.999999	4.04E-11	91.355	GTGRPNS(1)PQRLDR	4	0.31945	7198.2	7123.1
LOC10036	0.999997	1.47E-14	78.917	RMS(1)GEP IQ T V E S V R	3	-0.065669	11308.6	11372.8
Rpl23	0.865933	0.00339644	51.998	GRGGS(0.866)S(0.134)GAK	3	0.68751	6277.1	6778.4
Lphn3	0.978456	1.52E-13	68.42	GGDAEDVY(0.004)Y(0.015)KS(0.97	3	1.5517	24106.4	24115.7
Supt3h	0.651185	2.24E-46	104.01	KKS(0.139)T(0.651)AACGVEAHS(0	5	0.62853	14724.8	15034.3
Rbm17	0.549097	1.21E-36	103.03	S(0.449)PT(0.549)GPS(0.001)NSFL	3	1.1074	9927.3	8942.8
Dnajc6	0.930651	1.68E-15	128.73	AT(0.001)T(0.016)S(0.052)AS(0.93	2	0.49775	34332.5	35396.3
RGD13115	1	0.000584595	49.988	QKEGT(1)PAREEK	4	0.39892	22612.0	21956.9
Ston2	0.752634	1.10E-12	67.579	GAS(0.753)FGS(0.247)AGASGSEPV	3	-0.52853	5225.6	5044.6
Nek1	1	7.71E-66	153.1	S(1)PEEAIPR	2	0.76271	87759.7	82583.4
Plekha4	0.8411	2.85E-13	75.143	NQACGLSLPRPT(0.159)S(0.841)PR	3	-0.2657	30588.7	32390.8
Svil	0.814512	0.000237673	55.724	QQES(0.815)S(0.185)EQLAEK	3	-0.67977	6252.4	5313.1
Ahnak	0.997747	2.13E-06	48.896	GELDAT(0.002)VPNLEGDFKS(0.99	4	1.4389	12106.9	10124.0
Mapt	0.532093	1.21E-19	56.387	VS(0.003)AET(0.052)QAS(0.532)PI	5	0.51307	29280.3	26639.7
Peg3	0.985246	0.00102871	70.728	DLS(0.985)LPVMS(0.015)R	2	0.90802	10050.8	8530.5
Hecw2	0.910046	6.03E-34	146.26	ANS(0.09)DT(0.91)DLVTSESR	3	-0.374	56566.4	55413.9

14792.1	15415.9	15357.5	15800.0	0.0	0.4	382
21612.2	22622.9	22743.9	21989.0	0.0	0.5	2046
110701.5	102925.4	109589.4	110710.0	0.0	0.6	62
6821.1	6408.3	6173.3	6785.2	0.0	0.8	14
25967.7	26230.7	26300.4	27133.0	0.0	0.4	349
5717.1	6046.4	5659.2	6885.6	0.0	0.8	214
316581.9	358410.9	364001.5	319390.0	0.0	0.8	1568;1482
3957.8	4257.7	4071.3	4298.5	0.0	0.7	719
11266.0	10141.4	11649.3	12186.0	0.0	0.8	66
9292.7	9002.1	8880.2	9217.8	0.0	0.6	28
12151.8	11040.3	11959.2	11206.0	0.0	0.8	98
9671.4	9516.4	10565.4	9206.4	0.0	0.7	239
11998.5	11507.8	11103.2	9926.4	0.0	0.9	44
13068.5	12843.1	14871.2	12660.0	0.0	0.8	689
45536.9	45232.5	44241.9	46672.0	0.0	0.6	564
60469.5	62785.7	64675.4	62567.0	0.0	0.5	506
9374.1	8460.9	10041.6	10088.0	0.0	0.8	359
29966.5	31497.3	30080.2	31502.0	0.0	0.6	496
6522.5	6800.3	8356.3	6062.1	0.0	0.9	194
11598.2	10307.1	13051.3	11538.0	0.0	0.8	1073
5403.1	6120.9	6710.9	5958.9	0.0	0.8	9
22801.4	24134.2	27235.5	20933.0	0.0	0.8	1407
14923.1	14957.3	16437.9	14092.0	0.0	0.7	285
10241.5	9942.3	9675.0	10019.0	0.0	0.7	224
35184.3	35878.5	35539.9	35388.0	0.0	0.2	623;593
20053.6	21844.1	23355.2	20592.0	0.0	0.7	613
5565.7	4909.8	6024.7	5187.9	0.0	0.8	759
86526.6	85855.2	93574.7	82089.0	0.0	0.7	950
34181.4	34268.1	34084.4	30567.0	0.0	0.7	616;544;616
6780.8	6036.5	6477.3	6164.7	0.0	0.8	1009;641
11070.1	11163.5	10859.6	11882.0	0.0	0.8	2846
32077.7	29514.1	31031.3	29049.0	0.0	0.8	278;278
8703.2	9492.9	9437.7	8849.2	0.0	0.8	71
56434.5	53665.9	58806.4	59001.0	0.0	0.6	50

Dlg5	0.984449	0.000781786	60.045	GS(0.016)LT(0.984)PPKPPR	3	0.71504	22732.5	23959.9
LOC100911	0.997151	2.97E-14	109.07	RMS(0.997)ADMS(0.003)EIEAR	2	-0.64731	41128.4	39936.5
Itgb4	0.997832	2.39E-97	178.02	SLINEIS(0.002)AS(0.998)PPLPR	2	-1.1881	143109.6	143904.3
Itpr3	0.633842	2.63E-06	78.864	VS(0.057)S(0.23)FS(0.634)MPS(0.0	2	0.15247	14166.6	14301.6
Sash1	1	0.0544575	57.708	RFS(1)DPPK	2	-0.46302	22697.9	20189.8
Sox10	1	4.62E-67	103.14	AS(1)PGPGELGK	2	0.51042	294412.9	270608.9
Pcdh7	0.999999	4.10E-16	91.589	LSTFMPVDERGS(1)QEK	3	0.70627	29479.5	35942.6
Fbrsl1	0.999911	4.57E-05	94.767	ESHDYS(1)PER	2	-0.22524	4754.0	5140.9
Slc45a1	0.998692	5.43E-05	89.44	VGS(0.999)LDT(0.001)SKPR	2	-0.11084	43592.4	42817.0
Ank2	0.956211	2.36E-17	98.817	AT(0.037)S(0.956)PLIET(0.007)PI	2	-1.2193	28905.8	29812.0
Ppm1g	0.5	8.71E-32	92.01	KLEEALS(0.5)T(0.5)EGAEENGNSDK	4	-3.2686	101004.4	98555.6
Ppm1g	0.5	8.71E-32	92.01	KLEEALS(0.5)T(0.5)EGAEENGNSDK	4	-3.2686	101004.4	98555.6
Cdr2l	0.999723	0.00197094	52.247	LEQS(1)QPEYK	3	1.3169	14646.1	12569.5
Srsf4	0.999246	0.00273372	63.473	ARS(0.999)RS(0.968)T(0.025)S(0.0	3	1.092	22393.7	26843.7
C5ar1	0.837187	7.61E-07	86.014	S(0.837)T(0.125)MDT(0.037)S(0.0	3	2.5713	33405.8	40082.4
Prune2	0.809066	1.06E-105	140.57	KPGYQMTVLHIHEDPEALS(0.809)S	4	-0.45395	32444.5	33079.7
Igf2r	0.998731	5.51E-122	170.27	AEALTSLHGDDQDS(0.999)EDEVLT	5	-0.14586	225666.9	222739.5
Fcho2	0.801987	1.25E-93	130.33	LSGINEIPRPFSPITSNT(0.197)S(0.8	4	0.60115	12718.7	13030.3
Rtn4	0.873055	5.97E-07	68.972	S(0.126)LS(0.873)AVLS(0.001)AEL	3	-0.15364	2938.0	2494.9
Garem	0.903334	4.42E-20	103.66	S(0.048)PFGS(0.903)PS(0.048)AEA	3	-0.20009	26001.6	23943.5
Mapt	0.915959	3.08E-29	80.664	AKTDHGAEIVY(0.176)KS(0.916)PV	5	0.11903	152686.8	147600.9
Hnrnpa2b1	0.999832	5.37E-33	76.423	GGNFGFGDS(1)RGGGGNFGPGPGS	3	-1.3417	8726.8	8153.7
Anapc1	0.799419	8.62E-05	50.806	FNLS(0.045)S(0.799)HNQS(0.155)I	4	1.5477	5403.8	5725.9
Srrm2	0.5	6.02E-22	86.8	ILLPNS(0.5)S(0.5)QDELMEVEK	3	-0.12552	17290.3	16802.5
Srrm2	0.5	6.02E-22	86.8	ILLPNS(0.5)S(0.5)QDELMEVEK	3	-0.12552	17290.3	16802.5
Dgkh	0.999969	1.72E-22	144.38	TTPQS(1)PDAQASR	2	-0.29207	14856.0	14049.3
Pacsin1	0.858012	8.73E-43	91.67	AEGAALSNAT(0.009)GAVES(0.038	3	-0.050705	21121.2	21732.1
Cyp17a1	0.688942	0.0495533	43	S(0.311)KT(0.689)PGAK	3	0.93603	22889.9	21984.4
Large	1	0.000638416	103.08	ERES(1)LEVR	3	0.45331	4734.7	5251.8
C2cd2l	0.988094	1.97E-22	91.166	VDGKLDLS(0.988)PS(0.012)R	2	0.50177	298301.1	268908.7
Camsap1	0.991638	5.51E-58	118.52	TDVS(0.008)PHS(0.992)PEIPR	2	1.9212	78524.8	82569.2
Prrc2b	1	5.84E-05	89.231	EVPRS(1)PGIEK	2	-0.32338	79727.0	81613.8
Ubr4	0.5	3.43E-24	92.474	AAPPPPPPPPLES(0.5)S(0.5)PR	4	-0.09983	43735.6	43090.1
Bcl9	0.778906	8.23E-05	52.712	IPVEGPLS(0.779)PS(0.221)R	2	-0.24877	24601.4	23733.9

23684.0	23099.2	24817.1	23739.0	0.0	0.5	905
40436.2	39598.5	43411.5	40699.0	0.0	0.6	389
157396.7	146547.6	159110.4	146830.0	0.0	0.7	1121
13392.1	14211.5	14177.7	14233.0	0.0	0.4	1834
22014.7	23212.4	21319.4	21552.0	0.0	0.7	897
319105.1	309594.7	298002.0	292630.0	0.0	0.7	45
33407.4	33603.8	33841.8	33184.0	0.0	0.8	1177
4864.0	4875.0	5064.5	5088.6	0.0	0.5	524
48388.0	42088.9	52610.4	42557.0	0.0	0.8	443
32991.1	29562.5	33435.7	30384.0	0.0	0.8	1748
101967.2	100652.9	102387.8	103990.0	0.0	0.3	524
101967.2	100652.9	102387.8	103990.0	0.0	0.3	525
13164.3	12592.3	13741.7	14783.0	0.0	0.8	382
20761.6	22246.7	26566.5	22464.0	0.0	0.9	438
35933.8	36035.8	40139.3	35245.0	0.0	0.8	340
34368.8	34490.3	34117.5	33110.0	0.0	0.4	2202
218081.3	228087.6	227001.3	223580.0	0.0	0.2	2399
12041.1	12396.5	12788.5	13296.0	0.0	0.6	541
2825.2	2390.3	3032.4	2986.5	0.0	0.8	964
25759.0	24039.6	26544.0	26506.0	0.0	0.7	529
154564.7	150474.5	158640.2	154070.0	0.0	0.4	610;725
8532.4	8543.2	9194.6	8140.8	0.0	0.7	212
4944.6	5805.4	5617.9	4945.7	0.0	0.8	373
17783.8	17156.1	17629.4	18042.0	0.0	0.5	1195
17783.8	17156.1	17629.4	18042.0	0.0	0.5	1196
13555.0	15793.2	14236.5	13209.0	0.0	0.8	676
22307.4	20978.4	22399.8	22977.0	0.0	0.6	336
18910.2	28468.1	18803.9	17684.0	0.0	0.9	22
5226.9	5020.7	4965.8	5506.9	0.0	0.7	64
273506.5	282403.7	301229.3	272560.0	0.0	0.7	464
77839.2	79652.5	83215.3	80466.0	0.0	0.5	565
78397.0	83710.2	80867.5	79577.0	0.0	0.4	555
42207.7	40760.1	46771.3	43880.0	0.0	0.7	620
21091.6	23307.0	24365.1	23036.0	0.0	0.7	612

Prdm2	0.986438	0.00051649	72.096	RT(0.014)AS(0.986)PPVLPK	3	1.0208	42985.4	43663.8
Cep170	0.993548	1.31E-73	157.47	HDDGT(0.006)QS(0.994)DSENAGV	3	0.21824	74156.0	77112.0
Trim2	0.989127	1.21E-56	171.36	SADVS(0.989)PT(0.01)T(0.001)EGV	2	0.23055	144159.2	159052.7
Specc1	0.67534	9.36E-24	66.1	AS(0.013)LS(0.156)PDAS(0.675)DF	4	2.5066	10200.0	9621.6
Pdzd2	0.653747	0.00534307	45.278	T(0.031)DFQS(0.654)S(0.316)DCLF	2	-2.2618	21982.3	23221.7
Agap1	0.541893	5.73E-06	65.043	ATSACAPIS(0.542)S(0.458)PK	3	0.67771	16734.5	15653.0
Pag1	0.526098	0.0381166	56.043	S(0.002)KS(0.175)T(0.297)S(0.526	2	0.055445	21384.7	19888.2
Wdfy3	0.691648	7.78E-07	40.456	SSVVT(0.002)S(0.003)LEGLGS(0.02	4	0.99797	11566.1	11721.6
Vapb	0.806772	2.38E-20	76.301	TEAPVAAKPLT(0.807)S(0.193)PLDI	3	-0.21893	12185.6	11152.3
Osbpl11	0.793073	2.40E-07	52.898	VS(0.207)ES(0.793)EGKLEGLATAV	4	3.1284	2068.5	1613.0
Tns1	0.993951	1.37E-29	87.088	AAS(0.006)DGQY(0.994)ENQSPEA	3	0.61825	6019.3	5977.9
Senp3	0.887192	2.68E-14	66.003	NHLSPQEGGAT(0.113)PQVPS(0.88	3	-1.5719	7443.3	7075.1
Stmn3	0.572777	9.03E-28	101.92	SPSDL(0.001)PES(0.009)PVLS(0.5	3	0.061742	35552.6	33357.2
Lrrc16b	0.999998	1.95E-31	85.849	LGS(1)QQDQEEPEGQVPSDLGR	3	0.48256	17920.0	15946.9
Fam126b	0.9985	1.14E-08	103.21	TAITT(0.001)AS(0.999)IR	2	0.958	32845.2	31062.4
Mllt4	1	4.69E-13	101.32	LPYLVELS(1)PGRR	3	-0.95417	3340.9	3270.1
Dpysl2	0.986539	3.51E-29	151.41	T(0.005)VT(0.042)PAS(0.389)S(0.5	3	0.10027	2015986.1	2054411.8
Wdr11	0.989027	5.93E-15	79.346	KVYIS(0.133)S(0.877)PHCS(0.989)I	4	-0.24468	121092.7	122942.2
Cox4i1	0.953738	0.0641312	51.445	LLS(0.954)AS(0.046)QK	2	-0.013867	18092.9	18536.8
Pcm1	0.9948	0.00277086	102.62	RNS(0.995)T(0.005)QLK	2	-0.40531	57954.7	52449.0
Il16	0.686385	3.47E-05	45.876	LLCLPS(0.006)S(0.022)AS(0.686)C	3	0.22704	5830.3	4941.2
Irs2	0.511768	1.66E-10	49.589	HS(0.512)S(0.457)ET(0.022)FS(0.0	4	-1.1919	7795.7	8152.2
Cyld	0.995414	0.000134507	64.121	FHS(0.995)LPFS(0.004)LTK	3	1.133	11507.9	12232.8
Mtmr6	0.790244	2.50E-11	55.827	AVEGS(0.21)S(0.79)PADNR	2	-0.33424	7463.1	6552.2
Coro6	1	8.34E-15	110.35	NILDVRPPAS(1)PRR	4	0.14434	41402.7	43580.4
Tns1	0.499996	3.99E-13	99.927	VS(0.5)S(0.5)PPPTITQQGK	2	0.80058	9634.1	10877.1
LOC10255	0.937501	1.14E-11	101.75	KAAS(0.938)S(0.062)ANLLLR	2	0.49533	39982.2	51535.3
Ctnna2	0.997094	5.84E-12	68.972	VYGTAAVNS(0.997)PVVS(0.003)W	3	-1.4632	19903.4	19641.4
Lysmd3	0.954446	3.39E-18	101.17	S(0.023)T(0.023)S(0.954)RDRLDDI	3	0.56503	30787.8	32818.6
Tenc1	0.961089	3.12E-05	73.082	RIEHLGS(0.961)T(0.039)K	3	-0.15254	15294.9	16689.6
Sh3bp5l	0.999986	1.62E-134	195.86	GLSDHAS(1)LDGQELGAQSR	3	1.8893	85435.2	88445.3
Pard3	0.986928	0.000399765	55.724	EGFGRQS(0.987)MS(0.013)EK	3	1.521	22039.5	24766.1
Ppapdc2	0.999993	0.0019585	117.3	ASDS(1)PVHR	2	-0.4362	18338.6	16839.8
Inpp5j	0.999369	2.05E-12	103.2	AAVS(0.999)PPS(0.001)ERPR	3	0.15828	55742.3	56418.7

46343.9	42402.3	45688.8	47357.0	0.0	0.7	553
67721.9	71372.0	85368.6	66294.0	0.0	0.8	378
138222.5	151926.4	153842.0	143820.0	0.0	0.7	445
10443.0	10280.3	10396.4	10147.0	0.0	0.5	328
18844.2	23910.9	21496.8	19824.0	0.0	0.8	320
14227.9	15627.1	16123.7	15726.0	0.0	0.7	910
19389.3	20108.4	20688.9	20986.0	0.0	0.6	205
11320.3	11522.1	12530.9	11195.0	0.0	0.6	996
12683.1	12219.5	12189.0	12280.0	0.0	0.6	158
2035.1	2009.5	1810.7	2002.3	0.0	0.8	21
5566.4	5399.7	6441.7	6048.0	0.0	0.8	1077
6879.8	6456.2	6934.8	8404.2	0.0	0.8	175
32507.8	34476.0	37047.7	31776.0	0.0	0.7	72
17573.0	16515.9	17901.9	17977.0	0.0	0.7	1231
29083.9	31828.4	30552.5	32337.0	0.0	0.7	321
2738.4	3187.6	3061.2	3274.3	0.0	0.8	391
1869404.9	2012486.3	2117411.0	1920300.0	0.0	0.7	521;622
111393.5	120005.6	123139.8	118890.0	0.0	0.6	209
16280.5	17699.5	17912.6	18282.0	0.0	0.7	56
54308.5	56317.9	56231.0	55228.0	0.0	0.6	1301
5625.6	5174.3	6179.0	5348.8	0.0	0.8	1004
8336.3	8117.0	8486.8	8132.3	0.0	0.5	1140
10448.9	12118.3	12561.9	10146.0	0.0	0.8	405
6798.1	7150.0	7013.1	7038.3	0.0	0.7	585
36537.4	40996.6	43880.7	38910.0	0.0	0.8	378
10220.7	9438.0	11383.2	10484.0	0.0	0.8	1658
46596.2	42756.5	49677.0	48259.0	0.0	0.8	177
18098.9	18916.0	19823.3	19981.0	0.0	0.6	901
30158.1	30978.2	34047.0	30492.0	0.0	0.7	55
14572.8	15000.2	16430.4	15997.0	0.0	0.7	79
83922.5	99380.3	79749.7	83493.0	0.0	0.8	361
22957.9	23830.6	25435.9	21802.0	0.0	0.8	824;824
16092.1	17827.0	17727.7	16675.0	0.0	0.7	61
55083.5	55245.5	59598.3	55531.0	0.0	0.5	62



Map7d1	0.999253	2.22E-10	127.87	CS(0.001)VS(0.999)AVNLPK	3	-0.4929	37817.5	36731.3
Prpf6	0.988706	7.70E-17	75.529	GYLT(0.989)DLNS(0.01)MIPT(0.00	4	-0.72299	8450.1	7960.0
Kank1	0.907327	4.35E-33	78.3	HS(0.907)PLS(0.069)S(0.016)GIS(0	4	0.3142	28808.0	29112.1
Tanc2	0.533227	2.11E-23	93.228	IPES(0.001)ELGS(0.465)PT(0.533)I	3	0.94293	5540.5	5184.6
Ranbp2	0.999999	2.50E-15	82.449	ELLGS(1)PLVENGFASK	3	0.96309	14977.7	15433.6
LOC102551	0.999355	1.86E-07	54.253	VAS(0.999)LGPLPLS(0.001)GVEEK	3	1.361	4593.8	3761.2
Tanc2	1	6.72E-09	95.273	FS(1)PPPVGGQGK	2	1.3164	44518.0	40204.1
Il16	0.854954	2.32E-15	83.404	IS(0.144)S(0.855)FENFGSSQLPDR	3	0.86761	7626.6	7140.0
Rptor	0.699689	1.60E-30	86.832	NYPLPS(0.004)PAAT(0.034)EGGS((	4	0.29677	23283.5	23295.2
Rbm12	0.738924	0.00242496	82.954	S(0.017)KS(0.739)PS(0.244)GQK	2	-0.21432	83439.9	81280.3
Slc9a3r2	0.997613	5.63E-36	103.92	RDPFQESGLHLS(0.998)PT(0.002)A	3	0.28411	81530.4	80091.2
Pdlim4	0.813669	2.59E-05	52.019	NWPS(0.186)S(0.814)PDDKAQAHF	3	-1.6354	30647.1	32553.1
Mpzl1	0.999521	2.03E-05	89.679	SESVVY(1)ADIR	2	0.2157	54987.3	61767.3
Scn1a	0.999996	0.00896088	78.264	GSLFS(1)PR	2	0.013228	6079.2	5351.7
Sox5	0.992139	0.0600707	43.808	S(0.004)T(0.004)NS(0.992)PPPK	2	0.54751	7845.7	6828.2
Nfatc2	0.981029	0.0078683	80.165	S(0.009)S(0.009)S(0.981)PGAK	2	-0.18609	13614.4	12255.8
Eml4	0.989757	1.31E-21	87.676	AS(0.009)PS(0.99)PQPS(0.001)SQI	3	-1.4345	12216.6	11852.2
Ahnak	0.95181	3.83E-09	58.98	LPQFGIS(0.004)T(0.044)PGS(0.952	3	0.62178	14192.9	14349.8
Apc	0.688393	3.92E-05	44.391	RS(0.02)S(0.02)NDS(0.011)LNS(0.6	3	-0.065804	6479.7	6038.5
Ndrp2	0.810837	2.74E-43	136.67	S(0.811)RT(0.184)AS(0.839)LT(0.1	3	0.30712	92658.1	100725.3
Srrm2	0.992701	1.06E-06	95.477	S(0.002)LS(0.012)GS(0.994)S(0.99	2	0.48397	76815.7	80972.1
Arhgef12	0.915294	6.99E-15	86.367	S(0.041)T(0.041)S(0.915)HDFDPT(	3	-0.10843	44002.7	44185.9
Ccdc88a	0.989986	0.0440314	46.334	FY(0.01)DPS(0.99)PPR	2	-0.079046	17179.4	15975.5
Bag3	0.998376	3.20E-25	71.428	VSSAPIPCPS(0.998)PGPAPS(0.001)	3	1.0394	70635.2	74759.1
Tceanc	1	0.00439267	75.474	LS(1)PQDAAK	2	0.76195	30123.5	34617.5
Cobll1	0.840726	1.95E-15	85.203	QS(0.159)S(0.841)LNFQSSDPEHIR	3	-0.71508	18867.0	19086.3
Nt5c1a	0.999138	0.00160334	54.198	TFY(0.001)DNLS(0.999)PK	3	0.69871	5807.9	5246.4
Ablim2	0.764006	0.000967566	41.31	QS(0.061)Y(0.157)GEGDQDDRS(0.	3	0.54166	15297.3	15519.2
Rbsn	0.840534	2.61E-31	86.182	DSLS(0.001)T(0.006)HT(0.151)S(0.	4	0.25241	7482.9	8464.8
Rbsn	0.509758	2.61E-31	86.182	DSLS(0.001)T(0.006)HT(0.151)S(0.	4	0.25241	7482.9	8464.8
Ppp1r18	0.829722	0.000234111	83.204	LS(0.83)PGES(0.17)GDQK	2	0.25713	12251.2	11719.4
Nefh	1	3.02E-13	66.017	PPAEAKS(1)PAEAKS(1)PAEAK	4	0.071432	96227.8	86319.5
Nefh	0.937699	1.01E-17	70.452	AEKS(0.938)S(0.04)S(0.009)T(0.01	2	0.35243	76876.5	74271.0
Rgs3	0.97215	3.38E-147	167.53	ALAEQT(0.028)IS(0.972)PGELPAA1	4	0.95693	71026.4	68734.9

36820.6	37972.8	38836.7	36645.0	0.0	0.4	256
6650.2	7840.7	8462.3	7189.2	0.0	0.8	275
27369.8	27143.7	30059.9	29684.0	0.0	0.6	271
5395.8	5931.1	5427.1	5064.7	0.0	0.7	130
16409.3	15124.4	16061.7	16512.0	0.0	0.6	1383
4159.6	4207.3	4360.6	4181.7	0.0	0.8	777
45740.2	45389.8	44023.9	43499.0	0.0	0.7	1593
6662.8	7047.1	7600.8	7184.1	0.0	0.7	840
22709.9	22721.9	24372.6	23497.0	0.0	0.4	706
70481.4	80265.2	80142.9	79223.0	0.0	0.7	413
83090.0	84470.3	83489.9	81360.0	0.0	0.3	303
31131.2	34686.1	32425.9	28997.0	0.0	0.8	32
61901.5	59215.2	61325.2	61483.0	0.0	0.7	264
5531.6	5982.9	6091.6	5207.8	0.0	0.8	565
7146.2	7604.0	7186.3	7441.2	0.0	0.7	348
14987.0	13606.5	14389.3	13632.0	0.0	0.8	249
12791.7	12670.4	13333.5	11552.0	0.0	0.7	81
16204.9	15621.6	14792.2	15179.0	0.0	0.7	5113
5690.3	5534.6	6530.4	6487.7	0.0	0.8	863
96211.7	94617.4	98330.2	102130.0	0.0	0.6	314
76321.0	77891.4	84109.8	76541.0	0.0	0.6	777
46333.2	45066.4	46450.7	45553.0	0.0	0.4	41
15077.5	15910.9	17147.5	16088.0	0.0	0.7	1387
73028.1	73457.5	75536.0	73571.0	0.0	0.4	377
40698.1	34832.4	36413.0	36194.0	0.0	0.8	133
18164.9	21752.8	19152.2	16278.0	0.0	0.8	1211
5915.7	5725.8	5500.1	6066.1	0.0	0.7	35
15066.8	16122.1	14281.4	16351.0	0.0	0.7	357
8415.7	8077.9	8119.4	8628.6	0.0	0.7	214
8415.7	8077.9	8119.4	8628.6	0.0	0.7	216
15104.1	13447.0	14575.2	11795.0	0.0	0.9	225
85384.3	92705.7	99952.4	80366.0	0.0	0.8	730;700
78334.2	71755.9	77149.7	84941.0	0.0	0.7	1040;1010
72966.3	69790.2	75929.3	71055.0	0.0	0.6	608

Rsb1	0.991019	1.33E-09	128.35	RVS(0.991)S(0.009)GGSQEK	2	-0.2567	33953.2	26595.8
Elac2	0.999861	2.20E-13	100.22	AHSEEPHS(1)PQSK	4	0.12079	65583.1	66217.5
Pbrm1	0.692329	1.26E-11	55.153	RLS(0.692)S(0.307)LPT(0.001)VDP	4	-1.1565	5013.7	4721.1
Mast2	0.891822	7.90E-10	80.361	KLS(0.892)NPDIFS(0.108)PT(0.001	3	-0.43223	19142.5	19497.7
Irs2	0.992194	1.39E-11	60.735	SSSSNLGADDGY(0.992)MPMT(0.0	3	-2.446	6354.6	5776.4
Appl1	0.998925	9.44E-06	51.524	HES(0.999)LRPGGQS(0.001)RPPTA	4	-1.4226	10100.9	9319.4
Rictor	0.901319	2.26E-26	76.492	TFTEPS(0.001)VDFNHS(0.901)DDF	4	-1.3475	38147.9	36095.1
Arhgap32	1	0.00181288	65.232	AVS(1)PEGDER	2	0.22069	17782.9	18411.7
S1pr3	0.499981	9.85E-22	82.635	GTQASPMQPALDPS(0.5)RS(0.5)K	3	-0.04525	15110.1	17838.0
S1pr3	0.499981	9.85E-22	82.635	GTQASPMQPALDPS(0.5)RS(0.5)K	3	-0.04525	15110.1	17838.0
Cadm3	0.947139	1.72E-14	52.642	GS(0.947)DDAPDADT(0.053)AIINA	4	-2.2081	42284.1	48308.1
Hivep3	0.95585	0.000713603	51.009	S(0.044)AS(0.956)FDREDHGK	3	0.35169	13187.5	14408.0
Cdr2	0.615425	2.11E-12	65.954	S(0.168)S(0.168)S(0.615)ET(0.048	3	2.366	15741.0	13432.8
Xpa	0.5	9.20E-33	94.295	RT(0.5)S(0.5)PEPAAAEKPAELPAAV	3	-0.8938	36747.6	37379.6
Maged2	0.857398	1.42E-38	86.539	HLEGEEDGNS(0.857)DQS(0.141)Q	3	0.4373	1231.8	1313.2
Ppp2r5a	0.945962	5.74E-13	70.555	S(0.054)QGS(0.946)QALHPLPQLk	3	1.1157	13687.2	12171.4
Add3	0.852654	2.24E-51	110.01	TAGPQSLLAGIVVDKPPS(0.853)T(	3	1.0719	15956.9	16125.7
Camk2g	0.721511	4.71E-84	134.91	RKS(0.762)S(0.278)S(0.238)S(0.72	6	0.21486	79637.6	91627.5
Vti1b	0.999883	2.78E-13	111.31	STPLTAT(1)PGGR	2	-0.49874	18376.8	17438.8
Sun2	0.999999	0.00216184	83.278	ESYIGS(1)PR	2	0.059697	32122.4	33873.8
Rnaseh1	0.562344	1.04E-30	89.353	S(0.004)S(0.004)S(0.066)S(0.277)F	4	-0.66126	18975.5	18094.7
Eppk1	0.999493	0.009712	61.765	T(0.001)KEGS(0.999)PR	2	0.40212	33327.0	33126.8
Ncoa1	0.997206	4.02E-93	169.7	EHS(0.003)GLS(0.997)PQDDTNSGI	3	0.30338	40517.7	44351.6
Mast2	1	8.66E-11	107.9	RVQS(1)AEK	3	0.48336	62968.7	58705.8
Scn10a	0.899032	9.51E-43	95.834	S(0.034)RVS(0.899)EGS(0.034)T(0	3	-0.38187	5098.8	4144.0
Calcb	0.536057	1.03E-21	78.674	S(0.018)ALES(0.536)S(0.446)LDLG	3	1.1535	5229.4	5105.6
Dnm3	0.996863	4.63E-14	111.88	S(1)PPPS(0.997)PT(0.003)TQR	3	-0.19407	126781.8	136631.7
Ppp4r2	0.773648	2.46E-31	91.276	GHS(0.001)DS(0.016)S(0.083)AS(0	3	0.40505	12879.7	11430.9
Zfp609	1	0.00315535	52.735	AEEGKS(1)PFR	3	0.96609	17563.4	17055.9
Tns1	0.555616	3.99E-13	99.927	VS(0.556)S(0.439)PPPT(0.005)ITQ	3	1.4419	13774.3	16762.0
Gppb111	0.994181	2.67E-06	92.19	LEGS(0.006)HT(0.994)PEPK	3	0.24052	28054.2	27300.0
Cttnbp2	0.997387	9.26E-13	97.797	LS(0.003)LGS(0.997)DDEADLVK	3	0.35319	41811.8	43659.4
Rapgef1	0.545329	2.37E-32	76.423	T(0.142)S(0.142)VS(0.545)PS(0.16	4	-1.2293	18904.0	18141.9
Prkd2	0.731594	2.85E-51	160.81	RLS(0.732)S(0.266)T(0.002)SLASG	3	0.15573	9041.3	9682.9

27595.5	30636.1	30579.2	28607.0	0.0	0.8	91
61207.3	68117.2	63839.7	64725.0	0.0	0.6	818
5064.6	4954.4	5160.3	4966.5	0.0	0.5	60
21321.6	20445.0	20405.8	20253.0	0.0	0.6	23
6187.9	6445.3	5415.4	6807.1	0.0	0.8	650
9978.5	9382.0	9845.7	10731.0	0.0	0.7	410
37783.1	36764.0	38008.5	39390.0	0.0	0.5	1091
16379.5	18263.7	17873.1	17440.0	0.0	0.6	1472
15290.4	15516.0	18363.6	15279.0	0.0	0.8	296
15290.4	15516.0	18363.6	15279.0	0.0	0.8	298
45893.5	50312.2	45634.3	43144.0	0.0	0.8	368
13439.0	13147.8	14940.7	13729.0	0.0	0.7	935
14589.9	16079.2	14133.9	14386.0	0.0	0.8	309
39491.8	37821.0	38818.5	39149.0	0.0	0.5	10
1379.1	1355.5	1230.4	1413.2	0.0	0.7	191
13860.6	13323.8	13716.0	13438.0	0.0	0.7	49
15632.1	16024.2	16985.0	15617.0	0.0	0.5	536
84371.8	86332.5	85888.0	88300.0	0.0	0.7	358;358
17812.5	18438.6	18839.1	17375.0	0.0	0.5	103
33497.9	33911.8	30370.9	37114.0	0.0	0.8	82
18115.9	17245.2	20709.2	18287.0	0.0	0.8	59
33885.4	34743.3	34002.1	33513.0	0.0	0.2	2743
42595.3	44537.4	39096.3	46269.0	0.0	0.8	372
56751.8	57977.8	64478.8	59384.0	0.0	0.7	1351;1268
5075.5	5031.9	5061.3	4499.3	0.0	0.8	466
5021.8	5055.0	5625.7	4970.3	0.0	0.7	35
126351.7	127595.3	135001.8	134640.0	0.0	0.6	763
11991.1	12802.4	11449.5	12746.0	0.0	0.7	180
19124.2	17477.3	17952.1	19346.0	0.0	0.7	758
14613.3	14108.1	16087.4	15821.0	0.0	0.8	1657
29226.6	28144.7	30518.3	27542.0	0.0	0.6	355
44783.1	41992.1	45453.7	45312.0	0.0	0.6	1510
19491.5	19346.1	19636.3	18643.0	0.0	0.5	257
9795.8	9607.2	10012.8	9449.2	0.0	0.6	197

Kctd8	0.886514	0.0335382	51.727	S(0.887)RET(0.113)NLSK	2	-1.2471	8451.7	7856.1
Dopey1	0.870645	2.89E-09	106.67	S(0.007)HS(0.871)S(0.123)IQFSFK	3	-0.11959	8494.4	8605.3
Arhgef25	0.994575	0.00112519	77.124	ESQT(0.005)NS(0.995)LGR	2	0.10767	7638.5	7360.8
Pikfyve	1	6.87E-26	110.26	LVSQVEDAGKS(1)PAR	3	0.35006	29947.0	30380.2
Plcl1	0.934814	1.80E-06	57.525	KKT(0.935)VS(0.108)FS(0.194)S(0.	3	-1.381	44824.5	44761.8
Ssfa2	0.546627	1.97E-12	106.58	IGS(0.009)MS(0.875)S(0.551)VT(0	2	0.48464	47856.3	52119.9
Tanc2	0.999777	7.38E-16	129.92	AS(1)PPAESMSIYR	3	0.6038	30678.1	27358.2
Smg8	0.5	5.85E-10	56.719	LDHINFPVFEPS(0.5)T(0.5)PDPAPA	3	-1.0248	9121.0	8876.7
Smg8	0.5	5.85E-10	56.719	LDHINFPVFEPS(0.5)T(0.5)PDPAPA	3	-1.0248	9121.0	8876.7
Adat1	0.999972	2.03E-13	110.92	SCEGPDS(1)PVAK	3	-0.34806	27376.8	30872.7
Rab11fip3	1	3.91E-07	73.498	EKS(1)IEIENLQAR	3	0.7534	11378.2	10134.0
Tp53bp1	0.946088	3.51E-79	106.36	AS(0.011)QGS(0.043)LS(0.946)PQI	4	-0.44227	19078.1	18021.2
Dock7	0.976782	0.000228964	61.11	S(0.021)NS(0.977)WVNT(0.002)GF	3	-0.036711	16425.6	13810.2
Tns1	0.99637	2.62E-40	124.08	KKDS(0.996)LNGS(0.003)SGPITTAI	3	0.62552	23431.4	21715.6
Nek1	0.693068	1.06E-23	92.671	EVNPSAT(0.001)VDT(0.087)ET(0.2	3	-0.4105	63207.2	65006.5
Pcbp1	0.715647	8.43E-69	116.43	VMT(0.06)IPY(0.716)QPMPAS(0.1	3	-0.22705	79121.2	76578.9
Srrm1	0.503182	0.000429731	52.862	AKS(0.374)PT(0.62)PS(0.503)PS(0.	3	-0.23427	13817.2	14356.4
Srrm1	0.503182	0.000429731	52.862	AKS(0.374)PT(0.62)PS(0.503)PS(0.	3	-0.23427	13817.2	14356.4
Pragmin	0.977379	0.000360643	59.198	S(0.023)AS(0.977)FAFEFPK	3	0.72723	1703.3	1456.4
Hmgcs1	0.768234	3.19E-117	132.28	RPSTNDHSLDEGVGLVHS(0.008)NT	6	0.16792	32184.5	31183.1
Psmc1	0.877588	0.0143501	44.847	KQEGT(0.122)PEGLY(0.878)L	3	1.3194	3843.1	3308.2
Scrib	0.997974	4.81E-26	100.02	GRDGPCS(0.002)PPS(0.998)PDELP	3	-0.79857	57586.1	55267.0
Bad	0.997071	1.48E-05	121.61	S(0.997)AGT(0.003)ATQMR	2	-0.99809	29654.8	29129.7
Srrm2	0.860029	0.000102569	50.202	MS(0.001)CFS(0.024)RPS(0.294)M	3	1.0935	63377.8	65389.3
Dennd4a	0.809797	1.45E-39	116.39	S(0.021)IS(0.81)T(0.169)CGPLDKD	4	-0.40006	73591.9	74833.7
LOC10091	0.999439	0.00296187	57.434	S(0.001)GKPES(0.999)PGVR	2	1.2941	34676.0	36386.9
Fam189b	0.977454	0.000792811	48.475	S(0.977)CGDLS(0.002)S(0.003)GS(	2	0.1002	20592.8	20368.6
Zbtb7c	0.979747	2.10E-06	49.592	DFPDS(0.02)FQPES(0.98)PGHLGVI	3	0.021014	4470.4	4778.7
Kif13b	0.901796	8.63E-06	97.472	S(0.001)IS(0.097)S(0.902)PS(0.001	2	0.62767	33724.2	34715.2
Nol4l	0.883819	1.95E-41	112.58	LEIYQS(0.116)S(0.884)QEEPIALDK	3	-0.19053	50202.3	49377.6
Scaf1	1	0.00294735	56.936	S(1)AS(1)PGPPPAR	2	0.50626	14149.9	14461.7
Dnajc6	0.539177	0.0112704	45.28	VIQS(0.008)VS(0.539)S(0.38)Y(0.0	2	0.94551	11567.1	11258.7
Arhgef4	0.956178	7.24E-07	60.549	TTVT(0.004)S(0.039)PES(0.956)PH	3	0.24597	8879.6	7751.5
Il6st	0.995349	3.43E-12	63.846	QSCS(0.002)QPGAS(0.995)PDVS(0	3	0.60038	26551.4	26487.2

8232.6	8697.5	8515.0	7800.7	0.0	0.7	423
7419.2	8067.3	8980.0	7943.9	0.0	0.8	1253
8156.8	7951.3	8044.8	7606.5	0.0	0.6	447
27340.0	28321.8	33136.5	27899.0	0.0	0.8	330
45543.3	43888.4	46261.6	47585.0	0.0	0.5	94
50835.6	50663.0	51379.3	51678.0	0.0	0.5	273
30762.8	30364.4	32496.4	27651.0	0.0	0.8	1621
9432.0	9527.9	9267.0	9164.0	0.0	0.4	656
9432.0	9527.9	9267.0	9164.0	0.0	0.4	657
24422.9	34005.3	24866.3	25396.0	0.0	0.9	128
9587.7	10966.6	10656.8	10077.0	0.0	0.8	835
18347.0	19147.0	19477.1	17893.0	0.0	0.6	1078
14948.6	15150.8	15742.2	15164.0	0.0	0.7	929
21350.3	21876.0	21369.7	24536.0	0.0	0.7	547
60683.5	63509.5	63941.2	65102.0	0.0	0.4	826
79034.8	78212.6	81245.8	79819.0	0.0	0.3	164
12640.5	13965.1	13606.0	14033.0	0.0	0.6	729
12640.5	13965.1	13606.0	14033.0	0.0	0.6	731
1524.7	1539.4	1639.4	1596.2	0.0	0.7	667
28956.1	29668.1	32899.3	31544.0	0.0	0.7	488
3423.2	3689.2	3389.1	3701.1	0.0	0.7	439
62066.5	56759.0	60958.7	60591.0	0.0	0.7	1318
28455.8	28875.0	28948.5	31108.0	0.0	0.5	129
54410.7	60973.0	69065.4	56692.0	0.0	0.8	2079
68000.8	72268.5	78482.3	69875.0	0.0	0.7	1486
34076.0	35719.0	35095.3	36365.0	0.0	0.4	256
21583.5	21007.0	21624.0	21129.0	0.0	0.4	629
4307.2	5115.0	4649.9	4054.8	0.0	0.8	215
38245.1	34965.5	38091.8	35700.0	0.0	0.7	1455
46894.3	48554.4	49080.7	51685.0	0.0	0.5	295
13858.4	14498.6	14413.9	14383.0	0.0	0.2	495
11028.6	10111.4	12257.3	12144.0	0.0	0.8	112;82
8182.2	8908.8	8280.4	8107.0	0.0	0.7	910
25225.6	26432.0	26657.3	26699.0	0.0	0.3	824



Sh3bp4	0.850802	8.91E-23	129.77	S(0.129)YS(0.851)LS(0.02)ELSVLQ	3	0.14161	39883.2	37698.8
Lmna	0.939429	0.000333671	75.102	IT(0.06)ES(0.939)EEVVS	2	0.14855	10577.0	10793.4
Nf1	0.698103	8.49E-10	57.738	KGS(0.698)MIS(0.262)VMS(0.03)S	3	3.1417	8103.1	7654.8
Rangap1	0.999594	0.000754762	59.294	GS(1)GEEPATPSRK	2	0.82905	3479.6	3601.2
Magi1	1	0.0129475	54.066	REMS(1)PER	3	-0.066948	5941.1	6415.4
Mon2	0.806623	1.23E-40	126.91	RDEQS(0.193)ES(0.807)DHMDQET	3	0.25815	5651.3	5688.1
Pln	1	6.90E-15	120.21	RAS(1)T(1)IEMPQAR	3	0.67586	32876.2	34496.9
Stk10	0.659743	6.33E-46	83.25	VNQS(0.1)RPNS(0.66)S(0.233)ALE	4	-1.2595	26890.2	28176.5
Cdc42bpa	0.957555	8.05E-15	78.902	TVFS(0.002)GS(0.035)VS(0.958)IP	3	2.1152	5258.5	5430.3
Parp8	0.506347	1.28E-15	55.765	RLS(0.506)LT(0.201)S(0.201)GLIGI	4	1.7842	5278.4	5254.6
Syne1	0.987901	5.23E-65	150.94	T(0.012)LPS(0.988)EDEEGEEDKEF	3	0.99112	51994.9	50866.1
Irs2	0.999654	1.24E-14	85.469	TDSLAAAT(1)PPAAK	3	0.7389	82349.7	79774.2
Supt7l	0.935203	3.12E-10	46.46	AESEPLPS(0.064)CPGS(0.935)PPL	4	-1.2168	8107.2	8105.4
Ppl	1	0.0218179	43.442	EGT(1)LREK	2	0.89519	3520.9	4113.8
LOC68779	0.76717	2.03E-18	70.567	S(0.027)S(0.029)S(0.071)LPVS(0.8	3	-0.50762	21781.9	26227.2
Bod1l1	0.737779	6.86E-09	112.02	RGS(0.738)T(0.261)S(0.001)QEMA	3	-0.93314	28462.1	23513.5
Stt3b	0.999784	5.25E-58	105.55	ENPPVEDS(1)S(1)DEDDRRSPGNLY	4	-0.38037	176456.9	190610.9
Ablim2	0.71015	2.87E-56	135.23	T(0.042)S(0.042)S(0.71)PS(0.201)S	3	-0.21195	24164.9	24589.5
RGD13099	0.623757	2.36E-20	108.14	SGST(0.002)GS(0.342)S(0.624)LS(	2	0.65733	24017.0	25123.7
Plxnb1	0.5	1.44E-17	72.772	KVQIQLENLES(0.5)S(0.5)VRDR	4	-0.22015	48363.2	46433.5
Mb21d2	0.644368	2.04E-25	75.078	RGS(0.644)T(0.28)T(0.064)S(0.008	3	0.3456	12884.5	11756.7
Hcfc1	0.999554	9.16E-72	100.69	AVTTVTQSTPVPGPSVPPPEELQVS(	5	-0.81776	34742.8	38090.4
Cmklr1	0.996174	1.30E-36	107.39	LVNALS(0.002)EDT(0.996)GPS(0.0	3	0.3768	35008.7	36529.5
Akap12	0.499997	9.81E-48	88.395	AEDS(0.5)S(0.5)VEQLSTEIEPSREES	5	1.4678	5464.9	5850.9
Slc25a3	1	1.02E-15	62.546	S(1)PPGPPR	2	0.089796	18343.4	18446.8
Sirt2	0.997435	0.000388033	43.794	NLFTQT(0.002)LGLGS(0.997)QKER	3	-0.01712	2786.7	2760.3
Reps1	0.977071	0.000992285	117.3	S(0.011)S(0.011)S(0.977)LDMNR	2	-0.34325	121367.1	117655.1
Bcl2l13	0.997267	1.40E-18	135.89	S(0.997)HT(0.003)GEAIAAR	2	0.027543	137766.4	150189.6
Scn10a	0.831491	1.64E-09	96.464	S(0.011)LT(0.831)LS(0.157)NTLHV	3	-1.1916	1785.2	1367.4
Gripap1	1	0.00631755	70.056	KQES(1)FCR	3	-0.063703	20305.4	19209.2
Raph1	0.61225	1.15E-07	54.103	TESAY(0.001)DWT(0.102)S(0.102)	3	1.071	6033.8	6070.5
Elac2	0.999974	1.31E-07	71.781	AHS(1)EEPHS(1)PQSK	4	0.87297	40931.6	37987.3
Commd10	0.999179	1.09E-10	66.152	LQS(0.999)PQAVLQLGVS(0.001)K	3	0.95788	9469.6	9227.2
Tbc1d22a	0.823272	7.19E-31	71.207	S(0.021)QS(0.065)LPHS(0.823)AT(	3	-1.1107	6504.0	5793.1



38415.5	39402.8	40428.9	38426.0	0.0	0.4	244
10396.2	10453.7	11653.6	10279.0	0.0	0.7	66
8020.3	8447.6	7909.8	7884.7	0.0	0.5	878
3128.8	3171.2	3516.2	3721.6	0.0	0.8	402
5551.6	6326.7	6248.3	5683.1	0.0	0.7	1349
4789.2	5399.8	5069.6	5974.4	0.0	0.8	534
32533.3	32597.3	34739.5	34525.0	0.0	0.5	16
29533.2	27541.9	29567.2	29148.0	0.0	0.6	467
6314.0	5702.7	6043.6	5590.1	0.0	0.8	1613
4473.8	5367.5	5109.0	4824.9	0.0	0.8	455
50412.9	53228.1	49711.2	53343.0	0.0	0.5	2525;8308
88098.1	84417.5	85758.7	84958.0	0.0	0.5	348
7767.3	8406.6	7761.6	8282.9	0.0	0.5	106
3877.1	3645.8	4150.3	3941.8	0.0	0.8	1080
24267.4	24195.8	25414.5	24087.0	0.0	0.7	23
26231.7	26415.5	28056.2	25273.0	0.0	0.8	1071
166840.0	182747.3	183603.7	178060.0	0.0	0.6	497
25641.9	24881.1	25993.7	24986.0	0.0	0.4	365;395
24624.1	24368.5	25117.4	25731.0	0.0	0.4	2094
46024.5	45654.9	50998.9	46940.0	0.0	0.6	1520
13263.3	13401.9	13129.4	12120.0	0.0	0.7	362
36658.8	35758.6	38399.6	37491.0	0.0	0.6	1516
36209.5	35266.9	39005.5	35600.0	0.0	0.6	341
6110.2	5575.5	6439.2	5755.0	0.0	0.7	770
16827.7	17718.2	17696.7	19261.0	0.0	0.7	30
2381.8	2503.2	2964.0	2618.1	0.0	0.8	16
123998.9	120698.6	127777.8	121710.0	0.0	0.5	562;257
131462.0	143973.7	142760.1	140980.0	0.0	0.6	387
1723.4	1831.4	1706.3	1434.8	0.0	0.9	1873
19381.8	20737.5	18893.6	20432.0	0.0	0.6	237
6381.7	6745.5	5741.0	6365.8	0.0	0.7	534
38947.8	40174.9	39410.5	40617.0	0.0	0.5	813
9462.3	9924.1	9504.6	9289.3	0.0	0.4	155
7146.8	5577.7	7284.9	6967.8	0.0	0.9	168

Eif4g3	0.993186	4.65E-24	92.474	AEELS(0.993)VDS(0.007)VLEPEQI	3	0.10093	6465.4	6907.9
Sept8	0.979928	0.000327799	52.101	ADT(0.001)IS(0.019)KS(0.98)ELHK	4	-0.5803	6278.5	5887.3
Nyap2	0.985992	0.000543109	60.55	FTAPT(0.003)S(0.011)HS(0.986)PP	2	0.18479	10733.4	10539.8
Yap1	0.842267	6.45E-07	41.174	S(0.034)QLPS(0.842)LEQDGGT(0.1	4	0.008333	6032.7	6434.4
Samd4a	0.824759	3.82E-22	142.1	AYS(0.086)S(0.825)PS(0.086)T(0.0	2	0.16302	25203.7	28823.6
Appl2	0.540419	2.54E-05	41.911	YVLLNDQADDT(0.288)GGS(0.54)P	3	0.98307	16943.2	16916.6
Gja1	0.583695	5.37E-20	72.167	VAAGHELQPLAIVDQRPS(0.584)S(C	4	-0.27735	12496.9	12165.9
Map2	0.99004	0.000776021	61.833	T(0.006)T(0.004)RS(0.99)EPIRR	3	-0.57703	15801.8	19147.7
Ssfa2	0.73649	1.97E-12	106.58	IGS(0.794)MS(0.308)S(0.736)VT(0	3	-0.35165	57099.5	61785.9
Map1a	0.96861	5.24E-94	176.48	ELALS(0.031)S(0.969)PEDLTQDFEE	4	-0.091801	301843.3	295355.3
Dtd1	0.956437	3.62E-138	201.14	S(0.002)AS(0.041)S(0.956)GAEGD'	2	-0.10284	93197.2	91913.8
Prx	0.999998	2.05E-23	98.175	IPEVELVT(1)PGAQETEK	3	0.27499	42286.5	45591.1
LOC10369	1	1.99E-41	110.57	KAGS(0.228)PS(0.772)PAQELAEPN	4	-0.21174	88623.2	91888.6
Ncam1	0.843925	1.11E-25	109.14	GVTAS(0.004)S(0.021)S(0.131)S(0	2	-0.32683	28203.3	29201.0
Wdr59	0.996608	6.30E-12	132.47	AVS(0.997)PT(0.003)EPTPR	2	0.67895	17920.0	22954.0
Ncor2	0.706742	1.69E-91	110.78	SLGYHS(0.006)GAGY(0.132)S(0.88	4	1.2357	28908.2	29315.0
Otud7b	0.916822	2.92E-07	42.301	AT(0.001)GFS(0.006)PGY(0.057)PC	4	-1.3742	10827.5	10948.0
Tbc1d4	0.978324	1.22E-22	107.62	HAS(0.022)APS(0.978)HVQPSDSEK	3	0.031995	26218.7	24724.5
Kmt2a	0.589793	2.17E-11	67.299	T(0.002)IAHS(0.59)PS(0.388)S(0.0	4	1.0849	3168.2	3146.8
Ncor1	0.973128	3.26E-07	60.09	AQLS(0.973)PGIY(0.026)DDSSAR	2	0.12501	15653.9	15244.9
Mtdh	0.978148	1.69E-07	53.444	KREEVT(0.022)PPT(0.978)PAPEDP	4	-0.16352	6455.3	7025.1
Fam104a	0.999999	3.15E-06	77.191	RS(1)PS(0.999)PAAMS(0.001)ER	3	0.086078	15297.3	16118.1
Fam104a	0.998674	3.15E-06	77.191	RS(1)PS(0.999)PAAMS(0.001)ER	3	0.086078	15297.3	16118.1
Atp8a1	0.520193	3.23E-16	55.186	S(0.52)ES(0.465)LQQNLLHGY(0.00	4	0.51991	7136.6	7122.3
LOC10091	0.728579	2.12E-08	111.94	IIS(0.002)IFS(0.239)S(0.729)T(0.03	2	1.5827	27009.4	25413.3
Aarsd1	0.901901	4.12E-06	53.188	GAQADHFT(0.085)QT(0.902)PLS(C	3	0.93263	5615.5	5657.4
Cir1	0.999903	4.98E-05	85.813	SHQHS(1)PERK	3	-1.1182	12411.0	13561.2
Mark1	0.652211	4.97E-41	108.77	KPPEFEGGES(0.174)LS(0.652)S(0.1	3	0.51723	23935.9	26649.5
Rims3	0.542118	2.39E-06	58.98	S(0.458)T(0.542)LQLPQPEGATK	3	0.75418	5377.8	5256.4
Nek1	0.999977	0.000180296	118.91	LDSSGS(1)PR	2	0.27171	71492.8	74448.7
Utrn	0.917119	5.83E-60	122.88	AAQAS(0.917)LS(0.083)ALNDPSA\	5	-2.3263	140831.6	151648.5
Sos1	0.998084	1.21E-06	50.783	TSIS(0.002)DPPES(0.998)PPLLPPRI	3	-3.3643	10535.4	10708.7
Usp15	0.507994	1.13E-09	94.673	S(0.492)PGAS(0.508)NFSTLPK	3	-0.19516	9865.4	10605.3
Atg9a	0.971002	6.28E-15	82.663	S(0.029)FS(0.971)PLQPGQAPQGR	3	0.58327	9067.9	9586.4

6522.1	6564.8	6761.7	6964.5	0.0	0.5	568
5382.6	5525.3	7024.2	5347.9	0.0	0.9	194
11278.8	11097.5	11427.0	10676.0	0.0	0.5	131
6983.0	5868.2	6870.7	7098.7	0.0	0.8	320
27276.1	28315.2	26684.0	27927.0	0.0	0.7	231
17260.0	17928.2	17154.9	17057.0	0.0	0.3	651
13147.3	11890.6	12053.2	14621.0	0.0	0.8	364
15327.7	17452.0	18345.4	15484.0	0.0	0.8	1666;1580
59871.2	59528.7	61185.2	61613.0	0.0	0.5	271
297301.3	304666.8	308592.3	299120.0	0.0	0.2	765
93334.0	92907.0	95639.4	95466.0	0.0	0.1	197
45010.9	45854.0	46550.1	43142.0	0.0	0.6	1041;1041
87441.2	92035.8	90560.1	90719.0	0.0	0.3	302
30038.9	30794.5	30380.5	28018.0	0.0	0.6	898
16726.6	19342.8	18678.8	20733.0	0.0	0.9	571
32195.8	30329.2	31113.6	30788.0	0.0	0.6	2013
9870.6	10586.5	10715.3	10979.0	0.0	0.6	698
22926.0	25656.6	25272.4	24422.0	0.0	0.7	172
3154.6	3252.5	2897.6	3509.7	0.0	0.7	2060
16421.0	16159.5	14956.7	17154.0	0.0	0.7	1430
5667.5	6316.6	6718.4	6497.5	0.0	0.8	96
14406.7	14943.0	16668.7	15132.0	0.0	0.7	61
14406.7	14943.0	16668.7	15132.0	0.0	0.7	63
7511.8	7254.7	7798.1	7156.1	0.0	0.6	1108
25636.6	27470.4	25809.9	26351.0	0.0	0.5	59
5664.4	5693.3	5336.7	6249.2	0.0	0.7	85
13285.7	14252.2	13234.1	12564.0	0.0	0.7	380
25700.5	25101.1	28033.7	24691.0	0.0	0.7	382
4931.5	4905.1	5832.6	5142.4	0.0	0.8	66
69893.7	75382.4	75112.8	69698.0	0.0	0.6	752
146036.9	163795.0	144010.5	139570.0	0.0	0.7	933
10016.6	10956.6	10646.4	10290.0	0.0	0.5	1196
9987.0	10888.9	9026.8	11158.0	0.0	0.8	112
6614.9	8903.5	8933.9	7943.1	0.0	0.9	656

Chchd3	0.81005	3.38E-08	60.307	YS(0.19)S(0.81)VYGASVSDEELK	3	1.9244	5404.0	5634.2
Hn1l	1	0.0454332	41.502	T(1)NPPGGK	3	0.3989	8678.9	7944.2
LOC10036	0.998862	0.0319017	44.392	LT(0.001)EGCS(0.999)FR	2	0.051644	15551.3	14597.7
Pard6a	0.757027	0.000145428	41.41	AEGDSS(0.001)GLAFAS(0.242)NS(I	3	0.19681	13020.5	14570.3
Zfp609	0.992672	0.000153647	69.03	ELES(0.007)PLT(0.993)PGK	2	1.0853	22629.9	23602.3
Wapal	0.63393	1.17E-06	84.169	T(0.006)ES(0.36)PS(0.634)ES(0.00	3	-0.66481	18801.4	19279.4
Ahnak	0.951232	3.18E-31	93.766	NRS(0.951)NS(0.008)FS(0.04)DER	3	0.033631	16615.2	15724.3
Ncor1	1	0.00120615	66.989	VS(1)PENLVDK	2	0.65121	69440.2	68870.9
Brsk1	0.934906	6.68E-66	149.04	S(0.935)VS(0.065)GASTGLSSSPLSS	3	-0.40907	63473.2	63048.5
RGD13115	0.999599	3.45E-28	141.1	S(1)MPVLGSVSSVTK	3	0.97887	109420.0	112455.7
Acin1	0.581064	3.83E-17	72.568	GVOAGNS(0.419)DT(0.581)EGGQI	3	-0.5295	17312.9	17777.7
Lbr	0.895528	8.75E-45	166.03	RS(0.013)VS(0.896)AS(0.091)YQAI	3	0.44878	57023.2	57050.5
Mbp	0.978888	0.00332171	100.09	S(0.979)GS(0.021)PMAR	2	-0.00040223	21852.3	18095.8
Limch1	0.914114	4.44E-06	51.089	SQMFEGVAT(0.914)VHGS(0.085)P	3	-0.46671	8482.0	7107.0
Eif3c	0.619386	4.45E-11	49.038	QLT(0.009)PPEGS(0.186)S(0.186)K	4	1.3169	4900.0	5374.6
Parp8	0.964449	0.000890327	81.09	RT(0.006)CS(0.964)S(0.016)T(0.01	3	-0.71401	35289.0	33348.4
Zc3hav1	0.992326	3.78E-05	92.856	AQLS(0.992)PVS(0.007)SK	2	0.59694	95503.8	91082.3
Srgap2	0.999927	1.02E-09	103.69	S(1)PDSTANVR	2	-1.9199	18096.5	19292.5
Camk2g	0.645417	7.84E-11	55.453	GS(0.001)T(0.001)ES(0.004)CNT(0	3	0.2264	14455.3	14819.3
Dpysl3	0.742875	1.21E-32	79.553	GMYDGPVFDLT(0.743)T(0.176)T(C	3	0.94517	102044.5	102483.7
Pcdh12	1	0.0621066	43.492	VPGS(1)PIAR	2	-0.57564	20045.4	19180.7
Acly	0.99797	9.80E-18	99.392	AKPAMPQDS(0.002)VPS(0.998)PR	3	0.51188	299684.6	311776.1
Pcf11	0.999755	0.00613703	50.108	SPIVHS(1)PK	3	-0.72883	5967.9	5970.2
Osbpl6	0.762968	1.26E-19	61.586	LHS(0.237)S(0.763)NPNLCADIEFQ	4	-0.021169	15337.9	14711.8
Triobp	1	0.0331098	43.501	EAVRNS(1)LAE	2	-0.30439	7990.0	8399.0
Akap6	0.916107	8.24E-10	76.156	S(0.025)VS(0.916)DMT(0.049)LQS	2	1.1189	75679.1	73763.1
Vcpip1	0.78332	5.59E-05	91.961	APY(0.009)S(0.783)PT(0.178)T(0.0	2	0.489	110134.4	112642.2
Bnip3l	0.5	7.49E-14	63.998	NGGLEHVPS(0.5)S(0.5)S(0.5)S(0.5)	3	-0.93812	8857.6	8038.6
Bnip3l	0.5	7.49E-14	63.998	NGGLEHVPS(0.5)S(0.5)S(0.5)S(0.5)	3	-0.93812	8857.6	8038.6
Bnip3l	0.5	7.49E-14	63.998	NGGLEHVPS(0.5)S(0.5)S(0.5)S(0.5)	3	-0.93812	8857.6	8038.6
Bnip3l	0.5	7.49E-14	63.998	NGGLEHVPS(0.5)S(0.5)S(0.5)S(0.5)	3	-0.93812	8857.6	8038.6
Prr5	0.61151	2.16E-07	72.891	FMS(0.119)S(0.612)PS(0.211)LS(0	2	0.98485	14358.7	12633.2
Fbxo10	0.6841	3.03E-16	61.03	TCDIVIEGS(0.022)QS(0.022)PT(0.0	5	0.29117	24964.0	24881.3
Lnpep	0.929116	0.000140826	51.771	S(0.005)S(0.005)GLRNS(0.929)AT(	3	-0.45032	6047.0	6274.2

5285.2	5264.7	5348.0	6041.1	0.0	0.7	51
9656.0	9571.1	7500.9	9739.1	0.0	0.8	61
13176.0	14968.3	14014.2	15220.0	0.0	0.7	78
13903.2	13625.2	14154.2	14556.0	0.0	0.6	109
23905.5	22902.3	22652.0	26006.0	0.0	0.7	746
21203.4	18936.9	21046.9	20503.0	0.0	0.7	227
14662.2	15980.2	16102.3	15873.0	0.0	0.6	5468
71652.5	73889.8	68924.3	71411.0	0.0	0.4	2095
60166.1	62737.3	63083.1	64657.0	0.0	0.4	342
120411.0	120401.6	117935.5	110900.0	0.0	0.6	446
16102.7	17505.9	18168.0	16559.0	0.0	0.6	735;841;840
56976.4	60230.5	59706.2	54590.0	0.0	0.6	101
20027.0	19474.8	21067.2	20652.0	0.0	0.7	188;162;147;151
7276.6	8308.1	7518.3	7504.4	0.0	0.8	440;431
5853.2	4987.2	6015.7	5453.4	0.0	0.8	530
32017.0	34696.0	35095.3	32914.0	0.0	0.6	323
88149.2	95214.7	94577.1	90545.0	0.0	0.5	307
18391.7	18514.5	19278.3	19126.0	0.0	0.4	53
14137.4	14232.4	16031.8	14034.0	0.0	0.7	409;398;386
93327.6	100654.0	107687.2	95596.0	0.0	0.7	620
18074.4	18594.8	20551.1	19325.0	0.0	0.7	885
282417.6	324664.1	294625.1	292850.0	0.0	0.7	481
5241.6	5967.1	5955.8	5608.1	0.0	0.7	495
16573.3	15924.1	15535.9	16118.0	0.0	0.6	369
8790.5	8651.5	8378.0	8666.5	0.0	0.5	2014
73357.0	77376.7	77754.5	72239.0	0.0	0.5	1653
95974.3	125582.4	100881.1	98827.0	0.0	0.8	767
9521.0	8674.3	8748.8	9536.7	0.0	0.7	22
9521.0	8674.3	8748.8	9536.7	0.0	0.7	23
9521.0	8674.3	8748.8	9536.7	0.0	0.7	24
9521.0	8674.3	8748.8	9536.7	0.0	0.7	25
12447.8	14481.0	12825.9	12943.0	0.0	0.8	12
26046.5	26029.4	26646.6	24775.0	0.0	0.5	139
6027.7	5918.7	6173.1	6634.3	0.0	0.6	91

LOC10091	0.922333	0.00142972	44.436	NS(0.048)CNVGGGS(0.922)GGGS(0.	2	0.8147	8979.3	8802.9
Nop56	0.997107	2.69E-42	92.463	SLPKEEVASEPEEAAAS(0.997)PIT(0.0	4	2.6931	270690.5	282554.3
Arhgef6	0.888797	2.71E-33	111.64	TSSSSCS(0.04)T(0.889)HS(0.049)E'	4	-0.53035	23314.5	21365.7
Etl4	0.640078	1.67E-19	62.193	HQEETHHAPGQPLHCS(0.18)T(0.18	5	0.9088	19056.6	18528.0
Efhd2	0.989576	7.68E-32	110.56	RADLNQGIGEPQS(0.99)PS(0.01)R	2	0.70987	58505.7	61238.6
Ttyh1	0.986877	0.00975035	65.224	FVQWQS(0.013)S(0.987)I	2	0.11355	10280.8	10645.0
Lmna	0.61522	1.12E-30	73.164	AASGSGAQVGGGS(0.002)IS(0.018)S	3	-0.5452	8267.5	9180.4
Camsap1	0.983315	6.67E-20	70.994	APVHFVEPLS(0.983)PT(0.017)GVP	4	-0.057432	13695.5	13338.5
Fam83h	0.57335	0.00942958	42.317	KGS(0.418)PT(0.573)PAY(0.009)PE	3	0.99057	5644.5	4824.6
Hepacam	0.829142	3.56E-41	130.05	DKDS(0.171)S(0.829)EPDENPATEP	3	-0.57223	21742.5	21397.5
Slc16a1	0.664919	1.72E-12	67.928	DGKEDET(0.168)S(0.665)T(0.168)I	4	-0.68014	40086.0	45989.3
Rasgrf2	1	0.00463669	43.761	EHLVDGKS(1)PR	3	-1.1061	38211.1	37199.7
LOC10091	0.979547	1.28E-08	43.903	GS(0.003)ET(0.005)S(0.012)AVVT(	5	-1.5765	9726.3	10111.7
Vcl	1	7.17E-55	156.78	GWLRDPNAS(1)PGDAGEQAIR	4	0.65763	46192.5	43276.6
Tp53bp1	0.869799	3.61E-42	131.25	STPFIVPS(0.127)S(0.87)PT(0.003)E	3	-0.26049	38474.6	39169.7
Brsk2	0.684006	7.19E-19	63.095	LQVPT(0.006)PEEMS(0.05)NLT(0.0	3	1.4586	52887.0	54799.7
Gys1	0.985411	3.68E-21	104.81	YPRPAS(0.002)VPPS(0.985)PS(0.0	3	0.69265	118894.6	128448.7
Dock2	0.926789	2.39E-07	55.097	VVS(0.055)ES(0.927)FDLES(0.017)	3	-0.086668	3669.6	4050.0
Synrg	1	1.38E-133	185.68	QLS(1)LEGAGLAIEEFKENTPSTK	4	-2.0357	90315.7	88525.4
Cdr2	0.999986	0.00034946	55.755	AVTMLQAQLS(1)LER	3	0.54917	1863.3	2184.2
Obsl1	0.609605	6.55E-05	42.863	RCS(0.61)S(0.191)S(0.191)DAGT(0	3	-1.3712	6188.2	6149.7
Brsk2	0.775492	2.17E-52	123.43	SISGASSGLS(0.012)T(0.209)S(0.77	3	1.4021	39168.8	44753.0
Add1	0.735045	4.31E-22	93.551	S(0.735)PGT(0.264)PAGEGS(0.001	3	2.7209	102348.6	117567.3
Hcn4	1	0.00895688	53.08	KNS(1)ILLHK	3	0.36305	6587.0	7147.4
Sqstm1	0.979712	3.74E-66	94.059	SGTQPSSCSSEVS(0.001)KPDGAGEI	5	-0.34199	10287.1	9608.1
Prkd1	0.985575	1.07E-32	113.07	RS(0.007)NS(0.986)QS(0.007)YVG	4	-0.71255	55790.0	57652.7
Sgtb	0.551027	3.10E-09	123.51	S(0.336)FS(0.551)S(0.027)S(0.027	2	-0.47529	5051.2	4213.1
Ahnak	0.884964	2.72E-85	154.77	SSKAS(0.012)LGS(0.99)LEGAEAEI	3	-0.17992	163611.8	161498.8
Gpr158	0.922664	0.00225351	53.377	KY(0.001)S(0.923)NS(0.067)DNT(C	2	0.35621	6807.9	6151.9
Esyt1	0.983405	2.27E-48	117.37	LT(0.008)HGDS(0.983)PS(0.009)E/	4	0.79742	20707.3	20137.2
Rhbdf1	0.718349	4.41E-05	111.52	QT(0.017)S(0.26)IT(0.718)QT(0.00	2	-1.0922	13990.1	13582.0
Rab3gap2	0.999999	1.16E-20	101.62	GDFS(1)PFGNTQGPSR	3	-0.47539	11679.6	11505.5
Helb	0.978427	0.00674243	68.786	GEAS(0.978)PAT(0.022)K	2	1.8663	32265.6	30240.8
LOC10369	0.958129	1.93E-05	73.927	LS(0.026)HS(0.958)ES(0.015)DFSK	2	0.24729	41027.0	36561.3

8562.8	8768.0	8592.8	9525.9	0.0	0.6	133
255695.1	287881.5	271275.3	266430.0	0.0	0.6	550
22452.2	21549.3	25137.7	21827.0	0.0	0.7	590
18269.3	18060.2	19043.2	19900.0	0.0	0.5	719
60504.7	62093.8	60773.8	61094.0	0.0	0.2	73
10969.0	11297.7	10915.1	10339.0	0.0	0.6	449
8682.3	9041.9	9463.4	8163.6	0.0	0.7	617
13794.6	14525.0	14441.7	12705.0	0.0	0.7	1081
5609.2	5254.1	5229.9	5926.2	0.0	0.8	862
21001.1	22761.5	22487.5	20217.0	0.0	0.6	311
44824.6	43714.6	36243.1	53647.0	0.0	0.9	460
36565.1	38594.3	37512.6	38183.0	0.0	0.2	717
9489.9	9914.0	10657.3	9363.1	0.0	0.7	169
44322.1	44582.5	45427.0	46550.0	0.0	0.4	290
38065.2	38496.4	39702.3	39906.0	0.0	0.2	384
50988.9	52871.8	57861.7	51227.0	0.0	0.7	673
115918.2	122007.5	130599.0	118180.0	0.0	0.7	645
4018.0	3913.4	4101.0	3966.8	0.0	0.6	1620
90450.9	89477.3	93357.8	92051.0	0.0	0.2	844
2263.4	2206.1	2139.5	2096.5	0.0	0.7	208
5904.2	6497.8	6528.6	5595.2	0.0	0.7	1599
39453.5	38317.1	45355.4	42271.0	0.0	0.8	461
109179.0	104453.3	117582.9	113910.0	0.0	0.7	355;355
8039.0	7595.2	7073.0	7558.5	0.0	0.8	719;641
9298.1	10880.5	11267.8	7653.2	0.0	0.9	278
56136.4	53783.6	63031.8	56299.0	0.0	0.7	255
4633.5	4602.3	4738.0	4847.4	0.0	0.7	293
179413.5	170823.7	182054.2	162170.0	0.0	0.7	5449
6511.7	6241.7	7174.9	6461.2	0.0	0.7	520
20345.3	21338.1	21117.5	20012.0	0.0	0.4	947
13251.6	13841.9	15247.4	12587.0	0.0	0.7	78
11760.0	11717.9	12208.2	11750.0	0.0	0.2	178
30362.5	32073.7	30899.8	31838.0	0.0	0.4	786
39690.9	37716.5	41391.8	40625.0	0.0	0.7	537



Npr2	0.88868	6.18E-16	100.11	GS(0.084)S(0.804)Y(0.013)GS(0.88	3	0.050894	34543.6	35223.0
Eif4g1	0.826832	2.93E-05	107.17	KAAS(0.827)LT(0.173)EDR	2	-0.14172	54162.0	53982.5
Sh3kbp1	1	3.50E-12	98.573	S(1)IEVENDFLPVEK	3	-0.27249	54501.9	55394.2
Nefl	0.994831	1.14E-27	100.41	SAYS(0.001)S(0.003)Y(0.001)S(0.9	3	0.52924	54686.7	56721.5
Acbd4	0.799048	2.87E-38	86.946	S(0.1)S(0.1)PES(0.799)PEGFGGSLN	3	-1.2068	6977.2	6642.5
Sorbs1	0.548524	6.36E-29	83.944	RPLVKT(0.895)PVDY(0.104)IDLPSY	4	0.28158	49124.1	47506.3
Sipa1l1	0.998573	0.00276818	66.55	RS(0.999)PAS(0.001)IDR	3	0.58151	7464.6	6211.3
Dgki	1	0.0150788	64.654	KPQNS(1)LK	2	-0.50457	38757.3	31991.5
Rab3ip	0.678336	5.34E-88	142.2	NKS(0.116)T(0.678)S(0.193)S(0.01	5	0.13486	10379.8	10362.7
Sorbs2	0.691595	2.77E-32	95.052	GSEDY(0.001)PDPPLPHS(0.027)YS	3	-0.45673	137384.7	120046.4
Srrm2	0.991448	0.00948216	68.536	VKS(0.009)GT(0.991)PPR	2	-0.96813	42329.4	46916.1
Cacnb1	0.897495	5.93E-22	91.337	S(0.897)GDNS(0.102)S(0.001)SSLC	3	-0.037643	13130.2	13616.0
Sgip1	0.553937	6.44E-38	78.079	AVPAT(0.242)PPRT(0.554)GS(0.28	4	0.077418	31924.5	32260.3
Bap1	0.563305	7.62E-16	60.288	SQES(0.001)QLPEES(0.036)KPAS(C	4	0.55359	16045.1	16608.4
Med14	0.98655	2.06E-42	88.071	LPGMS(0.003)PANPS(0.987)LHS(0	4	-0.17648	4559.9	4774.8
Gpsm1	0.834237	2.06E-58	106.58	AAQPSVT(0.004)AS(0.162)PQT(0.8	3	-0.41785	25995.6	24606.0
Zfp217	0.910245	8.13E-05	48.288	RADAPS(0.91)PT(0.09)MAGDAR	3	-3.5541	8070.1	7447.8
Map7d1	0.820277	0.0215248	68.846	GT(0.022)T(0.158)AS(0.82)PK	2	0.31423	58768.1	55396.4
Eif4g3	0.879212	8.33E-105	139.41	AEAES(0.879)DGQT(0.087)EET(0.C	3	0.67068	33336.6	29304.1
Tpd52l1	0.764803	0.00260337	62.799	S(0.026)HS(0.765)IGY(0.001)S(0.2	2	-1.1065	10462.5	10911.7
Mia3	0.999988	0.00458474	74.849	SEFGS(1)LDR	2	-0.05389	20108.6	19958.4
Lamb1	0.934545	9.76E-10	67.234	KAAQNS(0.065)GEADY(0.935)IEK	3	0.46775	17460.8	20201.9
Ttbk2	0.999928	1.75E-16	142.77	VRS(1)EITQPDR	2	-2.0215	18219.4	18127.6
Marcks	0.996471	6.37E-23	91.812	AEDGAAPS(0.996)PS(0.002)S(0.00	4	0.13373	656605.8	638634.8
Fam117a	0.719434	4.73E-22	86.278	ERS(0.281)S(0.719)PVQGDHAVLG.	3	-1.3023	17212.8	19042.4
Rbm26	0.93077	0.00197142	95.483	T(0.069)NS(0.931)PGFQK	2	-0.69965	31458.1	26309.5
Vprbp	0.955576	0.0115268	74.92	KLS(0.044)QT(0.956)PK	3	0.46945	17396.4	14369.6
Zfp638	0.799601	5.77E-06	53.565	EKEQNETEERS(0.2)S(0.8)R	4	0.98471	7061.9	8639.1
Plekha6	0.982627	1.64E-21	81.448	T(0.004)KS(0.012)PAEEEEIT(0.983)F	4	-0.33676	11267.7	12013.4
Cdk13	0.841385	3.26E-16	66.294	CLLADLPLPELPGGDDLS(0.841)KS	4	1.1035	6404.8	6185.8
Trio	0.979423	7.06E-58	104.6	TRPGAVSPLNS(0.979)PLS(0.011)T(	4	1.32	108029.3	105741.5
Cltc	0.999759	1.31E-08	103.43	GILRT(1)PDTIR	3	0.43995	9465.5	9325.6
Slc25a46	0.908505	1.39E-58	118.05	S(0.046)FGS(0.909)GT(0.046)ELG+	4	0.55156	12889.3	12558.6
Dnmt1	0.953708	0.000952494	47.894	AEMADS(0.046)NRS(0.954)PR	3	0.70437	7990.7	9685.1

34418.8	36760.7	36366.0	33239.0	0.0	0.6	526
47894.0	55319.2	52902.1	51084.0	0.0	0.7	1202
60933.7	57646.7	60246.9	56513.0	0.0	0.6	180
54392.6	57632.4	56378.4	55262.0	0.0	0.3	44
6470.8	7449.8	6601.3	6460.5	0.0	0.7	238
50075.4	50171.4	48551.7	51059.0	0.0	0.4	1645;944;1151;758
7896.2	8203.6	6821.8	6999.2	0.0	0.8	1220
35617.6	35747.6	37425.0	35425.0	0.0	0.7	328;328
8970.0	10377.7	10050.6	9907.6	0.0	0.7	241
133878.7	137220.0	132501.2	129800.0	0.0	0.7	1113
36352.2	39916.4	52928.9	35388.0	0.0	0.9	822
13241.0	14067.4	12968.0	13791.0	0.0	0.5	186
32153.3	32206.8	34375.1	31778.0	0.0	0.5	291
16715.9	16737.0	17112.2	16557.0	0.0	0.3	292
4924.6	4925.2	4936.6	4696.9	0.0	0.5	1138
24709.3	25563.1	25275.6	26054.0	0.0	0.4	546
7809.5	7728.1	7894.8	8194.5	0.0	0.5	415
54019.9	57967.9	56652.0	57098.0	0.0	0.5	471
30071.9	30867.1	33030.7	30763.0	0.0	0.7	509
9822.4	10756.5	10830.7	10265.0	0.0	0.6	132
20143.0	20192.0	20810.8	20473.0	0.0	0.1	1724
17052.4	19246.0	18910.7	17709.0	0.0	0.7	1671
19096.5	18534.3	19018.7	19057.0	0.0	0.3	359
644683.3	654883.0	672433.5	653430.0	0.0	0.2	138
18702.6	17661.0	18793.2	19661.0	0.0	0.7	146
23560.5	28892.6	26461.8	27687.0	0.0	0.8	518
15246.7	16330.0	14421.3	17252.0	0.0	0.8	713
7949.6	8595.7	7912.6	7640.8	0.0	0.8	1874
11883.5	11173.4	12579.0	12154.0	0.0	0.6	1037;353
6172.4	6263.4	6092.2	6803.2	0.0	0.6	662
109881.7	109745.2	113361.7	107380.0	0.0	0.3	2423
9882.1	9207.0	9918.7	10153.0	0.0	0.6	394
11460.9	12455.9	12715.8	12517.0	0.0	0.6	35
9435.6	10142.7	9006.9	8534.8	0.0	0.8	125

Xpo1	0.965135	2.29E-78	125.23	ESPFST(0.002)S(0.029)AS(0.965)PI	4	-0.21199	78731.2	79042.6
Il16	0.943529	6.47E-09	69.331	S(0.039)AS(0.944)PET(0.017)PAS((	3	0.50246	11961.4	13111.4
Soga1	0.747214	1.96E-10	63.546	APS(0.747)PT(0.205)T(0.048)AAGI	2	-0.22434	19128.2	17719.6
Kif1a	0.969332	0.000627326	71.085	NLFGS(0.031)GS(0.969)LR	2	0.48989	10733.2	11396.9
Scara5	0.962988	4.79E-16	90.453	S(0.037)LS(0.963)KLNLCEDEGPKCHK	4	0.024835	14931.2	12536.6
Osbpl11	0.999875	5.43E-148	214.63	SFSLASSGNS(1)PISQR	2	-0.24363	46594.4	47316.5
Hecw1	0.983117	1.46E-57	173.62	S(0.014)YS(0.983)AGEAS(0.002)EV	3	0.14122	49842.1	46039.7
Gna12	1	4.84E-05	68.676	S(1)RDIDALLAR	3	1.2064	1248.3	1012.7
Bod11	0.999228	1.10E-38	87.881	GSDDVLLSGAVPEY(0.001)EVGHM!	3	-0.055214	19958.3	19776.3
Cep350	0.708916	1.97E-06	53.033	T(0.046)T(0.046)GS(0.198)GS(0.70	3	-0.50267	27443.6	24830.9
Pitpnm2	0.958393	6.69E-40	83.585	RAS(0.958)EIS(0.042)IASQVSGMA	5	1.1227	20974.5	20786.5
Zfp512	0.974077	1.72E-09	52.465	EQS(0.026)GS(0.974)EELAGPEPEP	3	-1.0888	4657.4	5080.7
Mast2	0.995562	0.0110063	76.1	VYS(0.004)S(0.996)MER	2	0.081477	7425.1	6530.5
Tmem145	0.990101	2.65E-12	65.085	VVT(0.01)MAEPGAAS(0.99)PPPPA	3	1.2937	12284.6	12634.3
Trip12	0.674909	0.000325441	64.244	AQT(0.001)APT(0.135)KT(0.189)S(	3	0.2	22744.4	22468.1
Syt11	0.994113	5.87E-15	83.54	GPS(0.994)PAS(0.006)CIDQLPIK	3	-0.73605	22001.4	22516.4
Epb41l1	0.825452	6.04E-16	91.616	ADS(0.825)S(0.174)DETDTSFAER	3	0.55511	6709.9	6874.9
Ckm	0.803966	8.58E-06	52.891	LS(0.001)VEALNS(0.804)LT(0.195)	3	0.61925	2531.5	2828.7
Dusp15	0.88316	1.58E-54	99.753	QGPPTSAPSATT(0.002)AS(0.013)S	3	0.011232	15318.8	14580.2
Borcs6	0.9993	1.49E-46	141.31	TLS(0.999)GEEEAES(0.001)VGVAS	2	0.39641	41050.8	38970.1
Tmpo	0.805851	1.03E-17	70.837	VDGAVIS(0.027)ES(0.806)T(0.167)	3	1.0127	15469.1	13478.9
Snd1	0.657071	7.17E-70	117.08	VSVTVDYIRPAS(0.298)PAT(0.657)I	4	0.13668	10884.5	9793.3
R3hdm1	0.868946	2.92E-40	141.86	AAS(0.131)T(0.869)DLGAGEAVVG	2	1.0976	117117.5	118060.9
Psm4	0.802164	9.24E-54	95.195	AAAASAAEAGIAT(0.802)PGT(0.18'	4	0.6796	18787.1	19452.7
Gigyf2	0.907602	4.68E-36	101.9	ALSSGGS(0.002)IT(0.069)S(0.908)I	3	-0.39959	53822.0	51625.2
Dmwd	0.99178	5.27E-05	62.357	S(0.008)NS(0.992)LPHPAGGGK	2	0.66801	68664.9	70959.4
Ppp1r12b	0.969998	4.36E-27	104.16	S(0.001)QS(0.028)DS(0.97)PPASPS	3	-0.20124	72257.3	72352.5
Ahnak	1	0.0201028	48.568	VQT(1)PEVDVK	2	0.82574	19266.5	17934.6
Dapk2	0.998312	1.85E-13	103.13	NCES(0.998)DT(0.002)EENIAR	3	-0.57866	19258.2	19661.1
Traf4	0.617022	3.41E-05	49.621	GS(0.617)LDES(0.289)S(0.086)LGF	3	1.9883	9715.8	8650.4
C2cd2	0.786761	1.90E-84	136.88	T(0.034)LS(0.027)S(0.143)S(0.787	3	-0.13122	32749.8	30539.2
Thrap3	1	3.32E-37	185.33	ASVSDLS(1)PR	1	-0.24296	83654.5	84723.5
Acot7	0.994558	4.48E-84	118.24	LIHSAPGLLDT(0.002)CS(0.995)QIP	5	0.81279	20337.6	20350.0
Bad	0.508581	0.0556417	53.47	QSAS(0.509)WT(0.491)R	2	0.47881	9962.9	9370.4

76120.8	79021.1	80107.7	79709.0	0.0	0.2	325
13774.3	12622.0	13286.4	13760.0	0.0	0.7	680
20243.1	19198.7	18750.4	20349.0	0.0	0.7	1334
10646.3	10679.9	11812.8	10977.0	0.0	0.6	1320
15609.8	13857.3	15793.5	14340.0	0.0	0.8	31
48527.4	49653.3	49346.8	46458.0	0.0	0.4	192
39375.8	44924.6	47810.1	45391.0	0.0	0.8	1063
830.7	899.7	1371.0	886.5	0.0	0.9	38
18590.8	19276.8	20570.3	19716.0	0.0	0.5	2008
26666.1	27182.2	28080.8	25353.0	0.0	0.6	2390
20939.4	21011.4	22876.5	20144.0	0.0	0.6	820
4513.8	4998.9	4719.1	4836.7	0.0	0.6	530
7698.9	7603.5	7494.0	7017.3	0.0	0.7	804
11971.9	11668.4	13785.5	12221.0	0.0	0.7	511
20715.8	22868.2	23796.6	20665.0	0.0	0.7	1460
21555.8	22223.6	23138.3	22117.0	0.0	0.3	113
6687.4	6917.6	7113.7	6672.2	0.0	0.4	766,758
3199.2	2530.0	3575.1	2636.4	0.0	0.9	164
13701.9	13991.5	15900.4	14637.0	0.0	0.7	194
40373.4	39868.0	40789.1	42300.0	0.0	0.4	43
13691.3	15087.0	14525.0	13935.0	0.0	0.7	277
10980.7	11427.5	10007.4	10898.0	0.0	0.7	428
121092.4	120082.6	122968.9	120810.0	0.0	0.2	843
19510.6	19125.0	18947.1	20909.0	0.0	0.6	250
49352.5	53300.7	54083.0	50716.0	0.0	0.5	26
66432.6	71070.6	70544.4	68835.0	0.0	0.4	487
75144.6	73834.8	76635.7	73970.0	0.0	0.3	21
20493.3	18901.7	21051.2	18972.0	0.0	0.7	2766
18891.0	17371.7	19954.8	21717.0	0.0	0.8	344
9904.8	9760.2	9337.7	9776.4	0.0	0.7	426
31353.7	32609.4	32725.1	31328.0	0.0	0.4	350
80605.1	84770.6	85554.6	83973.0	0.0	0.2	243
18614.2	20744.1	20218.7	19605.0	0.0	0.6	18
9848.7	9032.8	10596.5	10176.0	0.0	0.7	141

Rgl1	0.751989	6.64E-59	95.891	S(0.195)VS(0.752)VT(0.052)S(0.00	3	0.68195	10127.5	10406.7
Cdc42bpb	0.781973	1.51E-27	94.707	KLQESTQTVQS(0.011)LHGS(0.782)	3	0.18668	14642.5	12756.0
Wrnip1	0.9439	0.00157435	60.509	SGQT(0.001)Y(0.001)S(0.944)PS(0	2	-0.2396	11571.9	11561.5
Nefl	0.749733	4.59E-24	92.563	S(0.75)AYS(0.198)S(0.049)Y(0.001	3	-0.7353	27061.9	28443.0
Flna	0.765212	3.37E-12	63.936	EGS(0.23)YS(0.765)IS(0.004)VLYGI	3	0.24577	13200.6	14635.0
Jph3	1	0.00194221	84.06	QVS(1)VDEER	2	-0.25267	33250.7	33789.4
Gphn	0.990007	1.48E-08	109	AS(0.004)HS(0.99)AVDIT(0.006)K	3	0.21588	93639.7	92671.8
Tiam1	0.828348	1.10E-39	119.8	T(0.041)ES(0.828)LPS(0.131)AQQ\	4	-0.86681	23343.1	22505.4
Irs2	0.770141	0.00526691	43.03	GVPGHICY(0.04)S(0.77)S(0.19)LPR	3	-0.18589	15482.2	14412.4
Ctnnb1	0.999993	1.39E-71	184.48	RLS(1)VELTSSLFR	3	-1.0288	81677.1	77300.7
Gpr37l1	0.999916	1.23E-63	114.79	AEVS(0.108)S(0.715)S(0.177)IYFHI	4	0.462	50201.1	49878.9
Ncor2	0.547654	1.27E-12	53.674	SLGYHSGAGY(0.004)S(0.027)PDG\	4	3.2414	7326.4	7464.6
Sash1	1	6.53E-58	117.57	RVS(1)QDL DVEKPDASPTSLQLR	3	-0.31914	77754.4	76349.7
Pde3a	0.841084	0.00110199	74.077	RT(0.159)S(0.841)LPCIPR	2	-0.4945	15346.2	15742.9
Nefh	0.871955	1.11E-20	101.9	SAAGS(0.003)S(0.063)S(0.063)GF	3	-0.59804	16617.6	16697.2
Epb41l3	0.948631	2.07E-27	103.4	VIS(0.949)QT(0.051)NLITTVTPEK	3	-0.10908	155441.9	157999.6
Mapk8ip1	0.514286	1.94E-11	67.136	ASLSSDT(0.006)S(0.03)ALS(0.419)	3	2.0285	11802.0	10033.8
Dbn1	0.998073	6.02E-05	129.63	LS(0.002)S(0.998)PVLHR	2	-1.0347	54946.7	58354.8
Golga2	1	0.000317902	77.597	IKNGHS(1)PER	3	1.3063	21579.1	22406.7
Arid1a	0.859831	2.49E-21	76.998	NPQMPQY(0.053)T(0.016)S(0.011	3	-0.41219	23700.9	21596.1
Clip4	0.767966	1.78E-06	74.987	S(0.035)FS(0.768)T(0.171)T(0.011	3	3.9482	22663.3	20679.0
Zc3h11a	0.762848	3.86E-37	104.26	RLS(0.763)S(0.235)AS(0.002)TGKP	4	-0.20127	34844.1	34647.2
Fam219a	0.994837	1.53E-10	91.789	NSS(0.005)MGS(0.995)PVNQQPK	3	-0.44089	84161.4	81961.5
Ncoa6	0.999506	0.0157677	61.815	RS(1)PVSSSK	2	1.6297	30766.4	27374.6
Anxa5	0.999793	9.06E-09	92.495	GTVTDFS(1)GFDGR	2	-0.99582	15838.8	16194.9
Ube2j1	0.998336	3.33E-07	66.022	QIS(0.998)FKAEVNS(0.001)SGK	3	0.48491	51622.7	52124.3
Ubr4	0.968229	1.63E-07	84.759	LPQMET(0.032)DCFS(0.968)PR	3	-0.77995	22794.5	22493.3
Irs2	0.933602	3.68E-05	92.606	ATFS(0.001)GS(0.934)S(0.066)GR	2	0.14736	14328.9	13195.9
Prrg4	0.999933	0.000839711	105.2	HTPS(1)IIFR	2	-0.33288	16413.7	16835.4
Akap13	0.824298	3.94E-21	114.64	S(0.153)GS(0.824)LDS(0.028)ELS(C	3	-0.0035458	49530.8	57600.1
Tacc2	1	5.66E-05	97.452	VQNS(1)PPVGR	3	0.4124	39939.3	36827.8
Copa	0.712323	1.84E-06	77.324	NLS(0.712)PGAVES(0.288)DVR	2	-0.38399	15414.2	14556.1
Ppfia4	0.990677	0.0052931	93.143	LLS(0.991)PVVS(0.009)R	2	0.47789	6070.5	5393.5
Crebbp	0.788504	2.64E-07	74.649	S(0.139)IS(0.789)PS(0.073)ALQDLI	3	-0.064698	14037.8	14132.7

11628.0	10404.8	11303.0	11142.0	0.0	0.7	533
13969.2	14143.3	14043.0	14066.0	0.0	0.6	474
10842.3	11088.7	12003.0	11611.0	0.0	0.5	465
27121.8	27302.1	28511.4	28582.0	0.0	0.4	38
13069.5	13359.0	14511.1	13911.0	0.0	0.7	1520
30507.3	33064.8	33219.9	33352.0	0.0	0.5	506
90857.6	91556.2	99068.6	92482.0	0.0	0.5	305
21206.6	21847.4	23202.4	23443.0	0.0	0.6	1406
14138.4	14255.5	15892.9	14829.0	0.0	0.6	797
78915.5	78734.0	82067.6	82194.0	0.0	0.4	675
52400.6	52241.5	52754.7	50755.0	0.0	0.3	479
7718.0	7472.2	7861.9	7658.0	0.0	0.4	2017
85150.1	79141.0	80668.7	84581.0	0.0	0.6	87
16210.2	15773.4	15844.8	16697.0	0.0	0.4	310
16987.4	17579.6	16488.1	17315.0	0.0	0.4	49;49
152329.0	154060.4	165746.7	155970.0	0.0	0.4	481;463;481;481
10679.4	10949.2	12465.7	9799.1	0.0	0.8	364
57491.7	58855.5	56881.8	58727.0	0.0	0.4	142;142;138
19204.0	22123.5	22878.6	19546.0	0.0	0.8	55
23413.6	21639.5	24524.3	24024.0	0.0	0.7	769
20490.1	21151.1	22171.2	21883.0	0.0	0.6	581
36626.9	34132.8	37022.1	37246.0	0.0	0.6	740
82072.2	86545.9	83162.9	83827.0	0.0	0.2	72
27224.0	28735.3	30303.5	28163.0	0.0	0.7	1792
16763.9	16864.6	16223.1	16760.0	0.0	0.4	11
45859.5	51249.3	56242.7	45340.0	0.0	0.8	184
21439.8	22354.5	22914.9	22897.0	0.0	0.3	2616
13515.6	13932.1	14064.4	13929.0	0.0	0.4	605
18647.2	17736.9	17838.9	17440.0	0.0	0.6	164
52951.0	54164.2	56240.6	53131.0	0.0	0.7	2668;1339
39173.5	37909.0	40184.2	40349.0	0.0	0.5	2116
15269.1	16326.7	15110.6	14779.0	0.0	0.6	173
6182.6	5967.1	6087.5	5973.3	0.0	0.6	595
12303.0	13400.8	14092.2	13855.0	0.0	0.7	1926



Gopc	1	2.74E-05	47.082	RPMQAPPGHDQDS(1)LKK	5	0.35758	6666.6	6062.6
Samd14	0.617044	3.06E-12	92.495	SAPSS(0.002)DS(0.617)S(0.379)PS	3	1.0736	8882.4	8763.9
Mknk1	0.866257	9.09E-67	98.977	QLSQHEENELAEHEALAEGLCS(0.1	6	0.31741	14281.1	14202.9
Sh3pxd2a	0.71425	8.80E-17	95.414	AAS(0.319)QGS(0.714)ES(0.967)PI	2	0.27465	16938.4	17130.5
Mllt4	0.780052	1.18E-20	79.942	S(0.78)S(0.22)PNVANQPPS(1)PGG	3	-0.31842	53454.7	52906.4
Stmn2	0.986947	2.49E-58	120.66	ASGQAFELILKPPS(0.987)PIS(0.013	3	-0.65435	110312.1	107332.0
Napa	0.974819	4.56E-11	66.152	NS(0.009)QS(0.975)FFS(0.016)GLF	3	-0.069784	3936.8	3315.5
Bclaf1	1	4.46E-08	100.22	EKS(1)IFREES(1)PLR	3	0.5236	139949.0	144474.7
Uqcrc1	0.96733	1.74E-10	89.502	RLS(0.967)RT(0.033)DLTDYLSR	3	1.0431	11948.3	12330.4
Rab11fip5	0.810592	3.54E-41	109.22	RGS(0.947)VGEKGS(0.141)PS(0.81	5	-1.4543	38923.1	36004.0
G3bp1	0.944592	7.47E-31	88.09	NLPPSGAVPVT(0.055)GT(0.945)PF	4	0.35898	19087.6	20999.3
Epb41l3	1	5.88E-33	131.67	RAS(1)ALIDRPAPYFER	3	-0.014402	24333.0	24559.9
Fgd6	0.914315	1.38E-05	46.356	VT(0.044)LS(0.914)LNNEPS(0.041)	4	0.093586	3940.1	3833.8
Lyst	0.587733	4.12E-07	65.231	NKPSVLEDS(0.588)S(0.412)FER	3	0.24283	12635.2	12759.3
Ctnnd1	1	2.05E-14	108.14	SDFQVNLNNAS(1)R	2	0.33815	81040.2	79249.9
Osbpl7	0.999834	6.81E-07	97.195	LHGS(1)VPNLSR	3	-0.75919	9553.5	8853.6
Sap130	0.751833	1.21E-07	86.738	VVPQQIT(0.008)HT(0.241)S(0.752	3	-0.59959	5262.3	5787.7
Tgfbra1	0.791919	3.81E-06	59.68	HT(0.001)NPS(0.194)S(0.792)PS(0	3	-0.02376	3747.4	3508.5
Rims1	0.527329	5.23E-16	60.762	S(0.527)RS(0.424)QT(0.045)PLS(0.	3	0.68184	4027.6	4180.0
Zdhhc5	0.888549	9.90E-22	106.34	TSS(0.001)S(0.003)S(0.015)DDS(0.	4	0.020197	39699.5	41557.7
Dock11	0.805649	9.39E-71	103.78	EDS(0.806)RGS(0.181)LIPEGAT(0.(	3	-0.9313	68242.7	64012.7
LOC50140	0.999542	0.00492572	42.336	T(0.983)FNVHS(0.473)T(0.544)LS(	2	-3.957	8984.5	9739.9
LOC50140	0.982774	0.00492572	42.336	T(0.983)FNVHS(0.473)T(0.544)LS(	2	-3.957	8984.5	9739.9
LOC50140	0.544493	0.00492572	42.336	T(0.983)FNVHS(0.473)T(0.544)LS(	2	-3.957	8984.5	9739.9
Chd2	0.588332	0.00173507	52.966	KGT(0.031)VT(0.588)S(0.38)GEEAI	3	0.068307	19459.8	20750.3
Gap43	0.698008	1.13E-63	114.63	QADVPAAVTDAAAT(0.302)T(0.698	3	0.37592	90333.5	92298.8
Nefl	0.940939	2.03E-70	167.97	SAYSSYSAPVS(0.001)S(0.044)S(0.9	2	0.32187	65010.6	63528.9
Dhcr7	0.998495	0.00172521	56.258	S(0.002)QHNAS(0.998)KAK	4	0.19206	5889.5	7759.4
Strap	1	1.13E-07	58.98	CVLPEEDS(1)GELAKPK	4	-0.023744	13031.2	13996.6
LOC10255	0.998686	2.77E-32	117.48	VEVESGGLAAGT(0.999)PPLS(0.001	3	-0.56992	18664.2	18020.1
Dennd4a	0.591015	4.24E-14	76.586	AS(0.591)LGS(0.297)S(0.082)AS(0.	3	0.42174	6357.9	6193.5
Camsap1	0.782938	5.94E-08	56.882	TSPQAPGLVAS(0.217)IRS(0.783)PC	3	0.95773	12954.9	14567.0
Zkscan1	0.99683	1.10E-16	106.42	EAT(0.003)GLS(0.997)PQAAQEK	3	-0.76462	56119.1	58989.9
Ppfia1	0.798082	8.93E-07	97.195	CET(0.798)S(0.201)PPSSPR	3	-0.28673	15082.6	14616.4



5628.0	5639.7	6707.0	6407.2	0.0	0.8	122
7646.5	8944.8	8942.6	7951.9	0.0	0.7	150
14661.2	14806.6	14584.9	14687.0	0.0	0.1	384
19088.0	17835.8	18088.9	18382.0	0.0	0.6	981
50778.1	51628.8	57524.0	51389.0	0.0	0.6	1179
110807.9	113944.8	112250.4	109370.0	0.0	0.2	62
3822.9	3634.5	4002.2	3678.5	0.0	0.7	26
142459.7	141894.8	152036.0	142200.0	0.0	0.4	529
11070.1	10873.4	13473.5	11768.0	0.0	0.8	212
39519.5	39295.0	38941.4	38691.0	0.0	0.5	485;485
20404.9	21205.0	20886.6	19712.0	0.0	0.6	268
24068.4	24717.2	25082.1	24746.0	0.0	0.0	423;423;423;423
3849.3	4093.2	3988.6	3794.0	0.0	0.4	573
12587.3	13176.4	12247.7	13383.0	0.0	0.5	1500
80121.8	81697.3	84494.5	79451.0	0.0	0.3	851
8578.7	9410.8	9117.6	9044.8	0.0	0.6	249
5461.2	5659.5	5808.6	5402.9	0.0	0.6	417
3737.2	3576.4	3956.5	3699.8	0.0	0.6	853
3557.1	3904.4	3497.5	4619.5	0.0	0.8	239
44627.7	40172.7	44082.6	44378.0	0.0	0.7	593
68629.0	67114.0	71971.0	66187.0	0.0	0.6	1237
9390.2	9763.7	9085.7	9879.5	0.0	0.6	246
9390.2	9763.7	9085.7	9879.5	0.0	0.6	238
9390.2	9763.7	9085.7	9879.5	0.0	0.6	244
20333.6	20024.8	20452.8	21389.0	0.0	0.5	1309
102104.5	92604.5	100713.3	97642.0	0.0	0.7	172
63989.2	65406.9	66227.1	65104.0	0.0	0.1	50
6226.0	6194.0	8249.2	5866.4	0.0	0.9	10
12712.9	12559.3	14163.8	13887.0	0.0	0.7	312
17375.0	17829.2	18564.5	18849.0	0.0	0.5	223
6063.6	6414.6	5838.4	6769.6	0.0	0.7	1405
13842.5	13148.9	15513.5	13608.0	0.0	0.7	584
57612.0	57061.5	60550.4	58894.0	0.0	0.4	13
15948.3	15184.9	15736.8	15726.0	0.0	0.5	739

Ppfia4	0.798082	8.93E-07	97.195	CET(0.798)S(0.201)PPSSPR	3	-0.28673	15082.6	14616.4
Szt2	0.825777	1.07E-06	71.879	GLGGVGG(0.138)S(0.826)PS(0.03)	2	0.49101	12685.3	12681.4
Snrnp70	1	0.0041103	102.62	S(1)RDKDER	2	-0.66191	34718.9	38535.7
Ahnak	0.758386	1.32E-52	115.58	AS(0.001)LGS(0.056)LEGEAEAET(C	3	1.2469	60681.1	60130.7
Samd4a	0.551095	1.43E-15	87.157	S(0.134)DS(0.551)VDY(0.076)GQT	3	-0.067987	8091.9	7631.1
Mast4	0.915389	1.33E-05	53.981	TPSPTQPT(0.084)S(0.915)PQR	2	0.78097	2628.8	2428.7
Cep170	0.997476	1.03E-26	81.157	QLEEQS(0.003)AAAS(0.997)EEALF	3	-1.5164	4916.1	5537.7
Zc3h18	0.990205	0.0589358	57.859	QT(0.01)RT(0.99)PPR	2	0.10634	3473.9	2904.2
Als2	0.880022	3.46E-10	46.847	S(0.002)QT(0.005)QT(0.031)LES(0	3	-2.0588	3459.8	3479.0
Lad1	0.670068	0.000123901	52.372	GT(0.004)AT(0.047)EKAS(0.67)PT(	3	1.0989	25625.9	20154.7
Gripap1	1	0.000134242	48.288	ECVGS(1)PDPDLEPGEAN	2	-1.0653	9082.5	9296.0
Fam126a	0.999884	1.70E-12	100.23	S(1)FEQVSGVPGPR	2	-0.20794	23154.7	23657.2
Ppm1j	0.952903	8.85E-66	153.06	AIS(0.001)PPPGALET(0.953)PKS(0.	3	-0.17407	45538.9	47914.3
Arhgap21	0.979102	7.52E-43	97.304	RNS(0.979)EGS(0.003)EAS(0.017)(	3	-0.2259	9347.3	10308.1
Tgs1	0.99956	1.27E-07	45.363	SHELDIDENPDS(1)EVDDNGFHLGFI	4	0.21289	6037.7	5912.8
Fbxo42	0.749124	2.51E-31	76.415	APLS(0.165)PS(0.749)LNS(0.571)R	3	0.9049	13504.7	12573.9
Fbxo42	0.570595	2.51E-31	76.415	APLS(0.165)PS(0.749)LNS(0.571)R	3	0.9049	13504.7	12573.9
Gatad2b	0.980075	2.39E-09	58.5	LTPSPDIIVLS(0.98)DNEAS(0.01)S(C	3	-2.6733	11594.5	10396.4
Ablim2	0.985578	1.49E-52	114.87	QSYGESPQLLS(0.986)PT(0.013)PT(	3	-0.8354	15364.1	17284.1
Nol4l	0.604489	6.03E-07	47.088	GGAS(0.045)T(0.155)PT(0.604)PP	3	-1.8612	4566.2	5794.1
Enah	0.825525	4.08E-05	49.595	T(0.144)NT(0.826)MNGS(0.766)KS	4	-1.6385	71117.1	75820.9
Sh3bp5l	0.816768	0.00332184	98.04	T(0.817)VAS(0.183)DLQK	2	-0.51725	92808.4	86566.3
Usp8	1	4.60E-09	70.41	QEMGREDS(1)GAAAK	3	0.75969	19074.5	18798.9
Tns1	0.999988	6.32E-53	94.767	TDKTDEPVSGAAIAPAALS(1)PQEK	4	0.12083	72153.5	71392.7
Map2	1	6.69E-15	96.55	VAIIRT(1)PPK	2	0.82464	466051.4	503154.8
Pi4k2a	0.706778	2.48E-35	104.97	VAAAGS(0.707)GPS(0.295)PPCS(0	2	0.40723	16726.1	17375.1
Epb41l3	0.998817	2.08E-147	212.32	VESISVGS(0.001)VS(0.999)PGGVK	4	-3.3783	254982.9	259793.3
Srrm1	0.999177	0.00746253	57.149	QRS(0.999)PPVT(0.001)K	3	-0.54023	72469.6	72820.9
Ksr1	1	9.23E-06	71.879	AAEPHFGT(1)LPK	2	0.24678	9428.0	8935.2
Tln1	1	5.63E-28	147.12	VLVQNAAGS(1)QEK	2	-1.5187	37979.7	37682.3
Tp53bp1	0.656776	3.49E-16	55.779	GREDMVAEDVCIDLT(0.041)CDS(0	4	-0.4833	3357.9	2562.7
Gatad2b	0.915886	2.69E-38	107.56	LQQAALS(0.916)PT(0.066)T(0.01	4	0.17476	23345.5	23203.0
Apba2	0.630082	0.000207696	74.92	T(0.63)RT(0.37)PEERPK	4	-0.51481	17409.5	17045.0
Pcnxl3	0.983309	0.000100287	46.337	LFPELEERS(0.983)LET(0.017)AR	3	0.75039	4945.7	5157.4

15948.3	15184.9	15736.8	15726.0	0.0	0.5	613
12696.9	12483.4	13220.2	13195.0	0.0	0.3	718
33775.8	36904.7	35162.7	37311.0	0.0	0.6	268
64491.8	60490.1	67860.0	61019.0	0.0	0.6	5450
8013.9	7276.9	8748.8	8232.1	0.0	0.7	67
2572.0	2883.4	2350.2	2563.5	0.0	0.8	1130
4530.5	5462.2	5015.1	4836.3	0.0	0.8	226
2610.8	2852.4	3934.4	2399.8	0.0	0.9	696
3723.9	3485.3	3638.5	3773.6	0.0	0.5	1343
28002.2	25487.2	26840.1	23080.0	0.0	0.8	212
9776.3	9315.8	10145.3	9313.6	0.0	0.6	826
24942.4	24412.5	24465.5	24456.0	0.0	0.4	453
40917.4	46842.9	47563.2	42923.0	0.0	0.7	59
10468.1	10087.2	10586.0	10114.0	0.0	0.6	1661
6315.9	5577.6	6995.0	6096.3	0.0	0.8	431
14400.3	12844.2	14008.9	14518.0	0.0	0.7	367
14400.3	12844.2	14008.9	14518.0	0.0	0.7	370
10727.3	11006.2	11215.4	11218.0	0.0	0.5	129
15571.5	15720.6	17243.6	16320.0	0.0	0.7	375
5696.8	5625.7	5841.8	4944.2	0.0	0.8	378
70174.8	74339.7	74948.3	72626.0	0.0	0.4	716
86077.4	89038.4	87637.3	94650.0	0.0	0.6	339
19022.0	18985.3	18503.6	20666.0	0.0	0.6	146
75520.4	76683.7	74408.6	72825.0	0.0	0.4	606
448586.9	507917.4	473452.0	467820.0	0.0	0.6	1733;1647
16558.4	16761.2	18064.4	16956.0	0.0	0.5	43
256472.3	260437.5	278958.8	248950.0	0.0	0.6	980;962;1299;745
69273.1	74215.4	72150.6	72955.0	0.0	0.3	580
9563.7	10156.0	9439.4	8950.9	0.0	0.6	413
37139.0	36497.8	39006.6	39799.0	0.0	0.5	2040
3345.3	3222.2	2991.3	3258.0	0.0	0.8	631
23065.5	23848.2	23781.6	23530.0	0.0	0.0	485
15954.7	17284.8	17550.3	16694.0	0.0	0.5	305
4366.7	5295.1	4730.8	4765.4	0.0	0.7	1015

Inf2	1	1.07E-05	52.814	RQEEFAPDS(1)DDNKAK	3	0.24203	10035.6	9943.4
Epb41l1	0.999681	1.47E-09	95.236	RLPSSPAS(1)PS(1)PK	3	-0.30025	93501.3	94872.2
Ppp3ca	1	0.0056952	83.948	GFS(1)PQHK	2	0.22729	41984.7	41104.7
Hecw2	0.969982	1.23E-09	99.069	S(0.029)HS(0.97)AGEVGEDS(0.001	2	-0.16255	23489.8	21533.5
Dmxl2	0.717674	2.40E-15	88.427	KQS(0.282)ES(0.718)VEEHVEQVK	4	-0.24895	45069.0	45002.0
Ahsg	0.998624	3.53E-46	104.81	HAFS(0.001)PVAS(0.999)VES(0.89	4	0.075278	173451.4	173169.9
Ksr1	0.811211	9.95E-07	88.282	S(0.027)KS(0.811)HES(0.162)QLGI	4	0.89039	68933.3	60238.2
Nup153	0.655316	2.63E-23	92.264	VDSAALS(0.655)S(0.344)PSMFVLC	3	-0.10213	4139.6	3106.1
Camsap3	1	4.49E-08	59.728	FIHNALS(1)HCCLAGK	3	1.0423	11052.9	10968.4
Scaper	0.906454	4.46E-27	76.899	AGAVVFS(0.906)CLIANRPDGNS(0.	5	-0.13218	13788.6	15305.3
Dhx30	0.980851	9.98E-11	68.83	GGG(0.019)FEMT(0.981)DDDSAIR	2	-0.62222	23368.2	26559.6
Ppme1	0.812178	1.64E-15	128.74	QCEGIT(0.123)S(0.812)PES(0.056)	2	-0.1159	71392.6	76008.5
Usp45	1	0.00865872	63.624	KWPS(1)JEER	3	0.40473	21267.9	22924.4
G3bp2	0.988414	2.85E-135	196.4	S(0.011)AT(0.988)PPPTEPASLPQEI	3	-0.7067	493936.3	503111.0
Rnf169	0.928338	8.42E-37	103.53	TGLEQCPARLS(0.928)DS(0.072)EN	3	0.56473	10119.9	10910.9
LOC100911	0.630299	0.0171293	48.284	KES(0.014)Y(0.023)S(0.222)VY(0.6	3	2.0321	20192.1	19464.8
Srrm2	0.502966	0.0110719	40.477	S(0.503)RS(0.503)VS(0.994)PCPK	3	0.27203	16970.6	16656.7
Hmox1	0.998511	2.38E-53	149.67	QRPAS(0.999)LVQDT(0.001)TSAET	3	-2.6831	14571.0	16426.3
Adcy6	0.981512	1.67E-14	121.13	NVEPPS(0.982)PT(0.018)PAAR	2	0.30296	25454.2	25656.8
Scn11a	0.7354	1.79E-26	113.19	SSLNSLQAS(0.242)S(0.735)FS(0.02	2	0.91482	33941.3	36347.4
Fam126b	0.750829	0.0267645	56.013	T(0.23)AS(0.751)AS(0.007)S(0.01)	2	-0.96455	7196.2	7523.8
Kif21a	0.878871	0.00104961	60.943	LEES(0.121)S(0.879)REER	2	-1.4211	13535.7	14858.8
Ppp1r7	0.840173	0.00585912	58.17	S(0.84)LET(0.031)VY(0.129)LER	2	-0.84314	6060.2	5212.6
Phldb2	0.789498	0.000133027	77.192	KS(0.077)S(0.789)IS(0.127)S(0.006	3	-0.049987	24670.6	21837.4
Zfp318	1	0.000102324	71.153	RGS(1)PS(1)PPR	3	2.0164	6256.6	6608.8
Zfp318	1	0.000102324	71.153	RGS(1)PS(1)PPR	3	2.0164	6256.6	6608.8
LOC100911	0.973049	1.92E-26	99.844	GKS(0.055)AS(0.941)S(0.973)PKPL	4	-0.15895	477811.2	531510.1
Mctp2	0.999991	8.78E-09	123.51	LCGSHS(1)PLR	2	0.69383	136848.0	141205.8
Fhod1	0.832313	7.70E-05	54.237	ELKPT(0.038)GS(0.832)PGCS(0.12)	3	0.46826	13145.7	13782.7
Sash1	0.587978	6.79E-11	41.24	S(0.006)S(0.013)S(0.033)GT(0.078	5	-0.94943	4870.8	4690.1
Dync1i1	0.854961	3.77E-13	62.082	S(0.855)VS(0.067)T(0.076)PS(0.00	3	-0.12897	12928.6	13325.3
LOC100361	0.540069	3.21E-84	122.79	NTGVSSASRSPGT(0.027)PT(0.21)	4	-0.66659	33088.5	35460.0
Ppfibp2	0.995858	0.00427458	56.328	LS(0.004)CS(0.996)LEDLR	2	-0.87915	89583.3	84886.9
LOC100911	1	1.25E-47	86.791	EILVDEKDFQPS(1)PDLIPPGPDVQH	4	-0.44749	9297.4	8459.1

10303.3	9885.2	10218.9	10851.0	0.0	0.5	1323
91987.2	96573.2	97628.1	92389.0	0.0	0.3	544;536
36981.4	44256.9	38575.9	39906.0	0.0	0.7	444
23084.6	22230.2	23388.3	24003.0	0.0	0.6	1048
45204.7	44231.6	46517.0	47538.0	0.0	0.4	2623
221371.0	199587.7	200830.2	180220.0	0.0	0.8	313
67214.0	65554.3	68963.9	66241.0	0.0	0.6	299
3513.5	3286.3	3495.5	4217.1	0.0	0.9	1086
10715.6	10747.3	11212.2	11507.0	0.0	0.4	1134;1135
14463.2	14669.1	14254.6	15604.0	0.0	0.6	1059
23466.8	25754.5	23878.8	25397.0	0.0	0.7	193
74566.5	75969.8	72356.8	78595.0	0.0	0.5	243
22844.0	22115.8	22304.7	24115.0	0.0	0.6	451
463864.5	497764.8	501172.6	494680.0	0.0	0.4	227
11935.7	11074.4	11992.3	10638.0	0.0	0.7	100
21381.2	19105.2	21028.8	22271.0	0.0	0.7	41
16290.1	15556.7	17280.0	18199.0	0.0	0.7	923
13068.5	14279.7	15189.7	15584.0	0.0	0.8	242
26338.2	27574.9	26131.5	25479.0	0.0	0.4	53
30015.5	33609.3	35434.1	33510.0	0.0	0.7	447
8614.1	7338.8	8253.8	8264.8	0.0	0.8	449
13591.2	15133.2	14277.1	13517.0	0.0	0.6	566
5625.8	4787.8	5976.2	6513.9	0.0	0.8	322
26164.6	23646.9	24200.5	26456.0	0.0	0.7	456
6009.9	6277.4	6860.7	6160.8	0.0	0.6	120
6009.9	6277.4	6860.7	6160.8	0.0	0.6	122
440485.0	495762.8	513013.2	473580.0	0.0	0.7	10
129428.5	137121.0	143112.8	136400.0	0.0	0.5	863
13994.7	13910.1	15228.2	12704.0	0.0	0.7	632
5496.9	5091.1	4675.1	5629.9	0.0	0.8	1039
13552.9	12740.8	13879.5	14081.0	0.0	0.5	85
34254.9	32360.8	36419.4	36334.0	0.0	0.6	460
96030.7	90611.4	91220.5	94751.0	0.0	0.6	236
8519.4	9339.0	8144.8	9382.9	0.0	0.7	331

Tmf1	0.848291	0.000111153	59.709	IDS(0.001)FS(0.073)VQS(0.848)LD	2	0.90418	21255.9	20070.3
Arhgef28	0.999338	0.00202622	52.527	S(0.999)VPGTTLSEFR	2	-0.23248	10879.7	11342.1
Rictor	0.904137	2.84E-30	84.946	T(0.027)FS(0.904)HDGGGLPS(0.05	3	0.73705	35035.0	33584.2
Tbc1d1	0.930836	0.000239175	68.515	KS(0.069)FS(0.931)QPGLR	3	-0.31821	33818.4	35814.3
Kif1c	1	0.00550388	58.172	QRS(1)APDLK	2	0.14609	47820.5	48719.5
Map1b	0.75737	1.82E-30	87.654	ES(0.059)S(0.853)PT(0.25)Y(0.078	3	-0.12654	158423.6	163473.2
Itgb4	0.585984	2.48E-46	102.21	GS(0.414)PDS(0.586)IILAGQSAAP	3	-0.7874	11433.4	10708.2
Sh3pxd2a	0.873671	3.07E-98	190.8	AAS(0.874)QGS(0.112)ES(0.015)PI	2	0.49192	9468.1	10059.0
Nefh	1	2.68E-53	129.9	SPAS(0.004)VKS(0.996)PGEAKS(1)	5	0.76719	208635.4	231284.5
Msl3	0.955075	1.07E-11	100.69	S(0.018)S(0.026)S(0.955)PIPLT(0.C	2	-0.11101	36399.4	33391.2
Ralgps2	0.964825	1.15E-45	100.7	S(0.035)AAS(0.965)REDLAGPDVG/	3	0.48359	48174.7	53722.5
Prkd1	0.999752	3.94E-42	147.9	RLS(1)NVS(0.732)LT(0.253)GLGT(C	3	-0.10584	30722.2	30828.8
Casp9	0.906699	1.35E-52	126.26	AFDS(0.093)DS(0.907)EPDAVPYQF	3	-0.17387	14867.9	15581.7
Pacs2	0.762976	6.56E-111	165.53	LRPYFEGLSHS(0.002)S(0.234)S(0.7	4	-2.1199	17403.6	18696.9
MAST1	0.953048	1.22E-29	83.312	LEEQDS(0.953)GGG(0.023)NT(0.02	3	0.82432	18658.3	17903.8
Dyrk2	0.908755	0.0175821	43.982	VY(0.004)T(0.08)Y(0.909)IQS(0.00	2	1.9599	26694.6	27601.7
Sept4	0.895467	5.09E-72	101.86	ATLWSQPSDSQQYFCPPAPLS(0.89	4	0.89044	41446.8	43493.8
Ppp1r9a	0.714135	2.15E-07	44.955	T(0.01)EAVS(0.213)PT(0.714)VS(0	3	-0.66084	4904.5	5126.4
Depdc5	0.588425	2.11E-23	97.502	SASSCDVS(0.091)S(0.588)S(0.319)	2	-0.73378	8458.6	8770.3
Arhgap32	0.710751	0.00293974	56.956	S(0.007)LLVS(0.186)S(0.711)PS(0.(	2	1.2428	21659.1	22052.4
Plec	0.999979	8.60E-134	177.12	AGTLSITEFADMLSGNAGGFRS(1)R	4	-1.9911	191604.0	191345.8
Brd8	0.98833	1.86E-10	66.826	AT(0.988)PPPS(0.012)PLLELLK	3	-0.018205	5583.8	5281.4
Sugp2	0.707729	0.0346247	61.09	QAS(0.708)GS(0.292)LR	2	-0.21365	12815.3	12164.8
Ppm1e	0.78455	0.00634572	90.135	VDS(0.215)FT(0.785)DR	2	0.080078	57173.5	54434.4
Rai14	0.848812	6.84E-05	89.663	S(0.849)IT(0.049)S(0.049)T(0.049)	2	-0.92439	22386.6	22173.0
Xkr4	0.792806	3.38E-21	74.859	TVVSSGS(0.002)AAGEGEARPS(0.2	3	0.42343	7014.1	8158.2
Akap9	0.533157	1.82E-40	123.72	NS(0.533)S(0.407)PDEVLVS(0.056	3	-0.23791	34769.0	36389.1
Zfp217	0.928686	0.0698021	49.423	AS(0.071)S(0.929)PACK	2	-0.56241	13744.4	11933.3
Tom1	0.994611	2.50E-127	164.64	AADRLPNLAS(0.995)PS(0.005)AEG	4	0.35452	59196.3	58144.2
Atp6v1d	1	0.00443729	47.352	EKS(1)EKDLER	3	-1.2429	33650.3	29191.1
RGD15611	1	8.16E-18	74.793	LEFQQQLGEAPGDAS(1)P	3	-0.55642	5956.5	5908.2
Mprip	0.915537	1.44E-53	97.771	AATEALGEKS(0.916)PEGT(0.08)T(C	4	1.3449	51707.4	50518.4
Magi1	0.969683	5.03E-43	151.83	KDS(0.97)QNS(0.018)S(0.01)QHS(I	3	1.2069	45841.8	42381.5
Tln1	0.900423	7.47E-53	126.02	LLS(0.099)DS(0.9)LPPSTGTFQEAQ	3	0.79921	26005.2	27458.0

21987.0	20990.5	22000.2	21747.0	0.0	0.5	330
9843.8	10982.1	11100.0	10705.0	0.0	0.6	757
32599.3	34072.4	35520.7	33903.0	0.0	0.4	1409
33893.9	34033.9	35406.3	36416.0	0.0	0.5	6
44843.8	46933.1	48267.4	49366.0	0.0	0.5	1086
178146.5	168304.8	167606.1	175390.0	0.0	0.6	1790;1664
11419.3	10986.2	12105.6	11225.0	0.0	0.6	1489
9709.5	9738.9	10170.5	9985.9	0.0	0.4	978
210394.5	229253.6	226007.5	209710.0	0.0	0.6	628
36435.2	34734.5	37462.4	36423.0	0.0	0.6	345
49944.5	52353.7	51555.7	51355.0	0.0	0.5	296
30028.2	31536.9	33067.0	29040.0	0.0	0.6	203
16108.0	14747.2	15431.2	17429.0	0.0	0.7	350
16981.0	17575.2	18188.3	18515.0	0.0	0.5	331
20472.0	17747.8	17679.6	22893.0	0.0	0.8	346
27095.1	27315.3	27503.7	28409.0	0.0	0.2	517
43815.3	44430.7	43369.8	43863.0	0.0	0.3	430
6222.8	5125.3	5745.7	5750.1	0.0	0.8	201
9083.1	9138.8	8669.8	9097.9	0.0	0.4	389
20610.4	23137.7	21523.6	21115.0	0.0	0.6	243
187834.8	193372.9	206280.3	184040.0	0.0	0.5	4385;4271;4242
5722.7	5756.5	5649.0	5557.6	0.0	0.4	264
13263.3	11628.8	14572.0	12908.0	0.0	0.8	621
56784.8	58318.8	55820.6	58065.0	0.0	0.3	547
21382.3	22276.4	23250.5	21909.0	0.0	0.4	243;264
7242.1	7449.4	7331.3	8141.7	0.0	0.7	208
37044.2	37532.8	36061.4	37060.0	0.0	0.4	1500
15911.1	14144.4	14339.1	14048.0	0.0	0.8	606
60604.7	61687.9	62340.4	57950.0	0.0	0.4	462
31692.3	32211.2	31792.2	32674.0	0.0	0.6	216
6502.4	6064.5	6634.6	6084.6	0.0	0.6	82
49955.1	51213.0	54625.9	49799.0	0.0	0.5	2344;2367
46556.8	45365.6	47610.2	44867.0	0.0	0.5	740
25187.3	25197.9	27791.2	27449.0	0.0	0.6	1227



Rtn3	0.79502	2.34E-07	51.301	SEMYENS(0.014)EQQQAHAET(0.7	3	2.0799	1942.4	2148.3
Sipa1	0.786314	3.95E-21	112.24	TEFLHS(0.013)HNS(0.2)LS(0.786)P	3	0.1739	9128.2	9069.4
Lrp6	0.898552	2.86E-06	47.991	GT(0.001)Y(0.005)FPAILNPPPS(0.8	3	0.19022	6367.2	6441.5
Dock7	0.734348	3.26E-53	94.384	T(0.003)AS(0.066)GDDACNLT(0.73	3	0.31607	23576.9	25355.2
Epb41l3	0.876714	1.00E-44	138.46	VIS(0.758)QT(0.242)NLIT(0.877)T(	4	-1.6647	203602.3	203543.5
Slc25a3	0.804627	6.84E-84	122.36	ANPFNAPHLQLVHDVS(0.805)GPR	4	0.13049	22169.5	23101.0
P2rx7	0.758343	6.04E-33	76.97	LS(0.758)LS(0.221)LHHS(0.02)PPIF	4	-1.0925	5257.2	5154.1
Tnks1bp1	0.999964	2.04E-05	55.011	WLDDLLAS(1)PPPNSGGAR	3	0.24003	3042.4	2929.4
Pcbp2	0.678916	1.94E-54	78.531	LHQLAMQQS(0.002)HFPMT(0.004	4	1.3753	21188.0	20470.6
Otud4	0.981738	1.27E-17	96.153	VEGAHS(0.982)LS(0.018)EASVSSK	3	0.13283	25047.5	23819.5
Slc26a2	0.910772	0.0120063	77.923	GS(0.013)S(0.077)T(0.911)DLR	2	-0.18659	25791.7	24352.6
Plekha5	0.906682	1.60E-09	59.539	SMPAGLALQAVS(0.907)PQS(0.093	3	0.064566	2146.0	2277.5
Pcbp2	0.754187	7.47E-70	118.85	PKPS(0.051)S(0.195)S(0.754)PVIF	3	0.64736	70888.1	67574.3
Eef2k	0.731951	4.30E-09	61.508	T(0.004)ECGS(0.308)T(0.732)GS(0	3	0.0049707	27875.3	26815.2
Eps15l1	0.75778	1.18E-38	85.777	FHDT(0.168)S(0.758)S(0.071)PLM	4	-0.91766	9968.5	10701.6
Nedd4l	0.999714	7.23E-67	128.07	DTLSNPQS(1)PQPSPYNPKPQHK	4	-0.2755	136955.4	131871.1
Fam21c	0.974839	5.47E-32	90.385	GQPAQGPVS(0.975)EES(0.993)PP	4	0.042543	117430.0	127022.7
Gtf3c2	1	0.002004	45.28	GLDQPES(1)PHPK	3	-0.4673	5154.0	4367.9
Srrm2	0.988744	7.00E-07	89.624	DKS(0.011)HS(0.989)HT(0.939)PS(	4	-0.19562	14683.1	17925.8
Bptf	0.981293	0.0059463	70.412	VQS(0.981)PPLT(0.019)R	2	-0.23191	28142.5	27588.5
Gpsm2	1	0.000474965	53.3	RHS(1)MENMELMK	3	-0.54666	39709.1	37119.6
Mvb12a	1	1.10E-09	94.487	GLS(1)LDQPK	2	0.78049	137277.4	134986.3
Eif4ebp1	1	0.00122999	42.843	FLMECRNS(1)PVAK	3	1.5194	8004.7	7288.7
RGD13075	0.998926	1.52E-98	115.93	NS(0.999)PGLGS(0.001)LVSPHGPH	5	-1.1329	45125.0	45139.1
Bnip3	1	1.77E-05	73.415	ILLDAQHES(1)GR	2	0.077188	17030.3	16517.3
Mtch1	0.843848	7.12E-06	70.628	RVS(0.844)S(0.156)GSCFALE	2	-0.85289	16993.3	21330.6
Gripap1	0.989963	1.10E-80	172.74	TGLEELVLS(0.001)EMNS(0.99)PS(C	2	-0.4007	166521.9	158811.3
She	1	0.00492874	43.604	RGS(1)KDPLVK	4	0.80939	38283.8	39809.2
Peg3	0.997475	3.89E-32	94.389	S(0.002)GRET(0.997)PPPRPSHAFS	5	-0.1575	25431.5	25276.2
Limch1	1	5.63E-28	147.12	SINHQIES(1)PGER	2	0.89808	80977.0	83908.5
Ppap2b	1	0.0436193	57.708	AIVPES(1)K	2	-1.2287	15502.4	16935.3
Tox2	0.920958	9.01E-11	66.708	SGIAHS(0.014)S(0.064)PS(0.921)P	3	1.2331	14475.6	13602.8
Atxn2l	0.582847	0.000151823	73.887	EIES(0.583)S(0.417)PQYR	3	1.6269	6529.4	6057.1
Slc12a6	0.956222	3.30E-26	78.708	LT(0.007)S(0.036)IGS(0.956)DEDE	3	0.50812	15546.6	15110.0

1856.3	1729.8	2266.7	2085.7	0.0	0.8	503
9486.8	10250.0	9697.6	8366.7	0.0	0.7	837
6664.9	6162.0	7093.4	6661.4	0.0	0.6	1490
23673.4	22868.2	27818.9	23571.0	0.0	0.8	460
195116.9	197475.8	216956.1	201540.0	0.0	0.5	487;469;487;487
21023.5	22374.3	24213.3	21216.0	0.0	0.7	26
4629.5	5198.1	4936.7	5248.9	0.0	0.6	440
3207.1	3256.3	3243.0	2889.0	0.0	0.7	686
21594.1	21157.7	22455.4	21083.0	0.0	0.4	272
22914.3	24004.4	26019.3	23396.0	0.0	0.6	851
24418.6	23183.9	26536.6	26546.0	0.0	0.7	37
2447.7	2317.2	2485.7	2225.5	0.0	0.7	385
66934.0	71879.1	71784.0	66430.0	0.0	0.5	189
25966.6	27539.7	28096.8	26865.0	0.0	0.4	71
11208.6	11537.5	10319.7	10751.0	0.0	0.7	107
126894.7	134591.1	143625.7	126570.0	0.0	0.6	467
121241.4	118718.7	130983.7	124370.0	0.0	0.6	381;381
4328.0	5135.4	4673.9	4358.1	0.0	0.8	165
15020.0	16035.2	16883.5	15802.0	0.0	0.8	471
28817.7	27354.9	29584.3	29549.0	0.0	0.5	2472
39233.1	39773.4	40380.8	38570.0	0.0	0.4	389
140916.0	137242.0	149898.7	135520.0	0.0	0.6	168
8047.8	7736.3	8394.8	7745.6	0.0	0.6	64
43653.5	45973.9	46560.8	44458.0	0.0	0.3	511;356
17257.8	18389.1	17423.2	16160.0	0.0	0.6	48
19161.4	17972.2	20415.4	20418.0	0.0	0.8	364
155459.0	162926.0	167232.1	161680.0	0.0	0.4	651
40180.7	41246.3	40998.5	38747.0	0.0	0.4	257
25575.9	24796.4	27198.1	26043.0	0.0	0.4	25
82474.6	81260.6	86455.4	85333.0	0.0	0.3	816;830
17416.5	16089.1	16763.8	18148.0	0.0	0.7	14
13730.7	15102.4	14854.2	12815.0	0.0	0.7	192
6905.6	7010.2	6396.7	6534.2	0.0	0.7	303
17272.8	14930.9	16340.6	17762.0	0.0	0.7	1032

Nufip2	0.816538	0.000301547	80.96	NDS(0.183)WGS(0.817)FDLR	2	-0.66072	7023.0	7112.9
LOC10091	0.864928	1.52E-11	53.553	S(0.865)LDGVS(0.135)ENHDAGPD	4	1.1298	2972.5	2680.9
LOC10254	0.848804	4.37E-40	123.83	T(0.105)HS(0.849)T(0.038)S(0.007	2	0.54368	38707.2	39970.5
Rtn4	0.999729	3.89E-26	75.897	DKEDLVCS(0.044)AALHS(0.956)PC	5	0.091073	123096.4	118784.9
Bclaf1	0.9569	9.22E-30	88.283	SQEEPKDTFEHDPS(0.043)ES(0.957	5	0.57482	26842.4	26885.4
Szrd1	0.974751	2.57E-51	110.26	ILGS(0.025)AS(0.975)PEEEQEKPIII	4	-0.30605	34256.1	32250.4
Ppfia3	1	1.35E-09	97.965	LAPPS(1)PAR	2	-0.25497	60360.3	63503.7
Ahnak	0.916109	4.02E-41	108.44	GGVTGSPEAS(0.015)VS(0.068)GS(	2	-0.63867	203518.8	191894.3
Nmnat1	0.594562	2.91E-12	69.379	S(0.016)HPQS(0.39)S(0.595)PVLEF	3	-0.27287	15845.9	16423.0
Akap13	0.948991	2.45E-07	54.764	S(0.051)NT(0.949)EEALKGGPLMK	4	1.6844	12337.1	14112.9
Sec16a	0.830011	2.92E-05	69.846	YSEPERPS(0.17)S(0.83)R	2	-0.13022	59897.6	48997.0
Sash1	0.912078	3.34E-43	97.506	QT(0.083)S(0.912)KGEDVGY(0.003	3	0.45439	18386.3	16925.4
LOC68570	0.859609	3.08E-49	120.27	KT(0.037)S(0.86)LDVS(0.098)NS(0	3	-0.32891	50481.4	50208.0
Nav2	0.551942	7.54E-33	98.727	T(0.02)HS(0.425)LS(0.552)NADGQ	3	0.66478	18485.3	17566.0
Bclaf1	1	6.31E-07	69.081	EKS(1)IFREES(1)PLR	3	0.5236	72102.2	70070.9
Gprin1	0.741753	4.71E-53	92.463	DLAAVAAQKS(0.742)PS(0.258)AEC	4	0.27676	10441.6	11833.5
Fryl	0.97339	8.62E-08	99.991	S(0.025)NT(0.973)LDIT(0.001)DGR	2	-0.72661	70215.4	69487.4
Ank1	1	9.62E-29	157.33	LDQVVES(1)PAIPR	3	1.649	28008.9	27523.8
Tln1	0.990673	5.46E-10	57.046	ASVPTIQDQAS(0.009)AMQLS(0.99	4	-0.10635	14668.8	14529.7
Caskin1	0.999888	0.000315653	77.674	SQS(1)FAVRPR	3	-0.059352	40826.6	44969.1
Pcdh7	1	1.57E-51	164.48	SVNGGPGS(1)PDLAR	2	-0.11566	17311.7	17072.4
Tuba1b	0.75148	1.68E-05	54.343	S(0.249)IQFVDWCPT(0.751)GFK	2	-0.45928	10521.1	9198.2
Pink1	0.867497	0.00030854	86.276	VS(0.133)S(0.867)PGAQPR	2	0.17658	10214.1	9745.4
Brsk1	0.992135	1.00E-20	76.237	S(0.992)MEVLS(0.008)ITDAGSGGS	3	-0.037811	33203.0	32281.1
Rem2	0.725083	7.39E-49	124.08	QAS(0.079)PS(0.725)GT(0.187)PT(	2	-0.49262	68338.1	69944.8
Wdr20	0.931311	2.83E-05	50.077	RNS(0.931)T(0.061)DS(0.007)RPV!	4	0.61971	3017.5	2854.3
Ccdc141	0.99656	1.37E-11	47.524	VNSNLEDFHGNS(0.997)IDLLKEPGF	5	-0.091832	8111.7	7614.5
Tanc2	0.99576	5.64E-22	87.157	IPES(0.002)ELGS(0.996)PT(0.002)I	3	-0.65698	22969.8	24002.7
Caskin1	0.999994	7.82E-27	84.508	SQEYLLDEGPAPGT(1)PPKEVR	3	-1.1071	77348.8	79933.3
Zfp36l1	0.878887	0.0012903	54.199	RHS(0.879)VT(0.113)LPS(0.007)S(	3	0.38885	11685.9	10055.1
Mast4	0.99432	1.38E-06	81.128	S(0.994)AGS(0.006)IPLSPLAR	2	-0.59076	7006.6	5920.8
Naa30	0.89266	3.26E-28	84.66	LLS(0.018)S(0.063)S(0.893)LT(0.02	2	-0.44706	21369.2	20789.8
Amer2	0.864044	4.22E-10	90.561	TVPLVDS(0.136)EGGS(0.864)GR	2	-0.098262	17187.7	16809.1
Foxk1	0.925737	2.41E-05	41.513	EEAPAS(0.001)PLRPLY(0.073)PQIS	4	0.95662	3796.5	3573.6

7360.2	7819.1	7484.5	6687.8	0.0	0.7	651
2986.6	2777.2	2863.5	3198.4	0.0	0.7	430
42262.0	39075.0	43035.4	41617.0	0.0	0.6	162
133122.8	125648.4	129113.6	128890.0	0.0	0.5	333
29915.4	28558.3	28101.1	28914.0	0.0	0.6	196
36552.4	34355.0	36378.8	34704.0	0.0	0.6	106
59428.3	61080.8	65987.7	60455.0	0.0	0.5	682
222637.9	205989.5	225312.9	201020.0	0.0	0.7	5427
15890.8	17540.0	15588.3	16144.0	0.0	0.6	117
12023.0	13477.8	13809.0	12075.0	0.0	0.7	2358;1029
52651.9	52338.3	55466.9	57474.0	0.0	0.7	1227
18493.9	17292.5	18644.6	19112.0	0.0	0.6	167
48276.2	52148.0	51095.1	49166.0	0.0	0.4	928
19652.2	19261.4	19369.2	18361.0	0.0	0.6	1242
72596.9	68415.3	77187.1	74136.0	0.0	0.6	523
10633.4	10817.8	11649.3	11203.0	0.0	0.6	675
68466.1	69615.3	68276.7	75096.0	0.0	0.5	1974
26064.6	28242.6	28829.9	26415.0	0.0	0.5	771
14543.0	15245.4	14782.6	14727.0	0.0	0.1	1021
42740.1	48545.6	42025.5	40943.0	0.0	0.7	865
17620.9	18527.7	18498.2	16186.0	0.0	0.6	989
8486.8	9423.7	10214.3	9222.7	0.0	0.8	349;334
9854.2	9788.8	10439.5	10278.0	0.0	0.4	51
32265.0	33932.7	33587.5	32500.0	0.0	0.2	309
67964.6	68421.9	69752.5	72865.0	0.0	0.3	29
2356.2	2330.0	3047.5	3041.8	0.0	0.8	296
7381.9	8020.1	7597.8	8027.6	0.0	0.5	833
23775.6	25465.2	23788.0	23141.0	0.0	0.5	128
76674.5	80579.7	81422.1	77404.0	0.0	0.3	669
10004.5	10699.6	10637.5	11148.0	0.0	0.7	54
6022.7	6508.2	6316.1	6567.3	0.0	0.7	1109
20513.5	20725.4	22198.9	21211.0	0.0	0.4	190
20313.4	18212.0	19758.2	17608.0	0.0	0.8	339
4135.7	3619.2	4281.7	3873.7	0.0	0.7	209

Add1	0.854631	9.11E-30	124.25	AAVVT(0.141)S(0.855)PPPT(0.002	3	-0.50702	95434.6	95434.9
Peak1	0.567255	5.18E-10	45.983	S(0.001)LFT(0.009)S(0.029)QS(0.4	4	-0.31563	16990.9	18458.9
Ppfia4	0.823197	8.93E-07	97.195	CET(0.148)S(0.823)PPS(0.02)S(0.0	2	-0.95879	15763.6	15108.9
Brsk2	1	2.30E-21	109.07	S(1)LDIAEAHPQFSK	4	-0.91284	191246.2	174968.9
Arfgap1	0.520601	7.17E-13	68.189	S(0.425)S(0.521)DS(0.054)WDIWC	3	-1.2979	15486.9	14761.2
RGD13071	0.943629	0.0506852	56.404	T(0.036)LS(0.944)KES(0.021)K	2	-0.58274	22034.8	20124.0
Mycbp2	0.999041	7.05E-11	52.198	APS(0.999)PHVVQENLHS(0.001)E\	4	0.59386	6133.2	7057.9
Limd2	0.884384	0.0084171	57.792	EVDS(0.003)GT(0.112)KT(0.884)A	2	-0.3272	10726.8	10686.7
Mtdh	1	2.56E-16	96.096	TVEIPEDEVVRT(1)PR	2	-0.41579	44652.7	44103.7
Kpna1	1	0.000734041	58.098	GKS(1)PPPEFAK	3	0.63436	17955.8	17334.5
Gapdh	0.700417	7.46E-07	53.625	IVS(0.05)NAS(0.7)CT(0.194)T(0.05	3	-0.88608	14047.4	13452.6
Svil	0.720486	2.16E-21	69.857	ARYPS(0.72)GS(0.279)ELPVVEDEE	4	0.087122	11007.2	11101.9
Peak1	0.959741	2.36E-29	122.96	SAPT(0.006)S(0.96)PT(0.021)AT(0.	2	0.49236	32209.5	32020.0
Pacs1	0.847383	4.00E-13	91.969	DT(0.006)T(0.147)S(0.847)PMELA.	2	0.32692	19794.9	19227.8
Ccdc43	0.999999	6.39E-05	88.338	DSLRLDES(1)QR	3	-0.06491	10198.0	10899.5
LOC68801	0.995968	3.54E-14	123.95	KRS(0.996)LS(0.003)ESSVVLDR	3	-0.33174	6916.0	6363.1
Sptbn4	0.939857	1.09E-08	61.477	IERQES(0.94)S(0.06)EQETPTR	3	-1.5222	5116.2	5648.2
Dclk1	0.975313	8.88E-40	142.32	S(0.123)PS(0.123)PS(0.312)PT(0.4	3	-0.22658	311671.0	311216.7
Dpysl3	1	3.35E-55	132.39	EPVPES(1)PKPAGVEIR	3	-1.4203	101915.7	108489.3
Tanc2	0.946468	2.64E-24	99.343	DCSYGAVT(0.05)S(0.946)PT(0.002	2	0.26112	9666.1	10745.0
Azi2	1	0.000565915	61.344	HPPLS(1)PHGK	3	1.6535	18212.2	17535.3
LOC10036	0.99955	7.05E-12	103.14	IAS(1)DEEIQGTK	3	0.29986	44756.5	43175.7
Sorcs1	0.889679	3.70E-13	62.203	VALT(0.004)S(0.036)PPS(0.89)PS(	3	3.1557	5060.3	6096.0
Cnksr2	0.999985	4.11E-51	160.45	QEVTGSSAVS(1)PIRK	3	0.15291	34464.9	32577.3
Tpd52l2	0.996402	4.27E-37	140.96	AHPFS(0.001)QS(0.996)FS(0.003)S	2	-1.0353	37765.0	36916.7
N4bp1	1	2.71E-32	94.384	QFS(1)LENVPEGELLQDGK	3	0.89413	56008.2	58329.5
Ccdc6	0.874117	0.00201296	72.365	RS(0.133)S(0.874)S(0.993)PDKFK	3	-0.20357	28055.4	28005.3
Gsk3b	0.895323	1.15E-09	53.481	TTSFAESCKPVQQPS(0.105)AFGS(0	4	0.15589	9853.6	11236.8
Men1	0.997486	1.48E-32	74.516	GTEVSSAAQAPAPAAS(0.997)PPPE	4	0.11844	30868.9	31732.6
Clip4	0.752631	1.23E-05	49.765	ENAS(0.018)ES(0.151)T(0.389)LS(	3	1.2981	28481.2	24930.7
Mapk3	0.998948	3.21E-59	141.08	IADPEHDHT(0.012)GFLT(0.988)EYI	4	-0.2581	114711.9	99038.2
Pfkfb2	0.816608	0.00218006	48.555	NS(0.16)FT(0.817)PLS(0.012)S(0.0	2	0.50922	23497.0	23952.2
LOC10091	1	0.000317389	67.519	EAPGPAGS(1)GR	2	-0.030911	5327.7	5905.0
Vps13a	0.902894	5.09E-09	53.998	SGLPDVKPS(0.097)GAS(0.903)LED	4	-1.6106	5765.5	4955.6

96142.5	94307.2	101171.7	98237.0	0.0	0.3	12;12
16372.1	19665.1	17175.2	16192.0	0.0	0.8	834
16707.4	16167.2	16293.6	16231.0	0.0	0.5	614
168916.1	180063.4	186563.9	181010.0	0.0	0.6	432
15870.6	16807.4	15218.6	15171.0	0.0	0.6	338
20329.3	22126.8	21212.6	20610.0	0.0	0.6	3929
7026.0	6043.4	7542.0	7104.6	0.0	0.8	2995
10362.8	10769.5	10746.3	11004.0	0.0	0.2	127
45914.8	45833.1	46908.1	45081.0	0.0	0.2	142
17145.0	17779.7	19271.9	16612.0	0.0	0.6	187
13118.5	12721.0	15445.1	13404.0	0.0	0.7	149
11737.7	10739.3	11590.5	12310.0	0.0	0.6	259
31468.7	33885.4	33311.8	30744.0	0.0	0.5	568
20456.0	19911.5	20716.7	20245.0	0.0	0.3	428
10976.5	10039.4	11831.0	10956.0	0.0	0.7	186
6904.4	7091.7	7078.7	6486.9	0.0	0.6	778
5854.9	5526.7	5778.2	5704.7	0.0	0.6	2301
297929.4	317558.4	327827.9	297060.0	0.0	0.5	30
103692.9	105029.7	99678.8	116770.0	0.0	0.7	101
10155.3	10647.5	9898.3	10739.0	0.0	0.6	243
18266.1	18561.8	18955.6	17766.0	0.0	0.4	301
42160.9	44442.8	40666.2	48043.0	0.0	0.7	173
4791.6	5910.9	5238.7	5173.7	0.0	0.8	1133
33421.2	35171.2	33775.6	33881.0	0.0	0.3	726
38454.9	39208.1	38939.2	37653.0	0.0	0.2	143;146
58540.4	56473.0	61294.2	59183.0	0.0	0.4	300
28745.3	28835.4	29279.8	28689.0	0.0	0.1	392
10177.0	9435.0	11666.4	10903.0	0.0	0.8	25
32669.6	32924.0	32693.0	31900.0	0.0	0.3	543
25347.0	27398.9	26366.7	26851.0	0.0	0.6	403
111670.3	103983.6	114622.7	114490.0	0.0	0.7	205
23841.6	23717.3	25508.5	23748.0	0.0	0.4	370
5494.0	4745.0	6284.6	6092.1	0.0	0.8	21
5522.7	5663.4	5676.6	5287.6	0.0	0.7	845



Tax1bp1	0.999934	4.40E-07	81.148	KMEGQS(1)PQQVSR	3	0.15181	18906.4	18291.1
Map1a	0.967002	4.14E-48	88.241	HS(0.008)PGVS(0.024)KEDS(0.967	5	1.8767	46375.0	43234.9
Apba2	0.962564	1.15E-32	98.957	S(0.035)AS(0.963)QDCIET(0.002)T	4	-1.015	108547.0	96019.5
LOC10369	0.953912	0.0119152	47.844	T(0.031)KS(0.954)DPT(0.012)S(0.0	3	0.84122	28610.0	30669.7
Arhgap21	0.839601	1.54E-11	62.861	S(0.028)KS(0.132)YDEGLDDY(0.84	4	-0.39868	13980.6	13706.0
Gprin1	0.7699	0.00338911	81.771	AS(0.048)PT(0.77)AS(0.182)EK	2	0.97536	6193.5	6814.9
Phrf1	0.999999	3.06E-59	96.77	GPAEGAS(1)DLEQEGLEIEPTEIQG	3	-0.64658	16264.6	17845.7
Ssfa2	0.794402	0.00146079	45.614	IGS(0.794)MS(0.308)S(0.736)VT(0	3	-0.35165	9242.9	9665.8
Casc4	0.999999	2.75E-33	113.86	FFDENES(1)PVDPQHGSK	3	-0.9382	154833.6	160577.4
Map1a	0.830073	2.64E-17	78.95	ELS(0.241)S(0.83)EPRT(0.928)PPA	2	0.28539	106977.4	118686.2
Itsn2	0.999367	2.64E-68	130.83	T(0.001)VS(0.018)PGS(0.982)VS(0	3	0.39726	83504.3	88866.6
Lmo7	0.903238	8.51E-24	99.711	S(0.067)LS(0.903)DVS(0.03)AEDVC	3	0.32602	22678.8	26218.5
Myof	0.98704	2.92E-21	124.5	GPS(0.005)GT(0.008)MS(0.987)EA	2	3.6407	11871.5	13052.2
Sos1	0.998264	5.97E-94	148.26	HLPS(0.998)PPLT(0.002)QEVLDHS	4	-0.32345	24861.4	25797.2
Zc3hav1	0.998081	2.08E-10	98.898	AAAS(0.002)GS(0.998)PGK	3	0.090674	119121.2	109067.3
Map1s	0.538481	1.99E-09	47.937	RS(0.227)T(0.227)S(0.538)PHDVDI	4	-1.7329	4028.8	5124.2
Pias1	0.994936	3.31E-15	87.647	GILS(0.004)LPHQAS(0.995)PVS(0.0	3	-0.1449	23226.2	24423.9
Suz12	0.997609	3.80E-05	42.633	ASMS(0.002)EFLES(0.998)EDGEVE	3	-0.57105	5044.8	5769.1
Srsf4	0.999358	1.65E-06	72.898	RDS(0.999)KVSSSSSK	3	0.40249	19335.7	20659.3
Lrp12	0.99914	4.18E-08	91.307	SSSTNQNRS(0.999)PLR	2	-0.68816	14402.8	14477.1
Synrg	0.979852	3.47E-20	73.294	SQENT(0.013)CPS(0.98)PAS(0.003	4	0.97194	19336.9	21646.5
Sh3bp4	0.634223	1.72E-34	151.07	S(0.003)YS(0.283)LS(0.634)ELS(0.0	2	0.6819	18731.0	16800.3
Stxbp5l	0.962801	3.83E-10	57.902	KAQS(0.963)AACMEIS(0.035)LPVT	3	-0.28376	23050.9	23433.4
Ddn	1	3.66E-06	77.192	LRPGS(1)PEPPPR	3	-0.28314	13068.2	12639.7
Slc6a15	1	1.91E-48	117.62	VLKEPVNLDGDDAS(1)LIHGK	4	-1.0956	448638.3	442221.2
Sorbs1	0.996504	1.74E-06	42.029	FPPELPEIQQNS(0.997)EDDDS(0.003	3	-2.6318	8820.2	8905.3
Dennd1a	0.804386	1.24E-07	59.634	T(0.01)S(0.01)IS(0.175)S(0.804)PE	3	2.8367	9098.0	9811.6
Larp1	0.807463	1.54E-26	68.445	HS(0.191)S(0.807)NPPLS(0.001)H	3	0.53395	8674.6	8601.0
Epb41l3	0.816048	5.76E-56	131.38	QLEYQQFEDDKLS(0.999)QKS(0.81	4	-0.11827	182336.8	165414.8
Scaf1	0.989841	7.83E-09	72.09	REVLVYDS(0.99)EGLS(0.01)ADER	3	-1.9255	13154.1	14892.8
Plec	0.626861	7.30E-17	61.612	AGTLSITEFADMLS(0.627)GNAGGF	3	-0.14705	7427.9	8618.4
Ajuba	0.945345	7.48E-36	104.84	SSFASSASDAS(0.006)KPS(0.049)S	3	0.72384	22163.6	19819.1
Eepd1	0.999048	4.85E-16	104.21	SIPRDPS(1)DLS(0.999)HS(0.001)R	3	-0.38757	97703.1	105412.4
Bud13	1	4.88E-09	93.348	VRHDT(1)PDPS(1)PPRR	3	0.33719	51978.2	54128.4



17201.4	18314.3	19945.2	17425.0	0.0	0.7	630
47508.6	43874.1	44499.4	51986.0	0.0	0.7	1275
100494.8	102783.5	110262.7	99231.0	0.0	0.6	481
28522.8	29254.5	32175.8	28450.0	0.0	0.6	427
13345.3	14308.3	13976.8	13718.0	0.0	0.3	892
7425.2	7370.8	6730.9	6816.2	0.0	0.7	457
17056.6	16577.5	18013.1	17790.0	0.0	0.6	710
9035.6	8865.7	9806.2	9935.5	0.0	0.6	268
155778.4	167358.9	154921.3	160090.0	0.0	0.4	365
102395.1	112019.9	115146.4	108680.0	0.0	0.6	738
88466.4	85209.5	92305.2	89517.0	0.0	0.5	848
25615.3	26857.7	25066.1	24359.0	0.0	0.7	310
13192.0	13406.3	13386.9	12228.0	0.0	0.6	174
23711.7	25082.4	26222.4	24834.0	0.0	0.5	1261
108167.6	118597.7	113661.0	112100.0	0.0	0.5	544
4449.7	4809.2	5004.4	4112.7	0.0	0.8	550
23895.9	24885.5	23664.1	24699.0	0.0	0.3	503
5248.9	5383.6	5337.4	5724.0	0.0	0.6	439
17023.6	19147.0	21721.3	17508.0	0.0	0.8	381
12224.2	13802.3	14850.9	13430.0	0.0	0.7	735
19111.4	17708.3	24834.2	18984.0	0.0	0.8	1021
17801.9	18536.5	18392.4	17675.0	0.0	0.5	246
22517.2	21762.7	23977.2	24906.0	0.0	0.6	792
12698.0	12730.9	12848.3	13743.0	0.0	0.4	23
403861.3	443998.7	466505.8	415110.0	0.0	0.6	675
8643.2	9751.4	8618.8	8627.9	0.0	0.6	452
10217.2	9190.7	10574.7	10057.0	0.0	0.7	531
9558.2	8892.2	9558.9	9023.7	0.0	0.6	693
167862.1	169833.8	191009.4	167090.0	0.0	0.7	94;94;94;94
13412.4	13791.3	13835.7	14823.0	0.0	0.6	693
8061.9	7693.6	8922.7	8068.3	0.0	0.7	4377;4263;4234
22947.3	22134.5	23096.6	21252.0	0.0	0.7	147
97821.4	110139.0	103304.7	94699.0	0.0	0.7	19
53086.2	55682.2	51997.0	55328.0	0.0	0.4	161

Bud13	1	4.88E-09	93.348	VRHDT(1)PDPS(1)PPRR	3	0.33719	51978.2	54128.4
Tjp1	0.779058	9.27E-09	48.773	ATLLNVPDL(0.214)DS(0.779)IHS(	4	-0.86411	3625.1	4283.1
Rftn1	0.999999	7.81E-14	113.54	DSVTLRHS(1)NPR	3	0.42179	17101.8	16792.7
Flii	1	6.89E-13	105.03	RKDS(1)AQDVQAK	4	-0.28302	193297.6	177272.4
Ablim1	0.711421	5.91E-57	102.16	SGLHRPVSTDFAQY(0.711)NS(0.23	4	-0.14834	52166.6	51206.2
Tns1	0.99777	5.44E-59	97.352	S(0.999)PGVRS(0.998)PVQCVS(0.C	5	0.11975	36166.8	35106.8
Map1b	0.508159	1.39E-21	70.145	DYNAS(0.112)AS(0.508)T(0.173)IS	5	0.33382	7813.2	9421.9
Aldoa	0.914228	1.63E-26	113.4	GILAADES(0.006)T(0.914)GS(0.08)	3	0.055707	151792.3	183097.0
Ldha	0.968046	5.10E-05	96.067	DYS(0.968)VT(0.032)ANSK	3	-0.66969	4109.0	4699.2
Ldhb	0.968046	5.10E-05	96.067	DYS(0.968)VT(0.032)ANSK	3	-0.66969	4109.0	4699.2
Map1a	0.958317	1.06E-25	109.48	ET(0.036)S(0.958)PT(0.006)RGEPV	2	-0.51821	172700.0	156595.6
Acin1	0.993631	0.00054378	90.964	KS(0.005)LS(0.994)PGVS(0.001)R	2	0.73197	52774.9	57022.0
Afap1l1	0.848456	0.000109553	46.873	KRS(0.848)PS(0.15)IVT(0.001)SNQ	3	-0.0097012	48403.7	49812.0
Stat3	0.816675	8.97E-42	95.5	YCRPESQEHPEADPGS(0.183)AAPY	4	-0.083284	41766.4	30393.3
Fam189b	0.996629	2.04E-66	127.17	RDS(0.997)QAT(0.003)LFDPQLHDC	4	2.1496	35433.3	34685.5
MAST1	0.999768	4.90E-34	98.957	FSASEASFLEGEAS(1)PPLGAR	2	-1.0084	99556.5	98890.2
Ythdc1	0.999419	7.53E-58	103.75	LSSESHGGS(0.999)PIHWVLPAGM	4	-0.59489	28648.2	29086.9
Slx4ip	0.999815	2.55E-10	51.096	RVS(1)LGNEGLVPEDSVVETSTAVR	3	0.59352	7288.3	6500.6
Zcchc8	0.984264	7.30E-05	77.124	T(0.016)HS(0.984)PVPDMSK	3	0.11859	13793.3	13183.8
Sec16a	0.99953	1.83E-06	84.759	DNYAYS(1)DRPEK	3	0.24102	36973.1	32951.3
Akap13	0.888884	2.65E-09	80.387	S(0.023)AS(0.889)RPS(0.044)S(0.0	2	-0.90596	14194.1	15537.8
Mllt4	0.539421	3.46E-06	40.086	QGAIY(0.001)HGLAT(0.539)LLNQF	4	1.8606	840.1	582.4
Ankrd34b	0.989826	0.00508751	43.717	RQS(0.99)LQT(0.01)EQIK	3	0.25825	18369.6	17351.0
Phf11	0.919638	0.0354801	57.032	ADS(0.92)PS(0.08)VK	2	1.3911	12803.4	8849.4
Epb41l2	0.577173	0.0537379	58.699	NS(0.423)QT(0.577)LFK	2	-0.89303	12567.3	14493.5
Fam102a	0.982769	6.63E-10	123.01	S(0.007)S(0.01)S(0.983)LSDLTHR	3	0.04612	10939.5	12462.0
R3hdm1	0.5	1.38E-37	141.86	AAS(0.5)T(0.5)DLGAGEAVVGK	3	0.71612	25055.8	24470.0
Synpo2	1	0.0168558	43.297	KES(1)RNDLK	3	0.78701	13603.7	12484.0
LOC68570	0.53078	6.08E-33	73.916	S(0.115)NS(0.35)IPT(0.531)HEAAF	4	0.52228	9932.2	8179.8
Rptor	0.918507	9.03E-39	81.532	GMHIHQVGG(0.919)PPAS(0.015)	4	-0.5841	66539.6	65083.2
Map1b	0.992776	0.000159974	85.274	S(0.007)RT(0.993)PVQDHR	2	-1.2088	20301.8	20866.6
LOC67981	0.880447	9.41E-15	69.281	ASVQAPS(0.117)S(0.88)PRPS(0.00	3	0.022176	16394.6	16262.9
Adcy9	0.901961	3.59E-26	78.177	GQGT(0.067)AS(0.902)PGS(0.031)	3	1.3013	32700.9	30295.7
Bai1	0.717964	1.93E-12	75.564	NENVAT(0.001)LS(0.066)VS(0.215	2	0.31977	17333.2	19462.6

53086.2	55682.2	51997.0	55328.0	0.0	0.4	157
4723.3	4294.6	4152.3	4487.5	0.0	0.8	423
15834.4	16705.1	18255.6	15961.0	0.0	0.6	536
181191.4	188962.1	190688.8	185350.0	0.0	0.4	435
53671.8	49520.2	54966.8	56326.0	0.0	0.6	655;568
38047.1	37217.1	38242.5	36486.0	0.0	0.4	1094
9434.3	9193.8	9622.7	8493.4	0.0	0.8	1198;1072
173366.3	158768.2	188946.9	172750.0	0.0	0.8	37
4815.6	4224.5	5185.2	4541.5	0.0	0.8	84
4815.6	4224.5	5185.2	4541.5	0.0	0.8	85
168777.7	166929.9	169123.6	173990.0	0.0	0.5	1860
53250.2	54334.7	56808.0	55824.0	0.0	0.4	552;658;658
46504.6	47735.0	50587.5	49878.0	0.0	0.4	744
38276.0	37470.1	36214.2	39409.0	0.0	0.8	705
37977.9	38347.9	36643.8	35708.0	0.0	0.5	297
100513.9	100174.4	105278.5	100710.0	0.0	0.2	791
28696.4	28810.1	30114.4	29590.0	0.0	0.2	409
5792.0	6495.7	6876.7	6680.7	0.0	0.7	235
13041.9	14136.7	13504.5	13343.0	0.0	0.4	427
33100.8	36020.4	34931.8	34558.0	0.0	0.6	1311
14856.0	18433.1	14276.0	12955.0	0.0	0.8	2511;1182
758.6	831.0	702.8	699.9	0.0	0.9	1108
17759.3	18901.7	19302.9	16567.0	0.0	0.7	496
12230.6	16639.1	9054.9	9009.0	0.0	0.9	155
13985.1	14571.2	13815.4	13653.0	0.0	0.6	657
10855.1	11834.5	11686.7	11565.0	0.0	0.6	252
26116.7	25630.2	25972.3	25872.0	0.0	0.3	842
12403.1	12491.1	13676.5	13256.0	0.0	0.6	1227
9330.4	10004.9	9050.6	9052.6	0.0	0.7	1292
62656.3	72965.8	65332.6	60697.0	0.0	0.7	877
20344.2	19445.1	22917.1	20644.0	0.0	0.7	1626;1500
14261.9	16160.6	15995.5	15903.0	0.0	0.6	1158
31388.8	33816.1	31279.2	31586.0	0.0	0.5	610
21299.2	19658.5	21178.4	18672.0	0.0	0.7	1462

Map2	0.684809	1.17E-22	64.885	KDPQDMEGEKS(0.685)PAS(0.298)	4	0.33721	17175.8	15239.4
LOC10091	0.97121	1.16E-13	104.9	T(0.029)AS(0.971)PPGPPQYSK	3	0.032747	57150.8	57948.9
Unc13d	0.998488	1.90E-08	89.613	VGVPESGS(0.998)PVS(0.002)R	2	0.79018	13348.5	14975.1
Srrm1	0.998379	1.48E-18	144.38	T(0.001)RHS(0.998)PT(0.001)PQQ	3	-0.35306	56059.5	71707.5
Fip1l1	0.797444	0.0071925	44.193	AEFT(0.175)S(0.797)PPS(0.027)LFI	2	-0.019177	4267.9	4294.0
Cep170b	0.560197	0.0392413	43.68	LGNT(0.56)S(0.44)PVPR	2	-0.24122	15045.7	15419.3
Irf2bpl	1	1.21E-31	87.802	S(1)PGPPPPVGVK	2	0.10972	45704.7	48002.1
Limk1	1	4.42E-08	60.196	VQGVDPGCM(1)PDVK	3	-0.56655	49510.5	51436.5
Oxr1	0.999636	0	254.75	STEEELSEVDFTESELS(1)PIREELPSSI	5	-0.58373	108752.1	102500.1
Lig3	0.752408	2.92E-10	47.73	KFS(0.752)GFS(0.247)AAKPNNS(0.	5	0.73506	7310.4	7218.9
Nadk	0.931282	3.03E-13	100.11	S(0.931)LS(0.047)AS(0.022)PALGS	2	-0.52186	24461.9	23419.1
RGD15651	0.993959	5.20E-05	96.313	S(0.994)LQS(0.006)VAEER	2	-0.67729	17074.4	19332.0
Fam160a2	0.994899	1.90E-32	124.25	QQS(0.995)LGGS(0.005)ESPGPAPF	3	0.27263	18747.7	20561.7
Cgn1	0.957205	3.39E-51	158.92	S(0.957)S(0.043)EHLLRPSQVFLQR	3	0.076741	17039.8	16785.0
Reps2	0.941101	0.000366647	96.034	AS(0.059)S(0.941)LDLNK	3	0.059019	39296.4	34774.4
Ibtk	0.935108	4.21E-27	83.059	DLQS(0.935)PDFT(0.065)AGFHSDH	5	0.0064523	48936.8	47272.6
Clasp1	0.704421	0.0360301	65.156	GST(0.004)VS(0.291)T(0.704)K	2	-0.5573	40041.8	37857.8
Thoc2	0.972678	0.00475568	47.844	DS(0.027)S(0.973)GGKEEK	3	-1.0697	13200.6	12623.3
Cdk16	0.997651	4.29E-09	99.668	RVS(0.998)LS(0.002)EIGFGK	2	0.018106	40908.9	37569.3
E2f3	0.925334	0.00721967	44.847	S(0.014)PDS(0.925)PKT(0.06)PK	3	0.087707	7869.8	7358.4
Akap9	0.5	1.82E-40	123.72	NS(0.5)S(0.5)PDEVLVSNMMDTSR	3	-0.3515	25506.6	27878.1
Rfx7	0.964598	0.000685829	49.595	LQS(0.965)PLPGES(0.028)S(0.007)	2	0.0048356	19094.8	19686.3
Mast4	0.739341	5.42E-11	91.076	EDS(0.261)LHS(0.739)ASLLYEK	3	0.60565	7942.5	7440.3
Lmna	0.92889	5.60E-08	45.941	S(0.071)LT(0.929)MVEDNDDEEED	4	0.37159	11573.9	12670.5
Sntb2	1	1.85E-05	67.136	QEAGGLGIS(1)IK	3	-0.46806	11388.7	11257.6
Kdm2a	1	2.11E-10	89.489	KIEES(1)DEEAVQAK	3	-0.90992	93231.8	95307.6
Brd8	1	0.02733	43.77	QAVKT(1)PPR	3	1.5225	11282.7	10695.7
Fam184b	0.953697	0.00085989	47.774	VVS(0.954)VPNLAS(0.035)Y(0.011	3	0.82455	15277.0	13007.2
Arap1	0.711465	0.0011222	79.86	NNQS(0.289)T(0.711)EVPR	2	-0.67747	7748.8	7036.1
Scn7a	0.989565	0.00279844	42.843	AS(0.009)EES(0.99)RDMDS(0.001)	3	0.081921	4972.6	5495.8
Mecp2	0.997769	0.0135715	54.259	S(0.998)KES(0.002)SPK	2	-0.1486	23368.2	25415.5
Apc	0.901258	1.96E-09	76.645	SPSEGPVAT(0.01)T(0.089)S(0.901)	2	0.041022	66121.0	66050.7
Ehd2	1	0.0142892	60.754	LPNS(1)VLGR	2	0.22457	7048.0	6924.8
Ube4b	0.998192	2.13E-06	43.436	SMS(0.001)QVDVDS(0.998)GIENN	3	-1.1287	8995.8	9624.6

15743.9	17376.1	16043.6	15912.0	0.0	0.6	303;217
58255.1	57664.3	61651.1	58267.0	0.0	0.3	626
15337.2	13687.9	14331.6	16707.0	0.0	0.8	138
65117.8	64841.5	61156.4	71597.0	0.0	0.8	329
3956.2	4314.4	4126.2	4383.2	0.0	0.5	235
14085.2	15860.3	15491.1	14287.0	0.0	0.6	505
43295.8	45564.7	49299.7	45485.0	0.0	0.6	69
51474.4	55257.6	50887.8	50001.0	0.0	0.5	176
106985.9	110139.0	110337.5	105540.0	0.0	0.3	346
7077.1	6712.3	7486.8	7935.5	0.0	0.7	228
25821.8	23969.2	25477.5	26058.0	0.0	0.6	78
19496.8	20650.6	17864.5	18755.0	0.0	0.7	97
18731.3	19897.2	18841.3	20722.0	0.0	0.6	524
19508.5	18080.0	19295.4	17263.0	0.0	0.7	413
37364.7	38022.3	38986.3	37155.0	0.0	0.6	355;481
45674.2	47623.9	47991.7	49743.0	0.0	0.4	1045
39620.7	38597.6	41430.3	40371.0	0.0	0.4	586;586
12609.6	13480.0	13673.3	12222.0	0.0	0.6	1578
40316.9	39357.7	40964.3	41388.0	0.0	0.5	153
7243.5	7322.7	8323.7	7376.9	0.0	0.7	159
28653.8	28179.9	27360.5	28512.0	0.0	0.5	1501
20332.5	20292.1	20039.2	20234.0	0.0	0.3	322
7708.1	8055.6	8216.2	7386.4	0.0	0.6	1795
11472.6	10984.2	12709.4	12901.0	0.0	0.7	548
11334.2	10689.8	12345.0	11781.0	0.0	0.6	111
92094.7	108852.0	91824.3	86857.0	0.0	0.7	692
10751.8	11613.4	11282.7	10639.0	0.0	0.5	175
14115.0	13723.1	14865.9	14853.0	0.0	0.7	865
7853.7	7064.7	8579.0	7551.8	0.0	0.7	477
5768.8	5524.8	5638.5	5473.4	0.0	0.6	408
25057.4	25593.9	24820.3	25244.0	0.0	0.4	346
68603.4	68871.8	68158.1	68687.0	0.0	0.1	2169
8065.1	8212.6	6666.4	7701.4	0.0	0.8	484
9381.1	9515.0	9646.9	9528.9	0.0	0.3	124

Mycbp2	0.960146	1.67E-29	122.01	S(0.001)KS(0.014)DS(0.024)YT(0.9	3	0.31818	69425.9	75642.1
Taldo1	0.999999	0.000425146	61.815	TIVMGAS(1)FR	2	-1.7216	57486.0	58848.4
Mtss1	0.999547	2.77E-16	68.31	TPTVPDLPGVLPS(1)PPDGPEER	3	-0.60927	17198.4	15517.0
Kif21a	0.5	0.00104961	60.943	LEES(0.5)S(0.5)REER	3	-0.47175	8948.9	9767.6
Vcl	1	0.00588722	42.317	QGKGDS(1)PEAR	3	0.13389	9328.7	9768.1
Gramd1a	0.999993	0.0374037	60.045	VTPNLS(1)R	2	-0.24742	11616.5	11728.2
Fsd1l	0.99565	0.000520888	67.999	GS(0.005)GT(0.996)PS(0.999)PKR	2	0.22275	43656.8	50008.3
Rbl2	0.972646	5.67E-98	185.86	AQPAGS(0.973)PS(0.027)HQIQQR	3	0.62447	22714.6	24228.7
Arhgef5	0.989001	8.82E-05	69.261	HS(0.989)YS(0.011)HIVER	3	0.17631	8476.6	8358.2
Dcaf10	0.720976	1.02E-11	53.553	AGELAAPEALELS(0.003)AAAS(0.01	4	0.154	2014.4	1955.0
Pag1	0.615714	2.66E-09	82.85	S(0.002)S(0.002)S(0.048)S(0.273)C	2	-0.52288	61626.9	54140.4
Matr3	0.951072	8.11E-05	87.026	S(0.951)AT(0.049)REPPYR	2	0.50959	17489.5	18600.4
Scrn1	1	2.99E-17	136.3	AVIES(1)DQEQGR	2	-0.39791	15800.6	15282.2
Bcar3	0.990817	0.00327272	99.799	LSEAY(0.991)S(0.009)R	2	0.33753	12996.6	13740.0
Epb41l2	0.916413	3.56E-21	84.156	DGKS(0.785)PT(0.298)KVT(0.916)I	3	0.87247	106152.1	111347.8
Epb41l2	0.916413	3.56E-21	84.156	DGKS(0.785)PT(0.298)KVT(0.916)I	3	0.87247	106152.1	111347.8
Camsap1	0.93853	1.59E-39	92.098	ISQQQEQLLMKS(0.05)PT(0.939)VF	4	0.984	14217.9	14529.7
Qrich1	0.78093	0.025379	47.869	KS(0.219)PS(0.781)NPK	3	-0.15047	19053.1	17212.8
Gpr158	0.642175	9.62E-08	54.834	QCS(0.642)KEDKEGT(0.267)DHS(0	4	-0.46376	18690.5	17947.7
Mtmr3	0.985854	3.96E-08	102.73	RS(0.014)S(0.986)DPSLNEK	2	0.036562	46215.1	44655.4
Mars	1	6.50E-07	54.764	QLALAEKGPIET(1)PK	3	0.60865	20880.2	17174.4
Ank2	0.640957	2.95E-31	76.21	T(0.641)VEGT(0.107)EPKPQGVIRS	4	0.38621	12651.9	12020.0
Rapgef2	0.875988	6.37E-05	99.174	S(0.01)ET(0.114)S(0.876)PVAPR	2	-0.61249	27956.4	30804.7
Cdc37l1	0.793417	3.00E-13	65.184	LGLSLAHNS(0.207)ES(0.793)LDQE	4	-0.50998	29269.5	29930.4
Hdac5	0.538103	0.0306691	66.962	RS(0.538)S(0.462)PLL	2	0.16651	9226.8	8766.5
Nefm	0.973304	0.0242729	41.542	S(0.01)VKVS(0.973)LEKDT(0.017)K	3	1.1365	15915.1	15826.3
Kcnc3	1	0.000322358	47.217	LAPLAT(1)PPGS(1)PR	2	0.82818	24995.0	26706.6
Tex2	0.960058	5.05E-09	136.5	SLS(0.04)T(0.96)EVEPK	2	0.51053	39049.5	38920.7
Psmc4	0.994321	2.48E-39	86.761	AAAASAAEAGIAT(0.994)PGT(0.00	3	0.56763	67610.6	65441.9
Dnajc6	0.50639	1.89E-14	66.137	GAS(0.506)S(0.449)PDMEPS(0.03	3	0.19451	16926.5	15135.2
Fndc3a	0.999904	3.12E-07	75.316	DKMS(0.114)S(0.887)PPPS(1)PQK	4	-0.57998	19678.0	21292.2
Yeats2	0.780223	1.45E-14	48.318	QGSASAGIS(0.001)NPHAIVDKPGQ	6	-0.069091	6286.9	5695.6
Tbc1d5	0.7077	5.56E-23	67.217	T(0.001)IS(0.003)S(0.003)S(0.003)	4	-0.46827	15399.9	16547.0
Tmem245	1	8.03E-15	84.375	GGPAEEPS(1)PRGS(1)PR	3	-0.77075	100668.1	107973.7

65161.4	70991.4	72301.2	72114.0	0.0	0.6	2950
54396.8	56694.1	61762.3	56482.0	0.0	0.6	237
15848.3	15708.5	17484.1	16568.0	0.0	0.6	667
8816.5	9983.2	9298.6	8930.6	0.0	0.6	565
10254.1	10698.9	9630.0	9746.7	0.0	0.6	456
10397.9	11829.0	11402.4	11345.0	0.0	0.6	283
42687.9	47466.6	48188.4	44068.0	0.0	0.7	312
22393.7	23139.9	23720.7	24191.0	0.0	0.4	37
8789.6	9690.4	8035.3	8532.4	0.0	0.7	705
1448.8	1764.3	2039.7	1748.2	0.0	0.8	93
64227.7	60681.5	59876.1	63890.0	0.0	0.7	353
17430.3	19859.8	17744.8	17240.0	0.0	0.6	164
15317.0	14860.5	16988.2	15701.0	0.0	0.6	360
13140.9	14138.9	12925.2	13802.0	0.0	0.5	121
111244.4	106090.0	122284.9	108520.0	0.0	0.6	596;596
111244.4	106090.0	122284.9	108520.0	0.0	0.6	596
15740.7	15217.9	15700.5	14673.0	0.0	0.5	1055
18224.5	16787.6	19198.2	19856.0	0.0	0.7	660
17970.1	18872.0	19409.8	17681.0	0.0	0.5	344
44606.4	44833.3	46837.6	47167.0	0.0	0.3	633
17691.2	19770.7	18489.7	18869.0	0.0	0.7	895
13461.3	13154.4	13909.5	12016.0	0.0	0.7	2381
29486.3	29524.0	31116.8	29798.0	0.0	0.5	820;1177
30060.2	28413.1	34286.4	28778.0	0.0	0.7	88
8630.2	9383.6	8839.3	9062.1	0.0	0.4	269;247;237
14184.2	15726.1	15914.2	15427.0	0.0	0.5	686
25373.6	25892.0	28288.1	24812.0	0.0	0.6	750
41268.7	41028.5	42350.4	38826.0	0.0	0.5	197
68268.0	67448.4	70554.0	68327.0	0.0	0.3	250
16121.9	15348.8	17005.3	17029.0	0.0	0.6	35
21310.9	21398.6	20913.4	21520.0	0.0	0.4	151
6101.5	6317.4	5908.0	6309.0	0.0	0.5	517
16029.2	15904.3	17107.9	16159.0	0.0	0.5	527
95527.1	104063.9	102832.4	104850.0	0.0	0.5	16



Limch1	0.990258	7.50E-22	88.283	S(0.99)WS(0.009)T(0.001)AT(0.00	3	-0.086604	33788.6	34094.3
Epn2	0.744935	1.58E-62	109.42	T(0.127)T(0.127)S(0.745)PDLFESQ	3	0.34191	77156.8	73972.6
Tmem51	0.651752	5.69E-05	40.622	Y(0.006)Y(0.006)VPS(0.652)Y(0.33	3	0.57635	2341.6	2513.9
Ahnak	0.999322	5.64E-06	76.82	VSS(0.001)GQIS(0.999)GPEIK	2	-1.1099	28185.4	27542.4
Npepps	0.992545	0.063511	54.982	KAS(0.993)PPS(0.007)V	2	1.0547	8485.2	8570.7
Nfatc1	0.999839	0.0665515	54.066	KYS(1)LNGR	2	-0.0044084	17603.9	15461.0
Robo4	0.97883	1.99E-25	72.228	APS(0.979)PPAT(0.02)YGYISIPTSS(	3	-1.2473	4992.8	5437.7
Sh3bp2	0.99614	8.09E-18	74.364	RMS(0.996)DPPVS(0.004)NVPTVP	3	0.081271	14071.2	13610.5
Tomm70a	0.996619	0.00245207	45.28	NS(0.003)ERKT(0.997)PEGR	4	-0.25443	14634.2	17034.0
Limch1	1	0.00199792	83.862	QQS(1)LPPPK	2	-0.81827	153903.4	145341.2
Vapb	0.916763	0.00574563	75.509	IMPT(0.917)S(0.077)AS(0.007)K	2	1.7658	31955.5	28621.8
Utrn	0.939718	1.87E-46	103.59	KECEGEEINIQS(0.057)AVLT(0.003)	4	-0.70593	30549.3	30954.9
Esyt2	0.649631	0.000323012	44.998	QERPPDY(0.35)QHS(0.65)AQVK	3	-1.7149	3450.7	3257.9
Add1	0.990597	5.74E-05	114.24	TEQT(0.009)FS(0.991)PAK	3	0.40548	46635.0	41120.0
Sema6c	0.999999	1.13E-20	104.2	DIETPGLPRPLS(1)LR	3	0.67923	28270.1	27696.0
RGD13079	0.994495	0.00102545	62.466	HS(0.004)GT(0.994)IS(0.002)QPR	3	-0.44467	8996.6	9012.6
Mbp	0.989091	2.70E-57	169.79	YLATAS(0.989)T(0.011)MDHAR	3	-0.74422	71949.6	65844.5
Sh3pxd2a	1	7.27E-08	98.406	LAQGS(1)PAVAR	3	-0.2814	82594.2	77476.2
Cdk16	0.944871	4.29E-05	95.477	KIS(0.055)T(0.945)EDINK	3	0.053571	44956.9	45121.6
LOC10036	0.630113	1.05E-27	100.95	FQSVQIQAT(0.37)LS(0.63)PPLQTK	3	-0.3181	29469.9	29396.2
Nckipsd	0.954763	3.17E-15	78.814	SAHTTVS(0.005)QAQPS(0.955)PS(	3	0.21067	9496.1	9368.0
Map1a	1	4.37E-36	104.52	WLAES(1)PVGLPPEEEDKLTR	3	0.4712	86856.9	89290.0
Caskin1	0.999987	5.16E-05	96.229	LLATVLS(1)QK	2	1.7226	2892.0	2848.0
LOC10036	0.553742	3.02E-12	64.5	HLPATIIS(0.294)QS(0.102)LGDT(0.	3	-2.857	16367.1	18261.4
RGD15621	0.999999	1.85E-21	143.25	VPEESFPQS(1)PR	2	0.11652	33126.7	33989.0
Pde7b	0.999771	8.15E-05	67.997	RGS(1)YPFIDFR	3	1.3674	1518.2	1235.8
Lnp	0.77784	1.87E-94	178.07	S(0.179)DS(0.778)VS(0.043)NLELS	3	-0.59105	341034.8	361499.3
Osbp2	0.557688	7.48E-06	83.204	IVHS(0.558)S(0.429)PS(0.011)S(0.1	2	1.3762	8803.5	8614.3
LOC10369	1	0.0262642	69.825	AGT(1)GIQK	2	1.7879	45594.9	46411.6
Map1a	0.860598	1.60E-49	120.41	S(0.001)PES(0.004)LS(0.135)S(0.8	3	-0.38718	95241.4	97089.0
Ptpn21	1	0.00982773	44.425	EHAVS(1)EPR	3	-0.26279	7563.3	7813.7
Hcn2	0.99274	2.24E-20	115.38	TSPYGVPGS(0.993)PAT(0.007)R	2	0.28846	82680.1	93933.2
Dgkb	0.629457	0.00212869	50.452	FPHS(0.629)S(0.371)PNVK	3	-0.57413	23418.3	24387.7
Fam110b	0.886483	2.34E-12	106.3	ANS(0.886)DIIS(0.114)LNFR	3	-1.7211	39694.8	40049.5

37222.0	35284.5	37251.9	35187.0	0.0	0.5	138;141
85260.8	80823.9	83800.9	77656.0	0.0	0.6	488;431
3229.4	2830.2	3078.4	2377.9	0.0	0.9	129
27588.1	28060.0	28794.6	28541.0	0.0	0.1	5207
8300.3	8666.0	8887.1	8436.4	0.0	0.2	916
18097.8	17425.6	17643.3	17372.0	0.0	0.6	271
4534.1	4817.1	5354.1	5167.3	0.0	0.7	841
13196.2	14460.1	14084.7	13355.0	0.0	0.5	278
12079.4	15153.0	15087.1	14601.0	0.0	0.8	88
162464.4	143500.7	162423.2	167330.0	0.0	0.7	334;325
27265.5	30980.4	29310.8	29749.0	0.0	0.6	143
30264.6	30846.2	32895.0	30325.0	0.0	0.4	295
3053.4	3403.3	3522.0	3081.2	0.0	0.7	599
46471.6	43925.8	50078.8	43585.0	0.0	0.7	557;572
28177.9	28678.1	30124.0	27450.0	0.0	0.4	636
9752.2	9077.9	9247.3	10132.0	0.0	0.6	1269
64354.4	69306.3	68229.7	69685.0	0.0	0.5	20;20;20;20
80872.3	83109.7	84710.3	79169.0	0.0	0.4	354
43812.1	43026.0	49059.3	45166.0	0.0	0.6	111
26564.9	28449.4	31278.1	27849.0	0.0	0.6	198
9383.1	9477.7	9302.1	10177.0	0.0	0.4	196
87564.7	91427.6	89262.8	89650.0	0.0	0.1	1980
3427.5	3471.7	3007.0	2919.4	0.0	0.8	420
17205.7	16689.7	18915.0	17533.0	0.0	0.6	466
33911.0	32661.1	35689.5	35217.0	0.0	0.4	194
1482.1	1256.9	1584.4	1501.3	0.0	0.8	45
358720.5	355617.0	370210.3	362130.0	0.0	0.3	411
8363.8	8603.0	8800.0	9028.1	0.0	0.3	747
41366.7	45636.2	44926.9	46170.0	0.0	0.5	205
97157.1	96606.2	99054.7	101130.0	0.0	0.2	1545
6908.0	7297.1	7658.9	7891.4	0.0	0.6	728
87791.4	82711.5	92555.2	95813.0	0.0	0.7	771
25536.5	25585.1	25096.0	24515.0	0.0	0.4	87
41266.6	40916.3	42833.4	40322.0	0.0	0.3	297

Clip4	0.996033	6.15E-13	66.52	ENAS(0.009)ES(0.193)T(0.773)LS(	4	1.1354	55711.3	54251.2
Ankrd34a	1	2.89E-12	67.136	LLGGFQS(1)LGGPGEPGR	2	1.2628	15382.0	13500.8
Eef1d	0.850138	0.000115652	43.37	VMLPNS(0.007)PET(0.143)LGQAT(	3	-2.1169	7605.5	7536.5
Acly	0.977003	8.28E-05	128.58	T(0.001)AS(0.013)FS(0.977)ES(0.0	2	2.3683	144016.0	143257.1
Pdzd8	0.851821	1.88E-27	100.53	VQTELKEET(0.001)QPLS(0.852)HSI	3	-0.51796	51702.7	59357.4
Eea1	0.996786	0.00725813	48.277	LTAS(0.003)EGS(0.997)LQR	2	-0.11995	7075.3	7213.0
Arhgap12	0.926555	5.19E-11	54.56	AT(0.11)T(0.363)PPNQGRPDS(0.6]	4	1.9795	7374.2	7881.7
Acin1	0.648071	5.39E-59	144.26	GLS(0.059)PLS(0.602)S(0.633)T(0.1	3	-0.29239	41781.9	40367.6
Rtn4	0.975649	1.56E-83	131.41	NEDAS(0.002)FPS(0.022)T(0.976)F	3	1.0545	336681.5	319081.6
Dpysl2	0.994135	4.98E-19	148.28	T(0.994)VT(0.006)PASSAK	2	0.52861	1116586.5	1257832.2
Bad	0.537232	1.09E-08	49.528	HS(0.212)S(0.211)Y(0.04)PAGT(0.!	3	1.1455	16915.8	18157.2
Lasp1	0.999603	0.00012717	48.216	GFSVADT(1)PELQR	3	0.037128	7691.9	8217.4
Tpr	0.499967	1.69E-15	54.003	AREEEEDS(0.5)T(0.5)IEAGDQVSDC	4	0.02293	3815.9	3365.8
Tpr	0.499967	1.69E-15	54.003	AREEEEDS(0.5)T(0.5)IEAGDQVSDC	4	0.02293	3815.9	3365.8
Vim	0.839553	1.97E-07	59.372	DGQVINET(0.16)S(0.84)QHDDLE	2	0.59917	3616.1	3451.7
Efs	0.849958	4.22E-05	93.928	LPS(0.85)T(0.129)ES(0.021)LSR	2	0.030008	56663.0	53226.7
Rtn4	0.999974	5.94E-94	151.02	SKDKEDLVCSAALHS(1)PQESPVGK	5	0.12212	416519.5	413536.9
Tmtc1	0.999679	4.19E-13	62.032	QPGS(0.998)PQPS(0.002)SQQAHP	4	0.273	765.5	881.0
Sash1	0.949495	3.34E-14	115.83	T(0.05)CS(0.949)FGGFDLTNR	3	-0.51928	28862.8	28909.2
Fam13b	0.528641	4.20E-25	78.95	S(0.001)LLY(0.097)Y(0.529)ES(0.14	4	-0.6233	17332.0	17234.7
Srrm1	1	3.86E-05	71.176	S(1)PS(1)PPPAR	2	-0.04451	118876.7	132419.6
Srrm1	1	3.86E-05	71.176	S(1)PS(1)PPPAR	2	-0.04451	118876.7	132419.6
Tldc1	0.821388	0.0369058	40.496	T(0.821)RHS(0.179)EGLR	3	1.6518	7212.0	7433.2
Ptpdc1	0.799095	5.22E-05	48.899	S(0.152)PCS(0.799)PLHCDT(0.039]	3	-0.68397	23543.5	21408.5
Htatsf1	0.977985	2.07E-07	56.313	MDS(0.978)ICGS(0.022)ERPGPSR	3	-0.68764	11671.3	9954.4
Sp110	1	8.15E-15	78.69	MMGVAS(1)PGPGVQEK	3	1.3309	9598.8	8622.8
Tmem51	0.734821	3.11E-09	74.296	AET(0.025)ET(0.735)S(0.24)PGHAI	3	1.8928	30284.5	29923.8
Inadl	0.999711	0.00137456	91.095	EPTSAS(1)PR	2	-0.024926	3054.3	3408.4
Setd2	0.658524	2.65E-12	65.085	MEAGDTFPAT(0.01)EES(0.331)S(0	3	0.78526	10513.6	11630.6
Ank2	0.985458	8.15E-57	173.46	S(0.985)YIET(0.001)ET(0.013)ES(0	2	0.74863	52842.9	56492.2
Arhgap32	0.746403	9.82E-06	104.94	NES(0.746)EPS(0.254)EMK	3	0.56826	50723.5	53613.9
Snn	0.950692	0.000391582	51.726	EPFLLVQY(0.049)S(0.951)AK	3	1.8082	9908.9	9730.4
Aak1	0.541117	6.63E-11	62.589	S(0.459)T(0.541)QLLHAAAAEASLS	3	-0.26237	10841.6	11460.6
Thrap3	1	0.0016643	57.175	S(1)PRPS(1)PVPK	3	0.10278	65837.1	67850.8

51699.0	55462.2	57174.6	53117.0	0.0	0.5	407
15195.6	15246.5	15465.4	14483.0	0.0	0.6	486
7802.5	8013.3	7915.9	7596.5	0.0	0.3	430
139095.5	156601.3	137299.4	143270.0	0.0	0.6	457
53671.8	56071.5	58863.0	53971.0	0.0	0.6	518
6981.3	6897.0	7142.6	7769.2	0.0	0.5	359
8454.4	8402.9	7984.1	7924.4	0.0	0.6	241
40207.3	42722.4	40926.9	41810.0	0.0	0.2	378;484;484
356676.4	341834.5	352289.1	344000.0	0.0	0.5	429
1108824.6	1325781.4	1140563.6	1105300.0	0.0	0.7	512;613
15857.8	17637.9	17123.9	17462.0	0.0	0.6	76
6860.1	6971.0	8994.1	7382.5	0.0	0.8	68
4359.8	4067.5	4142.1	3625.0	0.0	0.8	1893
4359.8	4067.5	4142.1	3625.0	0.0	0.8	1894
4343.0	3524.7	3872.9	4303.0	0.0	0.8	459
59763.7	59582.6	60934.1	53447.0	0.0	0.7	298
456348.1	442216.8	436263.2	440630.0	0.0	0.5	329
816.3	986.1	790.7	748.6	0.0	0.8	272
30039.9	29939.8	30105.8	30000.0	0.0	0.1	404
17082.2	17116.5	18396.7	17450.0	0.0	0.3	678
120134.2	138418.9	120126.3	122340.0	0.0	0.7	478
120134.2	138418.9	120126.3	122340.0	0.0	0.7	480
6236.0	7031.5	6866.0	7515.6	0.0	0.7	402
23113.4	21662.6	23312.5	24825.0	0.0	0.6	620
8902.3	10117.0	10887.3	10302.0	0.0	0.8	387
10147.3	9440.3	10382.7	9269.5	0.0	0.7	251
28220.5	29439.3	31047.3	30199.0	0.0	0.4	177
3625.2	3493.7	3631.7	3220.1	0.0	0.7	904
10774.2	10867.9	11454.8	11436.0	0.0	0.5	115
55359.3	55612.9	50302.1	62984.0	0.0	0.7	3394
47452.2	52782.7	50940.1	51946.0	0.0	0.5	333
9283.5	9443.6	9862.0	10357.0	0.0	0.5	66
12319.0	11000.7	12086.4	12420.0	0.0	0.7	654
73235.7	71141.0	70047.5	71031.0	0.0	0.5	264

Dnm3	0.966362	0.011825	51.727	LT(0.034)LS(0.966)APLPR	2	-0.11176	4154.0	3875.9
Camk2a	0.954772	0.000332846	85.729	S(0.955)T(0.042)VAS(0.003)CMHR	2	-0.80064	20130.0	21355.8
Ccny	0.990243	3.04E-16	121.53	S(0.01)AS(0.99)ADNLILPR	3	2.8139	214348.4	237295.6
Palm3	0.847708	2.81E-09	70.197	QGT(0.022)S(0.13)S(0.848)PDLPT(	3	0.31743	34748.7	32432.5
Ncoa2	1	6.40E-06	71.279	ECPDQLGPS(1)PKR	3	0.56578	16420.8	17932.4
Pcm1	0.976072	1.80E-21	118.54	QGLAET(0.024)AS(0.976)PVAVSLR	2	0.11101	27413.7	29220.7
Trip12	0.648292	7.96E-16	91.961	HLAESESLT(0.648)S(0.351)PPK	3	1.0332	11860.4	12264.6
Zfyve19	0.999973	1.50E-17	72.325	WS(1)PPQNYK	2	0.30159	38119.2	33761.9
Tnik	0.997468	3.72E-24	99.092	LVDFGVS(0.003)AQLDRT(0.997)VC	3	0.93236	31474.8	29025.5
Sh3pxd2a	0.806685	4.61E-08	101.39	RT(0.193)S(0.807)PASSLQR	2	-0.52634	28872.4	29746.1
Magi1	0.997037	0.001073	69.342	S(0.997)ADNT(0.003)LER	2	0.088709	28771.0	33330.9
Rims2	0.998088	4.29E-09	104.59	T(0.001)T(0.001)NHS(0.998)PPTPF	3	0.18285	28165.1	30396.6
Sptan1	1	0.000117908	61.962	GVIDMGNS(1)LIER	2	-0.80227	13068.2	15010.2
Rab11fip5	0.832519	1.77E-07	56.817	S(0.156)PS(0.833)HS(0.012)SWLA	3	1.0288	14720.0	17037.3
Srrm2	0.933956	7.51E-05	54.812	HS(0.04)HS(0.934)GS(0.456)T(0.4	3	-0.92439	29177.7	30247.4
Zfp608	0.515019	0.00224592	44.925	FCES(0.515)PT(0.221)S(0.264)DLE	2	-1.0199	8742.0	9011.7
Rps6ka1	0.526531	4.04E-05	50.874	GFS(0.468)FVAT(0.527)GLMEDDS(	3	1.4936	8877.9	9229.4
Sdpr	0.97034	1.14E-21	81.807	EPVPS(0.97)T(0.03)AEGK	3	0.24258	32025.8	31308.1
Fxyd1	0.790279	6.70E-43	133.94	TGEPDEEEGT(0.004)FRS(0.206)S(C	3	-0.39612	128535.1	141556.9
Slk	0.693689	4.77E-16	44.167	RAS(0.694)S(0.255)DLS(0.038)IAS(	4	-1.6435	4128.8	4621.9
Tiam1	0.99438	3.19E-17	94.688	S(0.006)LEGIFDDS(0.994)VPDGKR	3	-0.084648	15393.9	16073.1
Ppap2c	0.918467	2.75E-10	63.998	KPS(0.918)LS(0.081)LT(0.001)LTLC	3	1.3673	6506.7	6553.2
RGD15656	0.993244	0.000467816	66.023	DAGS(0.007)QT(0.993)PERK	3	-0.18907	39587.4	39615.1
Sorbs1	0.623246	3.35E-09	57.238	NNNPQSELAAAHGDS(0.623)ES(0.3	3	-0.95007	3649.8	3120.0
Pbrm1	0.596753	1.25E-42	95.445	RLS(0.403)S(0.597)LPTVDPIAVCHE	3	-0.58257	13743.2	14648.2
Klc2	0.5	0.00762821	50.354	RAS(0.5)S(0.5)LNFLNK	2	0.086793	8154.8	7314.6
Myo1c	0.999017	1.53E-05	62.469	Y(0.001)RAS(0.999)ALGSDGVR	3	-1.2202	7858.8	7290.4
LOC10091	0.638352	0.000820479	42.947	YDLDFKS(0.638)PADPS(0.361)R	3	2.4602	6233.7	6717.6
Chd9	1	0.000170487	69.03	VKS(1)EPVS(1)PK	3	1.7086	40440.2	43589.2
Rbm14	0.668701	2.08E-15	51.989	GQPGSAYDGTGQPS(0.014)AAY(0.0	5	-0.059426	5856.8	5826.4
FAM120C	0.999433	9.55E-18	66.893	GS(0.999)FGMQVVS(0.001)VGGPC	3	0.16226	14710.5	13492.1
Slain2	1	1.19E-07	69.345	QLILPGNS(1)GNFK	2	0.13188	10479.0	9976.7
Hrh1	0.979617	6.01E-05	50.178	RPS(0.98)RDPS(0.02)VGLDQK	3	-0.28393	24346.2	25500.0
Zmym2	0.946157	7.20E-11	64.275	QQGVDS(0.039)LS(0.946)PVAS(0.0	3	1.4267	3919.3	3818.8

4402.6	3819.4	4207.8	4723.7	0.0	0.7	773
21105.5	19422.0	22918.1	21855.0	0.0	0.7	275
216505.6	213865.2	262875.7	208550.0	0.0	0.8	326
35654.9	34082.3	37194.2	34200.0	0.0	0.6	270
17211.0	17442.1	17589.9	17857.0	0.0	0.4	29
30013.3	28527.5	29931.6	30416.0	0.0	0.5	859
11343.8	13067.5	11436.6	11877.0	0.0	0.6	974
34395.4	38053.1	34590.9	36367.0	0.0	0.6	69
29669.4	31203.7	30982.1	30305.0	0.0	0.4	126;181;153;153;153
29353.2	29205.0	31116.8	29915.0	0.0	0.3	541
34006.8	34868.7	30075.9	33639.0	0.0	0.7	1331
29151.0	30727.4	30797.2	28447.0	0.0	0.5	240
14440.8	14292.9	14264.3	15058.0	0.0	0.6	1595
18738.8	18241.7	16286.1	17270.0	0.0	0.8	280;280
28764.5	29164.3	32514.6	28785.0	0.0	0.6	962
9912.6	9689.3	8576.7	10114.0	0.0	0.7	420
9000.8	9839.4	8846.6	9121.7	0.0	0.5	368
35933.8	28935.5	34154.9	38739.0	0.0	0.8	178
130184.4	130191.2	147088.1	133330.0	0.0	0.6	83
5095.4	4383.1	5455.1	4365.3	0.0	0.8	264
15075.3	16394.9	16328.9	15021.0	0.0	0.5	733
6712.7	6610.3	7738.4	5934.9	0.0	0.8	209
33634.2	39939.5	35854.1	39960.0	0.0	0.7	315
3379.4	3389.0	3701.1	3321.6	0.0	0.7	1412
14085.2	13209.4	14716.3	15650.0	0.0	0.7	61
8334.9	7851.8	8959.9	7608.4	0.0	0.7	581
8444.2	7124.1	8763.2	8316.6	0.0	0.7	6
6728.4	6493.7	6703.8	6991.4	0.0	0.5	263
40025.2	43513.3	44192.7	39560.0	0.0	0.6	1572
5396.9	5729.1	5656.3	6137.2	0.0	0.5	572
12208.2	13715.4	14444.9	13298.0	0.0	0.7	680
10969.0	10537.7	10454.7	11247.0	0.0	0.5	234
27777.6	25994.2	28105.3	25537.0	0.0	0.6	264
4228.5	4067.0	4289.0	3921.0	0.0	0.6	305



Farp2	0.852881	5.95E-71	103.51	QAS(0.046)LS(0.853)T(0.101)AEQ(	3	-1.4993	10527.3	10881.3
Camta2	1	0.0256356	66.299	FLNS(1)PQR	2	-4.1238	10719.8	11433.1
Ssh3	0.671142	2.49E-05	47.965	S(0.671)PPAS(0.12)GHS(0.144)T(0	3	-0.46131	20584.5	21135.4
Eif3a	1	0.000297436	62.298	AREES(1)WGPPR	3	3.052	13126.6	13431.7
Cdk17	0.891246	4.92E-08	60.307	LQIS(0.108)S(0.891)PPFDQPMSR	2	0.80715	18481.8	18270.2
Atp1a1	0.999612	2.01E-17	93.371	YEPAAVSEHGDKKS(1)K	3	0.76026	21121.2	22573.4
Ncam1	0.999963	1.25E-09	78.69	TEEERT(1)PNHDGGK	3	-0.28502	28986.9	30014.9
Usp54	0.700674	4.97E-22	83.423	S(0.136)S(0.136)S(0.701)PS(0.027	3	-0.26032	13348.5	13208.0
Nacad	0.995344	4.09E-50	122.47	LYS(0.995)GEPHAQPS(0.005)AQNI	4	-1.2997	47611.8	62914.6
Trex1	0.690603	6.33E-17	73.678	RPT(0.691)S(0.309)PPENVPEAPS	3	0.40815	16968.3	17883.0
Grip1	0.564915	0.0381868	52.579	S(0.003)LYS(0.092)T(0.565)S(0.34)	2	-0.99545	18196.7	18623.4
Ndrg1	0.922392	1.08E-21	88.565	TASGSS(0.001)VT(0.015)S(0.061)L	2	-0.53977	17468.0	18859.3
Oxr1	0.737789	1.66E-21	105.53	VVS(0.111)S(0.738)T(0.147)S(0.00	3	-0.96702	8227.8	8556.7
LOC10254	0.539219	1.18E-12	65.881	S(0.539)RT(0.407)HS(0.168)T(0.64	3	0.08365	14009.2	15964.5
Akirin2	0.927556	6.24E-05	48.288	T(0.001)LDFDPLLS(0.071)PAS(0.92	3	0.025348	10551.2	10585.8
Cep350	0.5	9.61E-22	82.765	VKS(0.5)PS(0.5)PNPGGLLAQLCR	3	2.0984	12822.5	12499.3
LOC10369	0.971269	0.000161015	58.32	HS(0.029)GGG(0.971)PEHLQK	3	0.02653	11606.7	10588.8
Rap1gap	0.999973	3.47E-09	61.039	RGS(1)ALGIGAVEESLIVPGK	3	-0.084816	3449.5	2838.3
Ostm1	0.68162	7.94E-15	79.332	LKS(0.034)S(0.147)T(0.682)S(0.12	3	0.46829	26570.5	25387.0
Nefm	1	6.37E-06	111.79	KKAES(1)PVK	3	1.0367	3221069.4	3479194.5
Vcpip1	0.897799	2.10E-08	117.86	ES(0.092)S(0.898)PS(0.01)HGLLK	2	0.20471	104014.8	100589.3
Nefl	0.99653	1.42E-122	198.77	SAYSGLQS(0.997)S(0.003)SYLMSA	2	0.34236	24870.9	20255.6
Prkab2	0.948062	2.77E-26	77.871	IMVGS(0.948)T(0.051)DDPSVFLSLP	3	1.2434	125064.4	129710.2
Tmx1	0.999634	0.00146381	89.609	DTPQS(1)GLR	2	-0.82149	9759.5	10072.2
MAST1	0.994342	1.96E-17	69.986	S(0.994)PIT(0.006)IQR	2	1.09	9015.6	8447.9
Rlf	0.965557	9.43E-05	51.524	EHQGY(0.027)S(0.966)PEPS(0.007	3	0.82687	5207.7	5438.7
Cacna1a	1	0.0154455	45.653	KQNLLAS(1)R	3	-1.0348	4863.9	4922.2
LOC10091	0.804763	5.33E-10	57.152	SVIDPIAPVGDS(0.805)NVDS(0.19	3	-0.91328	4957.8	5522.5
Nefm	0.945785	6.21E-05	47.016	FSTFS(0.004)GS(0.036)IT(0.946)Gf	3	-3.0978	9673.2	11127.1
Abca1	0.873138	0.0134331	51.064	DVES(0.092)S(0.873)LS(0.014)S(0.	2	0.66593	8161.3	8423.5
Fgf13	0.998444	1.53E-05	113.71	KS(0.001)YS(0.998)EPQLK	2	-0.5238	291562.4	301081.2
Rgs6	0.941164	1.04E-53	98.627	SVYGVTTDES(0.001)QS(0.054)QS(0	3	-0.83473	51081.3	54060.4
Irf2bp2	0.929183	3.56E-47	106.99	S(0.929)PADS(0.071)LSGTTGASELS	3	0.50907	23216.7	22351.8
Edc4	0.995069	1.23E-98	119.72	GPGQVSSGT(0.001)S(0.004)ALS(0.	3	0.11901	31016.8	32711.1



11341.6	10987.1	11953.9	10659.0	0.0	0.6	500
10524.6	11813.6	10538.9	11173.0	0.0	0.6	383
25168.1	21569.1	21422.0	25633.0	0.0	0.8	9
11815.4	13514.1	13724.6	12132.0	0.0	0.7	1159
18932.5	19018.3	20194.2	17919.0	0.0	0.5	165
21046.9	20552.7	23486.7	22385.0	0.0	0.6	23
29768.5	30344.6	31303.8	29431.0	0.0	0.3	799
13725.4	13208.3	13939.4	14182.0	0.0	0.4	1113
54338.3	48224.4	58240.0	62690.0	0.0	0.8	412
15900.4	18314.3	18488.6	15270.0	0.0	0.7	273
17275.9	19066.7	19249.5	17190.0	0.0	0.6	431
17234.4	18036.0	19245.2	17677.0	0.0	0.5	340
8501.8	8326.3	9606.5	8013.0	0.0	0.7	202
14562.2	15059.5	14885.1	15753.0	0.0	0.6	158
9488.0	10224.3	10843.5	10356.0	0.0	0.5	21
11996.4	12418.5	13351.6	12522.0	0.0	0.4	937
13600.8	12142.5	11185.5	13404.0	0.0	0.8	330
2385.3	3247.1	2828.0	2824.8	0.0	0.8	557
23108.1	25350.8	26032.2	25646.0	0.0	0.6	328
3263234.1	3875598.0	3155171.1	3193400.0	0.0	0.7	666
104237.0	102485.4	101065.9	113370.0	0.0	0.5	997
22860.0	23034.3	23949.4	22782.0	0.0	0.7	430
124531.2	126726.4	136465.8	126040.0	0.0	0.4	38
8948.5	10113.4	9429.9	9990.2	0.0	0.6	262
8422.7	9155.5	8410.7	8998.7	0.0	0.5	968
5318.4	5110.3	5705.0	5568.3	0.0	0.5	1040
4536.9	4588.0	5308.9	4801.8	0.0	0.6	688
5587.1	5886.2	5504.1	5098.9	0.0	0.7	209
10897.7	10289.2	11252.8	10988.0	0.0	0.6	418
8609.0	8161.9	9304.5	8388.8	0.0	0.6	1078
269035.0	312828.5	286182.8	285290.0	0.0	0.6	9
50315.0	54592.1	55864.4	49084.0	0.0	0.6	244
24999.9	24763.4	23333.8	24326.0	0.0	0.5	250;100
31420.8	31599.6	33595.0	32456.0	0.0	0.3	713

Agtr1a	0.773722	1.14E-06	131.12	SHS(0.002)S(0.003)LS(0.221)T(0.7	2	0.71518	31462.9	33381.3
Rhbdf2	0.836263	1.11E-06	48.053	GVPS(0.014)S(0.052)AS(0.836)PV	4	2.1562	2188.4	2002.7
Fam21c	0.846479	4.45E-76	109.44	EGLLPT(0.154)S(0.846)DQEAGGPS	3	1.0763	23093.9	21924.0
LOC10255	1	0.0548795	44.612	NDS(1)IPVLR	2	0.18907	8550.2	8512.3
Plekha5	0.864976	1.28E-07	69.331	T(0.135)NS(0.865)MQQLEQWIK	3	1.0905	8389.9	8129.8
Asap1	0.996747	6.82E-12	62.94	TLS(0.003)DPPS(0.997)PLPHGPPN	4	-0.86503	32960.9	34450.8
Fhdc1	1	0.001052	57.53	EALS(1)PAGEDDR	2	-1.6703	19255.8	22068.8
Syn1	0.999886	6.20E-43	90.388	QS(0.001)RPVAGGPGAPPAARPPA	4	0.53569	36528.2	36776.3
Dpysl2	0.957192	2.74E-20	100.45	T(0.04)VT(0.957)PAS(0.504)S(0.49	2	1.4427	831273.7	891353.0
Ep400	0.499933	3.77E-39	77.939	VAVSAMAVGEPGLAS(0.5)KPAS(0.!	5	-0.31639	4566.9	4517.6
Cobll1	0.617525	2.25E-41	112.56	T(0.073)GS(0.309)LQLS(0.618)GST	3	-0.6242	52497.0	51695.4
Ube4b	0.561252	1.63E-58	94.203	SQSS(0.002)EGVS(0.561)S(0.361)L	3	1.1777	13454.6	11194.0
RGD15611	1	0.0257929	47.561	RPAGS(1)AK	3	0.66371	7781.8	8149.9
Atp2a2	0.788912	1.02E-12	71.685	VGEAT(0.789)ET(0.211)ALTCLVEK	3	-3.7129	15886.5	14899.4
Prx	0.997696	4.93E-11	63.225	VTS(0.002)GVKPS(0.998)GLQVSTT	2	-1.9707	33723.0	31977.3
Atg4d	0.783646	3.54E-20	74.222	WVEGTGLAS(0.03)S(0.03)EMPGP/	3	0.47037	2105.8	2537.5
Sgsm1	0.997313	3.98E-21	113.4	CSSGAS(0.997)LDS(0.003)HLHR	3	-0.25591	13690.8	13346.2
Sf3a1	0.980861	9.90E-33	88.176	EKQS(0.019)DDEVY(0.981)APGLDI	3	-0.15105	14357.5	13105.9
Gbf1	0.586307	0.00287674	61.958	AGGMS(0.018)DS(0.396)S(0.586)k	2	1.1455	8821.7	8840.7
Cdc42bpa	0.963815	2.55E-08	116.51	REFS(0.964)GGG(0.036)YNTK	3	-0.66612	72355.1	72170.4
Camk2g	1	0.0230624	70.908	S(1)DGGVKK	2	-0.52497	85772.7	77640.7
Dlgap4	0.713178	4.57E-66	123.71	QNS(0.713)AT(0.287)ESADSIEIYVP	3	-0.12621	7165.7	7027.3
Arid1b	0.799307	0.000352678	45.28	MS(0.799)PS(0.189)KS(0.012)PFLF	3	1.2657	11059.4	10890.8
Hspa4l	0.870067	3.99E-47	138.73	QLTQDLLNS(0.87)Y(0.13)IENEGK	3	0.70278	19719.8	18221.9
Cdk18	0.968244	0.00246155	58.172	AS(0.032)LS(0.968)DIGFGK	2	0.81122	14957.4	14505.6
LOC10255	0.878037	2.00E-15	58.964	LLQET(0.002)ELVEPLT(0.878)PS(0.	3	1.401	15894.8	16274.9
Ppp1r12b	0.94864	9.78E-22	73.574	LESGGSNPTSSDS(0.025)HS(0.025)	3	-1.5495	11319.4	12583.8
Uhrf1bp1l	0.995159	4.21E-26	76.446	DHNLGS(0.995)PPKS(0.268)PT(0.7	5	-0.019526	11445.8	10864.8
Ank3	0.999983	1.80E-30	159.77	RQS(1)FTSLALR	2	-0.56694	154189.6	148697.8
Slc25a5	0.999116	0.000549244	53.237	AAY(0.999)FGIY(0.001)DTAK	2	-0.92124	9838.9	10269.9
Nucks1	0.999999	8.03E-101	147.87	KVVDYSQFQES(1)DDADEDYGR	3	-1.202	847410.7	860354.2
Pcp4l1	1	0.025061	58.699	GKPGS(1)IK	2	0.099259	69056.1	60410.4
Inpp5f	0.870021	7.99E-44	128.59	S(0.015)DS(0.112)S(0.87)LET(0.00	3	0.45888	50184.4	53405.5
Apba1	0.97667	7.85E-112	168.92	S(0.01)AS(0.157)T(0.672)ES(0.977	3	-0.41459	58938.6	60841.5

30617.0	31193.8	30096.2	36685.0	0.0	0.7	332
2781.1	2387.0	2238.1	2530.8	0.0	0.8	294
21633.5	22750.5	22227.8	23429.0	0.0	0.4	765;731
8555.9	8729.4	9061.0	8503.2	0.0	0.2	146
8854.2	9128.0	8714.9	8200.5	0.0	0.5	189
32789.9	33860.1	35533.5	33456.0	0.0	0.3	855
19846.0	20601.1	21144.2	21042.0	0.0	0.6	730
37284.8	37658.2	39282.3	36572.0	0.0	0.3	551
815813.9	882717.7	900460.7	822380.0	0.0	0.5	514;615
4324.5	4502.6	4798.3	4462.7	0.0	0.4	1577
49570.8	51554.0	53904.5	52371.0	0.0	0.3	376
13733.9	12569.2	13331.3	13497.0	0.0	0.7	83
8554.2	7965.1	8712.0	8457.2	0.0	0.5	32
13794.6	15302.6	15669.5	14790.0	0.0	0.6	441
36334.1	33920.6	34422.1	36398.0	0.0	0.6	1057;1057
2070.4	2352.2	2031.6	2508.1	0.0	0.8	183
14462.1	13761.6	14744.1	14095.0	0.0	0.4	633
12542.5	13326.0	13576.1	14166.0	0.0	0.6	454
9237.4	9687.2	9214.8	8712.0	0.0	0.5	225
74791.1	75029.4	75420.6	74691.0	0.0	0.1	1651
74856.0	81151.7	82218.3	81230.0	0.0	0.6	346;346;346
7367.4	7074.0	7946.9	7112.5	0.0	0.6	973
9800.2	10577.5	11047.6	10969.0	0.0	0.5	1091
17293.0	19715.7	18772.9	18214.0	0.0	0.6	599
14548.3	15633.7	14240.7	15307.0	0.0	0.4	111
15962.2	16848.1	16402.6	16161.0	0.0	0.1	161
12099.7	11895.0	12815.2	12250.0	0.0	0.5	682;59
11783.5	11880.7	11180.2	11940.0	0.0	0.5	414
152126.7	159153.2	159869.1	148100.0	0.0	0.4	1411
10045.7	10526.1	10527.6	9903.3	0.0	0.3	191
858708.3	859981.5	940534.9	834260.0	0.0	0.5	19
61238.2	62956.2	66509.2	66317.0	0.0	0.6	26
51853.4	52474.7	55302.3	51806.0	0.0	0.4	829
63360.0	61047.8	64465.9	62506.0	0.0	0.4	86

Cbl	0.785903	8.23E-87	159.86	VERPS(0.786)S(0.213)PFS(0.001)M	5	-0.24326	69117.0	69299.8
Cdc42ep2	1	9.82E-06	74.475	LHLES(1)PQPS(1)PK	3	-0.25569	30397.8	31363.0
Ccdc93	0.99397	4.68E-05	54.023	QSELS(0.006)AEES(0.994)PEK	3	-0.7791	7894.9	8720.3
Snw1	0.979932	9.38E-33	111.66	GPPS(1)PPAPVMHS(0.98)PS(0.02)	4	-0.17117	173069.7	181671.0
Sym	0.875191	2.47E-10	69.915	RS(0.875)S(0.125)PVPR	2	-0.77403	33330.6	34708.6
Srsf4	0.598619	0.0123144	49.448	LIVENLS(0.599)S(0.401)R	2	-0.049154	6662.4	7759.0
Srrm2	0.998712	0.00253082	42.314	S(0.999)RS(0.984)PQRPGWS(0.01	3	-0.42054	17518.1	16513.0
Srrm2	0.984182	0.00253082	42.314	S(0.999)RS(0.984)PQRPGWS(0.01	3	-0.42054	17518.1	16513.0
Tmcc2	0.933554	2.40E-17	92.633	IQQLS(0.066)EGS(0.934)MFGHGLI	3	-0.8912	11945.9	10809.0
Etl4	0.982092	0.000620226	65.234	IPALS(0.982)PS(0.015)S(0.003)GK	2	0.1185	35256.8	34537.5
Dnajc5	0.617452	9.56E-82	174	S(0.002)LS(0.068)T(0.617)S(0.105)	3	0.16778	19688.8	21701.4
Usp45	0.824762	7.21E-10	76.158	CRS(0.825)LQET(0.175)DQDHNK	4	-1.0853	8638.9	8813.3
Lmna	0.930704	1.29E-93	181.34	AS(0.018)S(0.057)HS(0.931)S(0.97	3	0.042334	274411.7	282049.7
Mark3	0.645788	2.33E-31	88.176	KSAELDAS(0.01)DS(0.15)S(0.646)S	4	-0.26872	7972.6	8519.0
Phrf1	0.999952	1.92E-22	62.02	AQRPS(1)PPDPWDEDEDGVSCTPFFC	4	-1.6474	5366.9	5077.8
Map7d1	0.523839	2.19E-13	72.916	S(0.459)S(0.524)QPS(0.508)PT(0.5	3	0.37352	13520.2	14687.7
Prkaa1	0.942668	3.34E-47	116.35	SIDDEIT(0.011)EAKS(0.943)GT(0.2	3	-0.32466	122655.2	125969.7
Brsk2	1	6.23E-13	140.09	VDS(1)PMLNR	2	-0.45669	32276.3	34352.1
Sorbs1	1	0.00471395	47.971	S(1)GLEMRPAR	3	0.10604	10753.7	9851.7
Hspa12a	0.996244	1.85E-51	163.64	ETAPTSAYS(0.004)S(0.996)PAR	1	0.023268	154690.5	146635.6
Ppfia1	0.85886	5.21E-07	97.195	CET(0.139)S(0.859)PPS(0.001)S(0.	3	-1.081	27815.7	30480.0
Clasp2	0.999128	4.70E-05	66.246	S(0.999)QEDMS(0.001)EPLKR	3	0.38125	29147.9	24514.9
Atg16l1	0.929329	7.08E-32	90.1	S(0.929)VS(0.055)S(0.016)IPVPQD	4	0.082562	40245.8	38577.4
Specc1l	0.599256	1.10E-05	64.405	T(0.107)S(0.128)S(0.599)T(0.128)S	2	1.6994	22755.1	23648.4
Fry	0.667422	1.71E-22	75.773	KS(0.238)T(0.067)GQLNVS(0.018)I	4	-0.43816	15352.2	16439.5
Epb41l3	0.890911	3.50E-13	74.793	VES(0.045)IS(0.891)VGS(0.142)VS	3	0.84005	27677.3	27207.9
Srrm2	0.998883	8.26E-21	102.57	S(0.001)MLQT(0.999)PPDQNLSGS	3	0.12906	186821.3	198179.6
Scn7a	0.567098	2.31E-57	82.516	TPVT(0.001)ES(0.013)ES(0.152)QS	6	-0.84757	6642.6	6400.6
Rtn3	0.987887	6.50E-05	99.5	IDS(0.988)IS(0.012)SLTK	3	-1.8529	20229.0	16595.2
Tmc7	0.501187	1.25E-10	47.195	AVHPENLS(0.501)LGPS(0.249)CFSI	4	1.1304	1160.3	1005.1
Cdk11b	1	3.58E-08	115.34	RDS(1)LEEGELR	2	1.2342	6293.4	6569.1
Vps13d	0.958692	2.26E-13	111.88	NAS(0.005)S(0.036)ES(0.959)AVVI	2	-1.3348	47057.2	50884.8
Fgd1	0.997397	7.80E-07	86.944	QES(0.997)VELT(0.003)VQQK	3	1.2229	15246.0	15237.2
Rab13	0.729676	8.29E-07	61.495	S(0.021)GNS(0.73)S(0.23)KPS(0.00	3	-0.44677	20393.6	22077.6

67401.4	69298.6	75082.9	66924.0	0.0	0.5	481
32826.1	31297.2	32563.7	33248.0	0.0	0.4	137
8475.7	8368.8	9357.0	8034.1	0.0	0.7	305
164945.0	179524.4	180205.4	173820.0	0.0	0.4	232
34402.8	36994.9	34119.7	34062.0	0.0	0.4	1041;1041
7387.2	7605.0	7467.8	7318.3	0.0	0.6	112;116;118
15945.1	17230.9	17333.4	16747.0	0.0	0.4	530
15945.1	17230.9	17333.4	16747.0	0.0	0.4	532
12276.4	12868.4	11297.7	11801.0	0.0	0.7	20
35918.9	34290.1	37156.7	37091.0	0.0	0.4	1653
22334.1	21584.5	20792.6	23050.0	0.0	0.6	11
8981.1	9310.8	8969.3	8859.9	0.0	0.2	403
290956.0	314995.5	274502.6	280580.0	0.0	0.6	406
8072.3	7829.2	9195.1	8197.1	0.0	0.6	377
4820.4	5009.9	5747.1	4916.9	0.0	0.7	736
14596.2	14322.6	15163.0	14465.0	0.0	0.4	115
117461.9	123657.5	126645.0	125590.0	0.0	0.3	486
30306.1	32598.4	35480.0	31455.0	0.0	0.6	383
10504.5	9835.6	11651.4	10457.0	0.0	0.7	1492;791;998
140149.5	152388.4	160018.7	140910.0	0.0	0.6	24
32100.0	32001.1	29615.3	31204.0	0.0	0.6	740
31746.6	28737.5	30707.5	28256.0	0.0	0.8	972;1174
37136.8	38450.2	41123.6	39499.0	0.0	0.4	303
22469.3	22338.0	25739.4	22645.0	0.0	0.6	923
14961.4	14827.5	15967.7	17214.0	0.0	0.6	1964
29730.1	28850.8	28766.8	29272.0	0.0	0.4	975;957;1294;740
189389.2	185684.2	207637.5	196510.0	0.0	0.5	975
7801.6	6809.4	7692.0	6904.0	0.0	0.7	824
16409.3	18423.2	18557.0	17685.0	0.0	0.7	728
1571.6	1330.3	1276.4	1230.9	0.0	0.9	25
6793.6	6645.0	6962.4	6577.8	0.0	0.4	13
44353.0	47804.2	50771.3	47552.0	0.0	0.6	2438
14066.0	14749.4	16329.9	14670.0	0.0	0.6	366
21975.3	20789.2	23789.1	21605.0	0.0	0.6	181

Eif4g3	0.846153	1.43E-06	42.791	S(0.021)S(0.021)LPS(0.846)PMS(0	3	-2.0232	9922.3	11328.9
Eml1	0.895721	0.00498857	88.181	ES(0.104)S(0.896)GDS(0.001)K	2	1.203	16365.9	16676.4
Arhgap10	0.921266	7.48E-88	140.93	TSPDTTFAEPT(0.011)CLS(0.068)AS	3	0.19674	14851.2	16590.8
Etl4	0.965806	4.28E-05	57.288	S(0.966)IS(0.03)PS(0.003)PS(0.001	2	2.2228	8252.1	7485.7
Ppp1r12a	0.580999	1.86E-26	114.54	T(0.581)GS(0.418)YGALAEIT(0.001	3	-0.93777	35082.7	35394.2
Evl	1	4.60E-48	116.2	VKPAGS(1)VNDVGLDALDLDR	4	0.085193	84253.3	84191.5
Gjc3	0.999991	4.73E-23	149.69	NLS(0.652)T(0.031)S(0.317)ERS(1)	2	0.45461	199475.6	206340.6
Stxbp5l	0.757289	1.02E-14	112.17	S(0.105)S(0.128)S(0.757)IS(0.009)	4	0.96049	64729.1	64650.0
Map2	1	2.38E-08	105.99	KDDQS(1)PLDIK	3	0.61558	170243.1	161597.5
Aagab	0.960681	0.0125917	43.635	T(0.039)ES(0.961)LPGHR	3	0.12666	6109.5	6318.6
Bod1l1	0.749308	4.10E-16	91.589	S(0.002)QGKS(0.249)S(0.749)VDLI	3	-0.04631	33087.3	35375.5
Prrc2a	0.988111	0.000453322	44.853	DS(0.005)QS(0.007)AAGEEPET(0.9	3	-0.12619	10634.5	9590.2
Krtcap2	0.746735	1.18E-07	54.281	IS(0.001)S(0.001)T(0.002)LY(0.047	3	1.2935	19722.1	18478.6
Map7d2	1	0.015351	54.525	ALRS(1)PLK	3	0.51924	20510.5	20693.3
Ncor2	1	0.0285137	44.753	DRS(1)LAGK	3	0.1872	21904.8	22791.7
Cic	1	0.0230474	57.859	AQRPS(1)PK	3	0.8688	24050.4	23839.3
Eya4	0.999768	3.13E-06	61.265	NNPS(1)PPPDSDLER	2	0.12128	45726.1	46956.7
Irf2bp2	0.812597	0.000871966	40.501	RPAS(0.813)VS(0.127)S(0.061)AA/	3	-2.8524	9782.1	10288.4
LOC68291	0.689531	0.000542932	52.247	MNLS(0.015)KS(0.296)PT(0.69)K	2	2.2224	9512.8	10269.3
Hdgfrp2	0.999918	0.00023556	72.34	SEGLS(1)LDRK	3	-0.20644	16202.6	14969.6
Tuba1b	0.777073	0.00633127	55.531	LS(0.223)VDY(0.777)GKK	2	-0.19443	42416.5	45724.9
Git2	0.649792	1.72E-26	76.583	QNS(0.184)T(0.65)PES(0.135)DY(C	3	0.21996	9018.0	8240.0
Pcm1	0.989835	1.43E-12	73.279	NRHS(0.99)AQT(0.01)EEPVQAK	3	0.069003	4266.3	4590.5
Hdac6	1	2.35E-30	122.19	HNPQS(1)PLQDSSATLK	3	0.95367	45914.6	46067.1
Pcf11	0.608526	0.023566	40.727	S(0.086)KS(0.609)PS(0.305)PLK	3	1.0261	12034.1	12259.1
Ednrb	0.999995	4.32E-05	66.246	QSLEEKQS(1)CLK	3	-1.0373	54838.2	62440.8
Cep350	0.771875	9.61E-22	82.765	VKS(0.772)PS(0.228)PNPGGLLAQL	4	1.6535	14322.9	14318.0
LOC68359	0.998966	9.69E-83	168.4	GRPEAAASST(0.001)ALRS(0.999)P	3	-0.75573	12104.5	12463.1
Sh3pxd2a	0.966693	8.80E-17	95.414	AAS(0.319)QGS(0.714)ES(0.967)PI	2	0.27465	18777.5	19209.2
Rap1gap2	0.985776	1.08E-39	123.4	SET(0.002)S(0.007)S(0.038)NPS(0.	2	0.75296	44581.2	43703.3
Gjc3	0.990976	4.50E-05	85.271	NLS(0.001)T(0.008)S(0.991)ER	2	0.39243	45292.0	54563.8
Hspb8	0.665232	0.000515558	66.023	LS(0.325)S(0.665)AWPGT(0.01)LR	2	1.3727	9367.7	9234.7
Usp15	0.933605	8.72E-05	48.899	S(0.934)PGAS(0.063)NFS(0.002)T(	2	-0.93452	51452.2	53317.7
Plekha6	0.866412	0.000686514	43.592	GVPPPEDLRS(0.866)PS(0.134)R	3	1.0961	23308.5	27125.6

11279.9	10789.3	11024.1	11595.0	0.0	0.6	319
14466.4	16073.7	15233.5	17483.0	0.0	0.7	116
16124.0	15461.0	16178.2	17210.0	0.0	0.6	515
7625.9	8051.5	7855.2	8087.4	0.0	0.4	209
37041.0	36079.8	35934.2	38408.0	0.0	0.4	443
84850.9	86162.0	89986.2	83990.0	0.0	0.3	354
182181.5	203162.6	200712.7	200010.0	0.0	0.5	238
55943.7	61326.1	65629.7	63375.0	0.0	0.6	819
164210.4	173672.6	175204.2	160590.0	0.0	0.4	1133;1047
5844.2	6156.0	6331.5	6279.1	0.0	0.3	217
35260.9	35408.8	36647.0	34475.0	0.0	0.4	536
10497.3	9535.6	9826.1	12192.0	0.0	0.8	371
19300.9	20321.8	19263.4	19474.0	0.0	0.3	97
19287.1	21848.5	23672.6	16609.0	0.0	0.8	239
20891.5	21034.5	24554.2	21777.0	0.0	0.6	140
21924.2	24526.9	23884.2	23296.0	0.0	0.5	2074
45671.0	49078.0	46040.4	46988.0	0.0	0.3	361
11148.9	10579.0	10804.0	10684.0	0.0	0.5	226;76
8668.0	9346.5	9908.0	9968.0	0.0	0.6	445
15739.7	15221.2	15151.2	17813.0	0.0	0.7	454;454
43655.6	49655.5	42348.2	43373.0	0.0	0.7	161;161;161;146
9562.0	9425.3	8570.3	9552.8	0.0	0.6	572
4701.7	4791.3	4547.5	4588.0	0.0	0.5	1332
44487.1	47504.0	43397.6	49281.0	0.0	0.5	21
11027.6	13162.1	11508.2	11612.0	0.0	0.7	371
63596.4	60810.2	63172.9	61818.0	0.0	0.6	419
13406.0	14159.8	14911.9	14121.0	0.0	0.4	935
10854.0	11693.7	13227.7	11466.0	0.0	0.7	93
21758.1	20181.0	20414.3	20779.0	0.0	0.6	983
45684.9	45422.8	46728.6	45472.0	0.0	0.2	592
44871.5	53399.7	43171.1	52105.0	0.0	0.8	235
8078.0	8930.6	9179.7	9298.5	0.0	0.6	58
48292.2	51521.0	54547.9	51173.0	0.0	0.5	108
22281.9	26219.7	23481.3	25001.0	0.0	0.7	465



Prps2	0.5	8.40E-07	44.788	VAILVDDMADT(0.5)CGT(0.5)ICHA	3	-0.70535	11554.9	11415.6
Prps2	0.5	8.40E-07	44.788	VAILVDDMADT(0.5)CGT(0.5)ICHA	3	-0.70535	11554.9	11415.6
Hbs1l	0.987584	9.47E-22	73.057	GPPGDDVS(0.007)IAS(0.988)PNVF	4	0.47312	24291.3	23274.3
Dgki	0.582888	1.84E-41	114.37	RT(0.417)S(0.583)MPLLNDIHQVQ	4	-0.12254	28581.4	29072.6
Gys1	0.507642	1.31E-78	106.89	S(0.133)NS(0.355)VDT(0.508)GPS	3	0.19868	29425.8	26504.8
Kdm3b	1	0.00150542	108.57	RFS(1)LDER	3	-0.11953	9087.3	8154.1
Irs1	0.887796	7.26E-48	126.09	AS(0.09)S(0.888)DGEGT(0.023)MS	2	-1.605	16343.3	15319.5
Cacna1c	0.719196	1.03E-10	62.055	TGNNQADT(0.24)ES(0.719)PS(0.0	3	0.25153	14858.4	13775.1
Svil	0.74582	0.00128639	56.139	ATDPAS(0.746)PHT(0.254)GR	2	-0.51444	1885.0	2109.8
Jph3	1	0.00201725	49.025	S(1)EDRGFGLQR	3	0.54141	5774.5	5688.1
Vim	0.925135	1.77E-36	142.4	SLYS(0.01)S(0.064)S(0.925)PGGAY	2	-0.369	55545.5	48481.4
Pcm1	0.698888	9.10E-31	130.02	VTNDIS(0.3)PES(0.699)S(0.001)PG	2	0.50652	32809.4	33895.8
Synj1	0.756934	9.08E-06	40.533	S(0.065)S(0.065)QS(0.757)LPS(0.1	3	-0.015815	12188.0	11670.1
Sh3pxd2a	0.68268	6.65E-08	93.716	NES(0.279)LT(0.683)AT(0.012)DS	2	-0.069001	15209.0	14818.2
Fam162a	0.881037	0.011863	74.173	APT(0.881)QS(0.119)YR	2	0.28862	17874.7	20374.1
Gigyf2	0.799614	1.71E-17	72.341	ADPSLLGFS(0.006)VNAS(0.8)S(0.1	3	0.14381	5337.2	5088.0
Gfpt2	0.830357	5.67E-13	74.147	RLDS(0.83)S(0.159)T(0.01)CLHAVC	4	0.022705	15590.7	15051.9
Epb41l3	0.95083	1.31E-29	118.31	VISQTNLIT(0.01)T(0.039)VT(0.951	4	0.1511	62851.8	64508.5
Clcc1	0.888803	6.43E-19	72.916	DGSGQVPS(0.001)T(0.01)AES(0.1)	3	-1.022	8722.2	8756.6
Tnik	0.865447	5.25E-05	51.03	EGMS(0.135)PS(0.865)EKPAWAK	3	0.26922	13494.0	13245.2
Plekha2	0.965133	1.86E-223	224.08	S(0.035)IS(0.965)LPRPGSSGLTSGP	3	-0.72756	56609.3	52777.0
Map7d2	0.929748	3.20E-11	78.95	KS(0.93)S(0.047)ENLS(0.023)LDDC	4	-0.36592	46262.8	45370.6
Htt	0.843702	3.85E-52	115.06	S(0.156)GS(0.844)IVELLAGGGS(0.6	3	0.043876	67187.2	69439.1
Nudt9	0.631258	8.51E-11	68.41	DES(0.317)GNKIT(0.631)HPVS(0.0	3	-0.22201	20162.2	21461.1
Snd1	0.945302	1.64E-101	131.13	DIQNTQCLLNVEHLS(0.052)AS(0.94	4	0.27391	8089.2	7496.5
LOC68605	0.999877	0.000603253	59.227	ITRPALPS(1)PR	3	-0.064367	5822.7	5393.1
Aldoc	0.650382	1.44E-11	48.634	T(0.002)VPPAVPGVT(0.65)FLS(0.1	4	-0.39369	4168.1	4259.9
Nppc	1	0.000327824	45.873	GDKT(1)PGGGGANLK	3	-0.61308	8789.7	9577.2
Srrm2	0.9947	4.47E-19	147.28	S(0.005)GMS(0.995)PEQNK	3	-0.3025	432322.5	445972.7
Nav2	0.999916	6.62E-16	130.02	APSQVSISAS(1)PR	2	2.2455	30306.0	30414.2
Akap6	0.958769	2.62E-09	78.324	S(0.001)VS(0.04)DMT(0.959)LQSS	2	0.58354	29077.5	28160.0
Casp3	0.677615	4.54E-05	53.388	S(0.003)MDS(0.003)GIY(0.014)LD	2	0.53344	38251.6	36031.5
Fscn1	0.926301	3.75E-05	92.781	VNAS(0.002)AS(0.072)S(0.926)LK	2	-1.109	42625.2	43516.8
Arhgap23	0.499999	3.85E-07	89.747	S(0.5)S(0.5)YLLAITTER	3	1.265	1029.6	1055.8

12723.5	12684.7	12338.6	11646.0	0.0	0.6	225;225
12723.5	12684.7	12338.6	11646.0	0.0	0.6	228;228
24863.6	24146.3	25692.3	24570.0	0.0	0.4	199
30829.9	30834.1	30242.6	29827.0	0.0	0.3	705
28585.6	28173.3	28013.4	30642.0	0.0	0.6	714
8500.3	9331.8	8277.2	8837.2	0.0	0.6	784
17478.2	15967.0	17009.6	17510.0	0.0	0.6	325
13493.3	14306.1	15683.4	13291.0	0.0	0.7	1760
2050.5	2041.7	1870.8	2298.4	0.0	0.7	50;50
4745.3	6652.9	5505.7	4493.4	0.0	0.8	645
54315.9	52244.8	57596.7	52840.0	0.0	0.6	56
36218.1	32766.7	37407.9	35569.0	0.0	0.6	68
13061.0	12411.9	12897.5	12622.0	0.0	0.5	1276
16061.2	15026.5	15609.7	16716.0	0.0	0.5	944
18903.8	20062.2	19232.4	19426.0	0.0	0.5	52
5522.8	5877.0	5539.8	4969.0	0.0	0.6	1291
16654.2	15542.4	16583.2	16470.0	0.0	0.5	244
62506.2	70155.4	64508.7	60418.0	0.0	0.6	490;472;490;490
8691.5	8237.5	9491.3	9160.6	0.0	0.6	470
12381.8	12422.9	14681.0	13092.0	0.0	0.7	444
50988.9	52696.9	55282.0	56804.0	0.0	0.5	314
48814.9	46042.1	48803.9	49463.0	0.0	0.4	733
67500.4	72259.7	70144.7	67334.0	0.0	0.3	261
19623.5	21135.7	21598.4	20197.0	0.0	0.5	138
8545.3	8541.6	7921.8	8331.6	0.0	0.6	835
5769.0	6109.8	6192.2	5150.4	0.0	0.7	1353
4198.1	4408.1	4268.7	4297.0	0.0	0.1	269
8165.7	9084.5	9248.0	8931.2	0.0	0.6	56
434629.4	428005.3	471902.5	449210.0	0.0	0.4	1099
29703.5	29631.8	31008.8	32276.0	0.0	0.4	1593
29794.0	30489.8	29460.4	29481.0	0.0	0.2	1656
37109.2	36912.4	37063.8	40488.0	0.0	0.5	35
43098.8	42202.2	45664.2	44939.0	0.0	0.3	39
911.2	1028.5	1001.1	1049.7	0.0	0.6	402

Map7d2	0.663354	1.59E-11	69.188	HLSSSIVAIS(0.663)Y(0.007)S(0.33)	2	0.51082	10966.9	9039.5
Spag9	0.998687	2.92E-65	153.36	SAS(0.006)QS(0.995)S(0.999)LDKL	4	-0.25065	548525.2	535239.6
Arhgef6	0.571683	0.0460868	46.844	EES(0.253)S(0.175)KS(0.572)PK	2	-0.22937	6156.8	7017.3
Cdc42bpa	0.893313	6.78E-05	91.694	S(0.893)LS(0.037)LES(0.003)T(0.00)	2	0.045802	15483.4	14910.4
Fam122a	0.999311	1.29E-07	58.093	RIDFIPVS(0.999)PAPS(0.786)PT(0.00)	3	0.031452	9804.2	11567.0
RGD15620	0.964842	0.0001482	58.754	AS(0.035)GS(0.965)WPGHQYR	3	0.17654	7749.2	8246.3
Atxn2l	0.986892	6.45E-37	104.53	EVDGLLTSDPMGS(0.987)PVS(0.01)	4	-0.64828	375944.5	365678.5
Ppig	0.5	0.000189855	58.595	T(0.5)RS(0.5)PVEKENQK	4	0.17039	38710.8	39268.5
Stat3	0.998444	1.35E-66	152.27	FICVPTTCSNT(0.001)IDLPMMS(0.99)	4	-1.1185	94355.3	90065.5
Srrm2	0.986997	0.00597875	54.023	QKS(0.616)QT(0.987)PT(0.397)RR	3	0.17114	14367.0	17617.5
Strn3	0.994004	1.43E-32	97.152	VRS(0.994)LLGLS(0.004)NS(0.002)	3	0.12931	42833.9	39413.2
Trio	0.779993	3.22E-19	63.297	T(0.016)RPGAVS(0.249)PLNS(0.78)	4	0.61883	11851.3	12636.5
Epb41l2	0.963008	5.92E-30	122.65	EVQT(0.037)S(0.963)ELKAEVASQK	3	-0.81018	143789.4	147765.4
Ahnak	0.995155	1.07E-58	141.69	LPSGSGAAS(0.995)PT(0.003)T(0.00)	3	0.56386	291371.6	343707.3
Ppp1r18	0.99974	5.07E-09	103.44	LAGSGDHS(1)PK	3	1.2368	48811.6	45994.7
Myo9a	0.999931	5.87E-05	84.365	SVIESNRIS(1)R	2	-0.23045	33584.7	32016.8
Sox2	0.710935	3.78E-08	56.553	S(0.002)EAS(0.059)S(0.228)S(0.71)	3	-0.84121	14033.1	14978.4
Atrx	0.999055	0.00413855	54.772	RKPS(0.999)IVT(0.001)K	4	0.34424	22189.8	19041.3
Map6	0.94336	6.61E-59	121.72	GQS(0.943)PT(0.057)APGPPKDQG	4	-0.24699	209828.1	222629.8
Ppig	0.958133	0.000547064	47.68	CDHES(0.002)S(0.035)PGT(0.958)I	3	0.032474	3048.4	3093.4
Foxd2	0.95974	6.48E-54	98.684	AFYPAS(0.04)LS(0.96)PPAAGTAAT	3	0.13534	4508.3	5004.3
Hspb6	0.999955	2.51E-20	100.48	AS(1)APLPGFSTPGR	3	0.13749	21208.2	24027.9
Polr2a	0.706976	1.55E-11	53.123	YT(0.021)PQS(0.707)PT(0.238)Y(0.00)	4	-2.1947	7180.2	5320.1
Sh3pxd2a	0.702886	0.0012791	75.739	RNS(0.18)S(0.703)FS(0.096)T(0.02)	2	-0.085166	7944.6	9953.1
Slc4a4	0.759659	0.0382982	42.466	ERS(0.76)S(0.163)T(0.077)FLER	2	-0.62045	36431.6	34147.0
Ppp1r9b	0.90346	1.12E-16	94.023	AS(0.009)S(0.088)LNENVDHS(0.90)	2	0.42579	13261.4	13706.0
Marcks1	0.964471	2.87E-13	71.501	GAEAS(0.036)AVS(0.964)K	2	-0.69673	11635.9	12221.8
Clasp2	0.779532	2.84E-17	96.153	S(0.78)RS(0.22)DIDVNAAAGAK	3	-0.55747	67614.2	62708.4
Arap1	0.946027	0.0200248	48.115	MGS(0.946)VS(0.054)LIPLR	2	2.7043	5965.1	6293.2
Tbc1d10a	1	0.00680291	41.259	GELECRS(1)PPR	3	-2.4018	17314.1	16362.7
Acap3	0.632994	1.11E-12	74.147	CQRPHS(0.359)S(0.633)PHAPT(0.00)	3	-0.17747	2960.7	3713.4
Farp1	0.998993	2.72E-18	76.332	VCT(0.001)LEPGPRQS(0.999)PALS	4	0.709	187203.0	178928.7
Tbcel	0.56352	0.000128662	45.347	LEPLAEVDLRPQS(0.436)S(0.564)AI	3	-0.66017	8551.0	9032.0
Bin1	0.847848	3.29E-64	114.71	VNHEPEPAS(0.001)GAS(0.03)PGA	3	0.82849	65175.2	66651.8

10709.2	9802.8	10977.1	10784.0	0.0	0.7	230
490076.0	512020.2	570014.7	535300.0	0.0	0.6	576;733
6522.0	6370.6	6804.5	7065.4	0.0	0.6	639
13758.4	14257.7	15443.0	15673.0	0.0	0.6	1719
11252.2	11568.3	11028.4	10930.0	0.0	0.6	142
8212.1	8781.4	8419.2	7677.3	0.0	0.6	550
361988.9	379189.1	382638.6	372350.0	0.0	0.1	591
36888.8	39446.8	39084.6	39520.0	0.0	0.2	712
87247.4	94064.2	96111.7	89027.0	0.0	0.4	727
14318.4	17701.7	15251.7	14634.0	0.0	0.8	786
35501.6	40838.2	46148.3	34031.0	0.0	0.8	200
14204.5	13010.3	14202.3	12554.0	0.0	0.7	2426
157375.4	151915.4	161461.4	148020.0	0.0	0.5	195;195;195
318487.6	313400.5	337392.2	329260.0	0.0	0.6	217
53223.6	50765.3	52736.5	48640.0	0.0	0.6	213
33377.6	34300.0	34603.8	32827.0	0.0	0.3	1220
14617.5	14024.5	16012.6	14807.0	0.0	0.6	253
19955.6	20608.8	21033.0	21249.0	0.0	0.6	81
210724.6	215031.1	250896.2	195170.0	0.0	0.7	681
3153.9	3005.9	3407.2	3141.6	0.0	0.5	746
5233.4	5181.1	5204.4	4771.4	0.0	0.6	371
24363.3	22789.0	24582.0	24169.0	0.0	0.6	16
6906.1	6951.7	6753.4	6242.4	0.0	0.8	1815
8661.9	8892.3	9222.9	9185.0	0.0	0.7	957
36654.6	35807.0	39146.6	35271.0	0.0	0.5	1069
14771.9	14624.0	13710.7	14569.0	0.0	0.5	108
10300.2	12249.2	11384.3	11478.0	0.0	0.6	165
68350.0	67472.6	69562.3	67189.0	0.0	0.4	368;601
6198.3	6602.3	6916.7	5453.4	0.0	0.7	1174
17086.4	16601.7	18843.4	16737.0	0.0	0.6	383
2617.8	3483.8	3022.1	3045.8	0.0	0.8	274
196426.4	185387.2	195433.6	197470.0	0.0	0.5	427
9965.9	9186.3	9979.1	9154.0	0.0	0.6	343
66604.0	63693.2	72560.9	67729.0	0.0	0.5	316

Elovl1	1	4.42E-14	115.91	AVQQNGAAAS(1)MK	2	0.4905	91262.6	89986.5
Mllt4	0.969031	4.83E-10	78.69	T(0.006)QVLS(0.969)PDS(0.024)LF	2	0.36536	15492.9	15351.3
Grb14	0.90045	3.37E-17	68.97	LGNHGS(0.9)PT(0.089)APS(0.008)	4	-0.085633	6653.0	6361.9
Med19	0.999992	1.29E-38	86.32	NRHS(1)PDHPGMGSSQASSSSSLR	3	1.0653	5838.5	6160.6
RGD13071	0.976703	2.34E-09	71.08	SVGQS(0.023)PLRS(0.977)PLKR	4	-0.036612	8776.9	8191.8
Camsap2	0.992589	2.66E-21	70.451	EQQS(0.005)WVIS(0.993)PPQPS(0	3	0.81463	33828.0	35473.1
Tmem176l	1	0.0742357	53.756	EKIPVT(1)P	2	0.52487	37076.8	33047.9
Derl1	0.999999	7.97E-10	65.231	GGVSGFGVPPAS(1)MR	2	0.022968	8787.1	8469.8
Add1	0.871294	9.11E-30	124.25	AAVVT(0.871)S(0.129)PPPTTAPHK	3	-0.13606	32368.1	33290.3
Pdlim4	0.617608	6.48E-16	130.03	S(0.147)S(0.235)IS(0.618)GIS(0.00	2	-0.22944	30073.4	27184.8
Hlcs	0.956577	2.99E-60	99.048	CAS(0.957)AENIPDLPHDCS(0.031)	3	0.55818	8651.0	8377.1
Osbpl3	0.773455	0.00293442	99.864	S(0.001)T(0.002)S(0.1)S(0.1)CS(0.7	2	0.69933	27007.0	25528.5
Crmp1	0.99162	0.000110951	71.153	S(0.992)IPHIT(0.007)S(0.002)DR	3	0.99213	16536.5	16542.6
Lpin1	0.597357	6.02E-22	86.8	EPLPPFENQDVHS(0.597)AS(0.403)	3	0.32939	14743.9	14746.9
Garnl3	0.973374	0.000282692	66.989	S(0.024)FS(0.973)DVLPE(0.003)P	3	-0.23553	48656.6	46986.3
Dgki	0.5	1.84E-41	114.37	T(0.5)S(0.5)MPLLNDIHQVQAADLR	3	-0.39767	24861.4	24478.8
Synpo	0.978104	4.42E-29	79.426	QQPHQMRPS(0.002)LY(0.02)ALS((	5	0.21911	8515.1	7944.3
Piezo1	0.985439	7.79E-43	91.202	GQLQSTDPQEPGPD(0.985)PGGS(	3	-0.79745	6498.4	7064.5
Spag9	0.914708	5.79E-33	97.94	S(0.034)AS(0.915)QS(0.05)S(0.002	4	-0.81514	58724.0	58036.7
Slc25a46	0.693079	8.24E-68	130.56	S(0.45)FGS(0.257)GT(0.291)ELGH\	3	0.0031443	24720.7	25423.2
Ccdc130	1	0.00520285	43.594	KLS(1)QGILIR	3	-0.66472	2228.5	2301.7
Usp39	1	1.08E-86	183.22	EREADEDS(1)EPEREVR	3	3.8282	98452.1	98332.9
Nipbl	1	1.22E-26	114.63	DVPPDILLDS(1)PERK	3	-0.26708	24579.9	24193.6
Snx16	0.851605	3.29E-06	40.208	HTNVQDQMD(0.006)AS(0.039)S(	3	-0.34558	6041.5	7631.8
Mark3	0.999922	2.33E-19	75.3	RYS(1)DHAGPAIPSVVAYPK	4	0.58943	3170.1	3328.8
Fam53b	0.724736	1.49E-12	108.06	S(0.032)LS(0.725)FS(0.243)DEMSS	2	-0.79102	11379.1	12057.3
Itpkb	0.997381	1.23E-20	79.326	EGVAPLLGPAS(0.997)PT(0.003)R	3	-1.1036	42837.5	42984.8
Pard3	0.995387	2.56E-15	86.8	AGS(0.995)PNRDVGPS(0.005)LGLH	3	0.35714	13408.1	13245.2
Pkp4	0.843548	1.54E-12	98.329	VGS(0.156)PLT(0.844)LTDAQTR	3	-1.9206	14612.7	12847.1
Map2k4	0.902492	1.71E-25	72.228	LKIS(0.902)PEQHWDF(0.098)AEC	3	0.89307	24935.3	24844.0
Kcnh5	0.662984	4.53E-05	45.28	S(0.002)PLEHS(0.663)PS(0.335)QA	3	1.6385	12195.1	12988.6
Limch1	0.915174	8.01E-102	156.7	ESGLPEEHS(0.005)S(0.02)LT(0.915	3	0.032992	13143.3	12286.5
RGD13054	0.586458	6.21E-07	88.075	S(0.063)QS(0.35)FS(0.586)HQQPS	3	-0.54879	20081.1	17886.3
Pik3r4	0.705465	8.74E-06	52.527	ANAVDQS(0.705)HLHDS(0.231)S(C	3	0.48581	3492.9	3641.1

87586.0	90216.5	92281.7	93859.0	0.0	0.2	273
15192.4	15989.0	16488.1	14848.0	0.0	0.4	1726
6489.5	6882.9	6534.1	6633.3	0.0	0.2	417
5513.4	5597.5	6603.9	5801.4	0.0	0.7	226
8510.3	8737.9	9514.2	7940.5	0.0	0.6	1305
32862.3	35977.5	35034.4	34014.0	0.0	0.4	903
32236.3	33999.8	37095.8	34134.0	0.0	0.6	262
9725.5	9245.4	9922.5	8570.9	0.0	0.7	226
32784.6	31637.0	34018.1	35548.0	0.0	0.5	11;11
34017.4	30270.9	31606.2	31958.0	0.0	0.7	62;121
9445.4	9271.9	9373.5	8570.5	0.0	0.6	124
27061.1	27233.9	28687.7	25909.0	0.0	0.5	24
14534.5	16113.3	17315.2	15522.0	0.0	0.6	8
13938.3	14017.9	15323.3	15309.0	0.0	0.5	921
45771.1	48779.9	47612.4	49002.0	0.0	0.2	408
26849.2	26355.0	25637.8	26341.0	0.0	0.4	704
7802.9	7856.0	9593.1	7496.2	0.0	0.8	568
7062.0	7041.1	6607.2	7557.3	0.0	0.6	1291
51685.2	53894.7	64588.8	54705.0	0.0	0.7	573;730
23127.2	24635.8	26389.1	24310.0	0.0	0.5	45
2326.9	2465.9	2411.0	2173.4	0.0	0.5	40
92801.6	99693.7	103414.8	94641.0	0.0	0.4	81
27930.9	26280.2	27136.1	25451.0	0.0	0.6	318
6627.0	6843.0	7048.3	6981.5	0.0	0.7	70
2638.8	3413.6	3115.0	2866.9	0.0	0.8	419
12211.4	12527.4	12906.0	11220.0	0.0	0.6	89
44098.5	44712.3	44565.7	44311.0	0.0	0.0	247
11433.2	12204.1	15127.7	11832.0	0.0	0.8	870
14382.2	13964.0	15137.3	13925.0	0.0	0.6	316
24608.1	24430.1	26425.4	25638.0	0.0	0.3	88
13052.5	13901.3	12726.5	12691.0	0.0	0.5	888
15002.9	13073.0	13685.1	14820.0	0.0	0.7	742;756
18522.6	18694.9	20168.5	19227.0	0.0	0.5	519
3787.8	3733.5	3395.8	4101.9	0.0	0.7	808



Tcp1	0.999982	1.43E-08	55.705	DDKHGGYENAVHS(1)GALDD	3	0.081597	61518.4	61420.6
Etl4	1	3.41E-05	95.477	AS(1)LPVVR	2	0.98245	39686.4	37713.0
Dgcr14	1	0.0106449	52.79	ELIPQES(1)PR	2	-0.3397	8398.1	9539.1
Caskin1	0.802842	5.70E-11	61.558	KAPQSLEMMIAIES(0.015)PPPS(0.1	5	-0.23002	15694.5	14461.7
Pxn	0.958137	0.00052781	42.226	RGS(0.958)LCS(0.042)GCQKPITGR	3	-1.158	11727.7	10839.1
Aimp2	0.678957	4.53E-66	148.35	T(0.128)T(0.128)S(0.679)PAT(0.06	3	-1.1678	57493.1	57837.0
Plxnb1	0.905854	1.44E-17	88.385	VQIQLENLES(0.094)S(0.906)VR	3	-1.2322	67930.3	65114.0
Map1b	0.773657	8.84E-15	77.221	QDVDLCLVS(0.226)S(0.774)CEFKH	4	-2.1203	45912.2	45553.8
Wdr47	0.908975	1.62E-12	63.302	S(0.084)LNPALDGLT(0.909)CGLT(C	3	-0.3319	6669.5	6033.4
Pcdh1	0.745231	2.22E-32	92.41	S(0.186)NS(0.745)PLPS(0.074)IQL	4	1.4998	29768.1	29649.6
Hectd1	0.811154	8.49E-20	62.858	LSVSSLLAAGAPMS(0.033)S(0.033)	3	0.68753	8581.7	8227.0
Ankrd34a	0.999999	7.22E-10	125.53	RHS(1)MQTEQIR	3	-0.22266	12801.0	12016.7
Clasp2	0.76752	1.79E-54	99.29	S(0.768)T(0.228)GALY(0.005)APD\	3	-1.3908	18497.3	19137.9
Snrk	0.772162	5.53E-31	72.214	RDS(0.772)S(0.224)EGPPGS(0.004	3	0.10199	18695.3	21698.1
Wwp2	0.999997	1.55E-28	143.93	TATATGEQS(1)PGAR	2	0.56992	12935.8	13114.7
Map2k7	1	0.0226364	48.423	LVDS(1)KAK	3	0.6114	17745.9	17422.3
Fam131b	0.994712	9.52E-09	61.276	DTDAYS(0.005)DLS(0.995)DGEKEA	3	0.37781	21038.9	21503.9
Cmklr1	0.596804	3.07E-16	68.074	LVNALS(0.021)EDT(0.789)GPS(0.0	4	2.5276	27601.0	29493.8
Nes	1	2.39E-12	136.24	TEDQELMS(1)PK	2	-1.1799	71787.4	69446.8
Rtn4	0.913025	2.80E-42	87.739	S(0.087)LGKDS(0.913)EGRNEDASF	4	-0.12921	21037.7	18476.4
Ahnak	0.975855	5.03E-60	165.66	GGVT(0.024)GS(0.976)PEASVSGSk	4	-0.91862	514915.5	517787.7
Map1b	0.793439	8.84E-15	77.221	QDVDLCLVS(0.793)S(0.207)CEFKH	4	0.96868	71197.0	67901.2
Akap12	0.665537	1.27E-133	131.32	EHAADGPQLQSLAQAEASAS(0.004	5	-2.853	11188.4	11947.6
Skiv2l	0.553473	0.00559465	51.286	AS(0.553)S(0.447)LEDLVLK	2	-0.14623	12370.5	11573.5
Akap13	0.536766	2.98E-15	101.3	S(0.007)GS(0.047)LDS(0.408)ELS(C	2	2.929	13082.5	12536.6
LOC10036	0.995873	2.90E-33	95.667	GPIIPAVAS(0.004)LPGS(0.996)PAP	3	0.23006	32146.3	29482.9
Ahnak2	0.865214	1.33E-92	125.79	IET(0.021)HIS(0.865)LGS(0.113)PE	3	-2.5816	71819.6	71201.8
Plekha6	0.999983	4.90E-22	86.8	HHQQS(1)PHNNLTKPEPK	5	0.75325	43049.8	41939.4
RGD15646	0.984796	8.54E-15	60.288	FKT(0.985)QPVT(0.014)FDEIQEVEI	4	0.27452	4283.2	3643.7
Eif4g3	0.973785	3.18E-13	62.735	QEEKPKPDPVFQS(0.974)PS(0.019)	4	1.5404	9129.2	10350.0
Phactr4	0.716754	2.79E-60	163	RPLS(0.717)S(0.217)S(0.067)DEGN	4	0.058503	10382.0	10937.9
Bud13	1	1.24E-08	100.93	HDS(1)DAS(1)PPRR	3	-1.0894	10634.9	10916.3
Kdm5b	0.999941	0.00115129	77.062	ERS(1)YDLVR	2	-0.51728	29892.1	32598.1
FrmD8	0.666794	2.40E-07	97.749	S(0.15)S(0.667)VS(0.233)S(0.951)\	2	-0.44429	32995.5	35679.3



57767.5	61205.1	64233.0	60389.0	0.0	0.4	551
37614.9	37969.5	39992.9	40311.0	0.0	0.3	19
9281.7	8775.6	10001.4	9213.8	0.0	0.6	260
15609.8	15343.3	17508.7	14212.0	0.0	0.7	577
12295.6	10983.8	12450.8	12417.0	0.0	0.6	499
55674.4	59675.0	59320.4	56864.0	0.0	0.2	36
64572.7	65449.8	70433.3	67345.0	0.0	0.4	1521
47729.0	46842.9	47910.5	48394.0	0.0	0.2	2080;1954
6086.3	6508.5	6440.7	6373.8	0.0	0.4	321
31058.8	31452.2	32569.1	29027.0	0.0	0.5	914
8393.6	9016.9	9366.9	7535.0	0.0	0.7	1415
12118.8	12736.4	13176.4	12074.0	0.0	0.4	472
16737.2	16636.9	21235.0	18047.0	0.0	0.8	566;776
19764.0	18920.4	22076.0	20872.0	0.0	0.7	569
12337.1	13261.1	14329.4	11889.0	0.0	0.7	211
14527.0	17703.9	18688.4	14717.0	0.0	0.8	271
18340.6	19816.9	23149.0	19650.0	0.0	0.7	145
28512.2	28025.9	31077.2	28940.0	0.0	0.5	348
80014.2	74061.4	74976.1	78508.0	0.0	0.6	620
21271.5	20247.0	20936.9	21333.0	0.0	0.6	417
567081.6	557074.6	553375.9	534900.0	0.0	0.5	5419
73818.0	72474.1	72014.8	74493.0	0.0	0.3	2079;1953
13697.7	12589.0	13159.3	12135.0	0.0	0.7	1637
13014.2	12587.9	12965.9	12458.0	0.0	0.5	249
12811.9	12964.1	13801.5	12761.0	0.0	0.4	2674;1345
31816.8	29680.2	34209.4	32221.0	0.0	0.6	384
74889.0	72660.0	77567.5	73897.0	0.0	0.3	5630;7001
38010.9	43875.2	38790.7	43844.0	0.0	0.6	324
3861.7	4197.0	4251.9	3676.3	0.0	0.7	175
9066.2	9226.0	10087.1	10048.0	0.0	0.6	268
11440.6	11255.9	11627.9	10813.0	0.0	0.5	174
10513.1	11021.6	11086.1	10873.0	0.0	0.1	237
30884.2	27404.4	33551.1	35089.0	0.0	0.7	1450
35400.4	33799.6	37654.7	35599.0	0.0	0.5	21

Sptb	0.5	7.37E-23	62.853	T(0.5)S(0.5)PGEERGPWPQDLQPPF	5	-0.052554	10341.5	10104.0
Sptb	0.5	7.37E-23	62.853	T(0.5)S(0.5)PGEERGPWPQDLQPPF	5	-0.052554	10341.5	10104.0
Palm	0.867524	0.042316	47.053	SLEES(0.868)IT(0.132)R	2	0.28425	18720.3	22676.5
Prkag2	0.996993	0.00785642	60.342	RMS(0.997)FS(0.003)GIFR	3	-0.89983	6315.1	5241.3
Pard3	0.999996	0.000163794	89.533	EMNNYS(1)PGR	2	-0.39683	33402.2	35000.4
Tacc2	0.776939	0.00151465	45.433	FNS(0.095)PS(0.128)EELDY(0.777)	2	1.3008	8346.0	8314.3
Nup133	0.728773	3.71E-27	83.436	GLS(0.729)LGS(0.271)AVSSPVLFSF	3	-0.5217	9730.5	10677.1
Ptpdc1	0.97338	4.99E-36	161.21	QLSYS(0.973)DS(0.026)DLKR	2	-0.49315	86303.5	75657.5
Cdk17	0.499998	4.92E-08	60.307	LQIS(0.5)S(0.5)PPFDQPMSR	3	0.34282	8287.6	7483.4
Cobll1	0.734264	1.45E-30	87.457	T(0.025)GS(0.129)LQLS(0.203)GS(	3	-0.43897	25574.6	27526.0
Mkrn2	0.883144	0.000347166	73.857	KQLS(0.883)S(0.079)EGT(0.038)VF	2	-0.033181	8108.7	6937.5
Mapkbp1	0.968019	0.00219367	56.258	NLLRS(0.968)PS(0.032)IK	3	-0.48429	3472.8	2962.9
Vdac3	0.776718	6.33E-11	61.039	VNNASLIGLGY(0.002)T(0.221)QS(	4	0.71246	5187.0	5195.6
Itsn1	0.985494	1.85E-38	84.741	AQS(0.985)FDVAS(0.015)APAAAEI	3	-0.23097	47842.0	48861.0
Vcl	0.958866	0.00179754	94.692	AAS(0.041)DELS(0.959)K	2	-0.52053	25571.0	26418.1
Clasp1	0.931885	0.0562827	53.317	VVS(0.932)QS(0.068)QR	2	1.4445	6775.3	6774.1
Safb2	0.99997	9.30E-14	121.66	APTAAPS(1)PEPR	2	-3.4473	107208.8	119848.9
Phactr2	0.989845	1.78E-31	76.161	AGPQLLT(0.006)PGQMGDS(0.99)I	3	-0.27412	29533.1	32410.5
Sdpr	0.904087	0.000928369	54.871	AS(0.053)S(0.904)GKS(0.815)S(0.2	3	-0.093487	31145.6	28065.7
Rftn2	0.999957	0.000811066	53.034	HDS(1)EGNLATK	3	0.55377	10609.4	11491.3
Tle4	0.83622	2.74E-21	141.82	S(0.026)S(0.026)S(0.836)VS(0.11)F	2	-0.62661	9835.1	10242.2
Apc	0.677874	1.02E-53	150.85	T(0.157)GS(0.678)S(0.157)S(0.008	3	-0.78128	36048.7	36374.8
Fmr1	0.940511	0.00217312	49.149	VGS(0.032)NS(0.941)S(0.027)EEKk	3	-0.051151	18426.9	17387.2
Ube2o	0.77981	1.13E-69	117.62	NMTVEQLLT(0.174)GS(0.78)PT(0.(	3	-1.1715	13754.0	13827.7
Myo18a	0.999992	2.18E-73	144.63	SLAPDLS(1)DDEHDPVDSISRPR	4	-0.7892	321498.7	334197.0
Pmm1	0.781273	2.77E-11	67.418	TVGHS(0.218)VVS(0.781)PQDT(0.(	3	-0.4569	9195.4	9491.6
Mgll	0.60477	0.0278233	53.124	MPEAS(0.395)S(0.605)PR	2	0.41236	7465.6	7707.7
Csrp1	0.782657	8.12E-16	74.141	GYGYQGAGT(0.783)LS(0.217)MI	3	0.23895	20373.4	22124.8
Dennd5a	0.997445	3.05E-21	119.92	RKS(0.997)DAS(0.003)AVMSPLR	3	-0.70289	54380.2	53837.7
Ckap4	1	6.18E-16	110.84	VGAHGS(1)EEAVVFR	3	0.065195	20297.0	22763.2
Slk	0.982404	0.000145998	48.467	VLS(0.018)EKPT(0.982)PEGPEK	3	-1.1268	11860.4	12567.4
Akap12	0.751871	8.09E-11	52.198	LSADYEKVELPLEDQVGDLEAS(0.24	5	1.9385	10797.8	9618.2
Usp24	0.943935	0.000418006	41.284	LQQGS(0.056)ES(0.944)PMMIGEL	3	0.24911	11444.1	11755.6
Cenpa	0.76141	5.42E-36	96.591	RPS(0.238)S(0.761)PAPGPS(0.001	4	0.065598	26048.1	27218.8

10378.9	10121.4	11777.5	9807.9	0.0	0.7	2114
10378.9	10121.4	11777.5	9807.9	0.0	0.7	2113
21718.7	20226.1	20531.9	24165.0	0.0	0.7	87
5448.8	5876.6	5911.7	5704.3	0.0	0.7	122
32727.1	35048.0	34008.5	34973.0	0.0	0.3	378;378
8595.4	8586.1	9094.6	8300.2	0.0	0.4	2405
9659.9	10581.9	10830.7	9518.4	0.0	0.6	37
86186.0	80278.4	81111.1	93891.0	0.0	0.7	471
8533.1	8079.9	8983.8	7939.4	0.0	0.6	164
28466.4	27726.7	28919.6	27267.0	0.0	0.5	385
7566.2	7243.3	7991.3	8028.4	0.0	0.6	366
2726.4	3092.8	3140.2	3192.9	0.0	0.7	19
4964.4	5066.7	5461.6	5260.4	0.0	0.3	250;251
47485.2	47189.4	48936.4	52214.0	0.0	0.4	203
25862.3	24842.6	28163.0	27088.0	0.0	0.5	791
6187.4	6589.3	7452.4	6263.5	0.0	0.7	670;670
102755.0	116661.7	106113.1	116540.0	0.0	0.6	388;367
30723.4	30738.4	33659.1	30940.0	0.0	0.5	361
31618.8	28982.8	31626.5	32840.0	0.0	0.6	283
9839.1	10468.4	11760.4	10632.0	0.0	0.6	380
9984.3	10151.9	10724.9	10052.0	0.0	0.3	181
35663.4	38192.8	37835.3	35178.0	0.0	0.3	2468
16329.5	17939.2	17563.2	18146.0	0.0	0.5	349
14876.2	13461.3	15324.4	14898.0	0.0	0.6	796
334510.5	333991.8	346561.2	338260.0	0.0	0.2	2020
9180.3	10544.8	9745.0	8382.8	0.0	0.7	242
7310.5	7898.9	7284.0	7950.9	0.0	0.4	6
24924.3	21516.3	24361.9	23495.0	0.0	0.7	79
52972.3	56229.9	57417.2	52207.0	0.0	0.4	851
20275.0	23212.4	20415.4	21540.0	0.0	0.6	497
12836.4	13459.1	12878.2	12005.0	0.0	0.5	310
10182.6	9865.0	11164.1	10455.0	0.0	0.6	371
11827.1	11774.0	12799.1	11468.0	0.0	0.5	2600
27797.8	26120.7	31423.5	25870.0	0.0	0.7	16

Hdlbp	0.999789	0.000537915	76.302	ETDPGS(1)PRR	3	-0.6427	80486.8	83525.7
Kif13b	0.999966	3.78E-26	108.14	GVDRLS(1)FHSPSAQQR	3	0.95977	80366.3	79549.4
LOC10255	0.792835	0.00255602	101.66	TIT(0.002)S(0.793)S(0.204)YYR	2	0.35023	34086.8	36821.2
Add2	0.918682	2.29E-48	119.86	AGT(0.059)KS(0.94)PAVS(0.919)PS	5	0.28264	483237.9	494138.2
Atp8b2	0.861312	0.00235156	81.099	KT(0.017)S(0.861)LT(0.015)S(0.10	3	1.2199	71507.1	57601.2
Epn2	0.913569	1.48E-45	105.5	AGGS(0.004)PAS(0.069)Y(0.914)H	3	-0.43122	20276.7	21220.9
Ap3b2	0.995642	1.86E-39	84.327	AFYGSEEDEAKGPGS(0.996)EEAATI	4	1.1408	4991.8	5137.3
Ap1m1	0.67746	1.13E-25	78.758	LET(0.105)GAPRPPAT(0.887)VT(0.	3	-0.085312	18330.3	17065.8
Gtf2i	0.999967	0.0123157	75.189	S(1)PGSNSK	2	0.36897	28966.6	25340.9
Acin1	1	7.05E-07	111.26	TAQVPS(1)PPR	2	-0.56355	148393.2	158262.9
Fzr1	0.94755	4.07E-07	73.833	INENEKS(0.948)PS(0.052)QNR	3	-2.7413	21347.8	19768.6
Cic	0.985877	2.91E-05	78.964	RT(0.004)QS(0.986)LS(0.01)ALPK	3	0.012737	25241.9	26895.3
Lin7b	0.933303	7.43E-05	52.334	QQHHS(0.933)Y(0.034)S(0.028)S(C	3	-1.0222	8797.2	8843.1
Rnf8	0.564488	2.39E-30	85.913	KFS(0.089)S(0.564)DGVES(0.346)L	3	0.19669	19909.4	20197.5
Srsf4	0.695771	0.00738519	56.328	LIVENLS(0.304)S(0.696)R	2	-1.5208	4448.0	5613.1
LOC10036	0.993968	9.93E-17	131.08	S(0.994)ADWT(0.006)EELGAR	2	0.68327	68044.7	67856.2
Clasp1	0.766565	1.19E-54	132.67	RQS(0.767)S(0.233)GSTTNVASTSS	3	0.47727	8705.0	8482.7
Hist1h1a	0.513657	0.0354095	41.502	T(0.043)S(0.014)S(0.514)KS(0.429	3	-1.6553	28854.5	28377.2
Map4k4	0.622071	1.34E-17	56.108	LVPRPGSGSSSGSSNSGSPGS(0.00	4	0.027325	3397.7	3667.9
Efr3b	0.723382	1.09E-11	62.589	LCLPY(0.059)IPQLT(0.723)DEDRLS	3	-0.53531	15871.0	15750.6
Hepacam	1	7.71E-73	179.46	QNS(1)LEYMDQNDRLK	3	-1.5379	60313.8	63538.8
Abca2	0.66697	1.47E-57	89.275	RPAEPGTSQEPGMAS(0.273)S(0.66	3	-0.32812	13563.2	14653.7
Zc3h13	1	0.00209973	83.499	EVS(1)PEVVR	2	-0.31968	20100.2	20326.9
Rpl4	1	0.0019698	65.179	ILKS(1)PEIQR	2	1.3643	12588.7	13674.1
Vti1b	0.999447	1.76E-45	164.88	ALLLQGT(0.001)ES(0.999)LNR	2	-0.46479	80831.5	81643.4
Top1	0.825297	0.000737193	59.709	EKENGFS(0.825)S(0.175)PPR	2	-0.25688	10056.7	9905.8
Sash1	0.793765	0.0322097	51.286	S(0.794)LT(0.206)EGEMK	2	-0.64364	16018.9	14355.3
Map2	0.918296	4.49E-14	112.02	T(0.082)PGT(0.918)PGTPSYPR	3	0.71089	30854.6	31855.5
Tmem63b	0.828131	8.60E-10	80.632	LTS(0.002)VS(0.023)S(0.146)S(0.8	3	0.4923	9002.9	8050.0
Exoc3l2	0.5	8.42E-05	63.727	RS(0.5)S(0.5)ADFLLNR	3	-0.33086	4414.9	5028.1
Dync1li2	0.548266	1.68E-22	88.781	T(0.006)GS(0.022)PGS(0.424)PS(0	3	-1.2728	35894.9	34114.1
Nfx1	0.83563	6.24E-22	81.51	EHS(0.836)PS(0.158)ES(0.006)EK	2	-0.51073	19117.5	21172.7
Dopey2	1	3.06E-21	117.48	AALLAAFQPES(1)PR	2	1.3259	32021.1	29984.2
Srsf11	0.957362	1.70E-10	63.691	LNHVAAGLVS(0.957)PS(0.043)LK	3	0.47235	15296.1	15122.1

71632.3	80762.3	89467.9	72246.0	0.0	0.7	944
72681.0	77206.2	82263.1	79880.0	0.0	0.5	732
35653.8	38197.2	36504.9	34955.0	0.0	0.4	75;78
448235.6	510788.3	487162.7	469070.0	0.0	0.5	618
64835.6	67812.5	65383.9	66383.0	0.0	0.7	513
20027.0	20352.6	22114.5	20846.0	0.0	0.4	196
5131.7	5091.7	5421.1	5191.6	0.0	0.2	325
16379.5	17781.9	18455.5	17045.0	0.0	0.5	158
27795.7	27802.6	30411.5	26279.0	0.0	0.6	589
137924.4	148945.5	166259.6	142320.0	0.0	0.7	898;992;991
18248.0	19153.6	20319.2	21621.0	0.0	0.6	70
24477.2	25424.5	27343.4	26079.0	0.0	0.5	1079
7767.4	8209.5	8623.2	9315.4	0.0	0.6	199
19849.2	20838.7	20669.7	20196.0	0.0	0.1	158
5252.2	5516.7	5018.9	5224.5	0.0	0.7	113;117;119
70283.4	71097.0	69096.4	72008.0	0.0	0.2	466
8512.3	9224.8	8829.1	8396.2	0.0	0.4	646;646
26868.4	30357.8	26128.3	30070.0	0.0	0.6	164
3702.3	3997.1	3687.9	3397.3	0.0	0.6	717;747;748
14950.8	15786.6	16487.0	15659.0	0.0	0.3	683
60948.6	66004.2	64161.4	60037.0	0.0	0.4	270
13773.3	14499.7	14274.9	14443.0	0.0	0.3	1169
20313.4	20330.6	21076.9	21109.0	0.0	0.1	198
11635.5	12756.2	13490.6	12761.0	0.0	0.6	295
79218.9	83460.5	86346.4	78965.0	0.0	0.4	138
10479.3	9977.7	10470.7	10885.0	0.0	0.4	113
14788.9	13883.7	16230.6	16372.0	0.0	0.7	384
32448.2	32641.3	34780.1	30525.0	0.0	0.5	1703;1617
7645.5	8994.2	7992.1	8436.1	0.0	0.7	102
4859.7	4451.6	5048.6	5221.7	0.0	0.7	99
32363.0	37235.8	33795.9	34341.0	0.0	0.5	448
21111.9	22345.7	19331.8	21525.0	0.0	0.6	147
30076.1	31764.6	32445.1	30572.0	0.0	0.4	1172
14219.4	15539.1	15000.6	15408.0	0.0	0.3	200

Rab11fip2	0.744211	0.00218919	86.18	T(0.022)LS(0.055)FDT(0.744)S(0.1	2	0.59	58159.8	55061.8
Eif4b	0.999851	4.67E-17	107.69	VAPAQPS(1)EEGPSR	2	1.3195	17213.9	16147.7
Hdac7	0.576479	5.94E-22	80.102	T(0.576)RS(0.423)EPLPPSATASPLL	4	0.75692	8509.9	9566.1
Tcp11l1	0.947944	3.44E-09	123.28	VKS(0.013)DS(0.948)PS(0.039)PLR	2	-0.34811	15882.9	17311.5
Rnf180	0.987035	4.64E-14	113.54	S(0.013)HS(0.987)LDLNISEK	3	-0.31277	38277.9	40182.2
Glrx5	0.999992	4.59E-05	58.079	SALIDEKDQDS(1)K	3	0.12736	12758.1	12748.3
Cdr2l	0.888859	7.62E-05	97.813	RT(0.889)IHT(0.111)FPCLK	3	-2.7971	71990.1	62942.1
Rbm15	0.74576	4.04E-05	53.3	S(0.019)DGNT(0.746)PS(0.154)AS(	3	-0.049923	8022.9	8034.7
Rrbp1	1	2.44E-06	127.87	VEGS(1)PNQAKK	4	0.48453	193619.6	195733.5
Gas2l1	0.996494	0.00082842	63.662	LTSGLT(0.003)AS(0.996)PR	2	0.88802	11283.1	10480.1
Myo9b	0.875126	0.00238724	52.966	RIS(0.875)FS(0.055)T(0.055)S(0.01	2	-1.1442	13086.1	9921.8
Itga6	0.999045	9.69E-15	111.64	AEIHT(0.001)QPS(0.999)DKER	3	0.19153	27038.0	32930.5
Fbxo42	1	0.000429799	115.57	RGS(1)LPDQK	2	-0.29967	97476.5	93288.2
Kars	0.617712	7.89E-19	71.98	ETATATET(0.001)PES(0.135)T(0.13	3	-0.34944	20082.3	20970.8
Flna	1	9.83E-41	127.01	APSVANVGS(1)HCDLSLK	3	1.3665	175705.5	177667.3
Rasal2	0.862831	5.73E-14	62.193	QQTQQVQS(0.011)PVDS(0.016)A1	3	1.8953	6810.4	7290.6
Ahnak	0.99978	3.66E-38	81.526	LQGS(1)GVS(0.987)LAS(0.013)KK	3	0.048796	63668.8	65041.6
Fchsd2	0.753119	1.95E-11	57.673	S(0.753)PS(0.244)ANENCLHAES(0.	3	-0.39018	9365.6	9598.1
Arhgef11	0.717022	1.50E-06	68.283	S(0.717)LENPT(0.283)PPFTPK	3	-0.60158	6247.0	5928.5
Pex5l	0.997697	4.80E-07	64.537	AGS(0.998)KELLWS(0.002)SEHR	3	-1.7155	25740.4	24498.5
Ina	0.998895	2.62E-27	84.166	VGES(0.999)FEET(0.001)LEETVVST	3	0.55676	22244.7	21844.0
Oprl1	1	0.000947164	61.363	EMQVS(1)DRVR	3	1.2475	8640.4	8529.7
Ncor2	0.881829	3.02E-23	62.853	SLGYHS(0.006)GAGY(0.132)S(0.88	4	1.2357	10547.0	10499.4
Pkm	0.900939	1.67E-10	50.029	AAT(0.007)ES(0.071)FAS(0.901)DF	4	0.21181	7091.6	6290.9
Dock11	0.995745	0.00766932	55.04	KS(0.004)QT(0.996)MPALR	3	-0.47444	9066.6	9289.9
Nrbp1	0.559999	9.20E-09	73.296	T(0.44)PT(0.56)PEPAEVETR	3	0.7201	17095.9	18847.2
Depdc5	0.955585	9.61E-43	121.42	SQASDDS(0.044)S(0.956)LGK	2	0.27798	32852.4	31426.6
LOC68703	0.94662	9.35E-22	77.731	S(0.054)VS(0.947)REPS(1)PILRPNL	3	1.7863	11274.2	10629.9
LOC68570	0.986127	1.07E-23	86.539	GQLT(0.001)NIVS(0.986)PT(0.013)	3	-0.049423	15334.3	15485.1
Samd14	0.865786	2.14E-10	49.559	S(0.076)PLHS(0.866)GPGS(0.058)F	3	0.73033	6564.3	6391.7
Limch1	0.999946	4.37E-09	123.11	RRS(1)ASQDLIK	3	0.29164	309488.4	303121.4
Aak1	0.499954	2.07E-09	71.354	VQT(0.5)T(0.5)PPPTIQGQK	4	-1.1184	5166.0	4874.3
Tmx4	0.989406	4.82E-05	58.079	EGS(0.011)VS(0.989)PKDEEAR	2	0.61995	30402.6	37804.1
LOC10091	0.999725	2.55E-15	88.768	AFLS(1)PPTLLEGPLR	3	-0.93519	20202.8	18804.4

61238.2	58839.0	67166.4	53575.0	0.0	0.7	280
14378.0	15981.3	16446.4	16714.0	0.0	0.6	518
8172.6	9222.5	8654.9	9142.2	0.0	0.6	379
14056.5	14895.7	18451.2	15293.0	0.0	0.8	44
37507.3	40882.2	39136.9	39358.0	0.0	0.3	230
11806.9	12402.0	13116.5	12892.0	0.0	0.4	151
67662.3	74602.6	66493.2	67458.0	0.0	0.6	103
8502.2	8991.7	7948.3	8342.5	0.0	0.5	754
192018.8	196606.8	204944.5	196930.0	0.0	0.1	635
11744.1	11588.1	12218.9	10687.0	0.0	0.6	394
11096.8	11733.3	12239.2	11137.0	0.0	0.7	1327
25594.0	28716.6	28360.7	31006.0	0.0	0.7	1064
93768.3	97324.4	98922.2	96671.0	0.0	0.1	488
19480.8	21157.7	20602.4	20558.0	0.0	0.3	596
196437.1	185497.2	169818.2	210700.0	0.0	0.7	2150
7334.5	6721.5	7567.2	7778.8	0.0	0.6	950
69749.0	65960.2	67344.9	71005.0	0.0	0.5	5532
9401.2	10098.3	9503.2	9600.1	0.0	0.2	705
6150.3	6582.3	5831.6	6452.6	0.0	0.5	705;694
24145.0	24620.4	27135.0	24823.0	0.0	0.5	181
20597.6	21880.4	23000.4	21715.0	0.0	0.4	475
7928.9	8957.1	8755.2	8128.3	0.0	0.5	265
11603.5	11103.0	10973.9	11538.0	0.0	0.5	2005
6768.7	7223.0	6524.7	6999.1	0.0	0.6	100;204
8647.2	9178.4	9704.9	8918.9	0.0	0.4	1352
15848.3	17920.5	18636.1	16767.0	0.0	0.6	433
30983.2	34275.8	31492.9	32312.0	0.0	0.4	412
11549.2	11822.4	11658.9	10962.0	0.0	0.4	450
16479.6	16141.9	16411.2	16146.0	0.0	0.3	1275
6629.3	6529.7	6748.0	6888.3	0.0	0.2	88
311972.0	311618.6	334368.0	306030.0	0.0	0.4	218;209
5467.8	5224.5	5634.2	5109.6	0.0	0.5	606
32776.1	34105.4	33336.3	36540.0	0.0	0.7	306
19592.6	19394.5	21834.5	19112.0	0.0	0.6	531



Tpm1	0.995578	1.27E-05	51.566	T(0.002)VT(0.002)NNLKS(0.996)LE	4	1.7877	5831.2	5111.2
Phactr2	0.967611	2.40E-59	139.44	ASIANSDGPPAGS(0.032)QT(0.968)	4	1.4373	105794.2	108232.6
Eepd1	0.890988	1.40E-42	105.24	DLLAEQQPHELLAT(0.024)T(0.085)\	3	0.6961	23110.6	23531.0
Plekhg3	0.999852	0.00302993	76.605	YRCS(1)PER	3	0.41198	5899.2	5998.4
Eno1	0.996092	0.00925084	47.774	Y(0.002)IT(0.996)PDQLADLY(0.002	3	1.1417	3942.0	3687.1
Zfp423	0.804034	1.17E-21	77.42	LAGSSAAS(0.196)S(0.804)PNGQGI	3	-0.10808	4988.3	5191.8
Dedd	0.644936	0.000110254	69.672	RKS(0.355)VT(0.645)PDPK	4	0.28185	8535.9	9019.7
LOC100901	0.775946	9.57E-12	102.97	S(0.005)ES(0.19)ET(0.776)S(0.023	2	-0.87411	23333.6	23513.5
Fryl	0.802094	0.000811262	94.66	T(0.802)RS(0.198)LSSLR	3	-0.022414	8317.3	8974.8
Eif4ebp1	0.863249	2.25E-26	61.965	T(0.863)PPKDLPT(0.121)IPGVT(0.0	5	-1.141	6861.7	7217.2
Cep170	0.965312	1.28E-12	67.88	AEEDS(0.04)KS(0.965)IQS(0.995)D	3	0.21669	10161.2	10501.8
LOC100911	0.788198	1.25E-27	81.477	DVLNPVPPVPS(0.201)S(0.788)PT(0	4	-0.20125	17099.4	16517.3
Tcf7l2	0.84604	0.00390126	56.139	S(0.145)PS(0.846)PAHIVS(0.009)N	3	0.24152	5720.3	5251.2
Ssfa2	0.999931	1.83E-20	117.3	S(1)QS(0.98)LPT(0.009)T(0.009)LL	2	1.0984	150981.3	146109.1
Bsg	1	1.98E-26	81.807	RKPDQT(1)LDEDDPGAAPLK	3	-0.11069	47525.9	43924.9
Ablim1	0.983585	9.88E-27	115.26	S(0.078)T(0.126)S(0.78)QGS(0.031	2	0.67776	16546.0	16895.8
Nes	0.656	9.58E-23	76.294	ES(0.028)QDS(0.312)GKS(0.656)LE	4	0.54974	9201.5	9660.2
Zfand5	0.927844	3.48E-22	74.214	MS(0.928)PMGT(0.026)AS(0.008)C	3	-1.3579	21625.7	23914.9
Agap1	0.737398	0.000296971	57.794	T(0.243)RS(0.737)T(0.02)GQLELGF	3	0.97923	5473.8	6225.6
Srgap1	0.772874	1.89E-95	162.75	NSPTPATST(0.001)ES(0.226)LS(0.7	3	1.6007	30682.9	29544.3
Rasip1	0.999813	1.22E-05	112.7	RWPS(1)AASVK	3	-0.051537	12875.0	10637.7
Tex2	1	0.000519008	69.815	SGLLPAHS(1)R	2	1.0942	24590.7	26881.0
Nfix	0.999396	5.87E-10	55.988	MAFT(0.001)HHPLPVLAVRPGS(0	5	0.0040053	3336.8	3745.5
Ehmt1	0.638463	0.00615834	69.721	ES(0.004)MS(0.638)ET(0.358)DR	2	-1.717	9412.0	9755.1
Fam63b	0.946396	2.61E-25	111.3	VT(0.054)AS(0.946)PELAEAAAGR	3	-1.2277	14550.7	14308.2
Aak1	0.967295	1.08E-12	120.49	VGS(0.02)LT(0.571)PPS(0.443)S(0.	2	-0.99971	330527.3	331202.5
LOC67934	0.99983	3.88E-33	98.76	GHLVPLLYVSQGGGPAS(1)PR	3	2.4784	2247.1	2021.6
Bnip3	0.829918	3.67E-54	133.51	S(0.006)S(0.006)HCDS(0.988)PPRS	3	0.38761	6198.8	6025.8
Zc3hav1	0.750176	3.01E-07	76.01	LPQSPLS(0.01)S(0.205)S(0.75)S(0.1	3	0.60373	2564.3	2556.8
Eml1	0.965961	7.54E-21	108.77	KPSAS(0.02)LPS(0.966)PS(0.013)G	2	0.1041	98171.8	99703.0
Wwc3	0.941588	6.74E-26	75.661	RVS(0.942)ACLS(0.055)DYS(0.004)	4	0.35691	4383.1	4175.6
Epb41l3	0.999752	3.14E-28	106.92	SLDGAS(1)VNENHEIYMK	4	1.5267	220848.5	224505.6
Etl4	0.890179	1.20E-42	86.449	AAPTSSSS(0.002)S(0.014)S(0.039)	3	-0.64983	12263.1	13787.1
Dock5	0.714424	6.21E-84	133.76	T(0.025)LS(0.119)S(0.714)PS(0.14	3	0.14963	8013.4	6742.0

4632.2	5328.6	5469.3	5239.4	0.0	0.7	170
107752.4	110293.0	113308.3	107740.0	0.0	0.1	36
24625.2	24212.3	25045.8	24127.0	0.0	0.3	134
6096.2	6021.5	6506.1	6001.2	0.0	0.4	226
3823.1	4034.8	4190.7	3567.9	0.0	0.6	272
5198.3	5321.9	5064.8	5449.7	0.0	0.3	1081
8098.6	8649.9	8828.6	8940.2	0.0	0.4	184
22275.5	23676.6	24312.7	23194.0	0.0	0.2	149
8069.0	8690.6	9199.0	8228.1	0.0	0.6	1991
8235.2	7870.7	7021.5	8087.9	0.0	0.7	69
9038.4	9869.1	10868.1	9850.7	0.0	0.6	355
15240.3	17098.9	17334.5	15883.0	0.0	0.5	581
5585.0	5708.8	5818.0	5524.2	0.0	0.4	179
146068.9	150188.5	152538.2	153670.0	0.0	0.1	738
43877.1	48430.1	43710.7	47232.0	0.0	0.5	241
18534.4	18575.0	17312.0	17643.0	0.0	0.5	485;386
10354.5	9108.4	10208.9	10773.0	0.0	0.6	1049
22590.6	22955.1	23675.8	23539.0	0.0	0.4	48
5141.3	6101.3	5940.6	5303.1	0.0	0.7	333
31191.9	31772.3	33090.6	29295.0	0.0	0.5	947
10740.1	11880.7	11666.4	11732.0	0.0	0.7	41
26012.4	25746.8	28551.0	25508.0	0.0	0.5	729
3020.5	3467.4	3473.8	3464.5	0.0	0.7	361
9973.7	10521.7	9547.9	9945.2	0.0	0.4	381
15945.1	15084.8	15248.5	15816.0	0.0	0.5	97
340696.1	339920.5	347747.4	344870.0	0.0	0.1	625
1833.2	2001.8	2186.6	2097.0	0.0	0.7	107
5326.9	6447.2	6112.0	5520.5	0.0	0.7	66
2314.3	2304.3	2704.7	2650.2	0.0	0.6	535
97179.5	100625.4	104890.6	98422.0	0.0	0.2	82
4809.5	4675.6	4681.6	4413.6	0.0	0.6	598
230431.1	237107.3	232964.4	226070.0	0.0	0.2	451;451;451
13150.5	13051.0	13366.6	13964.0	0.0	0.5	1746
7346.7	6860.1	7874.3	8033.5	0.0	0.7	1802

Apc	0.593377	8.97E-08	67.648	AVEFS(0.197)S(0.593)GAKS(0.197)	4	-0.31431	11112.7	10902.8
Stt3b	0.999784	5.25E-58	105.55	ENPPVEDS(1)S(1)DEDDRRSPGNLY	4	-0.38037	188693.8	207909.2
Zfand5	0.887317	0.0253261	55.314	EDKIT(0.113)S(0.887)PK	2	0.034751	14405.2	14236.9
Fxyd7	0.885441	8.94E-09	73.927	SELPS(0.114)S(0.885)APGGGGV	2	-0.22502	55438.1	52365.6
Cacna1c	0.976851	3.23E-05	51.726	EAVS(0.023)AAS(0.977)EDDIFRR	3	-0.50212	13796.9	13420.8
Wnk4	0.966161	4.57E-53	117.29	EPAEPPLQPAS(0.966)PT(0.031)LS(	2	1.614	45300.4	44961.4
Pitpnc1	0.931946	1.91E-57	100.23	S(0.932)APS(0.515)S(0.473)APS(0.	3	-0.17418	85715.5	83795.5
Ablim2	0.669499	1.86E-27	82.294	T(0.167)S(0.184)S(0.456)PS(0.359	3	-1.1362	10002.8	10747.8
Acsbg1	0.800327	6.03E-48	118.36	T(0.014)LS(0.103)KES(0.083)PS(0.1	3	1.4637	32093.8	33140.0
Flywch1	0.967155	5.90E-15	83.462	S(0.033)HCHS(0.967)PDMEGLQAR	3	-1.6783	14549.5	14841.3
Prkab2	0.82835	7.48E-48	118.52	IMVGS(0.17)T(0.828)DDPS(0.001)	3	-0.42041	111300.8	116448.5
Cpeb3	0.685254	2.18E-20	115.68	S(0.044)PAS(0.27)PS(0.685)QAPY/	2	0.13898	8326.1	8267.8
Rapgef6	0.991571	0.000924855	105.52	RS(0.008)S(0.992)LLNAK	2	0.83723	16853.8	16504.2
Tanc1	0.971259	1.55E-12	70.197	GVS(0.025)MS(0.971)LPS(0.003)S(	3	-0.16664	4677.6	4737.4
Ptdss1	0.99661	4.13E-49	122.22	GS(0.002)EDS(0.997)PPKHS(0.001	4	0.41698	15628.9	17977.3
Sh3pxd2a	0.677609	2.10E-05	51.76	STQNEGKS(0.322)DS(0.678)LEK	4	0.86085	14263.3	14503.4
Vcp	0.999344	0.00476421	48.998	ES(0.001)IES(0.999)EIRR	3	1.1119	3412.0	3776.6
Ctnnd1	0.99589	1.18E-94	180.52	SQSS(0.004)HS(0.996)YDDSTLPLID	3	0.38521	44316.4	43126.3
Gas7	0.733727	1.30E-59	95.541	YYVNTTTNET(0.01)T(0.01)WECPS(	3	2.3981	8482.2	7443.1
Snapin	0.995178	6.12E-17	97.273	AMLDS(0.004)GVY(0.995)PPGS(0.1	3	1.1741	54293.2	52855.9
Rtn4	0.996261	3.55E-30	120.4	GS(0.996)PKGES(0.004)AILVENTK	4	-0.98843	14955.0	14885.1
Srp72	0.646263	2.73E-105	142.79	T(0.031)VS(0.128)S(0.546)PPT(0.6	4	-0.21477	66284.4	68155.7
Tjp2	0.878958	1.89E-06	53.037	HSSHDMLS(0.118)HS(0.879)WEDS	4	0.16971	10982.4	11027.3
Spag9	0.99607	2.92E-65	153.36	SAS(0.005)QS(0.996)S(0.998)LDKL	3	-0.21264	469557.9	457040.5
Pcyt1a	0.811495	1.11E-45	167.19	T(0.811)S(0.187)PS(0.001)SSPASL	2	-0.26116	18548.6	19702.8
Map1b	0.987127	5.91E-21	106.57	T(0.006)T(0.006)RT(0.987)PEVSGY	3	-0.3438	96947.0	97751.6
Nfx1	0.816113	2.01E-22	89.859	EHS(0.03)PS(0.816)ES(0.154)EKEV	3	0.64224	40391.3	38281.2
LOC69180	0.97509	0.0230624	70.908	RGS(0.975)S(0.025)AAR	2	1.9122	4062.3	3764.5
Fam104a	0.999797	0.000881428	40.432	RNGS(1)DDDNHPPPQTK	3	0.57808	2054.3	1893.5
Sorbs1	0.915936	1.04E-06	51.798	SAQDLS(0.021)S(0.063)VS(0.916)M	3	-0.40948	2003.2	1283.7
Snx16	0.788745	3.69E-58	116.92	HTNVQDQMDS(0.789)AS(0.135)S(	3	-0.93991	32210.7	33611.7
Prpf38b	0.99958	0.000763214	99.568	KREHS(1)PSR	3	-0.41839	56522.3	63080.3
Synpo	0.627706	2.86E-20	74.444	S(0.372)PPS(0.628)YSTLYPSSDPKP	4	0.71681	15096.9	14547.3
Chchd3	0.700311	9.86E-05	62.162	ESSPS(0.01)GS(0.289)KS(0.7)QR	3	-0.38128	5677.4	6241.7

10006.1	12334.9	11110.7	9540.8	0.0	0.7	1252
182777.7	199972.7	200851.6	196020.0	0.0	0.5	496
15033.8	14589.9	14751.6	15651.0	0.0	0.3	114
49861.4	52729.9	57524.0	52164.0	0.0	0.5	73;70
13491.1	14317.1	14585.9	13034.0	0.0	0.5	1709
46760.1	45995.9	48749.4	46419.0	0.0	0.2	746
81220.5	86725.2	87773.1	83822.0	0.0	0.2	270
10363.2	10778.0	11505.0	9772.6	0.0	0.6	373;403
33585.2	31386.3	35950.2	34474.0	0.0	0.5	55
12708.6	14683.4	14906.5	13784.0	0.0	0.6	290
112490.1	113328.8	122626.9	114590.0	0.0	0.4	39
8982.4	9006.8	8636.4	8707.9	0.0	0.4	262
18351.2	17917.2	17495.8	17863.0	0.0	0.4	1094
4254.6	4585.8	4862.7	4635.3	0.0	0.5	60
16363.5	16545.6	18401.0	16538.0	0.0	0.6	442
14518.5	14143.3	14856.3	15598.0	0.0	0.4	865
3899.7	3741.4	3897.9	3785.3	0.0	0.5	705
46095.8	45728.6	45841.6	46019.0	0.0	0.2	858
8302.0	8591.6	8516.0	7854.9	0.0	0.6	53
46371.5	52173.3	53019.7	52988.0	0.0	0.6	75
14780.4	15678.8	15246.3	15050.0	0.0	0.1	295
66623.2	69452.6	72429.5	65287.0	0.0	0.4	561
10041.5	11224.0	10521.4	11280.0	0.0	0.5	147;174
417094.8	438190.9	490539.6	455810.0	0.0	0.6	575;732
17308.9	19022.7	18722.6	19504.0	0.0	0.5	342
97316.8	100454.9	103703.3	96736.0	0.0	0.2	1959;1833
41358.1	40968.0	42900.7	39813.0	0.0	0.4	149
4196.3	3720.1	4753.0	3915.7	0.0	0.7	19
2156.3	1744.0	1927.3	2618.5	0.0	0.8	81
1215.9	1737.1	1453.5	1449.4	0.0	0.9	589;398;640;377
34652.0	31958.2	36239.9	35337.0	0.0	0.5	63
49506.9	56268.4	63645.2	54353.0	0.0	0.7	413
16330.5	15201.4	16263.7	15912.0	0.0	0.5	333
5183.4	5826.3	6281.9	5516.0	0.0	0.7	46

Ssfa2	0.589334	8.75E-32	74.369	QSAVTDPDFGHDGGS(0.037)MS(0	4	0.40351	5854.7	6204.6
LOC68999	0.946371	3.85E-39	116.04	RGS(0.946)S(0.052)DAAT(0.001)EI	2	-1.6586	39123.5	39979.3
Map1b	0.530049	5.52E-79	124.97	ESTAAY(0.001)QT(0.13)S(0.53)S(0	4	-0.30354	9538.7	9374.3
Fmnl3	0.999719	0.00133915	48.608	LQSFLDPNVT(1)R	2	0.59448	17014.8	16236.5
Tnks1bp1	0.747427	1.83E-32	93.583	TAETPAECQECS(0.253)KT(0.747)	4	0.77079	5690.3	6016.7
Kcnh7	0.515321	1.62E-14	80.102	SLLGS(0.093)T(0.515)S(0.391)DSI	3	0.018808	13453.4	12646.3
Itsn1	0.793294	3.09E-32	109.5	S(0.026)T(0.032)S(0.793)JDT(0.14	2	0.52437	62007.4	66791.1
Ldlr	1	0.00709706	48.568	QMVS(1)LEDDVA	2	0.10309	22775.4	23615.5
Sept6	0.593013	1.56E-10	60.334	AAAELLQS(0.406)QGS(0.593)QAG	3	-0.41891	5531.6	6763.8
Ptbp1	0.716281	4.53E-07	79.804	ELKT(0.046)DS(0.238)S(0.716)PNC	3	-0.84493	124384.5	127823.5
Hecw2	0.972149	1.73E-15	128.63	S(0.028)NS(0.972)IQQMEQLNR	2	-1.4491	22016.9	17535.3
Pum2	0.989093	2.54E-08	113.86	QAS(0.989)PT(0.011)EVVER	2	-0.12697	30343.0	31617.5
Map1a	1	0.00299683	78.342	AKPAS(1)PARR	2	0.31274	153700.6	156683.3
Dennd4a	0.892279	0.0187141	41.502	KS(0.108)PT(0.892)LVK	3	-0.12709	2773.8	3352.6
Pdlim1	0.947383	2.98E-31	73.758	VITNQYNS(0.947)PT(0.032)GLY(0.1	5	0.56425	21217.8	19502.0
Dennd4c	0.689372	0.00213066	111.46	S(0.003)S(0.004)S(0.045)YT(0.259	2	0.058087	19484.8	16517.3
Tpd52	0.998065	3.03E-13	101.42	SIQHS(0.002)IS(0.998)MPAMR	2	-2.2855	71977.0	67179.5
Arhgef10	0.990794	1.78E-05	69.045	S(0.991)VDS(0.003)S(0.006)LCDLL	2	-1.1818	10823.9	9389.0
Mprlp	0.780311	2.72E-21	77.24	MDIDRS(0.22)PGLLGT(0.78)PDLK	4	0.15836	9247.3	9420.3
Larp1	0.996885	3.23E-18	83.229	AVT(0.997)PVPT(0.003)KTEEVSNL	4	1.6998	43783.3	48667.9
Zfp536	0.607386	2.02E-22	62.401	NKS(0.173)PT(0.607)EPEVS(0.216)	4	0.70697	7015.3	6200.6
Arhgef2	0.99301	0.027325	40.475	ADS(0.993)DS(0.003)S(0.003)QKD	2	1.0837	1305.1	1312.5
Tcf20	1	6.76E-08	87.667	EEAAS(1)PGAK	2	0.32674	56036.9	56624.9
Sh3kbp1	0.648681	6.51E-20	57.959	RPPSQSLTSS(0.001)S(0.002)LS(0.0	6	-0.5274	10288.5	10745.2
Synm	0.626634	2.35E-88	144.57	VIS(0.01)GS(0.363)PPDS(0.627)VC	3	-0.72862	59484.9	61519.4
LOC100911	0.535065	0.00117423	41.242	VS(0.087)GGFPEDS(0.378)S(0.535	3	1.3781	13192.2	14740.3
Shc4	0.999994	3.26E-32	112.62	VDLFDPCY(1)VNTQNMR	3	-0.74847	11339.3	10889.3
Tyk2	0.5	0.0234561	42.336	AVPEGHEY(0.5)Y(0.5)R	3	0.84797	11218.6	10327.8
Tyk2	0.5	0.0234561	42.336	AVPEGHEY(0.5)Y(0.5)R	3	0.84797	11218.6	10327.8
Map1b	0.988753	6.53E-10	80.411	KS(0.989)PS(0.011)EAR	2	-0.75109	261244.5	285450.1
Ahnak2	0.999973	6.35E-235	220.26	IETHISLGS(1)PEEGTGVRPLERPTYA	4	0.021445	125970.8	117962.2
Lmna	0.839998	0.000391582	51.726	EAALS(0.84)T(0.16)ALSEK	3	2.5575	3393.4	3185.3
Dock7	0.666313	7.84E-13	61.488	S(0.576)RS(0.509)LS(0.666)NS(0.2	3	0.38062	11017.1	12457.7
Gprin1	0.98122	1.38E-17	74.776	GDPQS(0.002)LEKAS(0.981)PT(0.0	3	0.97797	19767.5	21261.5

6745.1	6702.2	6574.3	6101.7	0.0	0.6	423
37888.5	38396.3	41161.0	41004.0	0.0	0.3	526
10411.8	9496.3	10195.5	10528.0	0.0	0.5	1810;1684
15269.1	16733.7	17263.9	16004.0	0.0	0.5	95
6917.4	6647.4	5951.5	6594.1	0.0	0.7	233
12719.3	13025.7	13631.6	13347.0	0.0	0.3	318
64437.5	75194.3	61715.3	62230.0	0.0	0.7	975
24464.4	24856.9	24451.6	23712.0	0.0	0.3	873
6296.9	6382.1	5892.8	6885.8	0.0	0.7	353
103013.7	111832.9	141809.0	112440.0	0.0	0.8	140
21032.0	19664.0	21388.9	21384.0	0.0	0.7	858
30319.9	31963.7	31605.1	31535.0	0.0	0.1	181
138403.5	164455.0	152014.6	146050.0	0.0	0.6	2828
3606.8	3218.9	3603.3	3208.9	0.0	0.7	1243
21239.6	20831.0	22724.7	20300.0	0.0	0.5	144
17552.8	18524.4	18511.0	18159.0	0.0	0.6	1146
64757.9	69339.3	70547.6	70271.0	0.0	0.4	186
10670.9	10099.6	11032.7	10698.0	0.0	0.6	1275
7794.0	8981.8	9599.8	8691.3	0.0	0.7	723;746
43258.5	47235.6	47795.1	44840.0	0.0	0.5	395
6785.7	7089.9	6592.6	6932.5	0.0	0.5	407
1428.4	1390.7	1245.9	1533.5	0.0	0.7	911
55648.8	57382.7	55944.6	60147.0	0.0	0.2	616
10574.2	11214.1	11054.1	10310.0	0.0	0.4	459
56846.6	60491.2	64167.8	58653.0	0.0	0.4	1373
11714.3	13154.4	16756.3	10954.0	0.0	0.8	131
10145.2	10883.7	11376.8	11108.0	0.0	0.4	460
11387.4	10971.5	11012.4	11962.0	0.0	0.5	1053
11387.4	10971.5	11012.4	11962.0	0.0	0.5	1054
258026.6	282865.6	295661.7	250950.0	0.0	0.6	2065;1939
132058.2	125010.4	134681.2	127870.0	0.0	0.5	5633;7004
3696.8	3464.7	3535.5	3591.6	0.0	0.5	149
12760.8	12005.0	12305.4	13041.0	0.0	0.6	898
21817.7	21322.7	23277.2	20182.0	0.0	0.6	455



Prickle2	0.999603	1.39E-10	90.334	QRS(1)FQESMGQGSR	3	-0.74491	9751.3	10894.2
Caskin2	0.999982	2.69E-08	95.183	S(0.716)PS(0.285)QES(1)IGAR	2	-0.35868	34107.1	32705.6
Rap1gap2	0.808418	4.13E-24	98.443	S(0.002)ET(0.032)S(0.155)S(0.808	3	-0.77506	66513.3	66865.7
Reps1	0.910243	1.05E-57	102.66	SHS(0.001)GAS(0.089)PDNT(0.91)	3	0.43503	7770.9	7126.8
Stx16	1	0.00127915	45.084	S(1)IAAELDELADDR	2	-0.12354	2893.4	2891.9
Hmgcs1	0.791756	7.89E-130	152.52	RPS(0.792)T(0.204)NDHS(0.004)LI	6	1.6664	26911.6	25151.2
Coq9	0.998608	5.33E-79	151.45	YT(0.001)DQS(0.999)GEEEDYESE	3	-0.39695	14424.3	12538.8
Efnb1	0.943902	4.61E-28	141	AAALSLS(0.056)T(0.944)LASPK	2	-1.6994	12056.8	12391.8
Cdk16	0.999327	5.84E-15	87.411	LT(0.001)LNS(0.999)PIFDKPLSR	3	-0.68657	11353.7	10360.4
Aimp1	0.933342	5.86E-35	100.28	S(0.005)AS(0.023)VT(0.933)T(0.03	3	-1.5684	90209.5	71918.1
Usp4	0.778042	8.19E-07	50.752	LS(0.044)S(0.178)S(0.778)QQDLGI	3	-0.32867	23315.7	23424.6
Cpeb1	0.676678	2.63E-07	47.499	MDQEQAALAAVAPS(0.677)PT(0.2	3	0.017264	14253.7	13731.2
Ckm	0.971257	4.65E-58	119.52	RGT(0.971)GGVDT(0.029)AAVGAV	3	1.1812	31851.7	31683.3
Trim36	0.995079	2.42E-15	79.16	RNS(0.995)LT(0.005)PR	2	-0.3617	40398.4	42376.0
Psmf1	0.965619	4.57E-33	136.66	LS(0.034)S(0.966)PPREFPPATAR	2	-0.46208	68118.7	73985.8
Kif1a	0.917942	0.000627326	71.085	NLFGS(0.918)GS(0.082)LR	2	-0.078581	9007.0	11074.5
Ktn1	0.98583	5.37E-13	63.869	AHQLS(0.986)VT(0.011)S(0.003)Q	3	0.77753	8370.0	8790.3
Sh3pxd2a	0.908807	7.20E-31	88.872	GSS(0.001)GDS(0.049)DS(0.909)P	2	-0.30553	54709.4	52147.3
Gps1	0.999999	4.86E-30	122.29	EGSQGELT(1)PANSQSR	3	0.83419	7385.5	6837.9
Ktn1	1	0.0355624	40.268	EALKKS(1)NK	2	2.9763	10611.4	10049.2
Kank1	0.985955	1.49E-42	146.68	S(0.012)YS(0.986)AGNAS(0.002)Q	3	-0.56703	89886.3	87074.2
Dnm1	0.91552	3.52E-12	103.77	S(0.057)PT(0.061)S(0.902)S(0.916	3	-0.55134	26885.4	26193.2
Foxo4	1	0.0344365	50.353	S(1)PLGHFAK	2	1.3298	16968.3	17740.4
Cd2ap	1	1.37E-08	109.15	S(1)VLDLALVAR	2	-1.0377	56455.5	59536.1
Rap1gap2	0.798611	2.31E-21	69.704	CDS(0.001)AS(0.008)S(0.023)T(0.0	3	0.22641	17989.2	16500.9
Uhrf1bp1l	0.609679	1.15E-13	68.639	S(0.015)MS(0.376)VDLS(0.61)HAP	3	0.99141	11661.4	10699.5
Specc1l	0.994032	0.00888508	74.165	RS(0.006)S(0.994)EEMK	2	0.6489	14679.5	14392.6
Ank2	0.755128	2.94E-17	96.562	ETIKVET(0.755)PT(0.238)DIHS(0.0	3	-0.057089	47935.0	44700.4
Ccdc136	0.963965	7.54E-42	155.37	GLS(0.964)LT(0.035)ET(0.001)ELE	3	1.19	25969.4	24508.4
Cic	0.980825	2.98E-26	79.293	AAIASIPVGS(0.981)FES(0.011)GT((	3	-0.59968	6201.1	5533.7
L1cam	0.730071	1.61E-06	41.247	EKEAAGGNDS(0.73)S(0.255)GAT(C	3	2.4886	4188.7	4420.0
Clasp2	0.807469	4.33E-15	83.53	ASLLHS(0.807)VPLHS(0.11)S(0.082	4	0.87935	2328.5	2721.0
Zfp609	1	8.19E-18	72.09	NCPS(1)PVLIDCPHPNCNKK	4	0.88466	49434.2	49125.3
Pik3r4	0.553083	9.67E-08	56.424	ANAVDQS(0.006)HLHDS(0.553)S(C	4	0.21828	3931.8	4280.5



9245.4	10642.9	10665.6	9502.9	0.0	0.6	734
33685.3	34224.1	35840.2	33530.0	0.0	0.3	699
67705.9	68484.6	66327.5	72474.0	0.0	0.3	588
6893.9	6956.4	7475.9	8031.6	0.0	0.6	544;239
3302.9	3158.5	3058.9	3151.5	0.0	0.5	41
25220.3	25729.2	26612.4	27328.0	0.0	0.3	471
14267.3	14103.7	13529.0	14871.0	0.0	0.6	80
13854.2	13473.4	13859.2	12154.0	0.0	0.6	283
10985.0	11480.3	11144.9	11085.0	0.0	0.3	138
76227.3	77075.3	86584.7	82071.0	0.0	0.7	112
25526.9	22607.5	24749.8	27147.0	0.0	0.6	899
14088.4	14495.3	14641.5	14239.0	0.0	0.1	245
28959.3	32322.3	32201.4	30834.0	0.0	0.4	322
37844.8	40855.8	43059.9	40440.0	0.0	0.5	93
70026.8	69299.7	78268.5	71138.0	0.0	0.5	153
9455.2	10963.4	9443.7	10045.0	0.0	0.7	1318
7475.1	8607.4	8492.4	8299.8	0.0	0.6	859
57823.9	55614.0	58172.7	56004.0	0.0	0.4	592
7040.7	6795.1	7981.1	7147.9	0.0	0.6	474
10228.8	11341.7	9710.3	10796.0	0.0	0.6	324
85614.2	91521.0	90770.6	88433.0	0.0	0.2	354
23276.3	26947.9	26546.2	25231.0	0.0	0.6	778
17375.0	17954.6	17558.9	18187.0	0.0	0.1	230
58913.0	58417.8	61889.4	60031.0	0.0	0.3	458
18973.0	17375.0	18926.8	18823.0	0.0	0.6	572
10041.4	11137.1	10781.5	11491.0	0.0	0.5	938
14415.3	13900.2	15821.3	15118.0	0.0	0.5	949
54878.0	50644.3	48176.6	53284.0	0.0	0.7	2264
23017.6	25527.9	25565.2	24690.0	0.0	0.4	164
5787.5	5562.1	6308.6	6197.2	0.0	0.6	2092
4162.6	4106.5	4651.2	4411.5	0.0	0.5	1240;1236
2283.4	2577.0	2907.2	2077.1	0.0	0.8	1024;1226
49686.8	48673.2	56162.6	48029.0	0.0	0.6	491
4664.4	3823.2	5044.3	4410.3	0.0	0.8	813

Plekha4	0.995395	2.00E-70	183.7	T(0.002)S(0.002)ES(0.995)PEVAPL	3	-0.59017	130741.5	132704.8
Stim1	0.985111	7.06E-07	45.916	AMAEEDNGS(0.985)IGEET(0.011)I	3	-0.52113	6334.8	5955.5
Raf1	0.886288	1.16E-29	81.807	DAVFDGS(0.002)S(0.038)CIS(0.886	3	0.37455	4940.1	4444.9
Clk4	0.999786	8.75E-27	81.696	S(1)IEDDEEGHLCQSGDVLR	3	-0.11603	8422.2	8184.2
Sash1	0.974619	1.76E-17	94.639	S(0.025)HS(0.975)LDDLQGDADVG	3	1.8536	45642.7	50461.4
Usf1	0.973958	0.00517934	85.676	T(0.025)HPY(0.001)S(0.974)PK	2	-0.33697	43025.9	45843.4
Kif1a	0.628431	1.25E-07	45.941	T(0.168)PQPCS(0.628)RPAS(0.204	4	-2.2482	7939.1	9092.2
Erc2	0.927932	4.70E-13	101.3	RT(0.054)S(0.928)S(0.018)GGGGG	3	0.059795	21911.9	23884.2
Arhgap17	0.560586	7.75E-07	41.551	RCS(0.561)S(0.201)S(0.237)LPPIQ,	4	2.4575	28023.2	33318.8
Scn11a	0.753198	1.18E-15	87.388	SSLNS(0.05)LQAS(0.753)S(0.12)FS	4	0.32331	19790.1	18803.3
Plcl1	0.748367	1.80E-06	63.694	KKT(0.935)VS(0.108)FS(0.194)S(0.	3	-1.381	28285.6	29358.9
Clip4	0.558336	2.75E-27	148.96	SFS(0.06)T(0.123)T(0.258)S(0.558	2	0.23887	18995.8	20254.5
Plekho1	0.94557	0.00907336	64.654	KLPS(0.946)T(0.054)EK	3	-0.35248	35070.7	33136.7
Ppp4r4	0.986209	3.44E-07	89.624	S(0.014)QS(0.986)FNNQAFHAK	2	-0.20619	13234.0	11864.2
Kcnb2	1	5.77E-15	124.45	S(1)MELIDVAVEK	2	-0.093207	82329.5	81309.9
Arhgef11	0.83103	8.79E-17	98.227	LS(0.16)S(0.831)LS(0.009)SLGDSTF	3	0.40384	20755.0	19050.1
Rps6kc1	0.988514	1.95E-52	124.2	SFPASLTADS(0.007)AS(0.989)PS(0	3	0.58821	17318.9	16987.9
Pja2	0.834694	2.43E-15	80.96	ANHHGS(0.835)S(0.165)PEQVVRP	4	0.50736	11996.0	11137.0
Myo9a	0.544199	0.0548769	40.941	S(0.544)LGGMS(0.348)PS(0.107)E	2	-1.5158	9521.9	9294.7
Fbxw8	0.560592	5.19E-12	60.95	S(0.561)RS(0.439)PPDRDAAEPEPL	3	-0.35201	14246.6	14825.9
Cd44	0.994213	4.30E-12	98.227	LVINS(0.994)GNGT(0.006)VEDR	2	-1.5807	24144.6	25133.6
Stac	0.675358	8.43E-12	62.916	YYS(0.324)S(0.675)PLLIHEQFGCIK	3	-0.0075194	20066.8	19564.6
Bcl9l	0.927596	0.00935153	58.172	S(0.004)VS(0.069)VDS(0.928)GEQ	2	-0.81613	4498.3	4793.7
Hivep2	0.626339	1.93E-19	62.706	KPPGNVISVIQHT(0.067)NS(0.626)	4	0.85719	6812.9	5960.1
Hivep2	0.688905	1.93E-19	62.706	KPPGNVISVIQHT(0.067)NS(0.626)	4	0.85719	6812.9	5960.1
Hivep2	0.61757	1.93E-19	62.706	KPPGNVISVIQHT(0.067)NS(0.626)	4	0.85719	6812.9	5960.1
Abi2	0.749817	3.36E-27	80.171	TLEPVRPPVVPNDYVPS(0.75)PT(0.1	3	-0.82784	12990.7	11871.9
Cc2d1a	0.836096	0.000271819	43.592	AS(0.147)PS(0.836)RAPPS(0.017)C	3	-0.42483	19185.4	18738.6
Pacsin3	0.999861	9.99E-06	51.566	ALYDYAGQEADELS(1)FR	3	0.084222	2736.2	2846.8
Klhl11	0.946242	0.0152111	41.164	RVPS(0.946)S(0.054)QIEC	2	3.5443	9028.9	9471.4
Champ1	1	1.27E-05	79.885	RPGPPLS(1)PEIR	2	-0.11022	9102.1	11164.4
Dner	0.999999	1.75E-29	117.48	SIDSEFSNAIAS(1)IR	3	0.84971	11906.4	11656.9
Tdrd7	0.903511	5.70E-08	53.958	DVFLSAVS(0.004)AAAS(0.092)S(0.	3	-0.83672	3577.2	3606.0
Satb1	0.997459	6.48E-28	102.98	QPTVAS(0.001)S(0.001)AES(0.997	4	0.18767	24643.1	25708.4

138946.4	136164.0	141937.3	136830.0	0.0	0.2	194;194
5734.1	6441.4	6101.2	6043.5	0.0	0.4	660
5732.0	5002.1	5118.3	5468.1	0.0	0.7	29
9254.0	9267.8	9003.6	8396.6	0.0	0.6	102
53314.1	49471.8	47484.1	57130.0	0.0	0.7	835
41176.1	44222.8	44065.5	45820.0	0.0	0.4	127
8961.0	9096.3	9891.9	7816.7	0.0	0.7	1536
21020.3	22807.7	23904.5	22194.0	0.0	0.5	33
32509.9	33841.4	31357.2	31589.0	0.0	0.6	710
17485.7	20164.5	19105.2	18564.0	0.0	0.5	446
29862.1	28471.4	29832.3	31941.0	0.0	0.5	99
18565.2	20080.9	19477.1	20067.0	0.0	0.3	584
34094.1	35732.2	36437.6	33334.0	0.0	0.4	262
11887.8	13075.2	11874.8	13194.0	0.0	0.6	736
74798.6	81076.9	86168.0	78660.0	0.0	0.5	461
19654.4	20733.1	20287.1	20302.0	0.0	0.3	14
17670.9	18219.7	17756.6	17630.0	0.0	0.1	378
11291.6	12078.7	11871.6	11553.0	0.0	0.3	305
9530.8	9726.4	10005.5	9503.9	0.0	0.1	1295
14597.3	14834.1	15433.4	14771.0	0.0	0.2	82
22715.2	24124.3	25742.6	24383.0	0.0	0.4	308
18898.5	20310.8	20438.9	19615.0	0.0	0.2	174
4020.8	4450.0	4253.8	5026.4	0.0	0.7	121
6437.5	5987.1	6317.6	7508.2	0.0	0.7	804
6437.5	5987.1	6317.6	7508.2	0.0	0.7	806
6437.5	5987.1	6317.6	7508.2	0.0	0.7	810
12015.5	12444.9	13280.0	12310.0	0.0	0.5	140
17070.5	19115.1	21353.6	16253.0	0.0	0.7	414
2724.8	2788.8	2875.6	2904.4	0.0	0.2	383
9027.4	9291.7	9958.2	9143.0	0.0	0.4	704
10186.0	11522.1	9963.3	9924.4	0.0	0.7	416
9611.3	11345.0	11260.3	11613.0	0.0	0.7	330
3516.3	3573.4	3813.9	3649.1	0.0	0.2	847
23678.7	25397.0	25184.7	25780.0	0.0	0.3	638

Trim28	0.999925	2.30E-55	132.72	VS(1)LERLDLDTSDSQPPVFK	3	0.11706	64163.8	53657.8
Myo1f	1	0.0191676	50.805	RRNS(1)INR	3	-0.11604	21335.8	22739.0
Pja2	0.830679	2.47E-17	92.439	VIS(0.831)S(0.163)S(0.006)QVDQE	3	0.0088227	29781.2	27698.2
Kcnb1	0.584268	1.84E-37	107.56	S(0.058)S(0.058)S(0.3)S(0.584)PQ	3	0.49328	8024.2	8448.5
Arhgap15	1	0.0117592	42.718	NHS(1)QHVLK	3	-1.1971	23485.1	21800.1
Esyt2	0.753853	5.26E-17	97.235	S(0.028)S(0.034)S(0.134)S(0.669)I	2	1.5843	50209.4	49014.5
Tns1	0.977238	3.42E-61	160.67	S(0.023)QS(0.977)FPDVEPQLPQAF	3	0.0063423	81560.2	79491.2
Plekha6	0.903432	0.00199198	83.883	MVENS(0.097)S(0.903)PR	2	-0.78171	23330.0	24433.8
Setd5	0.642525	0.000844696	73.632	GATVYS(0.643)PS(0.357)R	2	-0.98374	7873.0	7575.6
Tcf7l1	0.881859	0.000245752	43.592	QEPAPPS(0.112)LS(0.882)PAVS(0.1	3	1.007	16984.9	17940.0
LOC10255	1	4.06E-15	86.548	GLPLAHAAS(1)LPEER	2	1.2441	13143.3	13619.3
Uprt	0.99984	1.66E-15	128.71	QVNSTSSPS(1)PER	2	0.7131	19724.5	18397.5
Ppp2r5e	0.868624	1.62E-05	94.801	S(0.03)QS(0.05)S(0.05)S(0.869)QF	2	-0.094461	30446.7	29942.5
Ank3	0.959333	1.65E-06	75.589	SSITMT(0.04)PPAS(0.959)PK	2	-0.34942	9927.7	9550.4
Dnm1	0.822996	3.77E-06	55.097	KT(0.177)S(0.823)GNQDEILVIR	3	0.38194	7890.1	8018.3
Fam65b	0.87999	6.89E-12	99.044	S(0.014)QS(0.106)FAGFS(0.88)GLC	2	0.16314	23909.6	22661.2
Clip1	0.764266	3.54E-21	80.142	T(0.001)AS(0.022)ES(0.764)IS(0.21	3	-0.77568	20181.3	20470.6
Dlgap3	0.979687	2.39E-05	71.176	S(0.02)HS(0.98)LEAPGKR	4	0.069486	34102.3	35260.3
Dmtn	0.858022	6.59E-16	106.35	QPLT(0.138)S(0.858)PGS(0.004)VS	2	0.39187	15337.9	16107.1
Ccny	1	1.38E-33	113.42	NAHS(1)RLES(1)YRPDSDLR	4	0.0044196	95673.2	104484.4
Zrsr1	0.842756	3.99E-21	105.66	EEGS(0.157)S(0.843)PGPQSQSHR	3	0.68959	5538.2	5004.3
Osbp15	0.995706	1.62E-39	117.84	ETMSGQTAFLGS(0.996)PES(0.004)	2	-0.50374	34148.8	35655.2
Rrbp1	0.560529	0.00413157	60.255	S(0.561)EGS(0.439)PNQGK	2	-0.027776	6004.5	6301.0
Camk1d	0.835455	2.38E-60	99.987	GDVMS(0.162)T(0.835)ACGT(0.00	5	-0.10166	111303.2	110503.2
Rnf19a	0.97355	3.07E-15	79.326	HHS(0.974)GS(0.026)S(0.001)SVD	3	-0.41421	2471.8	2558.8
Plekha6	0.953113	5.28E-33	98.015	S(0.953)LQLPAS(0.047)PAPEPSTRF	3	-0.46448	45095.2	39721.5
Syn2	0.905153	4.38E-71	96.158	T(0.054)PALS(0.905)PQRPLT(0.038	5	-0.64602	42040.8	41468.9
Gas2l3	0.839963	0.000105541	67.846	GVS(0.159)NES(0.84)VPDS(0.001)	2	0.75609	5546.7	4789.3
Fam53b	0.723203	0.000818538	80.24	CYS(0.277)GGS(0.723)VQR	2	0.53437	8978.8	9357.6
Prkra	0.997515	0.000936902	81.296	LES(0.002)FMET(0.998)GK	2	1.1914	34515.0	30499.7
Usp5	1	3.85E-54	99.29	GTGLQPGEELPDIAPPLVT(1)PDEP	3	0.17486	238679.0	248341.5
Phf2	0.980306	9.25E-52	111.15	T(0.019)AKNS(0.98)VDLEDY(0.001	4	-0.45788	57595.7	55254.9
Ahnak2	0.8353	1.53E-12	53.545	ES(0.012)FS(0.116)PEEEEEAKS(0.8	3	0.4047	7459.7	6967.2
Ccser2	0.807107	8.55E-74	157.25	S(0.042)QS(0.15)FS(0.807)HS(0.0C	3	0.46642	79013.8	71354.3

53915.6	59963.2	60798.4	56390.0	0.0	0.7	490
19197.6	21515.2	24400.3	19352.0	0.0	0.7	734
30722.4	29167.6	30772.7	31044.0	0.0	0.4	320
7737.5	7853.6	8666.5	8454.2	0.0	0.5	516
19919.5	24332.2	21851.6	21079.0	0.0	0.7	72
50712.1	52014.9	52771.8	49883.0	0.0	0.2	675
82597.1	84373.5	84002.9	82967.0	0.0	0.1	794
20592.3	23530.3	22725.8	24259.0	0.0	0.6	703;19
7631.0	7640.3	8077.8	8090.9	0.0	0.2	1249
16433.8	16638.0	18745.1	17599.0	0.0	0.5	324
13834.0	14149.9	14811.4	12919.0	0.0	0.5	724
19922.6	19549.6	21491.5	18839.0	0.0	0.5	25
28713.4	30937.5	30130.4	30854.0	0.0	0.2	34
10226.8	9952.4	10183.6	10509.0	0.0	0.3	1645
6854.7	8110.8	7189.3	8183.6	0.0	0.6	512
25047.8	23846.0	24953.9	25088.0	0.0	0.4	128
20927.7	20980.6	21037.3	21513.0	0.0	0.1	194
34541.2	37593.3	36211.0	33393.0	0.0	0.4	93
15588.5	15365.3	16569.3	16590.0	0.0	0.3	11
101318.8	97427.8	110508.5	103100.0	0.0	0.5	21
5554.3	5889.0	5794.2	4924.4	0.0	0.7	418
34989.5	35104.1	36953.7	36061.0	0.0	0.2	746
6085.5	6182.4	5959.9	6832.5	0.0	0.5	612
103853.7	109437.2	119901.8	106660.0	0.0	0.5	180
2101.3	2428.1	2452.9	2477.4	0.0	0.6	631
44053.8	44480.2	45289.1	43193.0	0.0	0.5	1096;412
37029.3	39530.4	43658.4	41182.0	0.0	0.6	426
5509.5	5054.0	5494.1	5801.2	0.0	0.6	305
8843.9	8662.1	10243.0	9139.5	0.0	0.6	122
33464.9	33153.9	33654.8	34803.0	0.0	0.5	171
248178.7	249206.9	244997.3	264390.0	0.0	0.3	623
58671.4	59897.2	57987.8	59095.0	0.0	0.2	731
7786.6	7291.6	7423.7	8205.4	0.0	0.6	6108;7479
69173.0	75849.9	85666.8	65014.0	0.0	0.7	224

Plekha5	0.999172	4.49E-30	83.435	LYKS(0.999)EPELT(0.001)TVAEVD	4	-0.77844	19889.1	20480.5
Usp8	0.524663	1.05E-16	56.688	YYHSPTNTVHMY(0.028)PPEMAPSI	5	-0.16251	3992.9	3889.7
Agap3	0.977641	3.22E-07	86.43	ATPSTAPGT(0.022)S(0.978)PR	2	0.53143	39644.7	36737.9
Mapt	0.811973	9.24E-08	135.63	IGS(0.188)T(0.812)ENLK	2	-0.16179	166915.5	169615.9
Fam65a	0.95889	5.16E-13	98.817	S(0.041)QS(0.959)FAGVLGSQER	3	0.92195	39399.0	37340.1
Limch1	0.958396	1.84E-25	73.809	MPETDQLHLPNLNS(0.958)QADS(C	3	-0.62885	14246.6	13374.7
Prkar2a	1	0.003229	42.314	MFGS(1)NLDLLDPGQ	2	-0.14728	3456.6	3724.6
Ank2	0.963543	3.18E-05	62.705	HS(0.011)PVS(0.964)PS(0.025)AK	3	0.081704	47164.5	46613.4
Kif1a	0.999674	3.94E-09	50.029	PAS(1)PEPELLPELDSK	3	-1.2591	10105.5	10427.7
Brsk1	0.598835	1.34E-21	82.765	FQVDIS(0.03)S(0.599)S(0.108)EGP	3	-0.11699	16399.3	16081.9
Hic1	1	2.70E-33	93.804	GGDPAAS(1)PGGPPLGLVPPPR	3	0.89769	18914.7	20690.0
Zfp652	0.943343	4.83E-10	85.469	ES(0.02)GS(0.943)PYS(0.036)VLAD	3	-0.42951	24161.3	23443.3
Tnks1bp1	0.998415	3.78E-05	50.226	FS(0.002)EGVLRPPS(0.998)QDQEK	3	2.8857	16016.5	16843.1
Glg1	0.809674	1.60E-12	69.979	QVS(0.81)S(0.19)ECQGEMLDYR	3	0.5102	9188.6	10584.1
Raph1	0.998651	1.32E-15	90.561	SYTSLMPPLS(0.999)PQT(0.001)K	4	0.36484	36645.1	34369.6
Vbp1	0.996695	0.00170945	51.765	KGS(0.997)PHAMET(0.003)R	3	-0.48169	16760.7	15899.8
Kif21a	0.614133	8.93E-67	126.8	IGS(0.132)MS(0.614)DES(0.254)DI	3	0.0042488	16851.4	16051.2
Pde7b	1	0.00347383	76.221	RLLS(1)FQR	3	-1.108	2047.2	2427.7
Rtfdc1	0.998462	1.43E-09	93.243	LGIS(0.998)QDS(0.002)AGPSK	3	-0.082583	31527.3	31516.6
Zfp592	1	1.55E-09	73.386	HAGGHS(1)PQVNHLK	4	0.68507	22480.8	23965.4
LOC10036	0.908566	4.22E-14	62.193	S(0.014)FNYS(0.909)PNS(0.058)S(i	4	0.44716	25092.8	23812.9
Snx1	0.999983	5.77E-16	91.657	AVGTQALS(1)GAGLLK	3	-0.56533	3434.6	2830.0
Cnm3	0.999667	1.26E-12	76.158	SIPVEES(1)PGRNPGV	2	-1.3981	15710.0	16619.4
Trak1	0.744127	1.14E-13	67.76	NES(0.744)S(0.196)S(0.056)S(0.00	4	-0.15664	8121.3	7410.6
Braf	1	6.71E-08	90.388	S(1)PQKPIVR	2	-0.13837	91003.8	86078.2
Htt	0.602441	3.85E-52	115.06	S(0.156)GS(0.844)IVELLAGGGS(0.6	3	0.043876	66211.6	67711.5
Sacs	0.904325	4.36E-55	131.09	DSAPTTPT(0.093)S(0.904)PT(0.003	3	-0.28498	5766.1	5393.7
Flna	1	5.60E-24	99.413	AFGPGLQGGNAGS(1)PAR	2	0.059844	5762.7	5515.5
Map1b	0.943272	1.24E-134	181.64	KLGGDGS(0.943)PT(0.057)QVDVSI	4	-0.98605	689702.7	714771.6
Pml	0.839011	6.73E-35	84.561	MES(0.161)T(0.839)DENEDR	2	-0.34142	5306.7	4453.3
Sorbs1	0.538185	2.95E-05	51.495	S(0.462)S(0.538)PERNDWEPDDKK	3	0.90745	27958.8	26958.9
Pygo1	0.999981	3.16E-11	53.998	GGDSGLDGLGGPNQLGS(1)PDKK	3	-0.65211	18022.6	16813.5
Prph	0.874681	5.72E-37	102.92	TFGPPPS(0.013)LS(0.013)PGAFS(0	3	-0.61328	13318.7	13553.5
Tusc5	0.99852	1.21E-34	123.36	WISEGHRQPS(0.999)LS(0.178)GS(0	4	-0.57859	122201.9	119673.4

21322.6	20809.0	21394.3	21454.0	0.0	0.2	747
4346.1	3824.8	4381.5	4411.9	0.0	0.6	655
35768.8	37364.5	40757.0	37604.0	0.0	0.5	107
169767.8	178556.5	183956.4	159940.0	0.0	0.5	508;592
36761.0	39015.6	38808.9	39297.0	0.0	0.2	22
14424.8	14903.4	13458.5	15026.0	0.0	0.5	589
3320.6	3418.7	3207.3	4211.1	0.0	0.8	323
47473.5	48545.6	51590.9	45628.0	0.0	0.4	1845
9956.9	10760.8	10770.9	9933.0	0.0	0.4	1540
15022.1	15930.7	17173.1	15918.0	0.0	0.4	579
19579.8	19902.7	20987.1	20187.0	0.0	0.4	319
26837.5	24878.9	27187.4	24756.0	0.0	0.6	57
19288.1	17999.7	17598.4	18217.0	0.0	0.6	431
9884.1	10479.6	10638.1	9487.5	0.0	0.6	408
37777.8	39196.0	38300.2	34777.0	0.0	0.5	611
15818.5	15744.8	16240.2	18045.0	0.0	0.5	91
15206.3	15772.3	17901.9	15974.0	0.0	0.6	1207
1859.6	2192.8	2474.2	1870.3	0.0	0.8	74
29294.7	30871.5	31418.1	33007.0	0.0	0.4	214
23706.4	23093.7	25238.2	24069.0	0.0	0.4	1087
27638.1	25292.5	26955.5	26750.0	0.0	0.5	568
3555.9	2916.9	3723.9	3494.8	0.0	0.8	232
16695.7	16524.7	17402.9	16671.0	0.0	0.3	703
8098.4	7902.2	8070.7	8416.1	0.0	0.4	96
80547.6	88885.5	87847.9	89175.0	0.0	0.4	127;127
66712.6	71021.1	69882.9	66182.0	0.0	0.2	271
5380.0	5911.4	5297.7	5862.6	0.0	0.5	4225
6311.5	5429.0	5887.2	6839.2	0.0	0.7	1084
717717.7	709309.0	782567.9	698610.0	0.0	0.5	1494;1368
5782.9	5257.1	4939.0	5847.1	0.0	0.7	580
29078.6	27577.1	27076.2	32048.0	0.0	0.6	722;510;773;464
20357.0	17639.0	20374.8	18957.0	0.0	0.7	34
12331.7	14685.6	13315.3	12466.0	0.0	0.6	39
114640.6	128354.3	121943.0	117720.0	0.0	0.4	70



Ube2o	0.945318	7.10E-93	115.27	EEPEDVGMTPGEAS(0.004)QGS(0.!	3	0.080974	8789.6	8252.6
Ranbp2	0.999167	1.60E-09	73.834	FGESTT(0.001)GFNFS(0.999)FK	3	0.44582	28414.4	29668.3
Mast2	0.784211	3.58E-33	112.55	S(0.004)LS(0.212)EEKEDHS(0.784)	3	-1.3295	36955.2	35249.4
Zak	0.793756	5.43E-05	80.69	MS(0.794)EES(0.196)Y(0.01)FESK	3	0.88251	14377.8	14836.9
Tmpo	0.945592	2.51E-58	105.9	GPPDFS(0.946)S(0.83)DEEREPT(0.	3	0.72626	103994.5	107522.9
Fxyd7	0.664606	5.90E-08	59.342	S(0.665)CKS(0.184)ELPS(0.122)S(C	3	-0.3305	20846.8	22461.5
Rgl2	0.96881	2.08E-26	80.786	RS(0.013)AS(0.969)CGS(0.018)PLS	3	-0.83598	5621.7	6424.3
Hnrnpd	0.724587	1.00E-40	113.36	IDASKNEEDEGHS(0.594)NS(0.725)	4	0.26388	11384.8	12893.1
Stim2	0.989116	4.70E-17	135.02	SIVPS(0.011)S(0.989)PQSQR	2	-0.4139	52030.6	52934.9
Tbkbp1	0.9998	3.80E-17	70.837	AYGGELYGPRPLS(1)PR	3	-0.18734	13788.6	14356.4
Ahsg	0.999948	5.39E-73	144.26	HAFSPVAS(0.002)VES(0.998)AS(1)	3	0.64216	576565.1	579236.8
Ccdc88a	0.980372	8.30E-09	115.12	S(0.98)LT(0.007)LT(0.012)PTR	2	-0.6022	43732.0	41584.0
Sox6	0.992588	3.44E-09	76.82	S(0.005)S(0.001)IPS(0.993)PIGGS(	2	0.033803	8656.5	7906.8
Pkn2	0.99017	1.27E-11	59.046	LQELNAHIVVS(0.99)DPEDS(0.01)A	3	-0.29503	8214.5	10337.1
Abcc3	0.505533	1.86E-17	119.07	YT(0.098)S(0.506)S(0.396)LEKEVP,	4	0.29596	21607.8	23104.3
Slain2	0.999976	5.51E-32	131.82	AGVSTPSSGAAS(1)PR	2	-0.5171	15472.6	16981.3
Tln1	0.990949	2.90E-71	102.09	GS(0.003)QAQPDS(0.991)PS(0.006	3	0.25749	37068.5	36692.9
Bcar3	0.573386	3.78E-15	101.52	T(0.573)GS(0.272)EPT(0.149)LS(0.	2	-0.19104	22476.0	21935.0
Ppfia1	0.604127	2.61E-63	120.38	SMSSIPPYPAS(0.009)S(0.009)LAGS	4	-0.8779	33765.9	31708.5
Snd1	1	0.00721967	44.847	VEKVES(1)PAK	3	-0.19055	15723.1	16257.4
Rbl2	0.83441	0.00014057	50.831	TDEIYIAGS(0.834)PLT(0.165)PR	2	3.2328	8612.3	9098.0
Cdc42ep4	0.882922	7.90E-09	58.375	S(0.883)RADLT(0.115)AEMIS(0.00	3	-0.18002	8424.8	7093.6
Ptov1	0.505659	0.0470717	40.714	S(0.494)RS(0.506)WPAGPR	2	0.62472	11427.9	12175.8
Sec31a	0.999947	1.26E-83	131.97	DSDRVAQS(1)DGEESPAEEGQLLGE	3	0.054567	16490.0	15111.1
Ablim1	0.822017	0.000265647	43.326	T(0.001)LS(0.012)PT(0.165)PS(0.8	3	-0.33373	5264.7	4742.0
Mb	0.99996	1.90E-07	54.103	YSGDFGADAQGAMS(1)K	3	0.56907	19346.5	19476.8
Abl2	0.965687	1.55E-21	122.5	STQAS(0.017)S(0.017)GS(0.966)P/	2	0.39842	9758.5	9170.1
Fgd5	0.797984	4.73E-15	85.576	S(0.798)S(0.19)PS(0.012)LLIDGDTI	3	-0.028875	14225.1	13420.8
Sdf4	1	2.00E-41	110.4	NHEELKVDEET(1)QEVGNLR	3	0.0022329	24249.6	22254.2
Cad	0.589857	0.00355524	80.834	RLS(0.59)S(0.197)FVT(0.213)K	2	-0.38148	23308.5	18646.5
Layn	0.728621	9.11E-07	40.668	EQHT(0.005)IWPT(0.729)PHQENS	4	-1.9888	4910.9	4351.4
Plekha6	0.753857	6.77E-06	58.164	KDPGQT(0.246)S(0.754)PLDTHR	2	1.143	57903.4	56359.5
Skiv2l	0.980358	3.16E-27	91.518	GDAAS(0.005)AS(0.98)PS(0.014)S(	3	1.0606	41896.4	46572.8
Prph	0.989323	6.28E-34	137.89	VVT(0.011)ES(0.989)QKEQHSELDK	4	0.29738	132256.2	109655.3

9178.3	8799.0	9091.9	9175.5	0.0	0.4	1159
28098.0	27838.9	29025.4	32097.0	0.0	0.5	2145
37013.3	37122.5	37899.5	37721.0	0.0	0.1	832
14720.8	15376.3	15150.2	14827.0	0.0	0.1	339
108050.5	110260.0	110850.4	108780.0	0.0	0.1	66;66
21543.0	22240.1	21283.1	23423.0	0.0	0.4	62
5671.1	6409.9	6328.7	5550.8	0.0	0.6	608
12265.7	12033.6	13269.4	12422.0	0.0	0.5	80
52888.2	52397.7	55537.4	55021.0	0.0	0.2	523
12866.2	13658.2	14979.2	13700.0	0.0	0.5	390
734006.8	669094.5	660058.6	621770.0	0.0	0.7	318
42349.3	41936.0	47009.6	42850.0	0.0	0.5	1417
7325.4	7688.4	8817.7	8155.4	0.0	0.6	426
10175.4	9756.6	9804.9	10095.0	0.0	0.7	110
20748.8	21120.3	23900.2	22559.0	0.0	0.5	922
16058.0	15371.9	17663.6	17047.0	0.0	0.6	63
36049.8	37849.6	34399.6	41118.0	0.0	0.6	979
20417.7	22598.7	23318.9	21013.0	0.0	0.5	277
33206.2	34843.4	33378.0	33660.0	0.0	0.2	692
20872.3	17377.2	20679.3	16511.0	0.0	0.8	754
10188.1	10405.3	9098.4	9300.0	0.0	0.7	636
8767.0	8553.4	8016.6	8503.6	0.0	0.7	18
12073.0	13311.7	11206.9	12316.0	0.0	0.6	36
14556.8	15652.4	16621.7	15382.0	0.0	0.5	526
5471.7	5238.8	5289.4	5452.8	0.0	0.5	462;363
19106.1	19579.3	21859.1	18372.0	0.0	0.6	133
9174.1	10068.3	10172.8	8774.4	0.0	0.6	605
13880.8	14781.3	14640.4	13454.0	0.0	0.4	687
24294.1	24217.8	25291.6	23589.0	0.0	0.4	213
20391.1	22087.2	21238.2	21047.0	0.0	0.7	1406
4717.2	4878.4	4856.5	4699.0	0.0	0.4	198
55665.9	57489.4	57902.3	60062.0	0.0	0.2	993;309
44377.5	45327.1	44996.3	46845.0	0.0	0.4	239
115694.6	127067.3	116856.2	125330.0	0.0	0.6	490

Zcchc6	0.946898	0.00397245	41.399	T(0.001)T(0.001)EELGS(0.947)PS(C	3	0.089428	8467.5	8500.2
Ston2	0.742475	2.80E-26	78.976	LDISS(0.001)LNRPPS(0.742)VT(0.2	3	2.0329	12331.1	11897.1
Hnrnpa2b1	1	0.010009	64.918	SGNFSGS(1)R	2	0.59711	13612.1	15228.5
Aatk	0.986288	3.16E-15	78.848	AGHS(0.986)PDS(0.011)S(0.002)A	3	-1.3933	6989.6	6903.1
Map1b	0.944013	1.41E-63	112.57	SEQS(0.01)S(0.041)MS(0.944)IEFG	3	1.686	45222.8	45964.0
Mef2a	0.974103	1.28E-19	71.002	VMPT(0.026)KS(0.974)PPPPGGGS	3	0.049734	21928.6	20352.2
Ehmt2	0.798475	3.17E-08	46.065	GDGGT(0.202)PPVGT(0.798)VAPA	4	0.099694	3961.5	4803.4
Brf1	0.947344	6.27E-42	113.71	GGGS(0.053)PPRDDS(0.947)QPPE	4	-0.39002	95161.5	84808.0
Synpo2	0.994231	1.92E-13	117.08	QADIGS(0.994)PT(0.006)NAK	2	-0.1407	36486.5	40211.8
Map2	0.524781	9.74E-32	90.978	ET(0.017)S(0.152)T(0.525)PS(0.17	4	1.033	17606.3	18485.2
Emd	0.890545	1.06E-29	126.91	LSPSSSSS(0.037)S(0.891)FS(0.07	2	0.53313	18286.2	16494.3
Ahnak	0.588813	1.83E-21	73.294	GKGGVT(0.062)GS(0.93)PEAS(0.0	4	-0.89486	50270.2	53626.0
Sh3bp5l	1	0.001429	112.13	CDS(1)VEHLR	2	-2.1885	20230.2	21533.5
Rap1gap2	0.823872	5.75E-39	82.988	QELANSSDVT(0.004)LPDRPLS(0.82	4	0.30382	5802.9	5829.0
Larp4b	1	1.08E-06	78.69	LNREQNT(1)PPKS(1)P	3	0.62741	138088.4	139286.2
Pard3b	0.99694	3.23E-12	70.41	IVT(0.997)PVGQPES(0.003)INLK	3	1.2848	5929.8	6109.9
Fam114a1	0.759861	2.98E-13	73.688	EQNDVAVDS(0.231)S(0.76)PPT(0.1	3	1.6945	7928.7	7838.3
Scara5	0.539976	1.28E-10	63.998	S(0.54)LS(0.46)KLNLCEGDPCHK	3	1.5111	33083.7	29000.2
Fbxo41	0.747389	1.40E-40	126.62	RHS(0.747)T(0.253)EGEEGDVSDV	3	-0.52603	10533.7	10678.5
Gas2	0.907698	1.14E-31	87.24	EIEQEET(0.006)LS(0.036)APS(0.90	3	0.28691	6517.3	8296.1
Phf3	1	0.000196852	57.106	MAPPVDDL(1)PK	3	-0.023452	8875.8	8616.4
Pard3b	0.948402	1.91E-32	117.18	S(0.001)S(0.012)S(0.948)LES(0.03	2	0.96342	47354.1	46405.0
Mapk8ip3	0.981149	4.54E-14	62.871	S(0.981)PT(0.016)T(0.003)AGFSQF	2	-0.63492	24415.3	25593.2
Parn	0.999832	0.00331316	87.323	RTLS(1)PDPR	2	0.7611	15574.0	15981.0
Phldb1	0.914925	0.00477694	60.398	KLS(0.085)S(0.915)GDLR	3	0.12814	35807.8	35293.2
Foxo3	0.985926	2.97E-41	108.14	AALQAAPESADDS(0.986)PS(0.014	3	-0.53143	40304.2	42329.9
Hgs	0.64793	4.94E-43	91.276	AASTT(0.001)ELPPEY(0.118)LT(0.2	4	-0.14425	7123.5	7185.2
Abl2	0.540899	4.89E-13	100.43	DKS(0.129)PS(0.33)S(0.541)LLEDA	3	-0.55612	29294.6	27312.1
Arhgap31	0.999701	9.14E-14	106.6	RNS(1)APVSVSAVR	3	0.19695	5408.6	6087.0
Nap1l2	0.981676	1.63E-07	58.712	RGGAAEDS(0.982)DS(0.018)DRPK	3	1.1531	3655.1	4674.8
Ralgapa1	0.764287	1.62E-13	105.95	QRS(0.902)AT(0.764)T(0.128)T(0.0	4	2.6588	27131.1	25879.5
lpmk	0.851516	0.000523272	42.716	LRPPGS(0.074)T(0.074)GDS(0.852	3	0.15172	5423.0	5202.4
Sorbs1	0.953562	4.70E-15	101.57	RPS(0.023)S(0.954)S(0.023)ASTK	2	0.23743	177184.5	172116.9
Phldb1	0.998627	1.42E-06	80.632	SQPTS(0.001)IPGS(0.999)PK	2	0.073552	79255.9	73425.3

9599.2	8635.7	9200.3	9596.8	0.0	0.6	705
11504.5	12680.3	12769.2	11448.0	0.0	0.5	299
13329.3	13879.3	15043.3	14622.0	0.0	0.5	324
7000.0	6948.6	7125.0	7500.3	0.0	0.2	1225
48099.5	46844.0	48696.0	48288.0	0.0	0.2	1639;1513
23648.9	22308.3	22351.8	23421.0	0.0	0.5	227
3985.4	4401.7	4460.9	4303.8	0.0	0.6	556
95139.6	97205.6	97913.4	88971.0	0.0	0.5	354
34597.7	40605.0	31891.5	42433.0	0.0	0.8	1014
20185.6	21123.6	18725.8	18266.0	0.0	0.6	507;421
18387.4	18257.1	19458.9	17189.0	0.0	0.6	57
53804.9	54954.0	55188.0	52714.0	0.0	0.3	5425
20015.3	20649.5	22056.8	21093.0	0.0	0.3	349
6575.1	6779.2	5829.6	6193.8	0.0	0.6	24
140287.9	142378.8	150465.1	138480.0	0.0	0.3	737
6468.9	6613.8	6685.4	5815.1	0.0	0.6	637
8689.9	8398.3	8190.5	8668.7	0.0	0.4	119
38222.8	32761.2	35905.4	34924.0	0.0	0.7	29
9679.4	10584.6	10810.4	10508.0	0.0	0.4	476
8256.6	8255.3	6704.2	8865.8	0.0	0.8	184
8280.3	8857.2	8873.5	8885.8	0.0	0.2	1029
51028.3	48147.4	50878.1	50504.0	0.0	0.4	688
24455.9	25569.7	25970.2	25365.0	0.0	0.1	602
14660.1	15507.2	17249.0	14974.0	0.0	0.6	556
39077.7	36181.0	40770.9	36842.0	0.0	0.6	565;622
40738.5	42599.2	42121.7	42702.0	0.0	0.1	283
7964.9	7859.4	7405.4	7740.1	0.0	0.5	240
31636.9	30925.4	33478.5	26737.0	0.0	0.7	619
6229.4	5995.2	6193.5	6118.4	0.0	0.5	1166
3627.3	3568.7	4655.0	4126.4	0.0	0.8	83
25166.0	26775.2	26697.9	27273.0	0.0	0.2	735
4587.5	5135.3	5574.9	5003.2	0.0	0.6	19
187313.1	182340.3	188936.2	182990.0	0.0	0.3	704;911;574
78208.6	76275.6	85225.4	76986.0	0.0	0.5	382;439

Szt2	0.563532	3.26E-07	77.185	GLGGVGGG(0.564)S(0.436)PSK	3	-1.694	6457.3	6186.6
Daxx	0.9994	0.00103426	63.662	RNS(0.999)APT(0.001)EGLR	2	-1.2329	8028.6	9620.1
Nckap5l	0.865113	3.85E-05	56.514	S(0.999)PHS(0.865)S(0.129)PT(0.0	4	0.64418	7166.8	6307.8
Ash1l	0.919458	1.91E-16	67.396	RLS(0.919)PPT(0.08)LLPNS(0.229)	4	0.64799	3693.8	3449.1
Ash1l	0.759237	1.91E-16	67.396	RLS(0.919)PPT(0.08)LLPNS(0.229)	4	0.64799	3693.8	3449.1
Dennd1a	0.818109	6.73E-26	110.78	RT(0.169)S(0.818)IS(0.01)S(0.003)	2	-0.69369	10834.9	11631.7
Ank2	0.5744	5.55E-12	43.562	YVS(0.574)S(0.203)DGT(0.219)EKE	5	0.44437	6377.7	5996.5
Scg3	1	1.07E-36	106.99	ELS(1)AERPLNEQIAEAEADKIK	4	1.3961	55562.2	62931.1
Phldb1	0.964897	2.74E-24	98.175	GSFS(0.002)GRSL(0.965)PAY(0.00	3	1.955	31666.8	29777.9
Rpl19	0.992678	0.00996358	76.825	LAS(0.007)S(0.993)VLR	2	0.096986	7996.3	8123.6
Akna	0.752254	0.00781733	55.806	ET(0.124)T(0.124)S(0.752)LPSSR	2	-3.6931	53511.9	58608.2
Son	0.984618	5.86E-11	67.646	S(0.985)PEPVVT(0.015)MS(0.001)	3	-1.1324	5375.6	5792.6
LOC10368	0.901615	0.00160771	45.438	KT(0.002)PS(0.012)QAT(0.902)T(0	3	-0.50345	13765.9	13680.7
Rai1	1	0.0199514	43.477	S(1)PALPEKR	3	-0.76204	10071.6	8905.1
Aak1	0.978237	1.31E-16	131.06	VGS(0.022)LT(0.978)PPS(0.562)S(	3	-0.65422	570625.6	569090.4
Cpeb3	0.805146	3.62E-10	82.651	RS(0.188)PAS(0.805)PS(0.007)QAF	3	0.38203	10659.1	10695.2
F11r	0.915299	0.0363631	60.436	QT(0.001)S(0.084)S(0.915)FLV	2	0.93087	6184.0	6665.4
Nhsl2	0.980481	4.78E-08	60.345	AT(0.001)T(0.002)PS(0.017)QLS(0.	3	1.804	10784.4	10936.2
Srrm1	1	1.91E-33	112.64	S(1)PS(1)PAPPPPPPPPPR	3	-1.8504	229769.7	252356.2
Slc12a2	0.999979	6.92E-07	77.42	TFGHNT(1)MDAVPR	3	0.23999	8985.2	9496.6
Erc1	0.997726	1.02E-15	100.23	VEPSS(0.001)QS(0.001)PGRS(0.99	2	0.10756	27543.7	27006.0
Abi2	0.977421	8.42E-07	62.759	HT(0.977)PPT(0.023)JGGSLPYR	3	0.60756	10005.6	10723.0
LOC68570	0.66395	2.40E-25	70.572	VAPGPSSGSTPGQAPGS(0.046)S(0.	3	0.16381	9529.5	8981.8
Mbp	0.99961	7.18E-09	118.76	RGS(1)GKDSHTR	2	-0.29086	345411.9	334142.2
Dapk3	0.999954	0.0204365	70.552	LREYS(1)LK	2	-0.38224	17451.3	17410.2
Cacna1b	0.81117	5.14E-53	92.798	T(0.103)ANS(0.811)S(0.085)PVHF/	3	0.45212	12248.8	12658.4
Sipa1l1	0.95378	1.49E-05	60.657	HS(0.046)AS(0.954)PVVFSSAR	3	-0.44981	7079.0	7911.3
Mdh1b	0.92106	0.0330906	58.433	DLS(0.039)S(0.921)T(0.039)GK	2	0.29844	7115.5	9196.6
Syne1	0.999918	0.000221276	72.531	SMYRGS(1)PIK	2	0.8365	32486.2	35056.3
Inpp5j	0.997433	0.0108636	46.352	S(0.212)RS(0.791)PS(0.997)PGK	3	0.62933	33729.0	38879.0
Rasal2	0.970888	3.17E-52	146.78	ASADS(0.029)S(0.971)LENLSTASSF	2	0.010297	38302.9	37971.9
Pdia6	0.95579	0.000132059	41.911	HQS(0.956)LGGQY(0.027)GVQGFF	3	-0.21589	6105.3	6750.9
Rgl2	0.982253	4.32E-18	76.573	VSCEVEPS(0.01)GT(0.008)IDS(0.98	2	-1.1955	7294.5	7940.6
Braf	0.812916	1.81E-33	80.786	GDGGST(0.002)T(0.006)GLS(0.113	3	0.55096	42139.8	41165.0

6680.3	6793.5	6750.6	6416.3	0.0	0.3	717
9591.1	9079.2	9525.3	9532.5	0.0	0.6	498
6466.8	7147.9	6632.6	6817.7	0.0	0.5	807
4285.6	3588.4	4024.8	4191.8	0.0	0.7	1160
4285.6	3588.4	4024.8	4191.8	0.0	0.7	1170
12173.1	12156.8	12269.1	11355.0	0.0	0.5	521
6504.4	7116.2	6872.7	5511.9	0.0	0.7	3882
61945.1	61347.0	58177.0	66861.0	0.0	0.6	40
32569.5	33084.6	32855.5	31173.0	0.0	0.4	540;597
6671.4	7796.4	7856.2	7890.3	0.0	0.6	13
51972.6	52739.8	60104.8	56660.0	0.0	0.6	272
5796.5	5285.3	6216.8	6022.3	0.0	0.6	258
13198.4	14258.8	14389.3	13338.0	0.0	0.3	462
9733.1	9404.2	9500.1	10753.0	0.0	0.6	1330
589077.1	584287.6	606102.8	595500.0	0.0	0.1	621
11266.0	11651.9	11138.5	10908.0	0.0	0.3	260
4996.9	6043.6	6563.7	5829.0	0.0	0.7	297
10590.7	10862.4	11836.3	10681.0	0.0	0.4	713
243228.1	250372.8	243885.9	255080.0	0.0	0.3	489
8672.6	9336.7	9902.8	8813.5	0.0	0.5	208
27681.8	29148.9	28134.2	27670.0	0.0	0.1	21
10360.2	10727.5	10815.7	10575.0	0.0	0.2	223
9243.5	9167.6	10306.3	9200.0	0.0	0.5	1649
249456.3	315391.4	386678.1	257710.0	0.0	0.8	57;57
16351.8	16328.9	18352.9	18228.0	0.0	0.5	301
11779.2	12032.5	13999.2	11870.0	0.0	0.6	2223;2222
7248.2	7689.3	7733.8	7552.4	0.0	0.4	1451
8245.9	6844.4	9238.7	9289.7	0.0	0.8	367
28403.6	33487.2	34601.6	31041.0	0.0	0.7	109
33292.4	37861.7	35644.6	35913.0	0.0	0.6	865
39192.7	39214.7	39957.7	40133.0	0.0	0.0	799
6793.8	7087.3	6845.4	6370.6	0.0	0.5	93
7959.1	8131.2	8018.0	7816.4	0.0	0.3	507
41007.9	40899.8	45467.6	42082.0	0.0	0.4	388;376



Eif4ebp2	0.996769	9.15E-55	90.338	RNS(0.997)PMAQT(0.002)PPCHLP	4	-0.65762	6588.7	7559.8
Aak1	0.977581	9.12E-24	133.48	VQT(0.022)T(0.978)PPPTIQGQK	2	-1.1464	42898.3	44097.1
Srrm2	0.829574	0.00269617	70.399	S(0.978)RT(0.83)S(0.169)PVS(0.02	2	0.28136	18195.5	22970.5
Mtmr2	0.871273	1.20E-69	140.03	SVSAISS(0.001)DS(0.004)IS(0.038)	3	0.7405	23981.2	26748.3
Tacc2	0.811066	1.22E-16	61.488	S(0.052)PAS(0.811)FEIPAS(0.068)T	4	2.0314	9028.1	8453.3
Tpd52l2	0.999754	1.74E-09	84.508	S(1)WHDVQGSTAYVK	3	2.6312	22708.6	21287.8
Dact3	0.821985	1.94E-08	118.35	SQS(0.052)ET(0.125)S(0.822)LLGR	2	-1.5967	14555.5	13057.7
Araf	0.992417	1.17E-36	160.81	GS(0.992)PS(0.008)PASVSSGR	2	0.37395	49100.2	48002.1
Pex5l	1	3.37E-09	105.95	NHS(1)LEEEFER	2	-0.46903	53080.2	57693.3
Ak1	0.577096	0.000258761	49.595	YGYT(0.003)HLS(0.577)T(0.42)GDI	2	-0.11192	6995.3	6690.5
Srek1	0.757029	0.00818163	43.501	KS(0.016)S(0.757)S(0.227)DRDGK	2	-0.31739	2895.7	2673.2
Srrm2	0.97228	0.000409967	96.668	S(0.001)GS(0.026)S(0.972)PPKQK	3	-0.64924	30583.9	35347.0
Fam53b	0.956665	2.08E-05	108.1	S(0.003)S(0.005)S(0.957)FS(0.036)	2	-0.3157	55337.9	52821.9
Setd5	0.882544	9.42E-05	52.52	S(0.117)DLNGLPS(0.883)PVEER	2	1.3693	22309.1	24701.4
Prph	0.499916	1.17E-56	171.54	LLGS(0.5)GS(0.5)PSSSAR	2	0.052505	31731.2	32116.6
Tjp1	0.765	5.22E-08	45.983	AVPVS(0.765)PS(0.235)AVEEDEDE	3	1.3979	20913.6	19318.9
Atxn2l	0.757038	6.62E-25	70.145	T(0.009)LS(0.169)S(0.757)PNNRPS	3	-0.087114	13199.4	14932.3
LOC100911	0.714064	5.46E-05	45.885	S(0.101)IQDLT(0.714)VT(0.139)GT	2	-0.053601	4858.9	5266.9
Blvra	1	0.000958186	74.962	ELGS(1)LDEVR	2	0.76377	11980.5	11963.0
Mapt	0.986098	6.38E-29	123.34	S(0.049)GYS(0.672)S(0.276)PGS(0	2	-0.19302	12496.9	10508.8
Ppp1r12c	0.738729	0.000730237	72.29	S(0.058)AS(0.739)S(0.144)S(0.06)	2	0.82178	43541.1	37083.4
Tiprl	0.990723	5.12E-08	61.409	IDPNPVDSSES(0.009)APS(0.991)E	2	0.6284	18946.9	21230.8
Cnbp	0.999016	0.0133014	64.757	ECT(0.001)IEAT(0.999)A	2	0.21369	27460.3	25214.8
Nefh	0.763923	1.95E-17	71.685	IGFGPS(0.764)PFS(0.214)LT(0.022	3	1.2375	17260.5	18984.3
Sptbn2	0.95298	1.64E-21	127.3	S(0.953)S(0.036)ES(0.011)AHVAT(	2	0.037118	63266.9	69586.1
Vasp	0.999337	9.22E-22	86.748	KVS(0.999)KQEEAS(0.001)GGPLAF	3	-0.86056	15442.8	15417.1
Kndc1	1	0.0119815	42.083	RPS(1)LHGLGK	3	-0.47059	18306.4	18452.3
Rnf180	0.583819	0.00759375	43.958	S(0.016)HS(0.4)LDLNIS(0.584)EK	2	2.2521	12723.5	13109.2
Mavs	0.849087	2.80E-11	67.396	T(0.012)NLS(0.849)PGVT(0.134)VS	3	-0.24231	30422.9	32621.2
Plekha4	0.999208	2.20E-30	85.881	S(0.999)PEPFS(0.001)PLSRPPSPLSI	4	-0.75744	52924.0	46737.3
Mark4	0.857169	0.00557494	62.201	IRS(0.143)QT(0.857)NLR	3	0.18463	10676.3	9218.9
Caprin2	0.904394	6.72E-22	81.016	QQIS(0.068)MAPVS(0.904)QWKPE	3	0.82076	30946.5	34089.9
Tmem201	0.906668	2.14E-07	72.815	ALS(0.907)LGT(0.091)IPS(0.002)LT	2	1.0612	10286.3	11191.8
Tmem132l	0.991682	8.00E-06	92.151	QEPANS(0.992)PT(0.007)S(0.001)I	2	0.42826	23108.2	24745.3



7450.4	7034.1	7733.6	7550.0	0.0	0.6	65
45581.6	45811.1	47581.4	43599.0	0.0	0.3	607
18254.4	20617.6	18968.4	21814.0	0.0	0.7	1851
24384.6	25304.6	26593.2	25719.0	0.0	0.4	58
9115.8	9095.9	9382.6	9005.6	0.0	0.3	2287
22483.1	21762.7	23153.2	23782.0	0.0	0.4	73
13921.3	14664.7	15335.0	12922.0	0.0	0.6	412
45162.1	49089.0	49319.0	48609.0	0.0	0.3	255
54745.0	56050.6	56625.3	58372.0	0.0	0.3	237
6935.7	7022.0	7206.8	7081.6	0.0	0.1	38
3291.8	3048.9	3233.4	2874.5	0.0	0.7	427
28373.8	32907.5	33459.2	31090.0	0.0	0.7	796
57121.2	56820.6	59318.3	54667.0	0.0	0.4	138
24615.6	23764.6	26703.3	23553.0	0.0	0.6	91
27926.6	33942.6	33825.8	27075.0	0.0	0.7	54
23964.0	21620.8	20433.5	24289.0	0.0	0.7	1760
14272.6	15351.0	13981.1	14491.0	0.0	0.5	422
5940.7	5569.1	5596.6	5438.5	0.0	0.6	417
10507.9	12307.4	12053.2	11244.0	0.0	0.5	49
9789.6	11164.6	12463.6	10265.0	0.0	0.7	450;534
38715.7	41909.6	40323.1	41104.0	0.0	0.5	454
19610.7	20956.4	19854.3	20980.0	0.0	0.4	270
25182.0	27755.3	27220.5	25489.0	0.0	0.4	169
17118.4	18070.1	19030.4	18050.0	0.0	0.4	418;418
62281.6	64629.2	67989.3	69053.0	0.0	0.5	2206
15951.5	16160.6	16130.1	16089.0	0.0	0.0	236
16669.1	17923.8	19153.3	18142.0	0.0	0.4	979
13185.6	13753.9	13427.5	13146.0	0.0	0.1	236
32450.3	33586.2	32978.4	32135.0	0.0	0.3	238
54218.0	56086.9	51624.0	51334.0	0.0	0.6	229;229
10864.7	9990.1	11467.6	10335.0	0.0	0.6	656
31120.5	31863.6	34014.9	33508.0	0.0	0.4	430
9700.6	10292.7	11416.3	10517.0	0.0	0.6	454
23900.1	24765.6	25088.6	24311.0	0.0	0.2	1048

LOC10369	0.999665	3.90E-15	83.423	S(1)RDLEQLEAEDESPR	3	-2.3257	8501.3	7686.7
Fry	0.862622	1.89E-35	159.66	S(0.053)S(0.085)S(0.863)PDLSSSSH	2	0.081089	42757.6	49237.2
Dlg2	0.984726	1.71E-05	51.524	T(0.006)S(0.006)LPPIS(0.072)PGRV	3	0.64449	30679.3	29035.3
Tox2	0.689128	2.74E-37	105.46	S(0.006)AT(0.145)PS(0.689)PS(0.1	3	0.36115	7615.5	7808.9
Prkcq	0.999611	1.05E-08	113.07	TLRDS(1)EHIFR	2	-0.76823	29641.7	27838.6
Bin1	0.586143	0.00376558	41.242	KKNS(0.414)DS(0.586)APEK	4	-0.78951	9531.7	16244.2
Spry3	0.550279	0.00224172	44.312	KMS(0.55)S(0.256)GGS(0.194)PCP	3	-0.077836	51523.8	52124.3
Bcl9l	0.951705	5.34E-06	85.837	EAPGS(0.952)PPLS(0.048)PR	2	-1.0653	25543.6	29002.4
Cttnbp2nl	0.912298	9.63E-07	70.438	GDT(0.007)S(0.034)HS(0.912)PT(0	3	-1.6881	48351.2	49513.6
Abca8a	0.5	0.000122607	68.657	CAGS(0.5)S(0.5)LFLK	3	-0.85422	6340.5	6741.6
Add1	0.998337	4.53E-48	108.71	EKSPPDQSAVPNT(0.998)PPS(0.00	3	2.67	730897.8	730369.8
Eif4g1	1	7.30E-10	97.797	EVEERS(1)R	3	-0.042917	46589.6	47000.6
Lst1	0.824324	0.000305658	40.622	NAQVS(0.001)GQELHY(0.174)AS(C	3	1.8809	20792.0	21478.7
Llgl1	0.859633	0.00904817	66.056	S(0.027)PS(0.017)S(0.096)AHS(0.8	2	0.010106	6050.3	6625.7
Frmd4a	0.962465	3.89E-13	141.44	S(0.014)S(0.002)S(0.962)LES(0.02	2	-0.75999	45289.6	47415.2
Rab11fip1	0.863537	2.43E-25	110.04	ES(0.129)S(0.864)PS(0.007)NSPSP	2	0.44994	6501.5	6636.1
Hspb8	0.999924	4.62E-14	108.97	DPFRDS(1)PLSSR	3	-0.17713	8151.1	7874.0
Fxyd7	0.964476	5.90E-08	88.021	SES(0.016)PT(0.02)CKS(0.964)CK	3	-0.73137	56988.6	54984.0
Zmynd8	0.97563	1.53E-19	70.391	ELSESVQQQS(0.024)APVPLIS(0.97	3	-0.23112	11060.2	11254.3
Kank4	0.999978	1.67E-39	117.65	SHAAPPQQNWS(1)PVVPR	3	1.6475	55988.0	57347.8
Zmynd8	0.999056	1.56E-05	95.477	RIS(0.999)LS(0.001)DMPR	3	-0.47116	8158.3	9184.7
Sod1	0.99447	3.97E-21	113.65	VIS(0.005)LS(0.994)GEHSIIGR	3	0.73604	19146.1	20352.2
Nipbl	0.999973	1.30E-06	88.338	SEGRPET(1)PK	3	0.49905	140783.9	142017.6
Clcc1	0.561736	2.25E-23	66.1	AFDLPDTEAQEHPEVVPS(0.407)HK	5	-2.7588	6216.8	7356.6
Gps1	0.999878	1.28E-52	125.91	SPPREGS(1)QGELTPANSQSR	3	-0.32157	49221.9	50729.0
Ppfia2	0.848679	0.0343893	40.386	LT(0.849)PRS(0.151)PAR	3	0.02493	3386.6	3396.3
LOC10255	1	2.35E-14	108.01	GPQFGS(1)EVELR	2	-0.21632	107378.1	103398.5
Mcam	1	0.000795238	66.267	S(1)EFVVEVK	2	0.62952	69553.5	74898.4
Clcn2	1	1.88E-05	100.69	VRPPLAS(1)FR	2	0.1732	29972.0	32593.7
Kctd1	0.943114	1.26E-31	98.957	S(0.943)PAS(0.057)PLNNQGIPTPA	3	-1.1166	9388.9	9047.5
Tpi1	0.977602	8.00E-10	82.349	T(0.022)AT(0.978)PQQAQEVHEK	3	-0.22213	7028.9	9107.7
Myo9a	0.987766	1.24E-16	93.371	GEAGVLGS(0.988)PS(0.012)ALATK	3	-0.29827	40445.0	40484.9
Mob1a	0.5	5.64E-05	58.32	HAEAT(0.5)LGS(0.5)GNLR	3	3.6513	9670.1	10927.8
Dennd4c	0.965452	5.13E-16	90.581	T(0.035)HS(0.965)FENVNCHLADN	3	-0.24648	15800.6	16952.8

8285.5	8180.5	8847.7	8267.8	0.0	0.4	284
39000.0	47645.9	42153.7	45598.0	0.0	0.7	1939
31059.9	28637.5	33892.0	31297.0	0.0	0.6	328
7068.9	7847.9	8266.8	7135.0	0.0	0.6	202
29696.1	29254.5	28941.0	31913.0	0.0	0.4	307
11990.0	14745.0	13656.2	10635.0	0.0	0.9	272
48269.8	49577.4	55072.6	52381.0	0.0	0.4	267
26303.0	30089.4	26579.3	26902.0	0.0	0.6	21
48582.8	49164.9	53058.2	49158.0	0.0	0.3	548
5821.7	6105.5	7296.9	6138.4	0.0	0.7	693;729;697
763476.1	751987.4	784202.9	763530.0	0.0	0.2	656
43713.1	46770.3	49733.6	45427.0	0.0	0.4	1187
20778.6	23006.8	20271.1	21897.0	0.0	0.4	64
7194.2	6529.7	7261.8	6748.9	0.0	0.6	996
45959.5	50650.9	47293.9	45398.0	0.0	0.4	744
6856.1	7162.7	6165.0	7340.8	0.0	0.6	343
7075.9	8278.2	8233.2	7369.5	0.0	0.6	24
53998.6	58022.9	54674.0	58877.0	0.0	0.3	65
10033.4	12208.5	10866.0	10366.0	0.0	0.6	544
59495.4	57701.7	61964.2	59005.0	0.0	0.3	92
8618.4	9603.1	8557.5	8678.6	0.0	0.5	420
19700.1	19734.4	21059.8	20406.0	0.0	0.3	108
151743.4	150056.5	149011.7	150180.0	0.0	0.2	724
7371.5	6905.0	7361.5	7387.2	0.0	0.6	431
45793.4	48200.2	52243.9	50235.0	0.0	0.4	469
3029.7	2848.7	4355.3	2941.1	0.0	0.8	575
104717.1	101416.3	105949.6	118820.0	0.0	0.5	184
79603.3	76948.8	75089.3	79611.0	0.0	0.5	608
33365.9	30787.9	33949.7	34449.0	0.0	0.5	865
8963.2	9415.9	9603.3	9310.5	0.0	0.1	613
8340.8	8216.4	9080.7	8012.3	0.0	0.7	178
42984.9	44341.6	42374.9	41412.0	0.0	0.3	1584
9053.5	11998.4	9666.7	8994.7	0.0	0.8	38
16293.3	17006.5	16925.2	16784.0	0.0	0.2	1057

Prpf4b	0.961777	0.0415278	61.602	T(0.038)LS(0.962)PGRR	2	-0.77293	6482.3	8145.8
Elf4	0.7655	7.01E-06	59.68	S(0.007)T(0.007)S(0.15)PVT(0.766	2	0.4405	22362.7	23075.8
Itga6	0.841486	1.50E-05	60.55	AEIHT(0.841)QPS(0.159)DKER	4	0.46061	9942.2	11875.2
Cdk13	0.68146	8.18E-05	44.998	LKT(0.005)EHAPS(0.681)PS(0.245)	4	0.79427	21331.1	21962.4
Gigyf2	1	5.25E-09	110.38	WRPHS(1)PDGPR	2	0.71339	21650.7	22781.8
Rere	0.873177	1.81E-36	106.42	S(0.017)S(0.02)GRNS(0.873)PS(0.0	4	-0.12898	37859.2	40613.3
Epb41l1	1	0.00754234	44.612	S(1)LPELDRDK	3	-1.844	12459.9	11687.6
Rab3ip	0.603553	2.69E-51	108.57	S(0.604)T(0.116)S(0.139)S(0.139)/	4	0.084092	4136.2	3888.1
Mkl1	0.947967	8.68E-08	42.347	AFGPGLVVPT(0.014)T(0.039)NHGI	4	0.20755	7479.4	7523.0
Cdr2l	0.892281	4.63E-120	189.82	LHS(0.105)S(0.892)S(0.003)LELGP	3	-1.2573	81810.7	73888.2
MAST1	0.999999	5.05E-11	84.508	AALS(1)PVQEHEHETGRR	4	-0.24483	49195.6	46230.6
Trpm7	0.97115	2.55E-09	79.86	LS(0.029)QS(0.971)IPFVPVPPR	2	-0.045325	31038.3	30970.3
Birc6	0.970355	0.0284695	44.847	LS(0.97)MT(0.029)DDS(0.001)K	2	-0.24046	9341.2	9870.9
Prph	0.815409	7.84E-14	145.28	S(0.815)S(0.108)IS(0.059)S(0.011)	2	-0.22981	181657.0	147293.7
Bag4	0.999934	6.68E-06	84.173	S(1)PGNSPTPVSR	2	-0.23916	7847.4	8048.8
Rnf157	0.984474	2.69E-06	42.172	VAEDDVS(0.984)DNS(0.015)AECV'	3	1.102	13201.8	13798.1
Hcn4	1	2.00E-13	74.793	S(1)PQAAQPPPPLPGAR	2	1.882	15428.5	15395.2
Ina	0.844864	0.000174142	89.301	VS(0.845)S(0.154)AGLS(0.001)LK	2	-0.64043	15473.8	15659.6
Smtn	0.74609	1.80E-16	58.919	AGGPRPCS(0.014)EEPS(0.234)T(0.	4	1.1278	18197.9	18752.9
Ralgapb	0.999997	3.14E-06	92.039	SDSAPPT(1)PVNR	2	-1.051	8155.1	8705.0
RGD13071	0.842868	2.19E-31	85.013	S(0.843)FGS(0.152)FPY(0.002)T(0.	3	-1.8582	8408.3	8251.3
Ogfr	0.539287	0.0110336	49.097	S(0.057)LS(0.539)PKES(0.404)K	3	1.7742	31778.9	32523.5
Mapk8ip1	0.999996	9.09E-10	78.244	SQDTLNNS(1)LGKK	3	0.27523	15157.8	15634.3
Ulk1	0.86084	2.21E-20	115.58	APS(0.861)S(0.138)QSLLT(0.001)L	2	0.059442	9855.6	7245.9
Svil	0.922199	7.55E-27	113.01	S(0.013)LS(0.922)DY(0.001)T(0.06	3	1.3507	11387.9	12774.7
Ppp1r9b	0.981352	1.94E-43	148.52	AS(0.019)S(0.981)LNENVDHSALLK	3	0.10262	69145.6	69014.6
LOC10090	0.750585	5.49E-31	71.882	KADTTT(0.001)PT(0.002)PT(0.006)	4	-0.34023	9610.7	9967.2
Akap12	0.753731	1.68E-15	58.812	VKS(0.754)AT(0.221)LS(0.021)S(0.	4	1.0721	11956.6	12487.3
Taok1	1	0.00844585	79.16	NS(1)PQALR	2	0.31888	22390.2	21344.9
LOC10369	0.647466	1.50E-43	92.098	APSQEPAPS(0.031)GES(0.322)GS(i	3	1.0912	14728.4	14754.6
LOC10368	1	0.0226677	44.98	MLENS(1)PR	2	-1.9741	20472.3	20501.3
Tnrc6c	0.99896	1.42E-44	153.75	AET(0.999)PPS(0.001)HQAGTQLN	3	-0.20668	19747.2	20103.2
Map1b	0.932093	1.02E-05	79.885	MS(0.031)IS(0.932)EGT(0.036)VS(	3	0.34607	52129.6	48972.9
Mlip	0.545393	1.89E-17	69.979	VS(0.545)S(0.455)HPEIPHGIAPQQ	4	0.095059	3168.7	4276.2

6854.6	7493.9	7388.7	7331.7	0.0	0.7	387
22812.1	22921.0	23362.7	24294.0	0.0	0.2	189
8559.6	10261.3	10552.4	10599.0	0.0	0.7	1061
18900.6	22437.0	21726.6	20153.0	0.0	0.6	526
23735.1	22619.6	23081.6	24793.0	0.0	0.4	237
39598.3	39870.2	39412.7	42819.0	0.0	0.4	345
12738.4	13767.1	11960.3	12419.0	0.0	0.5	1311;1303
3979.6	4061.7	4025.9	4326.6	0.0	0.3	240
6962.0	7639.9	8151.9	6923.3	0.0	0.6	616
76288.0	80578.6	78813.6	80524.0	0.0	0.3	129
47469.2	47079.4	51331.2	49371.0	0.0	0.3	1414
32434.3	33972.3	30033.2	33667.0	0.0	0.5	1566
9114.6	9949.5	8637.2	10709.0	0.0	0.6	3584
149976.1	160572.1	177961.3	156780.0	0.0	0.7	16
8039.3	8197.8	8238.3	8318.8	0.0	0.0	176
12808.7	13503.1	14656.5	13012.0	0.0	0.5	233
14199.1	14972.7	16295.8	15296.0	0.0	0.4	934
15060.4	16896.5	15024.1	15855.0	0.0	0.4	440
19652.2	19796.0	18484.3	20261.0	0.0	0.4	441
7973.2	8187.4	7683.9	9812.4	0.0	0.7	297
9163.1	9638.9	8771.2	8297.0	0.0	0.6	1361
33692.7	31927.4	35617.9	33807.0	0.0	0.4	361
13640.2	14109.2	17392.2	14454.0	0.0	0.7	169
7439.4	8989.0	8372.9	8020.5	0.0	0.8	637
12299.8	11805.9	12363.1	13544.0	0.0	0.6	505
69273.1	69775.9	73105.9	71666.0	0.0	0.1	100
9973.7	9803.3	9834.0	10928.0	0.0	0.4	178
12332.8	12311.8	12732.9	12994.0	0.0	0.2	627
22049.8	22826.4	22622.1	22594.0	0.0	0.1	965
14869.9	14906.7	15293.4	15676.0	0.0	0.1	276
19378.6	20787.0	21160.2	20479.0	0.0	0.2	15
18860.1	20009.4	20887.7	19831.0	0.0	0.2	777
51126.2	53735.2	51779.0	51947.0	0.0	0.2	1515;1389
4357.0	3984.8	4227.6	3995.3	0.0	0.7	108

Map1b	0.870004	1.04E-17	73.294	HMDPPPAPMQDRS(0.87)PS(0.13)	3	1.2238	60493.9	68255.5
Dst	0.646286	8.57E-79	126.45	S(0.144)T(0.144)S(0.646)AS(0.05)S	3	-0.057615	42343.7	41395.4
Srrm2	0.999967	2.66E-18	134	ARS(1)RT(1)PPSAPSQSR	3	-0.5799	49207.6	49757.2
Dock7	0.987224	2.87E-33	93.407	AAPWGS(0.002)NPS(0.987)PS(0.0	3	-0.34639	27511.5	27778.3
Prune2	0.947469	3.32E-10	47.383	T(0.036)EERS(0.947)LEALS(0.012)I	4	-0.40715	7867.0	7875.2
Alg9	0.800287	8.77E-64	113.68	GGGGGGGGGS(0.003)GGGS(0.8)GS	3	-0.064871	26044.5	26525.6
Mtx3	1	2.63E-37	144.3	QS(1)PQLLPR	2	0.56674	51922.1	51423.4
Ppfia1	0.707669	1.73E-10	63.436	S(0.708)S(0.25)DGS(0.268)LS(0.77	3	0.57654	31243.4	30127.9
Daxx	0.642214	9.33E-06	64.104	LLAT(0.003)S(0.015)QS(0.642)S(0.	3	0.04809	5726.7	5777.3
Map2	0.876799	1.51E-06	47.806	ANDKLDT(0.011)VLEKS(0.877)EEH	5	0.78574	27598.6	25049.1
Xirp2	0.994548	0.030113	40.778	NDS(0.005)EAT(0.995)VK	3	2.1635	31515.4	31992.6
Smg1	0.555914	2.31E-30	89.663	NLATS(0.001)ADT(0.556)PPS(0.17	3	1.1949	24206.6	25188.5
Bet1	0.995172	3.56E-14	110.92	S(0.005)LS(0.995)IEIGHEVK	2	-0.67256	34755.9	38579.6
Reps2	0.568493	0.00142501	41.996	RLDDEEKQET(0.568)PS(0.432)PR	3	-0.35727	10247.7	10294.5
Ptpa	0.993707	1.68E-20	78.326	VVQEYIDAFS(0.006)DY(0.994)ANF	3	-0.05627	23782.0	24013.7
Top2b	0.930037	9.98E-14	60.735	KVVEPANS(0.049)DS(0.93)DS(0.02	4	0.31365	8302.7	8813.4
Eml1	0.930989	0.0248543	41.109	RES(0.019)S(0.05)GDS(0.931)K	3	1.3911	9821.5	10029.9
Pitpnm2	0.97858	3.30E-09	71.601	RGAS(0.979)PS(0.096)RHS(0.718)I	3	0.50109	63699.8	65357.5
Map1a	0.98622	1.71E-22	149.41	CLS(0.986)PDDS(0.011)T(0.003)VK	2	-0.2383	334880.5	340054.6
Htt	0.90877	0.013025	98.582	HS(0.008)LS(0.083)CT(0.909)K	2	0.024126	18301.7	16834.4
Mtm1	0.515626	1.00E-17	70.986	LT(0.008)DS(0.11)S(0.516)T(0.365	3	2.0194	6252.7	6517.5
Inpp5e	0.997405	3.85E-11	68.243	S(0.997)PLAGDDHS(0.003)IHSAR	3	-0.09972	15243.6	16175.1
Eif4g1	0.987365	7.58E-07	73.36	RS(0.013)FS(0.987)KEVEER	2	-0.18788	246037.8	242462.1
Stam	1	0.00489389	73.841	AS(1)PALVAK	2	-0.085226	61784.4	65217.1
Nf1	0.90554	1.44E-14	72.082	KGSMIS(0.005)VMS(0.906)S(0.085	3	-0.94139	9167.1	9321.0
Cobll1	0.956501	0.000279466	54.309	T(0.043)HS(0.957)APLPNIS(0.001)	3	2.1151	5027.0	5995.7
Hsp90b1	1	2.40E-20	68.461	TDDEVVQREEEAIQLDGLNAS(1)QIF	4	2.2128	18424.5	17889.6
Arap3	0.946455	0.000106752	85.729	RHS(0.946)S(0.039)S(0.014)DLAR	3	-0.0702	5831.6	6681.4
Srcin1	0.999959	3.89E-07	94.781	RGS(1)DELTVPR	3	0.32219	23011.6	23658.3
Usp10	0.838582	1.38E-19	65.881	T(0.021)CDS(0.839)PQNPMDLIS(0	3	-1.3562	3753.1	3890.6
Rgs14	0.594364	1.71E-10	62.162	S(0.277)LGS(0.009)GEGES(0.594)E	3	-0.37745	17658.8	16336.4
Pkp4	0.628105	0.0725238	49.444	VGS(0.628)VT(0.293)S(0.079)R	2	0.35493	8744.5	7379.7
Zfyve16	0.953824	0.0159932	43.672	S(0.005)EIT(0.041)QS(0.954)PICR	2	-1.4535	13664.5	12201.0
Pard3b	0.947502	3.34E-41	110.57	ANSPEGEESPSPQQS(0.052)KS(0.94	3	0.0041852	22046.7	21800.1

60409.9	65793.0	68426.3	61446.0	0.0	0.5	2202;2076
39326.8	43519.9	40685.4	43094.0	0.0	0.3	7344;7516
47983.4	50259.4	51454.1	50290.0	0.0	0.1	2363
25679.2	28916.8	27452.4	27386.0	0.0	0.3	945
7593.5	8390.8	8033.5	7714.4	0.0	0.3	1269
27560.4	27518.8	26650.9	28720.0	0.0	0.3	24
47907.8	52614.4	53092.4	50755.0	0.0	0.3	283
32113.9	29231.4	33858.9	33614.0	0.0	0.5	238
5235.8	5614.7	5786.4	5915.2	0.0	0.4	402
27954.3	29819.9	26623.1	26936.0	0.0	0.5	1052;966
27706.2	29942.0	33067.0	31349.0	0.0	0.6	916
23866.1	24187.0	26902.0	24698.0	0.0	0.4	3546
37928.9	37262.2	40465.3	37374.0	0.0	0.5	50
9913.2	10917.6	10470.8	10118.0	0.0	0.3	171
25495.0	24627.0	24642.9	26551.0	0.0	0.4	792
8725.5	8816.8	8707.5	9209.6	0.0	0.2	1512
10260.2	9883.0	11043.4	10225.0	0.0	0.4	119
60989.1	66724.7	64308.9	65579.0	0.0	0.2	316;292
324204.8	338501.6	360261.2	334910.0	0.0	0.3	1218
18675.9	18777.4	17848.5	19047.0	0.0	0.4	1710;1831
6060.2	6372.1	7485.9	5624.1	0.0	0.7	606
15211.6	17470.7	15419.5	15354.0	0.0	0.5	245
245272.2	264012.3	252638.1	242520.0	0.0	0.3	1180
55051.6	63411.6	64582.4	60361.0	0.0	0.6	156
9893.2	9745.9	9987.9	9630.1	0.0	0.3	884
4967.4	5120.9	6182.0	5241.1	0.0	0.7	954
17109.9	18748.8	18516.4	18011.0	0.0	0.2	64
6733.9	6636.6	6703.9	6574.1	0.0	0.5	1256
22399.0	22643.8	24209.1	24615.0	0.0	0.3	1021
3685.0	3963.5	4212.8	3546.1	0.0	0.6	209
14704.8	16919.6	16764.9	16709.0	0.0	0.5	294
9507.3	7950.7	9799.1	8773.3	0.0	0.7	289
13270.8	12243.7	14497.2	13757.0	0.0	0.6	946
22964.3	22923.2	25050.1	21164.0	0.0	0.5	294



Cep135	0.824732	9.41E-05	52.247	DKS(0.022)PS(0.153)RLDT(0.825)F	4	0.56847	8507.6	8980.2
LOC68493	1	0.00143215	72.243	KNS(1)RPQAK	4	-0.5033	64612.2	53177.3
Got1	0.923536	1.82E-06	56.087	IVAT(0.013)T(0.063)LS(0.924)NPE	3	3.335	4763.9	4176.8
Tpd52	0.499998	3.03E-13	100.11	SIQHS(0.5)IS(0.5)MPAMR	3	-2.048	6781.8	6661.3
Unk	0.996523	2.11E-32	92.792	S(0.002)S(0.002)GLAS(0.997)PPHL	3	-0.94308	31082.4	33201.4
Klc4	0.999569	7.98E-14	67.827	RAAS(1)LNYLNQPNAAPLQTSR	3	0.69699	25606.8	26425.8
Pak4	0.999971	2.12E-66	123.64	GAPSPGVLGPHAS(1)EPQLAPPAR	4	-0.85413	26302.2	26497.1
Map7d1	0.568106	1.13E-18	73.672	S(0.008)S(0.008)QPS(0.416)PT(0.5	3	1.1096	24156.5	25769.8
Map1b	0.999998	0.00028027	86.67	CYT(1)PERK	2	-0.33168	180488.2	190698.6
Map1a	0.999276	1.07E-32	141	GEKELSS(0.001)EPRT(0.999)PPAQ	5	-0.281	398879.7	422816.8
Larp4b	0.999916	0.00349772	76.17	KNS(1)FGYR	2	-0.60343	68834.3	57585.8
Prr5	0.721751	6.04E-59	92.589	S(0.109)KS(0.722)Y(0.003)NT(0.12	3	-0.062964	25708.2	24102.5
Map2	0.995511	1.06E-14	80.362	T(1)PPKS(0.996)PAT(0.004)PK	3	0.23083	259085.8	274502.9
Mark2	0.997619	0.000228184	87.641	S(0.002)RNS(0.998)PLDR	2	0.12559	27286.1	25688.6
Apbb2	0.714494	3.00E-22	88.872	KGS(0.714)LS(0.242)S(0.041)VT(0.	3	1.044	30156.9	30692.8
Supt20	0.848771	0.00263064	48.822	S(0.151)PT(0.849)PPPPSSK	3	0.4499	6869.6	7412.2
LOC10254	0.993985	0.000202164	65.157	SES(0.006)EDNIS(0.994)KK	3	1.0678	27086.9	27744.3
Ccp110	0.999993	2.17E-11	57.21	SSSACQILINNPVNACELS(1)PK	3	0.37415	7678.5	7147.2
Cdh10	0.99671	8.00E-05	60.549	RT(0.997)PT(0.003)APDNTDVR	3	0.86795	4411.6	4076.1
Gltscr1	0.874107	8.71E-16	66.017	GAGS(0.122)PT(0.874)PLPT(0.004	3	0.13415	33414.1	35095.8
Brwd1	0.998974	2.37E-27	101.2	VIPQLMCS(0.999)PS(0.001)QSTSS	3	0.84602	6694.5	6834.2
Mcoln1	0.918186	5.71E-157	155.13	RGS(0.918)ET(0.082)EQLLTPNPGY	5	0.70095	63928.8	72741.9
Bud13	1	8.37E-13	97.273	QAHNHS(1)PAAAQHR	4	1.3212	1129.2	931.1
RGD13046	0.947197	0.0180141	74.2	SLS(0.053)GT(0.947)GR	2	1.3836	18929.0	18608.1
Kcnk10	0.999684	1.47E-05	63.29	AHS(1)LDMLSPEKR	3	0.069339	16047.5	17170.0
Ksr2	0.998035	3.85E-07	71.529	YSDLHIS(0.002)QT(0.998)LPK	3	0.426	12408.6	13800.3
Wdr62	0.580262	0.000163938	50.305	NQS(0.58)S(0.42)PPPAPPLCLR	2	1.1124	15399.9	15489.5
Slc7a11	0.816544	0.00491734	48.568	KPVVAT(0.183)IS(0.817)K	3	0.068365	2931.5	3390.8
Elovl2	1	2.32E-10	85.493	AHS(1)IAANGVTDKK	4	0.15132	35366.5	39571.2
Nup35	0.99803	2.56E-06	48.616	S(0.002)PLLAGGS(0.998)PPQPVPV	3	1.1556	9985.9	9434.1
Eif4enif1	0.983223	0.000581814	94.767	S(0.017)GS(0.983)PLEK	2	0.56843	47194.3	45602.0
Pxn	0.98552	5.78E-65	148.38	YAHQQPPS(0.986)PS(0.014)PIYSS	3	0.5165	71978.2	63561.8
Nefl	0.663068	9.98E-232	209.56	RS(0.212)YS(0.663)S(0.069)S(0.04	3	-0.9031	52816.6	50114.7
Oxr1	1	0.00206074	62.005	RMS(1)FQKPK	3	0.35021	23093.9	22587.7

8649.9	8855.3	9319.3	8873.4	0.0	0.2	445
59503.9	62716.4	60831.5	59921.0	0.0	0.6	348
3726.7	4375.6	4159.3	4573.8	0.0	0.7	312
6657.2	7330.0	6899.2	6571.8	0.0	0.4	184
32551.4	33106.6	34432.8	32672.0	0.0	0.2	378
27262.3	27635.4	28443.0	25982.0	0.0	0.3	590
24641.1	26177.9	27145.7	26818.0	0.0	0.2	266
26374.4	25325.5	26820.8	26816.0	0.0	0.3	120
191284.2	191349.0	200627.2	190120.0	0.0	0.2	2060;1934
345220.8	395842.5	442439.9	369350.0	0.0	0.7	742
63080.0	66448.6	64546.1	65126.0	0.0	0.5	498
27122.8	25303.5	26186.0	28132.0	0.0	0.5	255
257345.3	280401.7	271008.1	267160.0	0.0	0.2	1737;1651
24381.4	26374.8	27989.9	25695.0	0.0	0.5	483
30596.7	30377.6	31431.0	32834.0	0.0	0.2	68
8012.2	7385.0	7478.2	8210.7	0.0	0.6	490
25255.4	27568.3	27894.8	27427.0	0.0	0.3	303
7263.9	7225.0	7897.1	7741.2	0.0	0.4	400
3921.2	4294.4	4560.8	3988.5	0.0	0.5	699
31542.1	34186.7	37979.6	31393.0	0.0	0.6	1368
7130.5	7291.4	7098.6	6993.6	0.0	0.2	1462
67021.3	69785.8	73071.7	67977.0	0.0	0.5	10
1320.4	1024.7	1210.1	1264.6	0.0	0.8	271
17567.7	18192.2	19530.5	19317.0	0.0	0.3	355
16599.9	17834.7	16616.3	17116.0	0.0	0.3	371
12740.6	13558.1	13285.4	13474.0	0.0	0.3	495
15682.2	16818.4	15105.3	16284.0	0.0	0.3	33
3742.0	3223.3	3516.2	3678.4	0.0	0.7	11
37014.4	35779.5	41634.4	38472.0	0.0	0.6	267
9540.9	9989.5	10008.5	9980.8	0.0	0.1	56
47054.0	49126.4	47235.1	48404.0	0.0	0.1	138
72916.3	72729.3	72881.5	70172.0	0.0	0.5	83
48484.9	52034.7	54886.6	49819.0	0.0	0.4	58
22153.1	22990.3	25324.7	21905.0	0.0	0.5	90

Map9	0.999949	1.53E-15	90.259	ESPGGCIS(1)PGSQEK	3	-0.80923	58250.5	53119.2
Tceal5	0.5	9.30E-05	46.892	GRAEDEGS(0.5)T(0.5)EEGGK	3	-0.76299	3775.5	3785.6
Tceal5	0.5	9.30E-05	46.892	GRAEDEGS(0.5)T(0.5)EEGGK	3	-0.76299	3775.5	3785.6
Golga4	0.94739	3.55E-98	190.55	T(0.021)S(0.025)S(0.947)FT(0.005	3	0.079141	49574.9	47082.9
Anks1a	0.595762	2.93E-15	101.42	S(0.059)PS(0.346)FAS(0.596)EWD	2	-0.16405	13767.1	14196.3
LOC10036	0.999489	3.79E-12	65.423	VVS(0.999)PVFLQLPSYEEVK	4	1.0558	9265.8	8961.1
Mycbp2	0.985283	9.97E-08	116.73	S(0.007)S(0.008)S(0.985)PQDK	2	0.067365	149287.7	151999.5
Jag2	1	0.0368334	64.776	NFT(1)PPPR	2	0.14963	7541.8	8382.7
Fam171a1	0.712013	2.06E-07	48.773	EEDKS(0.064)QT(0.712)S(0.221)FL	4	2.8544	15450.0	17309.3
Acin1	0.951985	8.80E-22	78.78	GVQAGNS(0.952)DT(0.048)EGGQI	4	0.55349	18558.1	18733.1
Fmn1	1	0.000540821	52.5	RRES(1)PEELGQK	3	2.5438	22515.4	21518.2
Ndrp1	0.993809	7.54E-41	127.91	YFVQGMGYMPS(0.003)AS(0.994)I	3	0.89618	43225.1	44312.1
Cdk17	0.999296	2.78E-08	97.297	RAS(0.999)LS(0.001)EIGFGK	2	-1.2373	31956.7	28201.7
Frmd4a	0.774358	7.68E-12	63.488	S(0.774)LS(0.225)EIAIDLTTETGLK	3	0.17851	4848.4	5109.1
LOC10036	1	1.42E-37	106.58	AAS(1)PPAGEEAPAVQEPEEPR	3	0.033619	10450.5	11737.0
Luzp1	0.915228	2.93E-14	108.66	S(0.066)S(0.019)T(0.915)DFLELEQ	2	1.0793	18605.8	19419.8
Tbc1d10b	1	1.06E-20	120.29	AVGGAPS(1)PPPPVPR	3	-0.4106	39577.9	36705.0
Apc2	0.563127	0.00658067	40.242	T(0.05)NS(0.019)S(0.05)T(0.19)S(C	2	-1.4216	5341.1	4472.7
Fam110b	0.969434	0.00331294	80.014	S(0.026)KS(0.969)DLS(0.005)DR	2	-0.88262	46004.0	42923.4
Map1a	0.521506	1.18E-105	141.9	TEATQGLDY(0.022)VPS(0.296)AGT	5	0.95881	105275.4	99314.7
Prpf31	0.998203	1.13E-31	76.573	SSGTASS(0.001)VAFT(0.998)PLQG	5	0.18271	8524.4	8699.7
Map4k5	0.98793	6.38E-07	95.417	T(0.012)AS(0.988)EINFDK	3	-0.32676	62496.4	51891.7
Rbmxt1	0.996582	9.89E-05	50.314	SSS(0.001)GMGGRT(0.997)PVS(0.1	3	-0.024769	4655.0	4053.6
Gpr126	0.981561	0.00992267	80.688	T(0.018)AT(0.982)NIIK	2	-0.73926	17338.0	17459.6
Tbx3	0.995553	0.00484124	59.496	DKGS(0.996)PAT(0.004)R	3	-0.15879	27325.5	25170.9
Nars	0.873415	0.0259	53.756	S(0.127)DS(0.873)REKK	2	0.030443	25583.0	20481.6
Rims1	0.929535	5.44E-36	104.18	NDGS(0.023)QS(0.93)DT(0.048)AV	3	-0.011998	10726.8	11683.2
Atxn1	0.829985	3.06E-15	79.393	ALSAGLDY(0.163)S(0.83)PPS(0.00	3	0.13443	36899.1	34416.8
Pank1	1	1.02E-10	51.321	FQLPPELQPQQPLFAQHDS(1)PAK	4	1.5899	11751.1	11429.9
Gas7	0.945467	2.69E-27	103.71	STGDSQNLGS(0.008)S(0.945)S(0.0	3	0.64	110876.3	109932.8
Fry	0.999999	2.33E-12	136.3	NSDLFTVLS(1)R	2	-0.96026	61865.5	61542.4
Vps26b	0.876691	8.68E-15	129.19	FEGT(0.001)T(0.122)S(0.877)LGEV	2	0.99445	27324.3	29083.6
Rbm25l1	0.991096	3.82E-32	133.9	LGAS(0.008)NS(0.991)PGQPNS(0.(	2	-0.20877	101322.9	92456.8
Epn2	0.530715	5.93E-05	46.971	KPAES(0.002)GAS(0.467)VPPQDS(	3	0.36242	37097.1	35304.2

52987.2	58022.9	59069.3	53046.0	0.0	0.5	257
3509.3	3925.4	3436.0	4098.4	0.0	0.6	23
3509.3	3925.4	3436.0	4098.4	0.0	0.6	24
48554.1	50040.5	53185.3	47095.0	0.0	0.4	41
13812.7	14883.6	14459.8	13903.0	0.0	0.2	123
7656.9	9038.3	9017.4	8739.3	0.0	0.6	187
140106.9	143236.8	176828.5	136870.0	0.0	0.7	2919
8284.4	8319.1	8250.1	8492.1	0.0	0.4	1100
17789.1	16928.4	18228.9	17172.0	0.0	0.5	317
17646.4	18774.1	19417.3	18682.0	0.0	0.2	733;839;838
22870.6	22649.3	25227.5	21388.0	0.1	0.5	168
43125.5	42538.7	48840.2	43894.0	0.1	0.5	319
29142.4	29857.3	31288.8	31306.0	0.1	0.4	180
5524.0	5114.7	5844.2	5069.0	0.1	0.6	366
12189.1	10265.7	13906.3	11418.0	0.1	0.8	426
20410.3	20528.5	21363.3	18608.0	0.1	0.5	957
40279.7	41926.1	40074.1	38681.0	0.1	0.4	661
5339.2	5309.9	5108.4	5270.2	0.1	0.6	2183
46129.9	46808.8	47864.6	45159.0	0.1	0.3	257
109445.2	108203.0	107516.3	109420.0	0.1	0.3	1135
9164.0	8953.2	9446.5	8921.7	0.1	0.3	455
59061.0	60546.2	57702.5	61340.0	0.1	0.6	335
4124.1	4894.6	4368.9	4023.5	0.1	0.7	178
17822.1	17094.5	17857.0	19531.0	0.1	0.4	1117
25956.0	28434.0	24437.7	28359.0	0.1	0.6	389
15638.5	22239.0	23776.3	17874.0	0.1	0.8	68
11087.2	12100.7	12263.8	10320.0	0.1	0.6	1338
35789.0	36877.2	36218.5	37807.0	0.1	0.2	87
11585.4	12373.4	12581.1	11045.0	0.1	0.4	167
110605.7	115473.8	113949.5	113750.0	0.1	0.0	98
53946.5	62888.0	63505.2	57259.0	0.1	0.6	1935
29224.4	28900.3	31389.3	28388.0	0.1	0.4	319
106943.3	102439.2	102082.2	106900.0	0.1	0.5	650
40736.4	38525.0	38528.9	40111.0	0.1	0.5	484;427

Rrp15	0.809829	4.13E-42	92.41	DWDKES(0.81)EGEEPADGQAGS(0.	3	-1.2176	20806.3	23686.8
Dazap1	0.984298	0.00129153	75.509	GPRS(0.984)DS(0.012)S(0.003)K	3	-1.0177	7676.8	8473.4
Irf2bpl	0.985769	5.00E-05	58.079	RPGS(0.986)VS(0.011)S(0.003)T(0	3	1.2598	2156.7	2239.9
Ktn1	0.622729	3.21E-07	45.347	AAGDT(0.001)VVIENNDIS(0.377)P	4	-0.50811	5460.7	6457.8
Rem1	0.936499	4.93E-07	91.993	RAS(0.936)T(0.063)PLPLSSR	3	-0.24629	27963.6	26426.9
Ranbp2	0.78192	0.058599	53.756	S(0.01)Y(0.007)KY(0.201)S(0.782)I	2	-0.57932	13940.0	12344.7
Npdc1	0.713352	0.0187622	49.489	GPT(0.046)S(0.206)PT(0.713)T(0.C	2	-0.14353	30017.4	31346.5
Itpr1	0.999999	2.00E-06	123.2	RDS(1)VLAASR	3	-0.39306	34365.9	38241.7
Zyx	0.943036	8.38E-33	77.959	FTPVAS(0.006)KFS(0.05)PGAPS(0.!	4	0.91835	3215.8	3354.3
Ephb1	0.652645	0.0106928	67.113	LQHYS(0.347)T(0.653)GR	2	-0.33975	11966.2	13644.5
Slc52a3	0.999594	2.22E-56	137.52	QGS(1)IEDLLHSQVTLHSIKPR	5	-1.0646	27304.0	27738.8
C2cd3	0.995051	3.05E-13	63.46	SDVGAS(0.001)DFLS(0.995)EDDGI	3	1.4573	12229.7	13336.3
Cast	0.880236	8.26E-41	109.61	KGSDEVTAS(0.002)S(0.006)AAT(0.	4	0.029306	125601.1	128602.3
Lrrc4c	0.631013	0.000120138	54.09	MNS(0.369)KDNVQET(0.631)QI	3	-0.59837	15949.7	13828.8
Pdlim4	0.958882	2.36E-76	181.08	RS(0.041)S(0.959)ISGISLEDNR	3	-0.6321	30275.0	30134.4
Htatsf1	0.616382	0.00299862	46.162	MDS(0.354)ICGS(0.616)ERPGPS(0.	2	-0.61861	14319.3	12447.8
Farp2	0.927817	0.0185212	46.88	S(0.002)RLS(0.928)LS(0.07)PER	2	-1.4085	5225.8	5478.9
Rcsd1	0.5	6.02E-05	91.961	VKS(0.5)S(0.5)PLIEK	2	-0.71868	17323.7	17079.0
Snph	0.581473	0.00930963	54.005	FPAS(0.581)NT(0.418)YEK	2	-0.49692	16870.5	16304.5
Pcm1	0.963368	3.10E-15	79.182	RVT(0.007)NDIS(0.963)PES(0.029)	3	0.26874	19429.9	19555.8
Map4	1	2.72E-47	139.11	STLPVDEGS(1)PLEK	3	0.91006	112546.0	103409.5
Phf3	0.860918	0.00157423	58.098	RS(0.008)S(0.861)EEKS(0.131)EK	3	-0.75969	19879.6	17919.2
Cep170	0.820269	1.03E-12	97.183	S(0.011)KT(0.155)S(0.82)PVAS(0.0	4	0.76352	38292.2	39634.8
Sgip1	0.999772	2.71E-59	130.83	WVHFSDAS(1)PEHVTPELTPR	3	-1.0777	19121.0	19248.7
Slc15a2	0.530308	3.20E-70	112.26	NES(0.311)KET(0.688)LFS(0.007)P	5	-0.17245	30111.6	30764.1
Slc15a2	0.688355	3.20E-70	112.26	NES(0.311)KET(0.688)LFS(0.007)P	5	-0.17245	30111.6	30764.1
Aak1	0.777799	2.14E-06	76.728	VGS(0.031)LT(0.482)PPS(0.778)S(	2	1.1156	266730.8	265716.6
Srrm2	0.819046	2.24E-07	69.258	S(0.819)HS(0.18)GS(0.001)SPEVD	3	0.42533	9262.9	9078.8
Slain2	0.948988	7.31E-17	57.397	GT(0.047)FS(0.949)DQELDAQS(0.C	4	-0.83581	12952.5	11650.3
LOC68570	0.963499	9.29E-07	88.561	ERPES(0.963)CDDS(0.008)S(0.028)	3	0.086573	16659.3	16460.3
Tkt	0.999973	1.25E-08	53.998	ILAT(1)PPQEDAPSVDIANIR	3	1.3426	9534.0	9815.9
Tbc1d4	0.798212	0.00132529	47.724	CS(0.193)S(0.798)VT(0.008)GVMC	3	-0.39577	49274.4	49452.2
Dock2	0.588338	0.00041634	42.947	VEEEPIS(0.292)PGS(0.12)T(0.588)I	3	-0.85391	8810.9	7574.0
Kmt2e	0.964132	0.0440314	46.334	TIGY(0.003)T(0.033)S(0.964)PR	2	-0.13147	17431.0	16899.1

25019.1	20223.9	26211.7	25551.0	0.1	0.7	265
6739.3	8158.3	8404.7	7141.9	0.1	0.7	98
1984.9	2162.6	2369.6	2076.7	0.1	0.5	321
5844.8	6355.3	6219.8	5821.2	0.1	0.6	1236
26724.6	26532.1	28344.7	29130.0	0.1	0.3	18
14498.3	14709.8	13859.2	13668.0	0.1	0.5	796
27951.1	31524.8	29976.5	30998.0	0.1	0.4	237
37330.6	36503.3	37826.8	39529.0	0.1	0.4	1588
3271.2	3495.1	3845.9	2851.5	0.1	0.7	277
12419.0	11987.4	13838.9	13562.0	0.1	0.6	584
26526.6	28802.4	27472.7	28210.0	0.1	0.1	245
13722.2	13943.1	12950.9	13799.0	0.1	0.4	453
129950.2	129916.2	138645.9	129330.0	0.1	0.2	42
16866.1	16095.7	17490.5	14727.0	0.1	0.7	638
34257.0	32365.2	33996.8	31691.0	0.1	0.5	60;119
11707.9	13901.3	12665.6	13285.0	0.1	0.6	391
4560.8	5565.0	5691.0	4556.0	0.1	0.7	490
17750.8	18703.7	17432.8	17884.0	0.1	0.2	53
16086.7	16809.6	17795.1	16421.0	0.1	0.3	290
19692.7	20842.0	20015.7	19922.0	0.1	0.1	65
127906.1	121644.5	124123.0	110410.0	0.1	0.6	618;618
12881.1	16900.9	20510.5	15084.0	0.1	0.8	763
39952.8	40811.8	42066.1	39226.0	0.1	0.2	1131
18901.7	19955.5	20200.6	19169.0	0.1	0.1	347
28090.6	29324.9	32545.5	30286.0	0.1	0.4	39
28090.6	29324.9	32545.5	30286.0	0.1	0.4	23
272026.7	275605.9	283009.0	274710.0	0.1	0.0	624
9274.9	9477.3	9329.4	9800.7	0.1	0.1	1536
13316.5	12547.2	14008.9	12725.0	0.1	0.5	316
18357.6	18392.4	18721.6	16213.0	0.1	0.6	787
9387.2	9993.5	9529.8	10247.0	0.1	0.2	287
49526.1	51229.5	52086.8	50267.0	0.1	0.0	145
8732.4	8857.5	9188.7	7974.2	0.1	0.6	1643
19903.5	17084.6	20077.7	19023.0	0.1	0.6	1002



Mark3	0.997659	1.17E-17	69.986	GIAPAS(0.998)PMLGNAS(0.002)NI	3	0.078551	63969.4	64333.0
Cds2	0.737228	2.79E-107	128.04	LDGET(0.056)AS(0.18)DS(0.737)ES	3	0.68849	38409.0	43307.3
Hcn2	1	1.53E-06	74.783	GEPQCS(1)PEGPAR	2	-1.068	20887.4	20843.6
Zswim8	0.935633	9.08E-49	91.779	NVPES(0.014)S(0.051)PHS(0.936)F	4	-0.062753	27118.0	26490.5
Rnf6	0.824486	0.0506011	56.434	S(0.176)RS(0.824)PIQR	2	-0.37612	12013.9	10910.2
Vwa5a	0.999894	0.00892416	43.604	LTGPFKNS(1)R	3	-0.26224	12038.9	9407.3
Irs2	0.794809	2.41E-12	106.26	LCPSLPAS(0.795)S(0.205)PK	2	-0.37908	47735.8	45392.5
Htt	0.723656	3.00E-12	59.048	S(0.236)GS(0.761)JIVELLAGGGS(0.(	3	0.75037	7512.8	7862.5
Sec16a	0.999853	1.44E-25	112.26	SPDPEMVPQGS(1)PVR	2	-0.13843	95371.4	98565.5
Mapk8ip3	0.999224	2.63E-06	81.448	AS(0.999)REHPS(0.001)VQEK	3	0.1331	16004.6	16315.5
Fam122a	0.620805	2.91E-76	110.9	RS(0.161)NS(0.621)APLIHGLS(0.19	4	-0.29344	19389.4	18848.3
Tmem238	0.592512	0.000578912	53.377	TPQPS(0.01)AS(0.593)GS(0.397)RI	3	-2.2297	4505.9	4256.5
Mdc1	1	1.83E-21	76.82	S(1)PAAPVEQVVVR	3	-1.2621	22718.2	23884.2
Reps2	0.827266	3.07E-14	108.97	S(0.001)YS(0.021)S(0.105)T(0.827	2	-0.82392	13628.7	14093.2
Ppp1r18	0.999999	0.000547474	72.681	SCLVKGS(1)PER	2	-0.1765	43189.3	45327.8
Wipf1	0.762831	1.03E-20	82.609	NLS(0.174)LT(0.763)S(0.062)PT(0.	3	-0.15748	17205.6	17411.3
Stim2	0.981254	1.58E-34	119.16	KQS(0.981)PPS(0.009)S(0.009)LEI	3	0.23884	20781.2	18978.8
Hmbox1	0.999529	6.30E-22	65.265	QT(1)PPPVSATPGTFR	3	1.2072	27380.3	27441.5
Azi2	0.729747	7.23E-05	46.797	VEEET(0.049)S(0.222)S(0.73)VGRE	3	-1.1313	13702.7	13440.5
Unc13a	1	0.0467003	60.717	AAT(1)PEEK	2	1.2081	22566.7	24159.5
Map4k4	0.539715	4.57E-05	48.822	RAS(0.46)HHES(0.54)NGFAGR	4	-0.1073	3197.1	4191.8
Syde1	0.737698	1.61E-07	54.764	RPS(0.738)ET(0.262)PDVAPYLRPK	3	-2.485	13511.9	12772.5
Akap2	0.97111	3.78E-21	115.8	LEPAAS(0.001)S(0.028)LS(0.971)P	3	-1.4378	35633.7	35245.0
Aftph	0.712824	1.40E-21	72.082	GLS(0.713)VEKQDLQT(0.287)LQQI	4	-0.086863	13356.8	13698.3
Vom2r59	1	0.0394214	41.117	KS(1)LPEGK	3	0.34982	15399.9	15037.6
Trpv2	0.99937	5.18E-15	79.293	NTS(0.001)APS(0.999)QQEPDRFDI	3	0.12959	14221.5	15882.2
Svil	0.97699	1.23E-15	91.518	KPS(0.018)VDNS(0.977)AS(0.005),	3	0.0096953	32054.5	33124.6
Stmn1	1	1.83E-29	126.67	RAS(1)GQAFELILS(1)PR	3	0.73435	64395.1	64711.4
Sh3bp5	0.912081	1.88E-29	120.08	S(0.088)RS(0.912)EEPVELPPPAR	3	0.79616	55601.5	60401.6
Hnrnpa1	0.536412	1.10E-52	127.1	NQGGYGGGS(0.001)S(0.003)S(0.05)	3	-0.01613	7023.1	7260.5
Zfp36l2	0.999991	1.74E-43	79.6	SQQQGLAGLAPAPAQPPAAPAPPS(	4	1.3679	4839.8	5617.4
Mark2	0.998015	3.11E-94	173.18	VPVAS(0.998)PS(0.002)AHNISSSSC	3	0.13245	26847.2	29615.6
Itgb4	0.967231	3.89E-14	81.51	MDFAYPGS(0.033)ANS(0.967)LHR	2	1.303	50619.7	48552.7
Ablim1	1	0.0041703	43.594	GPS(1)PERAS(1)LR	2	4.0901	8409.9	9171.7



63172.7	66356.2	65918.2	66092.0	0.1	0.0	469
42126.8	45074.1	41410.0	41824.0	0.1	0.5	34
22712.0	22185.1	22556.9	22025.0	0.1	0.3	90
26522.4	28014.9	28152.4	26854.0	0.1	0.1	1086
10170.3	11092.0	12769.2	10427.0	0.1	0.7	305
8505.4	10203.7	11559.5	9269.1	0.1	0.8	634
45910.6	49948.1	47335.6	46772.0	0.1	0.2	616
6977.6	8074.6	7926.6	7158.3	0.1	0.5	274
92136.2	99838.9	97020.0	99546.0	0.1	0.2	2041
15024.2	16235.4	17276.8	15543.0	0.1	0.4	558
19009.2	19794.9	20031.7	19489.0	0.1	0.0	36
4166.8	4287.0	4902.0	4207.5	0.1	0.6	151
21118.2	22509.6	25765.0	21894.0	0.1	0.6	589
12853.4	13949.7	14098.6	13994.0	0.1	0.3	327;453
40149.8	44885.0	48198.0	40238.0	0.1	0.6	515
17408.0	17778.6	18218.2	17910.0	0.1	0.0	326
21980.6	21079.6	21946.7	20948.0	0.1	0.5	606
27523.1	29277.6	29513.8	26534.0	0.1	0.4	253
12848.1	14207.1	15160.9	12071.0	0.1	0.6	84
20710.5	23610.6	26273.7	19994.0	0.1	0.7	420
2977.2	3900.6	3203.5	3637.3	0.1	0.8	872;902
12893.9	12836.5	13586.7	14174.0	0.1	0.4	607
35569.7	34836.8	39244.9	36223.0	0.1	0.4	36
12691.6	13287.5	15540.2	12359.0	0.1	0.7	312
13157.9	15116.7	15469.7	14589.0	0.1	0.5	527
14797.5	16295.9	15407.7	14825.0	0.1	0.4	68
37760.7	33753.4	35765.4	37153.0	0.1	0.6	824;456
67899.7	68263.5	71491.2	64396.0	0.1	0.4	16
53409.9	54883.6	62453.7	58220.0	0.1	0.5	10
7294.9	7554.9	7108.1	7698.4	0.1	0.3	312
6312.4	5528.1	5898.4	5951.6	0.1	0.7	414
24979.7	27231.7	27466.3	29700.0	0.1	0.6	566
47902.5	49936.0	53715.4	48761.0	0.1	0.4	1389
8682.9	8878.1	9295.3	9044.7	0.1	0.3	49

Ablim1	1	0.0041703	43.594	GPS(1)PERAS(1)LR	2	4.0901	8409.9	9171.7
Sox5	0.999284	4.13E-49	122.6	RPAS(0.999)PYGET(0.001)DGEVAN	3	0.01024	10435.3	9247.9
Stac	0.966839	1.72E-06	45.347	AS(0.001)PGPS(0.006)PIPIPGS(0.9	3	-0.1245	3902.1	3089.6
Ddx17	0.890798	3.42E-12	64.454	T(0.033)T(0.01)S(0.033)S(0.033)AI	3	0.32186	8394.0	6211.9
Tceal5	0.752642	5.52E-70	164.02	TDRGT(0.003)DDS(0.244)PKNS(0.7	3	-0.24001	58669.1	61342.8
Spire1	0.999911	3.19E-07	63.546	RHS(1)IEKETPTNVR	4	-0.48271	45517.4	48339.9
Nek1	0.573326	0.000452687	46.318	VWGKS(0.416)PT(0.573)DS(0.011)	3	1.543	5889.3	5440.8
Rltpr	0.953187	4.43E-43	98.491	KAGS(0.953)DGDIMDS(0.012)S(0.0	5	1.1919	44371.3	43643.0
Rnf169	0.98028	2.89E-24	95.365	GVAS(0.98)GPS(0.02)LEGEQFEESR	3	-0.53152	27849.1	28116.1
Shroom3	0.928706	4.13E-05	65.374	RLS(0.929)AS(0.048)S(0.012)T(0.0	3	-0.082971	20010.8	19661.1
Scg2	0.776021	4.87E-33	80.117	RVPS(0.06)PGS(0.164)S(0.776)EDI	5	-0.081688	8745.0	9442.8
Dcaf15	0.922163	9.25E-20	69.704	AS(0.922)PPAAEPT(0.078)APEPGY	3	-0.55038	15991.4	16867.3
Gprc5b	0.999999	4.20E-42	158.14	SAVGFSNGS(1)LEQR	2	-0.72168	23485.1	24879.1
Rb1cc1	0.748492	9.25E-06	64.224	S(0.19)T(0.062)ELVLS(0.748)PDMF	2	-0.4978	11862.5	11386.0
Ugp2	0.994448	9.88E-58	103.88	AMS(0.994)QDGAS(0.006)QFQEVI	3	0.76525	3404.1	3264.2
Pacs1	0.970236	4.01E-07	43.103	GS(0.016)GVAQS(0.97)PQQQPPQI	4	0.34742	6667.2	7107.1
Synm	0.986749	8.17E-55	99.907	RS(0.013)S(0.987)PVPR	1	0.36881	193416.8	191894.3
Rfc1	0.893341	6.51E-06	45.916	KDS(0.002)EEGES(0.102)FS(0.893)	4	-0.26023	15362.9	17834.7
Rbm15	0.998809	1.63E-16	69.747	GGG(0.999)REYDT(0.001)GGGSSSS	2	-0.6989	5240.3	5282.6
Casz1	0.999999	9.04E-22	87.411	GAEAGSQAEGS(1)PLRPR	3	-0.90361	12043.7	12848.2
Gtf2e2	0.883343	3.05E-14	118.51	AVPS(0.001)ES(0.883)PS(0.101)S(	2	1.647	24669.4	25079.9
LOC10255	0.789307	1.05E-10	51.758	VS(0.029)RPGS(0.789)PGS(0.129)E	4	0.5281	11904.6	11568.1
Nipbl	1	6.62E-05	95.477	GDGRPET(1)PKQK	4	0.46578	120424.8	128010.0
Srrm1	1	1.91E-33	112.64	S(1)PS(1)PAPPPPPPPPPR	3	-1.8504	241553.4	265113.3
Map1a	0.931409	4.11E-23	63.44	MASPPPS(0.004)GPPS(0.011)AAH	5	3.4545	24500.0	26312.8
Pdzd2	0.999215	1.37E-12	98.58	QAS(0.999)LPGS(0.001)PQVLR	3	0.74438	27500.8	29371.0
Nefh	0.999182	2.60E-41	127.03	SPASVKS(0.999)PS(0.001)EAK	4	0.7429	990627.6	1107664.6
Patl1	1	0.00241561	57.532	AVPIGT(1)PPK	3	0.30994	29919.6	28247.8
Map4	0.937673	3.51E-29	81.477	ETSGSQPELCS(0.062)GVS(0.938)	4	-0.16559	19316.6	18381.0
Prkd1	0.999566	0.0132555	51.286	ALSERVS(1)IL	2	0.042914	11999.5	11007.5
Ank2	0.974483	4.38E-05	103.91	HS(0.002)PVS(0.974)PS(0.012)S(0.	3	0.43767	53824.4	55392.0
Tbc1d10a	0.987562	9.18E-19	135.91	APASGGS(0.988)LS(0.012)GTR	3	-0.042452	20037.0	20163.5
Tmem163	1	4.99E-10	84.753	S(1)PPGPGVPRPPPR	3	-0.04776	18274.2	20173.4
Sec16a	0.768772	2.62E-38	87.411	MCS(0.004)PS(0.016)HS(0.769)NS	3	-0.29454	2172.2	2734.7

8682.9	8878.1	9295.3	9044.7	0.1	0.3	54
9491.0	9551.5	10778.3	9903.6	0.1	0.5	21
3742.1	3658.8	3800.7	3664.1	0.1	0.6	90
6129.7	7882.5	6967.3	6639.4	0.1	0.8	119
54523.5	60971.9	60318.5	59590.0	0.1	0.4	124
42604.8	45685.7	52451.2	43287.0	0.1	0.6	493
5854.0	5335.5	5949.8	6524.1	0.1	0.6	762
47474.5	45322.7	48257.8	46839.0	0.1	0.3	1206
27205.9	27948.9	30238.3	28012.0	0.1	0.3	392
20596.6	19206.4	22472.5	20785.0	0.1	0.5	620
9379.0	10178.8	9083.5	9309.2	0.1	0.5	495
16635.0	16471.9	16794.8	18031.0	0.1	0.3	372
26051.8	26150.4	26299.3	24679.0	0.1	0.4	347
13018.4	12350.3	13072.7	12166.0	0.1	0.5	243
3273.5	3464.8	3116.4	3723.1	0.1	0.5	13
6878.5	8124.2	6597.7	6684.0	0.1	0.6	28
193275.1	199400.7	199056.3	201230.0	0.1	0.0	1042;1042
15900.4	16162.8	17144.3	17582.0	0.1	0.5	252
5256.4	5576.5	5993.6	4785.1	0.1	0.6	108
11400.2	13690.1	12270.2	11657.0	0.1	0.6	100
25135.1	26648.7	25683.8	25287.0	0.1	0.1	31
11354.4	11864.2	11413.1	12823.0	0.1	0.4	17
121890.9	124911.4	132372.9	126580.0	0.1	0.2	735
256600.0	264716.3	258772.1	267690.0	0.1	0.3	491
23764.9	30545.9	23951.5	22808.0	0.1	0.7	1245
27956.4	27610.1	30700.0	29621.0	0.1	0.4	891
1032798.5	1216335.4	1024241.7	1005100.0	0.1	0.6	682;652
32331.0	32038.5	32290.1	29486.0	0.1	0.5	194
17738.0	19028.2	18741.9	19697.0	0.1	0.3	641
10785.9	11701.4	11584.1	11747.0	0.1	0.3	916
53275.7	53426.1	62013.4	53014.0	0.1	0.5	1833
20244.2	21210.5	20893.1	20559.0	0.1	0.0	18
18140.4	19954.4	19790.2	18920.0	0.1	0.4	11
2720.3	2462.1	2786.8	2658.2	0.1	0.7	1021

Gas2l1	0.872832	2.03E-13	110.9	GAQLS(0.002)AS(0.125)S(0.873)P/	2	0.0086972	9181.4	8245.1
Tgfb1i1	0.954666	3.12E-13	75.682	GS(0.955)LCAT(0.045)CGLPVTGR	3	-0.026834	7560.5	10622.0
Map1a	0.974955	7.94E-66	94.352	ATVSPSTDETPAGT(0.001)LPGGSFS	4	-1.0172	24867.4	24382.2
Tbc1d4	0.975661	3.15E-16	130.47	SLT(0.001)S(0.024)S(0.976)LENIFS	2	-0.85983	21419.3	21378.9
Cdc42ep1	0.717901	4.06E-31	90.464	MAS(0.718)PAAT(0.242)S(0.04)PA	3	0.57031	10124.9	8184.4
Zc3h13	0.592956	1.31E-12	102.45	ERDQRPS(0.593)S(0.407)PIR	3	0.36851	16115.5	16414.2
Sgip1	0.578219	8.07E-09	55.588	AS(0.002)IGNIALS(0.578)PS(0.578	4	-0.57822	8995.5	9506.7
Plekhm3	0.941664	1.14E-07	47.726	SSGLLAS(0.021)PVLDS(0.942)PKQ'	3	-0.5188	8513.3	8502.3
Tshz3	0.842796	8.36E-05	52.112	TSAVVS(0.003)FMS(0.154)NS(0.84	2	-1.0245	10417.6	9789.0
Sbf1	0.981136	5.91E-29	77.871	GVIDLAEVEAVAPGT(0.981)PT(0.01	4	0.97646	12677.0	12854.7
LOC10036	1	0.00215911	74.587	S(1)AEQIVELCR	2	0.17941	17060.1	16536.0
Ssr1	1	0.00231064	89.913	RDKAS(1)PR	2	-0.54724	103493.6	100534.4
Zcchc8	0.758183	1.13E-17	70.197	DVFASY(0.001)LNS(0.758)NIQS(0.1	3	0.34516	8932.5	8932.1
Map2	0.879036	1.76E-27	102.89	GLS(0.121)S(0.879)VPEVAEVETTTI	3	1.2326	13467.7	13998.8
Camk2g	0.532672	8.92E-63	109.65	S(0.226)S(0.258)S(0.258)S(0.258)\	4	0.34768	11717.1	10191.7
Afap1l2	0.9998	2.71E-20	111.63	SSSSDEEY(1)IYMNK	3	1.632	9507.3	9300.5
Hsp90b1	0.607547	0.000176813	60.255	DIS(0.041)T(0.176)NY(0.608)Y(0.1	2	-0.31355	12845.2	12082.5
Git2	0.784038	0.00298102	54.023	RQQGS(0.784)PLS(0.216)R	3	-0.89869	8644.2	9120.6
LOC69188	0.945549	0.00313371	42.317	MTS(0.003)CPS(0.051)DS(0.946)C	2	0.13823	4248.8	4809.8
Mbd3	0.931168	0.000341643	67.519	VRYDS(0.931)S(0.069)NQVK	2	-0.76597	21302.4	21483.1
Gab1	0.504782	2.36E-43	98.267	NS(0.003)GS(0.046)GS(0.505)S(0.1	4	-1.1747	17576.5	15977.7
Exoc3l2	0.795685	8.42E-05	63.727	RS(0.204)S(0.796)ADFGLLR	2	-0.21666	20480.7	20743.8
Tecpr2	0.984333	4.11E-23	91.276	S(0.984)LQDLS(0.016)QPGAETSL	4	0.31537	42867.3	43488.3
Dclk1	0.867618	3.99E-16	107.13	SGKS(0.007)PS(0.12)PS(0.06)PT(0.	4	0.53341	79116.4	79422.1
Dhx57	0.51854	0.0574459	46.426	DT(0.011)S(0.47)PET(0.519)CK	2	-0.79668	4165.0	5003.1
Plekhg3	0.874997	0.000507226	76.728	RS(0.125)S(0.875)LAAEDGK	2	-0.80984	13707.5	13702.7
Dync1i1	0.836304	7.68E-43	115.39	S(0.004)VS(0.133)T(0.836)PS(0.02	3	-0.94272	28927.2	27210.1
Arhgef11	1	4.14E-23	76.959	RQGS(1)DAALLPLNHQGIDQSPK	3	2.4333	44286.6	46262.4
Atp1a2	0.944996	1.31E-32	92.01	YQLS(0.001)IHEREDS(0.945)PQS(0	5	1.1191	17469.2	17879.7
Madd	0.842283	0.0245878	55.718	TPPRPVS(0.158)S(0.842)	2	0.031537	8584.0	8595.8
Sirpa	0.521257	7.89E-06	41.615	AQPT(0.521)PKPEPS(0.415)FS(0.01	3	0.70553	10406.4	11028.4
Pphln1	0.941442	1.27E-24	78.441	DT(0.03)S(0.941)PS(0.012)S(0.012	2	-0.2005	50932.2	51263.2
Enah	0.890324	4.48E-08	58.479	TNT(0.001)MNGS(0.056)KS(0.89)F	3	-0.29738	40299.4	40769.0
Dapk3	0.999969	0.00104564	75.986	NTSYAS(1)FER	2	0.31171	23425.4	25323.4

7961.9	8748.2	8823.4	8748.7	0.1	0.4	429
8761.6	8805.6	9798.0	9329.8	0.1	0.7	364
25163.9	25258.4	26880.7	25007.0	0.1	0.2	1512
21051.2	20425.2	24169.5	21601.0	0.1	0.5	398
9085.7	10332.9	8996.5	9072.4	0.1	0.7	101
16028.2	19061.2	16943.3	14338.0	0.1	0.7	699
8979.9	9635.2	9675.4	9182.1	0.1	0.2	179
8094.4	9106.1	9123.2	7804.2	0.1	0.5	355
10169.5	11070.0	10361.6	10062.0	0.1	0.3	794
12282.8	12584.6	13314.2	13307.0	0.1	0.2	1750
16786.2	17639.0	17913.7	16684.0	0.1	0.2	5
85924.1	103890.1	103123.1	93613.0	0.1	0.6	274
9106.6	9453.3	9731.6	8779.3	0.1	0.3	187
14637.8	15173.9	15045.4	13436.0	0.1	0.5	1106;1020
10212.3	9475.9	13230.9	10598.0	0.1	0.8	366;366
9428.4	9673.9	9612.9	9990.1	0.1	0.1	72
11294.8	12990.5	11833.1	12734.0	0.1	0.5	677
7489.4	8645.1	8803.0	8737.3	0.1	0.6	360
3994.7	4176.0	4683.7	4675.0	0.1	0.6	435
22455.4	21227.0	23598.9	22821.0	0.1	0.4	53
16063.3	16558.8	18513.2	16376.0	0.1	0.5	650
20498.6	20292.1	21710.6	21999.0	0.1	0.2	100
42375.9	42898.4	44583.8	46002.0	0.1	0.2	647
76834.1	80746.9	85714.9	77602.0	0.1	0.3	29
4093.1	4164.7	5019.4	4566.9	0.1	0.7	307
13903.2	15334.5	13623.1	13882.0	0.1	0.4	517
30259.3	30754.9	30319.6	28515.0	0.1	0.4	88
43639.7	47012.3	46783.1	45353.0	0.1	0.2	312;311
17743.3	17408.0	19128.7	18518.0	0.1	0.3	496
8455.5	8310.7	9530.1	8742.2	0.1	0.4	1602
13198.4	12232.7	13104.8	10577.0	0.1	0.7	491
50095.7	52891.6	57521.9	47515.0	0.1	0.6	150
37219.9	40217.8	41909.0	40544.0	0.1	0.3	722
24685.9	25656.6	24702.8	25796.0	0.1	0.2	316

Macf1	1	6.08E-05	50.827	KAS(1)LLEQALFNAR	3	0.039893	3585.9	4373.7
Arhgap5	0.996818	3.42E-21	103.13	THS(0.003)DAS(0.997)DDEAFPTSK	3	0.37379	27517.5	27003.8
Esyt2	0.787958	1.29E-29	116.91	S(0.788)S(0.175)S(0.01)S(0.012)LL	3	0.64616	108962.0	105659.2
Farp1	0.928533	1.56E-14	81.157	S(0.929)LVS(0.071)QPT(0.001)APM	3	0.71351	57586.1	58476.5
LOC100911	0.997384	7.93E-12	63.302	GIS(0.997)LEEGALPDVS(0.001)AT(	3	-0.08555	1739.9	1908.3
RGD15611	0.999886	0.000106638	60.161	VPAPFS(1)PPPSK	3	0.37724	55971.3	56720.4
Col4a3bp	0.82456	1.05E-48	121.47	S(0.825)PS(0.175)MSSIDLVSASDD'	3	-1.2599	43000.9	45654.7
Epb41l3	0.91479	1.00E-44	138.46	VIS(0.085)QT(0.915)NLIT(0.625)T(	3	-1.8237	136013.2	137948.0
Dst	0.948616	4.55E-33	99.273	S(0.013)GS(0.037)AS(0.949)PAPGI	3	0.80782	20541.5	20533.1
Zfp608	0.999993	0.00018012	82.85	RGS(1)LNASGR	3	0.3529	9111.8	9476.9
Lphn3	0.989658	2.04E-08	105.66	STESS(0.01)IGS(0.99)GK	2	0.26759	7426.6	9020.0
Nefm	0.999914	2.37E-93	219.32	VSGS(1)PSSGFR	1	-0.54637	185115.8	189206.8
Map4k4	0.8169	3.94E-09	97.273	T(0.001)NHS(0.182)S(0.817)PEAQ	3	0.31732	28638.6	32408.3
Dopey2	0.945083	7.26E-17	69.361	S(0.052)DLS(0.945)EEDLPY(0.002)	3	-0.056107	24452.3	24587.3
LOC10091	0.998329	0.000151238	58.246	QMS(0.998)Y(0.002)GPPEQLER	2	-0.02507	8553.5	7901.4
Kcnh7	1	8.47E-05	66.267	HVS(1)DPGLPGK	3	0.19095	26775.7	25085.3
H1fx	0.998992	9.34E-23	110.31	GAS(0.004)AAS(0.997)S(0.999)PAI	2	-0.50917	137134.3	149268.2
Wdr11	0.973058	1.37E-14	79.393	VY(0.002)IS(0.973)S(0.995)PHCS(C	3	-0.77038	21999.0	23928.1
Prx	0.919682	5.15E-10	66.702	S(0.92)LS(0.074)LQEGDQLLS(0.00	2	-1.2905	13126.6	14338.9
Ralb	0.944855	0.00723233	41.242	S(0.055)QGS(0.945)LVLHK	3	0.27216	8153.8	9831.8
Epb41l3	0.900178	7.61E-09	60.621	S(0.9)VPS(0.05)T(0.05)LEGTEDWV	3	0.85	15882.9	16506.4
Ahnak	0.946979	7.33E-55	135.49	VS(0.049)VGT(0.947)PEVS(0.004)\	2	0.39821	57282.0	60155.9
Wdr20	0.91907	0.0032972	41.399	NHS(0.919)MGHIS(0.077)S(0.004)	3	1.8458	7764.9	7442.3
Stau2	0.939481	1.39E-14	85.563	GS(0.013)S(0.047)PT(0.939)PPCSS	3	0.14225	46277.2	47118.0
Usp31	0.554277	6.63E-08	57.288	FS(0.006)GDS(0.363)PIHGS(0.554)	3	0.9067	11117.6	10339.7
Trafd1	0.75488	2.46E-29	81.477	AMEGIPT(0.239)QDS(0.755)QPED	3	-0.40641	11205.1	9696.9
Tsc2	0.565215	0.000515558	66.023	S(0.015)S(0.019)S(0.081)AS(0.32)	2	-0.34312	23455.2	21303.2
Rgl1	0.99971	0.00695168	65.474	TSLT(1)MPR	2	-0.50754	12229.7	12752.7
Palm	0.526272	2.23E-05	51.31	KS(0.526)T(0.478)PVRS(0.989)PGC	3	0.4332	20361.4	20446.5
Zfp638	0.96064	4.20E-10	80.737	QSSVTQVT(0.039)EQS(0.961)PK	2	0.026555	18420.9	18219.8
Mfhas1	0.888788	1.00E-07	53.444	VNVALVY(0.013)PPT(0.004)PT(0.0	4	-0.12737	9216.4	8585.9
Vps37d	1	0.00038831	76.326	AGPEPGS(1)PGR	2	0.96573	4799.9	5314.4
RGD13071	0.67448	0.0560959	40.994	T(0.674)LS(0.316)KES(0.01)K	3	-1.007	19395.4	19164.2
Bcas1	0.871777	1.35E-53	97.057	EPAPCVQQPT(0.111)VEVNALQT(0	4	-0.44424	67525.9	64994.4

3730.9	3764.5	4012.1	4347.1	0.1	0.7	5453
25419.4	27324.1	30363.4	25216.0	0.1	0.6	1176
116035.3	112877.9	113778.5	116260.0	0.1	0.3	666
60051.1	61784.7	58118.2	62741.0	0.1	0.2	373
1823.5	1739.3	1998.4	1937.2	0.1	0.5	294
57200.0	59218.5	60028.9	56951.0	0.1	0.1	623
42167.3	42455.1	47065.2	46159.0	0.1	0.4	375
132824.7	137726.0	147804.1	136360.0	0.1	0.3	483;465;483;483
19300.9	20961.9	21209.4	20447.0	0.1	0.2	170
8721.4	9220.2	9190.6	9914.3	0.1	0.4	472
8882.4	7720.4	10176.6	8374.1	0.1	0.7	1144
176560.2	210477.3	183689.2	177210.0	0.1	0.6	30
30246.5	31274.1	33163.2	30253.0	0.1	0.5	519;550;550
23527.5	27122.8	23940.8	24204.0	0.1	0.4	1088
7822.8	8543.2	8463.2	8174.8	0.1	0.3	341
24512.3	26418.8	27531.5	25266.0	0.1	0.4	1188
134879.5	145106.7	146040.9	145820.0	0.1	0.3	134
20863.8	24510.4	22058.9	22709.0	0.1	0.5	204
13475.2	14657.0	13642.3	14167.0	0.1	0.3	56;56
9259.2	9749.7	9229.1	9281.6	0.1	0.6	11
16733.0	17913.9	15935.6	17105.0	0.1	0.4	873
73790.3	66305.6	70202.4	61862.0	0.1	0.7	5084
6635.5	8175.0	6854.7	7629.0	0.1	0.6	422
46470.6	48539.0	49400.2	47152.0	0.1	0.1	457
9940.1	10412.9	11057.3	11101.0	0.1	0.4	628
11694.0	11356.0	11548.8	10911.0	0.1	0.6	409
23644.6	21612.0	24578.8	24773.0	0.1	0.5	1285
12425.4	12684.7	13030.0	13094.0	0.1	0.1	653
20595.5	21055.4	22964.1	19684.0	0.1	0.5	152
16437.0	19598.0	19121.2	16349.0	0.1	0.6	128
7823.4	9186.0	8682.3	8718.6	0.1	0.5	1034
4256.7	5882.4	4629.2	4398.6	0.1	0.8	15
16494.5	18404.5	20561.8	18153.0	0.1	0.6	3927
76782.0	69645.0	72599.4	74913.0	0.1	0.5	588



Scn7a	0.970036	1.31E-14	121.56	ITYEPIT(0.003)T(0.027)T(0.97)LKR	3	0.044941	115252.2	136851.1
Cdc42bpa	0.94566	2.85E-08	61.127	IADS(0.016)APLPVHT(0.946)PT(0.016)PT(0.946)PT(0.946)	3	-0.24793	477.5	396.2
Eif4g3	0.788437	7.68E-39	82.639	ETQDKAEAES(0.006)DGQT(0.788)	4	0.069013	7111.1	7297.2
Mapk3	0.930275	2.69E-26	80.41	IADPEHDHT(0.93)GFLT(0.119)EY(C	3	1.2522	23368.2	23288.6
Bud13	0.999926	0.000413802	66.84	NSSAVS(1)PKR	3	0.44492	29163.4	30799.2
Cdc42ep1	0.997452	3.01E-14	145.09	RS(0.001)DS(0.997)LLS(0.001)FR	3	-0.3358	74457.8	68593.4
Palmd	0.994911	1.82E-07	83.877	S(0.005)EVS(0.995)PHENTNHK	3	-0.017202	46728.0	49666.1
Rnf130	0.837078	1.24E-06	51.39	S(0.837)ALGDLANDS(0.127)S(0.03	3	0.96296	6597.3	6400.7
Tbx2	0.983257	0.0002866	47.688	EPPPS(0.927)PS(0.09)AAPS(0.983)	2	-0.47883	7018.1	7232.5
G3bp2	0.724216	1.38E-38	80.02	HLEEELEKS(0.014)AT(0.247)PPPT(i	5	0.16746	17830.6	16908.9
Scn10a	0.993119	4.83E-33	93.388	VSEGSTDDNRS(0.993)PQS(0.006)I	3	0.77398	2861.7	3223.2
Ampd2	0.994048	0.000109942	71.176	S(0.994)LPGT(0.006)APCLK	2	-1.5551	48099.6	47753.1
Gys1	0.588175	7.18E-15	80.738	HS(0.588)S(0.588)PHQS(0.824)ED	4	0.056885	2238.7	2297.7
Snx29	0.995956	0.00100434	44.571	GHT(0.004)GHKES(0.996)PDR	4	-0.010929	18632.0	16911.1
Mpr1p	0.944206	4.10E-54	129.08	AEEQLPPLLS(0.049)PPS(0.944)PS(i	3	-0.50959	46791.2	44640.0
Atxn2	0.895142	0.000238447	44.998	AAT(0.895)PT(0.104)RPPS(0.001)F	4	1.0183	8358.9	7149.0
Sgip1	0.993006	9.19E-19	71.148	LPSISDLDS(0.007)IFGPVLS(0.993)F	3	0.84558	5492.2	5826.0
Srrm2	0.815352	0.0753026	43.77	S(0.023)GS(0.123)S(0.815)S(0.039	2	0.64399	3830.8	3754.2
Kdm5a	0.869778	0.000665145	50.305	VKS(0.87)QS(0.056)DS(0.074)GEV	2	0.76139	8370.8	7237.9
Tsc1	0.999852	3.62E-05	119.03	DSLSGS(1)QRK	2	0.26614	72916.8	75188.0
Rbmxml	0.929583	0.0117401	62.869	DS(0.93)Y(0.07)GGPPR	2	0.0066615	6436.7	6490.2
Tfe3	0.990769	1.06E-07	54.668	AAS(0.991)DPLLS(0.005)S(0.003)V	3	0.74919	12221.4	10538.8
Ubr5	0.996161	1.30E-05	113.38	RIS(0.996)QS(0.004)QPVR	2	0.12169	11512.5	10725.7
Uhrf1bp1	0.872092	3.71E-58	102.03	LKPS(0.001)AS(0.012)FGS(0.872)P	5	-0.62152	14537.6	13969.2
Arhgap39	0.7807	3.06E-30	127.32	KPS(0.178)S(0.781)ET(0.041)DIEN'	3	1.4217	47789.5	46122.0
LOC68570	0.995879	2.18E-22	148.18	SIGS(0.003)PES(0.996)T(0.001)PK	2	0.11564	83361.1	81903.3
Synm	0.997063	7.32E-120	180.7	ELYS(0.997)PS(0.003)GK	2	-0.25966	255865.5	240509.5
Tmpo	0.808159	0.0269484	57.532	AKT(0.192)PVT(0.808)LK	2	-0.031862	10370.8	10915.6
Zfp609	0.803915	5.83E-05	94.465	APS(0.196)LT(0.804)DLVK	2	0.58768	41440.8	41795.7
Cadps	0.935891	1.96E-32	97.621	AGGGRPS(0.06)S(0.936)PS(0.004)	4	0.62278	127879.1	132507.3
Ryr2	0.995525	4.68E-36	106.74	RIS(0.996)QT(0.003)S(0.001)QVSII	3	1.0248	39674.5	42019.5
Clasp2	0.990373	0.00168135	60.157	MVS(0.008)QS(0.99)QPGS(0.002)f	2	-1.3631	3635.9	4131.1
Larp4b	1	1.08E-06	78.69	LNREQNT(1)PPKS(1)P	3	0.62741	175789.0	178281.6
Rbbp6	0.841991	0.0135496	47.082	KS(0.034)NS(0.124)S(0.842)PPR	3	1.0092	7675.6	6903.9

137519.8	133172.1	144405.8	126670.0	0.1	0.6	1582
191.2	398.5	277.5	428.8	0.1	0.9	992
7092.9	6986.9	8357.4	6964.1	0.1	0.6	513
23479.6	22938.6	25045.8	24788.0	0.1	0.3	199
29500.2	30654.8	31780.4	30390.0	0.1	0.2	250
70729.5	74356.2	76879.3	70583.0	0.1	0.3	209
49686.8	49695.1	49451.5	52427.0	0.1	0.3	489
6315.8	6319.5	6749.8	6970.9	0.1	0.3	341
7391.5	6732.1	8273.2	7451.6	0.1	0.6	218
16998.1	17932.6	19403.4	16350.0	0.1	0.5	231
3043.7	3201.7	3050.8	3220.0	0.1	0.4	475
46135.2	47840.5	50320.3	49175.0	0.1	0.1	45
1906.0	2224.3	2148.6	2312.1	0.1	0.6	652
18736.6	18239.5	17334.5	20752.0	0.1	0.6	315
45975.5	47153.1	48595.5	46839.0	0.1	0.1	297;297
6441.1	7700.2	7092.3	7984.2	0.1	0.7	351
5084.0	5780.1	5624.7	5615.9	0.1	0.4	328
3942.0	4393.2	4108.1	3460.4	0.1	0.6	724
7032.4	8285.2	7174.6	8035.3	0.1	0.6	223
75778.0	75413.2	79561.6	77354.0	0.1	0.1	515
6253.4	7936.4	6104.7	5862.7	0.1	0.7	186
13213.3	12284.3	12882.5	12164.0	0.1	0.6	441
9500.7	10656.7	11002.8	11277.0	0.1	0.5	1284
13851.0	14323.7	14573.1	15060.0	0.1	0.2	756
48704.2	47952.7	50023.2	50025.0	0.1	0.2	685
81177.9	92204.1	86577.3	76967.0	0.1	0.5	1042
258250.2	256818.6	278328.3	247980.0	0.1	0.4	1073;1073
11652.5	11106.3	11765.8	11311.0	0.1	0.4	210
41337.9	42114.2	43168.9	43997.0	0.1	0.0	1057
121571.5	140607.8	132084.4	123700.0	0.1	0.5	89
41646.7	41727.0	43657.3	42623.0	0.1	0.2	2800
2874.6	4187.4	3384.7	3472.8	0.1	0.8	674
173919.9	181526.3	186179.1	180300.0	0.1	0.0	733
8064.0	7759.3	7504.4	8238.1	0.1	0.5	1499

Caskin2	0.858387	0.00119626	79.286	T(0.858)S(0.132)PS(0.009)LT(0.00	2	-1.0842	8611.9	9505.4
Sqrdl	0.57524	8.61E-09	60.489	KYPNVFGIGDCT(0.575)NLPT(0.362	3	-1.5689	15746.9	13914.4
Frmd6	0.995134	6.66E-15	79.837	TST(0.002)DRHS(0.995)LS(0.002)L	4	0.20992	7655.0	7950.7
Srgap1	0.971949	3.82E-05	56.017	DMNS(0.001)PT(0.003)DRHS(0.97	3	-0.8891	11538.8	10869.1
Myo18a	0.999583	5.87E-05	67.385	SEELS(1)LPEGK	3	0.73086	4848.7	5342.5
Prrg4	0.943036	2.09E-07	63.691	KHS(0.943)IS(0.057)PPPPYPGPAK	3	-3.7352	32512.4	34615.3
Pld1	0.752038	0.000573963	41.323	S(0.752)S(0.248)ENAIQEEQFFGR	3	0.099768	7824.5	8079.9
Scn7a	0.509301	1.03E-100	111.16	T(0.001)PVT(0.002)ES(0.03)ES(0.5	5	-0.017023	15273.5	14810.5
Fadd	0.989421	0.000903923	64.711	DSTVSFS(0.01)ET(0.989)P	2	0.5403	21323.9	22569.0
Ttbk2	0.987103	2.89E-15	80.316	DLQPLEPT(0.013)VELFS(0.987)PR	3	1.2112	16467.3	17888.5
Ythdc2	0.83568	0.000699728	46.069	S(0.836)PS(0.164)PALHPPQK	3	0.1484	2755.2	2174.5
Nipbl	0.561486	1.19E-26	82.267	GSRPPLILQS(0.001)QS(0.046)LPCS	3	1.1646	6386.6	6997.1
Trpv2	0.905187	6.16E-06	104.89	NS(0.095)S(0.905)PQIK	2	0.44459	145709.7	156924.6
Ankle2	0.911502	0.000633682	71.159	S(0.014)GS(0.912)PS(0.075)LGQK	2	2.6779	20139.6	19513.0
Ago2	0.991091	2.43E-05	69.03	S(0.001)AS(0.003)FNT(0.991)DPY(	2	-1.0515	13508.3	12390.7
Raph1	0.832517	3.10E-05	69.795	RPS(0.833)VDS(0.162)LVS(0.006)K	3	0.20488	14724.8	16431.8
Abca1	1	4.24E-23	107.72	DQSDDDHLKDLS(1)LHK	4	-0.78197	35403.5	38419.4
Zmynd8	0.561397	0.000825405	80.17	S(0.561)T(0.022)AS(0.148)PAS(0.0	2	0.16979	19426.4	18379.9
Prx	1	9.75E-36	110.6	GQEGDAAS(1)KS(1)PVGEK	3	0.36263	785260.2	850964.6
Fam129a	0.7838	1.76E-66	124.88	HNLFEDNMALPS(0.043)ES(0.784)\	3	0.5404	51443.8	48429.9
Itgb4	0.944784	2.79E-106	171.05	S(0.001)PAS(0.005)S(0.023)QRPS(	3	0.4358	38861.1	32894.3
Frmd4a	0.945626	6.74E-32	96.016	AAGALGSAS(0.003)S(0.052)GS(0.9	2	0.062558	17872.3	16697.2
Robo1	0.873391	0.000881428	40.432	KVPS(0.873)FT(0.115)FT(0.011)PT	3	-0.23494	5682.0	5496.5
Unc79	0.866088	7.86E-05	61.11	EFIS(0.121)GS(0.866)PLT(0.013)LK	3	0.81788	3084.4	2631.7
Cops8	1	8.45E-05	49.512	KPAPGALDVS(1)LNR	3	-0.84405	22034.8	20565.0
Prkd3	0.960323	9.08E-33	132.23	T(0.013)IS(0.96)PS(0.026)TSNNIPL	3	-0.46772	27694.0	26687.9
Zrsr1	0.999972	7.53E-06	114.89	ESERKS(1)PHR	4	-0.34996	22367.5	24803.4
Dgki	0.782289	2.24E-25	76.294	MLS(0.782)DS(0.217)GMIT(0.001)	4	-0.82448	13971.0	12940.3
Cep170	1	0.0013826	55.718	AES(1)PPADAK	3	-0.61489	43520.9	38280.1
Gas2l1	0.570331	2.50E-10	89.437	RS(0.57)S(0.429)RPEVTPISLR	3	-0.30497	16091.6	18147.4
Pde8a	0.995144	1.73E-07	87.99	RFS(0.995)GNEYT(0.004)LATK	3	0.82272	31120.6	31570.3
Zdhhc8	0.994105	2.12E-05	68.972	QGLPS(0.994)PPGT(0.006)PR	3	1.0117	22149.3	22570.1
Arhgap31	0.609935	0.000131777	45.614	S(0.383)MDS(0.61)LCS(0.007)VPV	3	0.11961	9564.7	9572.2
Ahctf1	0.639931	3.42E-21	123.42	T(0.001)T(0.006)S(0.007)LAS(0.57	2	1.2805	9657.0	9370.2

8910.5	9478.2	9663.9	8910.4	0.1	0.4	840
13774.3	13950.8	16157.9	14974.0	0.1	0.6	338
8014.6	8572.5	8367.2	7576.3	0.1	0.4	534
10127.4	10960.2	11707.0	11102.0	0.1	0.4	778
5519.2	5032.6	5914.2	5359.5	0.1	0.6	372
33722.5	34249.4	34362.2	36064.0	0.1	0.2	200
7342.1	8327.5	7875.9	7925.0	0.1	0.3	166
17680.5	16914.1	17209.4	15454.0	0.1	0.6	822
19359.4	24309.1	20910.2	20435.0	0.1	0.6	207
17912.6	17601.6	19199.3	17454.0	0.1	0.4	637
2213.3	2270.9	2708.8	2435.0	0.1	0.7	1175
7003.9	7422.3	7481.8	6258.8	0.1	0.6	305
134687.9	153455.4	152420.7	148080.0	0.1	0.4	47
19289.2	21447.0	19144.8	20592.0	0.1	0.4	690
13639.1	13544.9	13978.9	13519.0	0.1	0.3	394
15801.4	15853.7	17427.4	15465.0	0.1	0.5	1011
43137.2	33051.6	43100.5	45263.0	0.1	0.8	2174
18406.6	19338.4	20373.7	18646.0	0.1	0.3	467
873613.3	974201.3	817202.7	814230.0	0.1	0.6	1321;1321
53046.9	55979.1	51458.4	51321.0	0.1	0.4	578
39519.5	40584.1	40408.6	34531.0	0.1	0.7	1366
18145.8	18160.3	18354.0	18214.0	0.1	0.2	833
5756.5	5391.5	5731.0	6459.3	0.1	0.5	904
2661.2	3159.3	2796.4	2741.7	0.1	0.6	1634
22946.2	21674.7	22534.5	23842.0	0.1	0.4	175
26321.1	26647.6	27627.7	29514.0	0.1	0.3	391;403
17396.2	22044.3	25816.3	19176.0	0.1	0.8	389
14254.5	13778.1	15594.7	13368.0	0.1	0.5	881;902
45866.9	41701.7	46225.3	44626.0	0.1	0.6	470
16108.0	16631.4	17570.6	18072.0	0.1	0.5	315
31959.5	32370.7	34479.8	31423.0	0.1	0.3	383
24639.0	22860.5	25216.8	23937.0	0.1	0.4	672
11095.7	10697.7	10706.7	9986.1	0.1	0.5	349
9916.3	9336.1	9920.1	10796.0	0.1	0.5	1216

Nhsl2	0.892868	0.000443606	62.077	T(0.893)IIGFS(0.024)NFS(0.083)QF	2	1.8957	12050.8	11719.4
Ubr4	0.693525	1.23E-11	46.392	T(0.001)S(0.001)PADHGGG(0.077)	4	-0.36515	9952.0	11483.6
Ank2	0.997665	0.000439644	49.298	HLPVS(0.998)PGKT(0.002)EK	4	1.4345	30264.2	30096.1
Map3k5	0.830819	2.45E-10	47.12	TLFLGIPDENFEDHS(0.169)APPS(0.	4	-0.78354	11218.8	12576.1
Ncoa7	0.811107	4.96E-30	119.45	VLS(0.811)S(0.153)T(0.03)S(0.006	2	0.93256	4906.0	5443.2
LOC10091	0.918884	2.34E-07	56.553	RNS(0.919)CNVGGGS(0.079)GGG(i	3	-0.31525	18644.0	18877.9
Pja2	0.753539	7.11E-16	61.03	QT(0.016)ENS(0.754)T(0.23)EDAD	3	-0.23331	6089.5	5079.5
Ankrd11	1	0.008318	66.92	EVLPAS(1)PR	2	0.33663	14996.8	13995.5
Klf3	0.992314	1.45E-18	76.084	RAS(0.992)PGLS(0.007)MPSSSPPIH	4	0.25958	22654.9	24432.7
Ube3b	0.596349	2.03E-10	48.626	LLEPPEPVPAQPQPS(0.325)S(0.596	4	-0.46186	8545.4	8981.5
Pcm1	0.5	1.51E-17	72.058	RS(0.5)S(0.5)LVDEAPEDEEFQK	3	-1.5018	10307.3	15148.4
Pcm1	0.5	1.51E-17	72.058	RS(0.5)S(0.5)LVDEAPEDEEFQK	3	-1.5018	10307.3	15148.4
Tbc1d9b	0.927633	0.000201241	84.297	VIQS(0.928)LEDT(0.072)AK	2	-1.8611	14529.2	14805.1
Frmd4a	0.993767	0.00129067	43.761	T(0.003)DY(0.003)DKS(0.994)PLKF	4	-0.63753	20533.2	20027.5
Ubr4	0.928884	2.32E-129	149.45	TSPADHGGGSGGSAVDSVAGE	3	1.6164	9366.8	9627.1
Plekhg2	1	5.63E-24	96.153	APS(1)PPPQPQPAPPAR	3	0.89194	13173.1	13380.2
Ddx46	0.977557	0.0013031	42.059	S(0.978)KEKAEGGDS(0.017)S(0.00	3	0.36692	19626.7	21240.7
Trio	0.5	7.59E-10	96.464	S(0.5)S(0.5)MEMEGIFNHK	3	-1.6105	62046.8	62134.7
Trio	0.5	7.59E-10	96.464	S(0.5)S(0.5)MEMEGIFNHK	3	-1.6105	62046.8	62134.7
Sh3bp1	0.999191	3.89E-15	86.367	ERTES(0.001)ELPKPAS(0.999)PK	4	-0.14976	98866.0	93841.1
Synpo	0.999992	4.35E-17	139.02	VASLS(1)PAR	2	0.070672	16863.3	16681.9
Nefl	0.5	0.000333436	59.614	AAKDEVS(0.5)ES(0.5)RR	2	-0.18414	5545.1	4537.2
Dact2	1	0.0474864	41.242	T(1)KEALQQS(1)R	3	0.27639	3267.9	3038.9
Dact2	1	0.0474864	41.242	T(1)KEALQQS(1)R	3	0.27639	3267.9	3038.9
Dmd	0.864439	8.46E-10	54.511	GLS(0.135)PLPS(0.864)PPEMMPT	3	0.33084	15113.6	16740.0
Sh3pxd2a	0.779097	0.00223007	54.343	NS(0.294)PKS(0.779)DS(0.927)PK	3	-0.68472	14850.1	15224.1
Sh3pxd2a	0.926639	0.00223007	54.343	NS(0.294)PKS(0.779)DS(0.927)PK	3	-0.68472	14850.1	15224.1
Ptpdc1	0.998745	0.000502798	105.13	RGS(0.999)GS(0.001)ATK	2	-0.011449	77494.3	69037.6
Tle3	0.786442	5.05E-12	64.522	ERES(0.016)S(0.016)T(0.016)NNS(	3	-0.36435	2991.8	2988.1
Nln	0.989158	2.62E-06	52.72	ELAS(0.989)PLQAMS(0.007)S(0.00	3	0.35749	4360.8	4707.3
Plekhm1	0.7327	0.000235006	66.27	LVVS(0.004)S(0.027)PT(0.733)S(0.	3	-1.9212	39104.4	39208.1
Synm	0.951802	1.95E-69	136.53	TEQVSYGGPT(0.048)S(0.952)PVVE	3	0.31204	126400.2	118960.4
Inpp4b	0.99999	9.77E-17	130.77	SSQHDS(1)PQQLR	3	-0.84985	17146.0	17087.7
Epb41l2	0.65618	1.66E-12	68.751	ASQPGPT(0.656)AES(0.059)QS(0.1	3	-0.41376	2206.9	1852.4

10783.8	11845.5	12326.8	11707.0	0.1	0.4	307
11744.1	9522.9	12387.7	12542.0	0.1	0.7	2934
30548.8	31760.2	32720.8	29919.0	0.1	0.2	1951
11118.1	11811.4	11916.4	12526.0	0.1	0.4	1040
5159.7	5665.0	5261.5	5178.0	0.1	0.4	123
16009.0	18324.2	19134.1	18129.0	0.1	0.5	126
5758.1	6173.6	5751.8	5652.1	0.1	0.6	281
15941.9	13332.6	16651.6	16678.0	0.1	0.7	1639
23695.7	23902.1	26256.6	23347.0	0.1	0.4	91
9381.8	9777.8	8421.4	9744.6	0.1	0.5	421
11340.6	13585.6	11287.0	13339.0	0.1	0.8	644
11340.6	13585.6	11287.0	13339.0	0.1	0.8	645
13295.2	14347.9	13692.5	16230.0	0.1	0.6	762
19461.7	21483.3	22082.5	18768.0	0.1	0.5	638
9451.1	9860.7	10581.5	9098.5	0.1	0.4	2951
13029.1	12559.3	14725.9	13822.0	0.1	0.5	1239
14900.7	18859.9	22713.0	16344.0	0.1	0.8	120
60847.5	63006.8	66663.1	62492.0	0.1	0.2	1684
60847.5	63006.8	66663.1	62492.0	0.1	0.2	1685
108912.9	96668.9	106589.7	109990.0	0.1	0.6	475
19615.0	18382.5	20183.5	16644.0	0.1	0.6	528
4558.7	5270.7	5334.9	4600.0	0.1	0.7	309
2850.6	2963.2	3530.4	3017.0	0.1	0.6	29
2850.6	2963.2	3530.4	3017.0	0.1	0.6	22
15572.5	16462.0	17351.6	15442.0	0.1	0.5	460
14949.7	15011.2	17075.9	14674.0	0.1	0.5	608
14949.7	15011.2	17075.9	14674.0	0.1	0.5	610
68956.9	68669.4	73735.4	81401.0	0.1	0.6	70
3072.7	2781.2	3089.6	3531.4	0.1	0.6	200
4611.4	4647.5	5108.0	4452.5	0.1	0.5	9
36468.2	39340.1	39396.6	40480.0	0.1	0.2	344
127874.1	127573.3	133398.8	126690.0	0.1	0.2	1145
16046.3	17073.6	17609.1	17541.0	0.1	0.2	484
1990.8	2135.5	2066.7	2082.0	0.1	0.5	52;52;52



Sntb2	0.77598	3.65E-12	98.508	S(0.218)PS(0.776)LGS(0.006)DLTF.	3	0.213	15101.7	15667.2
Rasal2	0.822321	0.000419083	61.11	RS(0.173)S(0.822)HS(0.004)EDFSR	3	1.4942	2243.5	2576.3
Map9	0.999762	9.09E-14	92.8	ESPGGCISPGRS(1)QEK	3	0.23219	11299.6	11506.6
Cic	0.999794	1.11E-06	89.43	ART(1)PLTAAQQK	3	0.70901	18206.3	17517.7
Edc4	0.739642	8.46E-111	150.43	S(0.74)PDVIS(0.245)S(0.013)AS(0.1	3	0.037703	59517.1	60381.9
Ssh1	1	0.00653841	57.164	KLEFGS(1)PK	3	0.86867	18703.6	15805.4
Arhgef28	0.885751	4.83E-10	63.374	AVT(0.07)S(0.886)LES(0.042)EGDS	2	-0.024355	25672.4	25622.8
Map2	0.603773	1.63E-12	69.805	AGVIQT(0.118)S(0.604)T(0.278)EF	3	-0.31164	19985.7	20452.0
Prkd3	0.6554	2.32E-15	83.393	LS(0.655)NGS(0.344)FSAASLTNSR	3	1.0565	6979.0	6432.9
Hn1l	1	0.0193318	57.785	GADGQAS(1)K	2	1.5858	7068.1	6059.7
Tlk1	0.788722	3.00E-05	56.527	KAESQNES(0.211)S(0.789)QGK	4	-0.075365	31095.5	27748.7
Thrap3	0.556931	0.0253074	70.332	SSFS(0.443)IT(0.557)R	2	0.21647	21174.8	18360.2
Zfp646	0.523055	3.78E-11	53.197	RPGEHS(0.523)PGRPECS(0.42)EVT	5	-0.39813	8524.7	8744.5
Hepacam	0.996775	8.77E-21	105.03	QNS(0.003)LEY(0.997)MDQNDDR	2	-0.99258	156861.2	170241.2
Bace2	0.942876	1.06E-12	67.396	DPEVVNDES(0.057)S(0.943)LVR	2	2.2968	19955.9	20659.3
Cdk5rap2	0.752488	4.75E-22	89.831	DLS(0.752)PS(0.244)RYDS(0.003)L	3	0.47508	8162.8	9320.8
Rgs14	0.818992	0.000221575	49.721	S(0.819)LGS(0.149)GEGES(0.028)E	3	-0.33687	6884.6	5497.6
Ubr4	0.970901	0.000256831	87.568	HVT(0.03)LPS(0.971)S(0.999)PR	2	0.25476	8954.4	8821.8
Glyr1	0.743723	0.0139674	48.513	RVT(0.744)S(0.183)GS(0.073)ADR	3	-0.31741	3752.3	4683.8
Mon2	0.79698	2.09E-27	100.39	RDEQS(0.797)ES(0.203)DHMDQET	3	-0.64522	5158.2	4209.4
Fkbp1a	0.949309	2.28E-10	86.539	GVQVETIS(0.051)S(0.949)GDGR	3	0.74725	49916.0	52645.3
Rims2	0.946629	9.69E-26	110.35	S(0.947)AS(0.05)QLS(0.003)QT(0.0	3	-1.1153	84925.9	75189.1
Glcci1	0.963689	3.63E-05	64.565	S(0.964)IDT(0.02)QT(0.012)PS(0.0	2	-0.68085	11713.5	10542.7
Skiv2l	0.999775	7.02E-51	171.49	ASS(1)LEDLVLK	2	0.77677	258203.2	239237.1
Ehd2	0.999642	5.38E-53	88.09	GPDEAIEDGEEGS(1)EDDAEWVVTK	3	-0.020523	416662.6	388768.6
Hspb1	0.846129	1.20E-21	86.557	AVT(0.148)QS(0.846)AEIT(0.006)II	2	-1.0824	22777.8	23758.1
Zc3h13	0.718763	7.93E-06	82.651	S(0.02)LS(0.719)PS(0.185)HLT(0.0	2	-0.59364	9916.7	11452.9
Habp4	0.999988	2.27E-15	87.447	S(1)PAVASGHRPGAAGR	3	-0.031743	24803.0	26729.6
Ptpn13	0.996157	0.00174675	84.896	S(0.996)MGFLS(0.004)VR	2	0.35793	8737.8	8700.9
Yeats2	0.997431	0.0112213	100.09	FLES(0.997)PS(0.003)R	2	-0.22461	18618.9	18904.2
Prkag2	0.889026	4.30E-08	94.688	EVS(0.108)S(0.889)PGGS(0.002)SC	2	0.13069	8022.0	8416.8
LOC10036	1	0.00497063	47.187	EAGDRS(1)PEK	3	-0.20047	9673.6	10801.1
Tanc2	0.940804	1.86E-27	104.84	S(0.941)LPS(0.257)S(0.802)PLLTHC	3	-0.7965	14260.9	14089.9
G4	1	0.022623	46.457	RMDS(1)LKK	3	0.60099	20008.4	21623.5



15399.0	16435.6	16429.3	15089.0	0.1	0.3	377
2575.8	2485.7	2490.8	2705.3	0.1	0.5	835
10404.7	11280.1	11266.7	11949.0	0.1	0.4	260
18434.3	17919.4	19884.3	18450.0	0.1	0.3	469
59788.2	61407.5	64878.4	60354.0	0.1	0.2	734
17324.9	17629.1	18767.5	17444.0	0.1	0.5	437
24569.8	27618.9	25820.6	25363.0	0.1	0.3	772
22017.9	21605.4	19782.7	23488.0	0.1	0.5	556;470
5839.6	6791.5	6489.9	6716.5	0.1	0.5	41
5845.8	6101.6	7996.4	5611.4	0.1	0.8	10
27828.7	30736.2	30816.5	28483.0	0.1	0.5	101
20131.3	20656.1	20738.1	20588.0	0.1	0.4	561
8520.5	8881.6	9164.2	8745.0	0.1	0.1	1407
162389.8	178347.5	166281.0	163870.0	0.1	0.3	273
22140.3	19666.2	23019.7	22507.0	0.1	0.5	443
8280.9	8912.0	8721.2	9132.0	0.1	0.4	1241
6115.5	6064.5	7634.4	5517.6	0.1	0.8	286
8685.6	8943.0	9597.5	8949.6	0.1	0.2	2757
3853.4	4394.4	4393.7	3979.0	0.1	0.7	148
4836.8	5018.9	4894.5	4843.6	0.1	0.6	532
50781.3	50674.0	57128.6	51506.0	0.1	0.4	10
71882.5	81641.2	80809.8	78584.0	0.1	0.5	1118
11934.6	11430.8	12038.3	12054.0	0.1	0.4	228
237936.8	255223.6	260727.7	248090.0	0.1	0.3	250
554061.0	494893.9	406170.2	511430.0	0.1	0.8	438
25958.1	25131.9	25213.6	24975.0	0.1	0.4	180
10956.2	10867.3	12299.0	10420.0	0.1	0.6	949
25536.5	25083.5	27706.7	27286.0	0.1	0.4	74
8619.4	8949.1	9310.8	8815.5	0.1	0.1	240
17954.1	19473.7	18531.4	19638.0	0.1	0.2	118
8006.7	9182.5	8054.2	8163.4	0.1	0.5	16
10274.9	10705.6	10724.9	10520.0	0.1	0.3	87
14020.3	15073.8	14936.4	14016.0	0.1	0.2	84
19464.8	20252.5	23525.1	19706.0	0.1	0.6	89

Slc4a7	0.637004	0.00145073	89.827	T(0.068)S(0.068)S(0.637)T(0.148)\	2	0.99647	19945.2	18132.0
Hs1bp3	0.866189	0.00111876	76.843	GPT(0.017)S(0.117)S(0.866)PEHR	2	-1.5205	9187.4	9920.3
Arhgef7	0.933156	5.03E-33	133.24	IKS(0.933)FDS(0.067)LGSQSSHSR	3	-0.23129	44720.7	43672.6
Mink1	0.596534	1.23E-62	110.78	T(0.025)S(0.03)S(0.597)IAT(0.348)	3	0.12348	49688.2	46718.7
Thrap3	1	7.64E-29	107.56	ERS(1)PALK	2	-0.6402	152925.4	154039.7
Kcnab2	0.805113	0.0440567	50.703	S(0.004)S(0.003)LVIT(0.805)T(0.1E	2	4.4224	3662.2	3268.0
Bcl9l	0.997438	1.41E-09	93.348	T(0.002)AMPS(0.997)PGVSQNK	3	-0.33849	35156.6	35682.6
Pnn	0.945892	0.00225976	46.001	S(0.005)IS(0.032)ES(0.951)S(0.94E	3	0.36063	13061.0	14309.3
Prrc2a	0.875635	3.06E-10	99.844	GT(0.006)S(0.118)PGS(0.876)ELPP	2	-4.0369	44962.8	45671.1
Akap1	0.65377	6.15E-05	50.944	S(0.063)ES(0.181)S(0.654)GNLPS(	2	-0.96158	18005.9	17480.4
Cplx2	0.994458	3.11E-31	129.88	AALEQPCEGS(0.994)LT(0.006)RPK	4	-0.28637	56077.4	50074.2
Dennd2a	0.657798	4.33E-08	49.425	Y(0.003)S(0.339)S(0.658)LDRDLIE\	3	0.1626	5052.9	6476.7
Pnpo	0.984849	6.53E-58	102.39	GLAT(0.008)GDS(0.985)PLGPMT(C	4	-0.72634	2814.4	2721.7
Uba1	1	1.47E-10	51.252	RVS(1)GPDPK	2	0.020745	122213.9	106712.3
Dcp1a	0.98914	1.69E-47	84.809	QKS(0.989)PLLNPVPELS(0.007)H	4	-1.1861	16401.7	16138.9
Vezt	0.96995	0.0207456	45.653	VS(0.03)AACS(0.97)FNK	2	-0.64607	9975.7	11780.9
Nop58	0.516002	2.23E-53	96.848	HIKEEPLS(0.277)EEEPCT(0.516)S(C	4	0.27457	49982.8	49127.5
Map7d2	0.871001	0.00441888	109.88	RS(0.027)S(0.102)S(0.871)PVK	3	-1.063	25826.3	25852.1
Srgap3	1	6.09E-09	122.45	LRS(1)DGAAIPR	2	-1.0921	68636.3	70269.5
Wdr7	0.997601	5.23E-08	59.975	GPT(0.001)RPPRPGT(0.998)PDLS(	4	-0.17229	11081.2	9833.3
Stau2	0.999446	3.30E-10	83.692	VTSGTTLGY(0.001)LS(0.999)PK	2	0.47836	32550.6	34707.5
Scn7a	0.906102	3.43E-26	79.236	ENIS(0.006)GHT(0.906)LS(0.088)E	3	0.74719	13522.6	13437.2
Git1	0.606122	1.21E-20	68.9	KGVS(0.171)AS(0.171)S(0.606)VT(	3	-1.3031	15991.4	13730.1
Gemin5	0.999983	1.57E-06	79.86	APS(1)QPPS(0.992)PT(0.008)EER	3	0.17064	25197.7	25702.9
Eif2ak3	0.974594	6.45E-05	68.262	S(0.019)RS(0.975)LS(0.006)SSGTK	3	1.0159	19898.7	19579.9
Stxbp5	0.999967	1.24E-57	103.75	GLFGGGAQS(1)LDREELFGESSSGK	4	2.2854	25592.5	24894.5
Speg	0.858639	0.00283354	42.068	GT(0.026)QDS(0.859)PAQS(0.116)	2	0.93733	1749.5	942.8
Nsd1	0.998209	0.00617337	69.672	S(0.002)IGAAS(0.998)PK	2	-0.48349	15887.7	16326.5
Rims2	0.842789	6.14E-21	77.037	T(0.041)GS(0.156)VQT(0.843)S(0.8	3	-0.009215	13666.9	14751.3
Rab11fip5	0.847379	2.12E-53	129.51	GS(0.001)HGT(0.021)S(0.13)S(0.8	4	-0.83728	10313.0	9609.9
Lpar1	0.582571	1.36E-15	64.27	S(0.192)AS(0.583)S(0.192)LNHT(0	3	-0.87281	69363.9	68392.6
LOC100911	0.988118	2.79E-15	103.8	ALNAET(0.026)PKS(0.988)S(0.986)	4	0.23293	179724.9	184643.7
Cast	0.993623	7.68E-86	106.61	NEAIT(0.006)GPLPDS(0.994)PKPM	5	0.30979	17160.3	14072.3
RT1-A2	0.930569	2.61E-15	87.157	DS(0.066)S(0.931)QS(0.003)SDVSI	3	-0.25614	8750.2	7607.4

18506.7	18672.9	20775.5	19346.0	0.1	0.4	31
9210.4	9773.0	10440.7	9211.7	0.1	0.4	294
43444.8	47112.4	44871.3	45011.0	0.1	0.1	72
51701.1	49588.4	54372.6	49940.0	0.1	0.4	687
153936.6	159912.1	168300.7	150720.0	0.1	0.3	248
3028.1	3773.1	3695.9	2879.0	0.1	0.7	116;146
35403.6	40127.6	35704.5	34570.0	0.1	0.5	963
11951.7	13657.1	14845.6	12359.0	0.1	0.6	707
43989.9	46666.9	48313.4	44920.0	0.1	0.2	381
18679.1	18330.8	18224.7	19733.0	0.1	0.3	104
56651.7	57670.9	58367.2	53147.0	0.1	0.5	93
5522.5	6215.5	5677.9	5827.3	0.1	0.6	541
2945.3	2913.9	2842.2	3058.0	0.1	0.3	241
121252.1	122183.5	121312.5	120420.0	0.1	0.4	13
18168.1	17115.4	18117.8	17465.0	0.1	0.4	372
12177.4	11051.3	11069.0	13145.0	0.1	0.7	247
48642.4	49707.2	54122.5	49723.0	0.1	0.3	450
26388.2	26158.1	30802.6	24172.0	0.1	0.6	316
68489.5	72200.3	72813.1	70529.0	0.1	0.0	834
8392.7	10331.7	10564.4	9562.8	0.1	0.7	926
29744.0	33135.2	34193.4	33488.0	0.1	0.4	408
13814.8	14637.2	14365.8	13376.0	0.1	0.3	792
16980.0	16396.0	16955.1	15188.0	0.1	0.6	573
22504.4	26389.1	24748.7	25156.0	0.1	0.4	1404
18002.0	19880.7	21992.7	17870.0	0.1	0.6	940
25513.1	25254.0	27117.9	26620.0	0.1	0.2	1023;1006
771.3	1226.0	914.4	1459.7	0.1	0.9	2691
15980.3	17405.8	17050.2	15637.0	0.1	0.3	2015
14748.5	13558.1	17664.7	13645.0	0.1	0.7	913
11082.9	9951.4	11574.5	10702.0	0.1	0.6	395;395
63384.5	72529.1	76736.1	59805.0	0.1	0.7	346
174803.6	186520.2	192933.0	180980.0	0.1	0.2	191
16258.1	17127.5	15979.4	16257.0	0.1	0.6	245
8276.0	8494.1	7823.8	9287.6	0.1	0.6	354

Prph	0.774617	1.50E-21	72.21	EQHS(0.003)ELDKS(0.775)S(0.191)	3	0.50996	16815.6	15643.1
Tsc2	0.999502	1.79E-05	121.29	STS(1)LNERPK	2	-0.16881	112636.6	106762.7
Nufip2	0.586022	7.61E-47	105.79	DYEIENQNPLAS(0.165)PT(0.249)N	4	0.39497	45231.2	44526.0
Anks1a	0.560595	9.78E-11	51.66	S(0.212)LS(0.561)KS(0.093)DS(0.1	4	0.41718	11598.7	11243.4
Irf2bp1	0.907342	5.58E-36	100.76	AGGAS(0.907)PAAS(0.04)S(0.04)T	4	0.15774	31288.8	29080.3
St5	0.907282	4.62E-07	78.191	RPS(0.907)RT(0.093)EPSALLR	3	1.0612	16064.2	15598.1
Msn	1	0.000713603	51.009	EALLQAS(1)RDQK	3	-0.35164	26072.0	22580.0
Sept4	1	4.71E-70	118.97	VARPQILEPRPQS(1)PDLCDDDVEFF	4	-0.079612	48424.0	47823.3
LOC10036	0.982811	1.15E-06	58.814	IS(0.983)DAHLADT(0.017)MIGK	3	1.6165	3304.2	3820.0
Frmd4a	0.925012	0.00305446	55.98	VRS(0.062)PHY(0.925)VHS(0.011)	4	0.95558	4370.5	4244.2
Rgs3	0.999564	2.80E-57	169.52	RTHS(1)EGSLLQEAR	3	-1.0203	72427.8	72048.7
Map1b	0.993411	1.08E-06	92.19	VES(0.001)KPS(0.993)VT(0.006)EK	4	-0.093236	101039.0	96846.6
Ulk1	0.98599	8.57E-11	63.302	IEQNLQS(0.986)PT(0.014)QQQTAI	3	1.7357	6297.7	7157.7
Plekha6	0.499913	6.77E-06	58.164	KDPGQT(0.5)S(0.5)PLDTHR	3	0.16907	50687.7	49700.1
Exoc1	0.778217	1.57E-16	142.89	LTGS(0.03)T(0.516)S(0.778)S(0.67	2	-1.0434	169205.4	151001.3
Ppfbp2	0.616269	0.00759897	41.051	KLS(0.616)CS(0.384)LEDLR	3	0.33614	14406.4	13684.0
Map2k2	0.975762	8.53E-05	98.898	LKQPS(0.012)T(0.976)PT(0.012)R	3	0.079683	58084.7	55180.3
Htt	0.980239	0.00426168	61.344	HS(0.007)LS(0.98)CT(0.013)K	3	0.14457	22572.7	22236.7
ltpkb	0.84008	6.19E-12	103.72	LGT(0.027)QS(0.84)PS(0.131)T(0.0	2	-2.2281	21541.0	19881.6
Asap1	0.984133	9.04E-41	127.32	T(0.014)LS(0.984)DPPS(0.002)PLP	3	0.15636	33969.9	34311.5
G3bp2	0.772252	8.74E-11	59.975	S(0.772)AT(0.2)PPPT(0.022)EPAS(I	3	-0.14317	25315.8	26462.0
Nek4	0.990272	3.93E-26	74.516	LIHGLS(0.99)EDELS(0.007)S(0.002	4	-0.29863	16940.8	16498.7
Topbp1	0.994006	0.00234617	68.107	KLDDS(0.994)PS(0.006)R	3	-0.61302	28564.7	25214.8
Epb41l1	1	0.00579272	42.426	AGLREGS(1)EEK	3	1.0199	5540.4	5402.7
Ralgps2	0.523247	1.10E-08	56.332	KS(0.523)S(0.451)AAEGALLPQT(0.	3	0.073853	32570.9	32293.2
Ablim2	0.983038	8.58E-61	168.55	RLDVEDS(0.017)S(0.983)FDQDSR	3	-0.53455	47629.7	47761.9
Kif21b	0.960591	2.61E-23	93.583	STDIGFT(0.996)PPS(0.043)S(0.961	3	-1.5293	92089.2	102831.4
Kif21b	0.996001	2.61E-23	93.583	STDIGFT(0.996)PPS(0.043)S(0.961	3	-1.5293	92089.2	102831.4
Epb41l1	0.709132	1.21E-128	203.53	ADS(0.29)S(0.709)DET(0.001)DTSF	2	0.34855	17896.2	18590.5
Ccnl2	0.645739	1.17E-16	55.662	GLLPPGS(0.008)APGLDS(0.646)AT	5	-0.48739	8694.4	9311.7
Ccnl2	0.637451	1.17E-16	55.662	GLLPPGS(0.008)APGLDS(0.646)AT	5	-0.48739	8694.4	9311.7
Ccnl2	0.649346	1.17E-16	55.662	GLLPPGS(0.008)APGLDS(0.646)AT	5	-0.48739	8694.4	9311.7
Ralgapa1	0.847518	3.17E-31	89.189	GS(0.151)S(0.848)PGS(0.001)LEIPI	3	-0.39516	28687.5	29379.8
Stk25	0.875166	1.53E-12	66.536	GFAHQHS(0.875)RVDPEELFT(0.12	4	0.17296	9047.8	8985.6

17559.1	17842.4	18178.7	15970.0	0.1	0.5	501
106234.2	114934.8	117785.9	105760.0	0.1	0.4	880
43983.6	45278.7	50229.5	43513.0	0.1	0.4	629
12021.9	11644.2	13270.4	11326.0	0.1	0.5	81
29673.7	31787.7	31422.4	30388.0	0.1	0.2	453
15425.6	16182.6	17504.4	15261.0	0.1	0.4	275
23379.5	24041.8	25585.5	25250.0	0.1	0.5	407
46634.5	50972.1	49450.4	48105.0	0.1	0.1	398
3315.7	3807.7	3719.3	3325.5	0.1	0.6	124
4691.8	4592.2	4734.1	4506.0	0.1	0.3	717
70674.1	67084.3	81379.4	75193.0	0.1	0.5	713
97455.2	103025.5	95527.1	108470.0	0.1	0.4	601;475
7309.7	6650.8	7546.7	7389.2	0.1	0.5	450
47985.5	50701.5	50891.0	52652.0	0.1	0.1	992;308
151125.9	166632.9	160991.2	162360.0	0.1	0.4	472
15160.5	14701.0	15876.8	14385.0	0.1	0.4	234
65288.1	61738.5	61986.7	61898.0	0.1	0.5	394
20222.9	22391.9	23854.3	21362.0	0.1	0.5	1708;1829
21186.4	20407.6	22814.5	21867.0	0.1	0.4	255
34584.9	33824.9	37538.3	35579.0	0.1	0.3	851
25416.2	27488.0	26784.5	25983.0	0.1	0.1	225
18128.7	19110.7	18490.7	16012.0	0.1	0.6	630
27518.9	28634.2	29004.1	26887.0	0.1	0.4	1188
5386.2	6152.8	5850.2	4974.6	0.1	0.6	1236;1228
31105.6	39938.4	29825.9	30016.0	0.1	0.7	315
46824.0	50290.2	53128.7	44446.0	0.1	0.5	453;516
98675.3	96961.4	104554.0	103750.0	0.1	0.4	1238
98675.3	96961.4	104554.0	103750.0	0.1	0.4	1234
19202.9	18894.0	21022.4	17987.0	0.1	0.5	767;759
8009.7	8685.6	8975.0	9389.4	0.1	0.5	324
8009.7	8685.6	8975.0	9389.4	0.1	0.5	330
8009.7	8685.6	8975.0	9389.4	0.1	0.5	326
26051.8	29088.4	31225.8	27149.0	0.1	0.5	860
7654.1	8671.9	8575.5	9461.4	0.1	0.6	12

Akap11	0.903086	6.12E-05	85.355	S(0.006)LS(0.08)S(0.903)S(0.011)E	3	0.21153	12320.4	13100.5
R3hdm2	0.802863	5.01E-51	160.45	S(0.026)AS(0.803)T(0.171)DLGTAL	3	-0.53863	55617.0	53815.7
LOC68570	0.83968	1.88E-07	71.879	S(0.006)GYMS(0.84)DS(0.155)DLN	3	0.35208	33980.6	33858.5
Triqk	0.642215	1.99E-13	99.909	DS(0.006)S(0.183)T(0.169)T(0.642	3	0.54936	21232.1	23638.5
Sh3d19	0.899584	4.57E-05	79.283	RES(0.9)FS(0.053)S(0.048)HCAK	3	-0.66703	70557.7	68786.4
Zc3h13	0.99446	1.53E-15	84.753	GNPETHEDS(0.006)QVFS(0.994)P	4	0.37488	5266.2	5334.3
Bin2	1	0.00068084	46.132	EHS(1)PPGEVVLIR	3	0.52699	8081.4	8111.5
Gemin5	0.811447	1.02E-27	123.92	LPIKQDS(0.811)S(0.188)IGNEDESV	3	1.3534	47951.7	44626.9
Stxbp5	0.996307	1.92E-27	80.355	QPS(0.996)GAGLCDIT(0.004)EGTV	3	0.10174	7751.7	7206.4
Akap1	0.693833	1.20E-05	62.438	S(0.694)ES(0.238)S(0.068)GNLPSI	3	-4.0394	1844.8	2510.1
Ubxn1	0.59059	1.45E-66	126.42	S(0.407)S(0.591)PPAT(0.003)DPGF	4	0.32429	85320.7	88299.5
Phtf1	1	2.23E-06	83.087	DNGNNS(1)PDKIR	2	0.49631	25082.0	24846.2
Snx16	0.732031	3.02E-20	100.58	SSS(0.034)FGS(0.187)VS(0.732)T(C	2	-0.3522	18205.1	14915.8
ltpkc	0.957891	4.15E-37	104.26	LIIT(0.007)S(0.035)ES(0.958)PEPG	3	0.41055	18410.2	20789.8
Prph	0.99917	1.46E-43	152.34	ISVPVHS(0.999)FAS(0.001)LSLK	3	0.47573	58355.4	53940.8
Pqlc1	0.993903	3.10E-71	168.05	SFAAT(0.006)DS(0.994)KDEELRVP	3	-0.61961	457881.6	473669.8
Osbpl11	0.635437	0.00229274	41.621	S(0.002)FS(0.024)LAS(0.635)S(0.6	2	0.45443	5505.8	7184.4
Osbpl11	0.634866	0.00229274	41.621	S(0.002)FS(0.024)LAS(0.635)S(0.6	2	0.45443	5505.8	7184.4
LOC10091	0.859263	0.000106752	85.729	RAPS(0.141)PGS(0.859)YK	3	-0.022738	29479.5	27316.5
Cep131	0.639833	8.77E-06	84.169	S(0.001)VS(0.096)VAT(0.64)GS(0.2	2	0.74226	12502.9	10546.6
Tcf20	0.723761	5.34E-15	84.653	QLS(0.724)GQS(0.239)T(0.036)S(0	3	0.82234	16676.0	17328.0
Mbp	0.983235	2.19E-13	118.08	GAYDAQGT(0.017)LS(0.983)K	2	-0.17384	78665.6	73288.2
Sptbn2	0.981574	9.07E-05	44.788	FQIQDIS(0.982)VET(0.018)EDNKEI	4	0.13968	7324.2	8922.4
Kif13b	0.971222	0.000595981	62.685	LS(0.023)FHS(0.971)PS(0.006)AQC	3	-1.5436	15743.4	14327.9
Epb41l1	0.889757	8.75E-23	107.73	GACS(0.11)T(0.89)PELPQFESVK	4	-0.39865	88092.5	86658.5
Tmem131	0.513843	1.03E-07	67.646	T(0.425)S(0.514)PQAAT(0.03)S(0.(	3	0.054597	3956.7	3566.9
Ubxn1	0.971991	1.45E-66	126.42	SSPPATDPGPVPS(0.024)S(0.972)P	4	-0.10839	167786.1	168179.0
Nptn	0.854635	4.65E-05	81.918	T(0.002)NS(0.143)T(0.855)NNHKD	4	-0.3023	31956.7	32413.8
Il16	0.927274	0.0360674	60.547	T(0.024)QS(0.927)Y(0.003)ET(0.04	2	1.4191	25002.1	25164.3
Akap6	0.996887	0.00161149	87.149	EISS(0.003)S(0.997)LGR	2	-0.14527	49014.4	47897.9
Ift80	0.56945	0.0632991	43.308	S(0.015)S(0.013)S(0.569)GQS(0.2(	2	3.3518	19237.9	18909.7
Trio	0.788154	1.43E-20	77.324	KALGS(0.001)T(0.003)S(0.009)GT(	3	-0.92215	40328.1	42896.0
Pbdc1	1	1.82E-19	86.213	GADS(1)GGEKEEGVNREGEK	4	0.078723	27773.9	28202.8
Ppig	1	0.000482051	65.234	KENS(1)EGEKR	4	-0.58817	44996.2	49427.0

12287.0	13086.2	13996.0	12125.0	0.1	0.5	864
54438.3	56294.8	58829.9	55263.0	0.1	0.1	872
35358.9	39410.5	35071.8	32823.0	0.1	0.5	671
23227.3	23154.2	24600.2	23054.0	0.1	0.4	9
71549.3	71570.0	73431.9	74287.0	0.1	0.1	770
5368.2	5673.8	5237.4	5693.2	0.1	0.2	1067
8300.7	8215.3	8252.0	9001.7	0.1	0.3	325
47688.5	49225.4	47322.8	49306.0	0.1	0.2	756;756
7456.2	7270.4	8949.5	7087.4	0.1	0.7	693;693
1920.9	2547.8	1806.9	2171.2	0.1	0.8	101
83103.8	87357.7	93872.9	85723.0	0.1	0.3	188
23572.2	26204.3	24664.3	25562.0	0.1	0.2	162
16908.6	17436.6	17849.6	16738.0	0.1	0.5	34
18865.5	19956.6	20291.4	20133.0	0.1	0.4	330
53469.5	57973.4	57176.7	57226.0	0.1	0.2	448
461682.0	491539.0	467467.6	489790.0	0.1	0.1	116
6329.1	6255.3	7065.7	6457.0	0.1	0.7	188
6329.1	6255.3	7065.7	6457.0	0.1	0.7	189
28568.6	28727.6	31280.3	28762.0	0.1	0.3	642
8113.2	12285.4	9517.4	10603.0	0.1	0.8	50
16286.9	17720.4	17346.2	17231.0	0.1	0.1	571
68024.2	77329.4	75375.7	76056.0	0.1	0.4	176;150;139
7950.9	9083.6	8036.6	8043.5	0.1	0.6	173;150
16009.0	15956.0	15818.1	16147.0	0.1	0.3	735
94413.5	91937.9	95419.2	92566.0	0.1	0.2	1357;1349
4070.1	4267.8	3934.0	3855.5	0.1	0.5	1177
158791.4	171813.7	174755.3	167970.0	0.1	0.1	200
32975.2	32308.0	34534.3	34397.0	0.1	0.2	263
26920.5	26370.4	27810.4	25990.0	0.1	0.3	968
46020.2	50442.0	50810.8	47400.0	0.1	0.2	480
21765.5	20063.3	20446.4	21803.0	0.1	0.5	766
41425.2	43242.7	45222.9	41176.0	0.1	0.3	2392
25682.4	27067.8	31849.9	26013.0	0.1	0.6	184
43176.6	56690.8	40813.6	45609.0	0.1	0.7	656



Ubash3b	1	4.38E-05	103.91	VNS(1)QPGPQKR	3	0.31883	112344.4	97858.0
Dclk2	0.975454	1.70E-15	104.08	SSSS(0.002)S(0.008)PT(0.013)S(0.013)	2	-0.26423	31090.8	32589.3
Plxdc2	0.948085	2.50E-27	149.42	ASMGQDS(0.948)PES(0.052)R	2	-0.55997	22726.5	23286.4
Map2	0.883319	6.69E-15	96.55	T(0.366)PPKS(0.751)PAT(0.883)PK	4	0.48102	81190.5	85900.5
Scg2	1	1.55E-40	128.59	FPLMYEENS(1)RENPFKR	4	-0.37351	9817.1	9253.9
Itgb4	0.994993	4.77E-117	125.17	PGFAT(0.001)HAAS(0.995)IS(0.001)	3	-0.29964	46266.4	47180.5
Rapgef1	1	7.11E-05	52.527	VVDNS(1)PPALPPK	3	-0.55221	11310.3	11579.0
Cic	1	0.00160321	73.499	VFS(1)PVIR	2	2.0799	11441.4	11175.4
Ndr4	0.986537	2.51E-21	125.39	LSGGAVPSAS(0.987)MT(0.013)R	2	-1.4482	29323.2	24849.5
Mrvi1	0.791656	0.000611617	52.132	LAPRS(0.792)PT(0.208)VEK	3	0.53905	9093.2	9680.1
Ahnak	1	0.000627427	65.179	MPS(1)LEVPVPK	2	-0.62852	11371.8	11829.1
Pclo	0.499944	8.16E-31	88.385	ALGGDLAAIPS(0.5)S(0.5)PQPTPK	3	1.5591	7057.4	6759.2
Pclo	0.499944	8.16E-31	88.385	ALGGDLAAIPS(0.5)S(0.5)PQPTPK	3	1.5591	7057.4	6759.2
Cbfb	0.996513	5.14E-41	128.29	RQQDPS(0.997)PGS(0.003)NLGGD	3	0.034277	34961.0	35642.1
Fry	0.510461	2.59E-07	46.273	AS(0.51)T(0.451)PEIMAT(0.019)T(	3	-0.091967	11625.0	11735.9
Prx	0.631795	8.89E-22	87.496	VTSGVKPS(0.001)GLQVS(0.632)T(	2	-0.0046986	35392.8	30933.0
Prrt2	0.996514	6.32E-05	46.494	AHGGHPGS(0.997)PRGS(0.436)LS(	3	0.46409	1896.7	2447.0
Prrt2	0.56714	6.32E-05	46.494	AHGGHPGS(0.997)PRGS(0.436)LS(	3	0.46409	1896.7	2447.0
Lima1	0.985871	4.21E-14	112.5	T(0.003)S(0.003)S(0.986)LPES(0.003)	2	0.50509	20640.5	21290.0
LOC10091	0.755892	1.04E-33	83.879	NAPTLISEY(0.001)S(0.042)LHVPS(	4	1.4322	8020.8	7476.2
Nfib	0.914063	3.34E-55	135.31	KPEKPLFSSTSPQDS(0.086)S(0.914)	4	-0.79871	21892.8	20151.4
Ikzf1	0.998173	5.83E-14	122.64	VET(0.002)QS(0.998)DEENGR	2	0.53707	4872.0	4671.1
Rictor	0.534954	1.10E-08	58.093	T(0.535)FS(0.465)HDGGGLPSGTG(	3	1.4462	14173.8	13770.7
Ahnak	1	1.07E-05	48.053	LVGNLHFS(1)GPKIEGDVK	4	-0.45741	11808.8	9667.2
Hn1	0.695083	1.54E-33	135.81	S(0.007)NS(0.198)S(0.695)EAS(0.007)	3	-0.33211	20850.4	20222.7
LOC10369	0.757963	9.29E-11	52.249	LMQQS(0.242)S(0.758)AGAFEGFC	3	-0.50659	8658.9	8944.2
Myl6b	1	8.17E-05	49.265	VLGNPKS(1)DEMNVK	3	1.398	19224.8	19535.0
Stxbp5	0.945803	1.34E-13	106.55	S(0.011)S(0.012)S(0.043)VT(0.946	3	1.1879	164756.7	168047.4
Nefm	0.640005	0.00268383	48.568	AVEEMIT(0.64)IT(0.36)K	3	1.0767	2399.2	2273.0
Gas7	0.938856	1.40E-60	156.44	KS(0.939)T(0.059)GDS(0.002)QNL	4	0.72166	164577.8	156683.3
Ahnak	1	2.02E-06	76.073	IS(1)MPDVGLNLK	3	0.028508	3768.5	3655.9
Tubb3	0.97515	0.000274398	43.208	AILVDLEPGT(0.025)MDS(0.975)VR	3	-0.14416	1940.5	1941.3
Kcnab2	0.982561	1.51E-26	79.489	SLGQLS(0.008)VQS(0.983)APNS(0.008)	3	2.953	6785.9	8176.5
Usp6nl	0.904569	7.87E-07	70.165	KHS(0.047)EPS(0.905)PS(0.048)PS	4	1.4934	30693.6	28469.3

99197.0	111370.9	108467.4	101960.0	0.1	0.5	342
31674.2	31607.3	35437.3	32131.0	0.1	0.4	359
22564.0	23785.5	24192.0	23348.0	0.1	0.0	86
75337.3	87136.6	85322.7	79687.0	0.1	0.4	1740;1654
9542.0	10211.3	10271.3	9277.9	0.1	0.3	176
44847.0	46167.5	48465.1	49212.0	0.1	0.2	811
11268.2	12076.5	12037.2	11415.0	0.1	0.1	287
11794.1	11628.8	12672.0	11492.0	0.1	0.3	1402
30225.2	28471.4	29888.9	29427.0	0.1	0.5	306
8941.0	9783.5	10059.5	8985.0	0.1	0.4	221
12362.6	11434.1	13494.8	12064.0	0.1	0.5	4601
6664.9	7591.3	7239.6	6473.9	0.1	0.5	590
6664.9	7591.3	7239.6	6473.9	0.1	0.5	591
32702.6	35012.8	32552.0	39895.0	0.1	0.6	173
10870.0	11482.5	11676.0	12449.0	0.1	0.3	938
36349.0	32755.7	37474.1	36574.0	0.1	0.6	1062;1062
1796.4	2164.5	2096.3	2126.3	0.1	0.7	242
1796.4	2164.5	2096.3	2126.3	0.1	0.7	248
20895.7	19645.3	23097.7	22611.0	0.1	0.5	367
7390.3	8422.5	8106.0	7279.7	0.1	0.5	549
21086.3	20470.3	22301.5	22899.0	0.1	0.4	333
6145.8	5256.7	5772.7	5290.8	0.1	0.7	110
15043.4	13971.7	15327.6	15419.0	0.1	0.4	1407
11904.8	11243.8	12281.9	11199.0	0.1	0.6	5308
22930.3	21627.4	21743.7	23209.0	0.1	0.4	83
8322.7	8640.8	10030.6	8298.8	0.1	0.6	162
18452.4	19587.0	20082.0	19848.0	0.1	0.1	57
159110.7	167930.8	179361.2	164440.0	0.1	0.3	749;732
1991.6	2136.9	2473.4	2322.1	0.1	0.6	678
158184.5	168843.8	171613.5	158320.0	0.1	0.2	88
3117.9	3649.4	3567.0	3751.0	0.1	0.5	1694
1853.8	1993.5	1815.5	2157.9	0.1	0.5	75;75;75
6794.7	7768.8	7939.5	6926.2	0.1	0.6	53
29669.4	27375.8	33058.5	31981.0	0.1	0.6	501

Drp2	0.837476	2.19E-32	95.996	EKGQT(0.154)T(0.837)PDT(0.008)	3	-0.061475	190649.8	210827.0
LOC100911	0.988229	2.79E-15	85.087	ALNAET(0.028)PKS(0.984)S(0.988)	4	1.4363	112455.4	119651.5
P2ry14	0.67999	0.0271859	43.77	KNS(0.32)IS(0.68)VK	2	-0.25611	14689.0	14863.2
Ctnnd1	0.999868	1.13E-22	145.92	GSLAS(1)LDS(1)LRK	3	-0.069393	503930.9	478803.3
Dock5	1	0.000720318	44.925	APEPDMMS(1)PGKK	3	0.34955	11297.1	10840.4
LOC68570	0.999995	8.76E-22	124.39	IHTPGAS(1)PQLRPR	3	-0.074314	10619.0	10097.9
Epb41l1	0.955814	6.74E-06	69.92	ELKPEQET(0.044)T(0.956)PR	2	-0.54475	46883.0	43125.2
Nacad	0.998209	7.57E-16	89.669	IVMGEET(0.002)CQVLPS(0.998)PR	3	-1.6371	27859.8	26955.6
Ank2	1	1.16E-39	118.37	TVDEQEDMDLQIS(1)PDRK	3	-0.069184	31960.2	33334.1
Dock4	0.997036	0.0378002	48.944	ENS(0.003)CLS(0.997)PR	2	-0.89761	10347.0	9280.2
Kat2b	0.5	0.00212125	59.038	NPNPS(0.5)PT(0.5)PPR	2	-0.3251	6756.1	7352.5
Kat2b	0.5	0.00212125	59.038	NPNPS(0.5)PT(0.5)PPR	2	-0.3251	6756.1	7352.5
Myo18a	0.999935	0.00104653	47.774	RPTGDFGFS(1)LR	3	-0.53604	910.6	835.7
Sym	0.722519	1.09E-06	49.076	T(0.006)VS(0.059)S(0.213)QAS(0.7	4	0.68152	2737.6	2647.6
Marcks	0.860769	2.75E-22	96.096	AEDGAAPS(0.139)PS(0.861)S(0.86	3	-0.17394	321689.5	298536.3
Ncor2	0.5	2.32E-09	93.478	IVGEDS(0.5)PS(0.5)RLDR	3	0.577	6019.5	5504.2
Camsap1	0.990925	3.79E-16	60.649	S(0.403)IS(0.379)KDS(0.216)LAS(0	5	-0.43748	3077.7	3033.5
Aspscr1	0.544388	1.02E-38	90.475	AALQNTT(0.001)LQS(0.544)LGLT((	3	-0.18901	3171.9	3123.0
Atp2b1	0.999886	2.60E-24	132.64	RQPS(1)IASQHDIR	3	-0.23439	14862.0	16374.7
Tsc1	0.962576	7.93E-13	72.898	QTSLETS(0.001)ILT(0.963)PS(0.037	3	-0.032445	13632.3	11958.6
Dpysl2	0.957355	2.98E-21	100.45	T(0.405)VT(0.587)PAS(0.957)S(0.0	3	0.77719	834100.4	884080.4
Wnk2	0.79783	5.44E-22	87.352	QS(0.185)S(0.798)LPGS(0.017)GG'	3	-0.38729	24905.5	24133.2
Tex2	0.958848	0.0124689	59.367	GSQAS(0.041)S(0.959)LK	2	1.4834	21197.5	20705.4
Atp2b1	0.999901	4.24E-33	81.884	IEDSEPHIPLIDDT(1)DAEDDAPTKR	4	-1.7316	49914.8	48751.3
Bmp2k	0.957521	0.00620313	47.603	HHGT(0.958)PT(0.035)S(0.007)AK	3	0.89956	11424.3	12572.8
Kif1b	0.997744	3.82E-05	92.943	S(0.002)GLS(0.998)LEELR	2	-0.21456	56943.3	58444.7
Ttbk2	0.995074	0.000903939	48.527	S(0.995)CQQEHCKPS(0.005)K	3	0.13721	4884.5	4587.3
Sfswap	0.828546	0.0348786	40.616	MS(0.829)GS(0.171)PGVS(0.001)R	2	-0.060864	3121.2	3279.2
Tbc1d9b	0.893816	0.00579386	70.908	ET(0.104)S(0.894)PPDY(0.002)R	2	-0.44299	9081.9	8836.3
Rest	0.999835	2.16E-27	79.426	TDRVPLKDSAVEPVS(1)PLNPR	4	-1.5158	4503.3	5265.2
Arhgap20	0.996833	5.85E-11	91.657	RCS(0.997)EPS(0.003)IDDQNYK	3	1.0481	9303.0	8764.7
Yeats2	0.9996	3.33E-09	61.52	IVPQSQVPNPES(1)PGK	4	1.3391	28266.5	26770.2
Slain2	0.999203	0.000116572	53.395	NS(0.006)PRPS(0.995)PKQS(0.999	3	0.028335	10658.6	9144.5
R3hdm1	0.897172	0.00321292	46.352	IQIQLT(0.897)QS(0.103)FEK	2	-0.60409	12779.6	12933.7

198193.8	227306.7	200947.8	195610.0	0.1	0.5	832
110552.4	120335.6	121397.9	114760.0	0.1	0.3	192
14726.1	14663.6	14019.5	17383.0	0.1	0.6	226
508962.7	511382.3	527194.1	513360.0	0.1	0.1	349
11068.0	11354.9	11571.3	11621.0	0.1	0.0	1755
11091.4	10545.2	12259.5	10289.0	0.1	0.6	36
39708.0	46884.7	47378.3	40697.0	0.1	0.6	489;481
27295.3	28265.7	28871.6	28293.0	0.1	0.0	130
35900.8	33925.0	36361.7	35001.0	0.1	0.4	2122
9592.7	9653.7	11251.8	9496.5	0.1	0.6	1699
7524.0	7248.7	7694.1	7565.1	0.1	0.3	24
7524.0	7248.7	7694.1	7565.1	0.1	0.3	26
991.1	748.9	975.6	1123.6	0.1	0.8	234
2349.6	2797.3	2550.7	2700.0	0.1	0.5	424;424
288571.2	302950.9	322185.4	320480.0	0.1	0.3	140
5708.6	5818.0	6283.4	5829.0	0.1	0.3	1223
2760.8	2832.3	3440.6	2958.7	0.1	0.6	522
3252.8	3170.7	3551.2	3212.8	0.1	0.4	81
15525.7	16341.0	15822.3	16495.0	0.1	0.3	1139
13135.6	14664.7	12501.0	13131.0	0.1	0.6	582
803666.3	911712.6	890736.1	821660.0	0.1	0.4	517;618
24442.1	24770.0	26136.9	25554.0	0.1	0.1	1774
20615.7	19612.3	23010.0	22432.0	0.1	0.5	388
51805.5	51676.1	54804.3	50095.0	0.1	0.3	1194
11071.2	12497.7	12536.3	11459.0	0.1	0.5	936
56784.8	58182.4	63748.9	57242.0	0.1	0.3	977
5740.7	4871.5	5397.0	5562.6	0.1	0.6	1132
2495.1	2487.8	3528.3	3241.3	0.1	0.8	675
8725.5	8995.8	9474.9	9256.8	0.1	0.1	962
4829.6	5642.8	5100.7	4449.1	0.1	0.7	948
10023.7	10194.1	9910.5	9131.1	0.1	0.5	844
28877.3	28606.7	30894.5	27832.0	0.1	0.4	446
10571.6	10285.2	11092.5	10235.0	0.1	0.5	358
12437.1	13979.4	12407.0	13319.0	0.1	0.3	65

Pnpla6	0.724463	3.79E-165	192.5	ISVSLQEEAS(0.015)GGPQT(0.261),	3	0.52737	62407.0	66243.8
Ranbp2	0.999997	3.91E-14	113.4	FESPATGILS(1)PR	2	1.1332	9647.7	8948.7
Rtn4	0.718283	5.24E-35	69.7	LPEDEPPARPPPPPPAGAS(0.022)I	5	0.4045	3295.3	3034.9
Hist3h2ba	0.602616	0.000159288	60.196	PEPS(0.006)RS(0.603)T(0.391)PAP	2	0.51247	7615.1	5423.3
Ppfibp1	0.916834	6.86E-79	143.38	RRPS(0.917)DENS(0.083)ITPSEVQ(	4	0.017609	6489.7	7363.5
Epb41l1	0.94847	8.72E-29	78.098	SLPELDRDKS(0.948)DS(0.035)ET(0	3	3.352	76966.0	76954.1
Arhgef12	0.991613	2.30E-05	48.405	EAHS(0.008)DDNPS(0.992)EGDGA	3	-0.26879	4570.3	4103.2
Kifap3	0.976309	5.83E-05	48.196	LKS(0.976)LNANT(0.013)DIT(0.008	3	2.8549	7496.1	7253.1
Ppp6r1	0.777235	2.45E-42	87.739	NTVDLVNT(0.005)HHLHS(0.012)S(	5	0.86988	15820.9	16928.7
Cttnbp2nl	0.578914	2.78E-13	63.225	VSS(0.001)PLS(0.025)PLS(0.579)P(	4	-1.8755	4585.4	4247.7
Plec	0.980731	1.32E-06	94.287	QS(0.019)S(0.981)EAEIQAK	2	2.0242	13818.4	13168.5
Inpp5e	0.99089	8.99E-19	74.364	AT(0.009)HT(0.991)PPAMDNIASS	3	-0.1251	6609.2	7256.6
Akap11	0.997884	4.12E-05	48.053	IT(0.001)Y(0.001)AEKLS(0.998)PLI	3	-1.2824	13601.3	12085.8
Dmwd	0.978967	0.000546942	46.953	T(0.017)LPGT(0.979)PGAT(0.003)F	3	-2.7794	14629.4	14298.3
Eif2b2	1	0.0119023	78.06	T(1)VEAFLR	2	-1.1659	4973.6	5216.3
Bclaf1	0.907779	6.54E-51	156.61	YS(0.908)PS(0.093)QNS(0.999)PIH	3	0.26169	61067.6	61708.0
Sptbn1	1	0.0358134	49.777	GVNAS(1)AQK	2	0.87143	16305.1	16689.6
Nup188	0.999617	2.45E-22	87.083	GAPSSPAAGVLPS(1)PQGK	3	0.56721	11412.3	10996.6
LOC10255	0.988172	1.55E-07	71.558	KHS(0.024)APS(0.988)S(0.988)PN/	3	-0.25428	26520.4	26089.0
Arhgap21	0.680606	0.000182384	43.164	AQPS(0.071)S(0.247)S(0.681)EDEI	3	1.7539	9502.9	8699.3
Kif13b	0.895898	3.07E-05	110.74	S(0.896)IS(0.075)S(0.029)PSMNR	2	-0.35491	19190.2	15466.5
Tom1l2	0.677469	0.00822193	66.299	KQS(0.323)S(0.677)EMR	3	-0.99307	16110.7	14608.7
Ndrg2	0.775407	5.57E-43	91.079	T(0.006)LS(0.063)QS(0.775)S(0.11	2	0.54834	13392.6	11180.9
Ank2	0.99996	3.99E-14	108.06	NERHS(1)PVSSIK	3	-0.14703	93033.8	93491.1
Ssh2	0.500151	6.42E-07	42.468	S(0.041)HS(0.455)DS(0.5)DLS(0.00	6	0.020843	5655.2	6796.7
Camlg	0.975178	1.03E-54	94.594	VVLGDS(0.975)VDGGVT(0.024)DY	3	-0.18184	39393.0	38075.0
Ssbp1	0.620184	6.99E-05	53.981	S(0.261)GDNEAY(0.62)QMGDVS(C	3	2.0084	9251.1	10739.7
Srrm1	0.721812	2.06E-22	67.553	KPPAPPS(0.95)PVQS(0.235)QS(0.7	5	-0.87701	27652.3	29693.5
Srrm1	0.868144	2.06E-22	67.553	KPPAPPS(0.95)PVQS(0.235)QS(0.7	5	-0.87701	27652.3	29693.5
Elac2	0.499995	1.31E-30	84.946	AALLTQQADS(0.5)S(0.5)EDREPHQ	4	-0.97174	7478.8	6567.0
Tle3	0.769249	4.45E-07	52.227	DAPT(0.227)S(0.769)PAS(0.002)V/	3	0.77068	17150.7	18368.9
Rbm3	0.956183	0.000602709	60.196	DYS(0.044)GS(0.956)QGGYDR	2	-0.6243	2727.3	2133.5
Rasip1	1	0.0207958	57.174	KEGGS(1)PR	2	-0.24901	41990.7	38982.2
Pcdh12	0.999279	9.31E-07	53.718	NAS(0.999)RENLNLPES(0.001)PPT	3	-0.55445	9219.7	9887.2

60843.2	66223.1	68473.4	62523.0	0.1	0.3	435
9533.4	9804.9	10239.3	9232.9	0.1	0.4	954
2441.5	3348.4	2837.4	2943.8	0.1	0.7	159;305
8120.0	8937.6	5825.0	7259.0	0.1	0.8	7
6872.5	6820.9	7033.5	7717.3	0.1	0.5	774
77612.4	81050.5	79233.5	80709.0	0.1	0.0	1320;1312
4219.9	4580.3	4226.8	4613.2	0.1	0.4	1397
7284.0	7195.4	7951.7	7786.5	0.1	0.3	16
16499.8	17057.1	16823.7	17382.0	0.1	0.1	531
5138.1	5041.6	5283.9	4216.9	0.1	0.7	562
13678.5	13521.8	14844.5	13963.0	0.1	0.3	1569;1455;1426
7555.0	7094.7	7579.5	7624.2	0.1	0.4	197
13851.0	14618.5	13941.5	12598.0	0.1	0.5	1622
15246.7	14347.9	16557.6	15079.0	0.1	0.4	457
4564.7	5121.7	5117.6	5119.7	0.1	0.3	173
61483.1	63122.3	61447.0	67240.0	0.1	0.2	282
16030.3	16206.8	18302.7	16525.0	0.1	0.4	577
11423.6	12186.5	11532.8	11500.0	0.1	0.2	1718
28588.8	27845.5	29308.6	27375.0	0.1	0.3	96
9482.4	9229.9	9602.5	9988.2	0.1	0.3	1436
18982.6	16129.8	20851.4	18859.0	0.1	0.7	1452
16894.8	16862.4	17374.0	15332.0	0.1	0.5	424
13452.8	12845.3	14163.8	12579.0	0.1	0.6	338
87807.4	94627.3	94316.4	96664.0	0.1	0.1	1877
5584.8	6050.8	6527.7	6199.6	0.1	0.6	463
42904.0	41131.9	41089.4	43099.0	0.1	0.4	87;88
10325.5	10574.5	10209.5	10779.0	0.1	0.4	73
25981.5	29034.5	30065.2	27654.0	0.1	0.4	709
25981.5	29034.5	30065.2	27654.0	0.1	0.4	715
7211.9	7230.1	7830.2	7071.8	0.1	0.5	801
16231.5	16991.1	18551.7	18338.0	0.1	0.4	285
2159.3	2066.6	2772.3	2470.2	0.1	0.7	137
39497.2	40974.6	43298.2	41157.0	0.1	0.2	11
8930.6	9990.6	9916.7	9285.3	0.1	0.3	859



Ppig	1	8.04E-05	84.479	HMS(1)ES(1)PNRKIEK	4	0.035875	90854.7	96617.4
Srsf2	0.97015	4.70E-16	92.236	T(0.97)S(0.03)PDTLRR	2	-0.27771	119021.1	134756.0
Ahnak2	0.980532	1.53E-34	84.529	MPS(0.981)FGVS(0.019)AHGKPTV	5	-0.37868	13124.2	11969.5
Cttnbp2nl	0.673134	1.26E-119	185.41	VSSPLSPLS(0.011)PGIKS(0.673)PT(	3	-0.53569	38834.8	40128.4
Mboat1	0.990566	4.67E-05	70.889	QSQS(0.009)PNS(0.991)VK	3	1.6617	27556.9	17082.3
Sik3	0.943414	1.86E-06	59.359	RFS(0.943)DGAAS(0.057)IQAFK	3	1.4238	7010.0	4521.7
Cryab	0.975487	2.81E-06	61.495	APS(0.975)WIDT(0.024)GLSEMR	2	0.32184	6539.9	6885.2
Tab3	0.65795	2.73E-121	190.67	S(0.114)S(0.114)S(0.658)S(0.114)C	3	1.1163	9521.8	8469.9
Zfpm1	0.999852	4.44E-09	57.238	AVPSGGLLHVLLVAEPHGT(1)PK	4	0.67298	1974.5	2271.6
Pitpnm2	0.956603	0.0010191	79.659	KQWS(0.957)T(0.031)S(0.01)S(0.0	2	0.17753	58260.0	52288.8
Arfgap2	0.727525	2.96E-15	65.085	S(0.057)S(0.057)RS(0.134)QLDLFD	3	-0.25184	10134.2	10586.7
Ap2m1	0.520784	1.24E-05	76.073	GTADET(0.013)S(0.521)KS(0.466)C	2	-0.5787	11386.0	10870.2
Ank2	1	2.53E-71	124.2	S(1)PQGLELPLHNR	3	1.6831	18051.2	18625.6
Tex2	0.517555	2.42E-13	73.928	S(0.089)S(0.089)S(0.305)KGS(0.51	4	-0.41909	12606.6	12047.4
Fam21c	0.976846	1.52E-31	87.319	GLFSDEEDS(0.977)EDLFS(0.018)S(	3	2.6673	25559.1	25777.5
Sorbs1	0.90084	1.24E-55	136.64	ETPS(0.008)S(0.044)S(0.901)PVS(C	2	-0.57728	63345.6	64064.2
Prkag2	0.964405	4.49E-09	71.263	KVDSPPFS(0.006)S(0.019)GS(0.964)	3	0.56333	45599.7	44408.6
Parva	0.973345	1.83E-06	84.753	SPS(0.001)VPKS(0.973)PT(0.026)P	2	0.16906	31354.4	30424.0
Ahnak	0.994983	7.39E-23	91.812	LDIET(0.001)S(0.004)DVS(0.995)FI	3	0.5625	50556.5	42944.2
Tnrc6c	0.903961	0.000166424	40.622	DSSEAT(0.004)GWEEPS(0.904)PPS	3	1.5467	6458.6	7429.5
Erc5	0.990941	1.75E-30	125.23	VKPESEPEAT(0.009)PPS(0.991)PR	3	-0.21977	21021.0	19581.0
S1pr1	1	3.98E-06	77.204	RPIIPGMEFS(1)R	3	-0.97284	2410.3	2526.3
Cdk5r2	1	0.0110577	76.064	LVAAS(1)AK	2	-0.68419	32841.6	29213.0
Armc9	0.984779	2.32E-07	55.291	GLAS(0.015)VQWS(0.985)GDEPLR	3	0.29406	2683.9	3013.8
Rab22a	0.998517	1.48E-10	66.977	RLPSTDAS(0.999)PAS(0.001)GGK	3	2.2048	14103.4	16597.4
Ralgapa2	0.953418	6.30E-60	144.5	S(0.02)S(0.026)S(0.953)PAELDLKE	3	-0.56713	73921.1	63859.1
Tpd52l2	0.999983	7.69E-35	149.37	NSATFKS(1)FEDR	2	-0.75124	66446.6	64327.5
Wnk1	1	0.00283045	72.276	DAMNLS(1)GR	2	-0.32912	18733.4	17219.4
Flna	0.790161	3.30E-08	49.662	S(0.21)AGQGEVLVY(0.79)VEDPAG	3	1.2135	9500.4	7900.9
Nfic	0.978277	7.66E-41	109.56	T(0.021)EMDKS(0.978)PFNS(0.001	3	0.57435	46007.6	48366.3
Hnrnpa1	0.999206	1.05E-14	108.58	S(0.001)ES(0.999)PKEPEQLR	2	0.12398	1181575.6	1182035.4
Cep170b	0.931511	4.37E-36	101.85	DGPGDDRHS(0.704)T(0.364)KS(0.!	4	0.17317	47242.0	46335.9
Shroom2	0.870336	3.12E-28	141.59	DS(0.001)CS(0.129)S(0.87)PPSLNY	3	-0.32373	70498.1	70800.4
Foxk1	0.551009	3.00E-07	57.936	S(0.025)APAS(0.421)PT(0.551)HPC	2	-0.10306	14575.7	16548.1



88369.5	96910.8	100689.8	89615.0	0.1	0.4	411
118526.6	127023.3	139051.9	121580.0	0.1	0.5	25
12803.4	12743.0	13028.9	13688.0	0.1	0.3	3213
43437.4	44133.7	44288.9	39026.0	0.1	0.5	567
20567.8	24092.4	21424.2	22381.0	0.1	0.8	486
5217.3	5796.0	6003.2	5640.9	0.1	0.8	626
6905.4	7121.5	6859.1	7189.0	0.1	0.1	59
8980.8	9160.8	9631.2	9293.9	0.1	0.3	509
2485.5	2198.6	2426.7	2384.2	0.1	0.6	56
48790.4	55574.4	55570.6	54773.0	0.1	0.5	302;278
10900.9	11088.7	10891.6	10947.0	0.1	0.1	349
11045.7	10751.2	11298.8	12627.0	0.1	0.5	234
19188.0	18181.2	19909.9	20081.0	0.1	0.3	2395
11801.6	12985.0	12660.2	12317.0	0.1	0.2	748
29991.0	27051.3	27604.1	30034.0	0.1	0.5	536
66140.9	64166.1	68444.5	68942.0	0.1	0.2	116;116;116;86
45853.1	48460.9	49232.4	43785.0	0.1	0.3	71
31385.6	33200.1	32241.0	31575.0	0.1	0.1	14
46307.7	44215.1	51469.1	49906.0	0.1	0.6	1158
7303.7	6767.3	8063.5	7237.6	0.1	0.6	715
21329.0	22196.1	20954.0	21344.0	0.1	0.3	341
2322.8	2225.5	2840.0	2494.3	0.1	0.6	352
27919.2	33113.2	29328.9	31256.0	0.1	0.5	73
2341.4	2862.0	2563.2	2946.7	0.1	0.6	646
14174.6	15039.7	16555.4	15139.0	0.1	0.6	165
69023.9	71749.3	71681.4	71939.0	0.1	0.4	903
59846.7	66369.4	69694.8	62453.0	0.1	0.4	166;169
16401.9	17381.6	18728.0	18414.0	0.1	0.4	2508
8509.7	8245.6	9395.0	9343.8	0.1	0.6	319
47680.0	47597.5	50620.6	49721.0	0.1	0.2	333
614841.4	1150777.8	986027.0	965050.0	0.1	0.8	6
42777.3	45957.4	48060.1	47988.0	0.1	0.3	368
75848.3	76447.2	78318.8	71382.0	0.1	0.3	1131
16533.9	16177.1	17708.5	15748.0	0.1	0.5	408

Erc1	0.999987	6.83E-21	136.38	VEPSSQS(1)PGR	2	-0.90543	107586.8	104024.8
Nefh	1	4.66E-34	106.35	S(1)PAGAKS(1)PAEAKS(1)PVVAK	3	-0.43587	2993864.0	3043499.9
Thrap3	0.998691	7.64E-29	107.56	ERS(1)PALKS(0.999)PLQS(0.001)V'	4	-0.24217	76540.2	77245.8
Thoc2	0.974146	1.16E-12	69.878	IDT(0.011)HPS(0.974)PS(0.015)HS	3	-0.76069	68997.7	70425.2
Akap12	0.800398	1.08E-52	123.83	S(0.005)AT(0.022)LS(0.8)S(0.167)T	3	0.7576	7624.3	6808.3
Maf1	0.932046	2.74E-17	72.568	S(0.932)QGGEDES(0.067)PLS(0.00	3	-0.38022	34196.5	32071.6
Ggt7	0.748679	1.21E-27	103.28	LPS(0.749)S(0.187)S(0.05)S(0.014)	3	-1.1444	26297.4	24337.2
Arhgef10	0.999992	1.92E-08	110.38	SLVS(1)QDHR	3	0.29499	54165.5	46735.2
Atxn2	0.788048	2.29E-17	97.352	SFSQPKPS(0.002)T(0.045)T(0.788)	3	-0.237	32626.9	30535.9
Zcchc8	0.99526	4.81E-09	85.988	GT(0.995)PPLT(0.004)PSDS(0.001)	2	0.010419	16391.0	18091.4
RGD13084	1	0.0230561	67.897	FLLGGS(1)K	2	1.4897	3367.8	2858.8
Ahnak	0.983885	3.45E-26	78.418	VS(0.984)VGT(0.016)PEVSVEALEG	3	1.7719	10205.3	8863.5
Hecw1	0.499991	1.01E-44	165.51	EGS(0.5)LS(0.5)PVNSQK	2	-0.12395	34667.6	39875.0
Git1	0.879526	4.20E-37	145.33	S(0.002)LS(0.115)S(0.88)PT(0.004)	3	0.21694	15840.0	16665.4
Ppp4r4	0.77873	9.25E-19	99.813	S(0.779)S(0.179)T(0.042)LAHSSSV	3	0.83075	15033.7	15636.5
Pdzd2	0.52394	0.000166778	41.908	EANS(0.524)S(0.524)PGLGT(0.935	3	-0.90943	8338.5	8205.5
Camsap2	0.879917	1.56E-33	114.56	S(0.013)S(0.013)S(0.095)MS(0.88)	3	-0.84351	31029.9	29009.0
Mapt	0.560643	0.000434919	42.348	T(0.122)T(0.122)PS(0.489)PKT(0.7	4	0.2747	17831.8	17396.0
Rap1gap2	0.966913	4.13E-24	98.443	SET(0.002)S(0.007)S(0.038)NPS(0.	2	0.75296	72301.4	73129.1
Kazn	0.999995	9.24E-31	89.663	SLHNPIVQS(1)LEDLEDQKR	3	-1.1339	33538.1	33635.8
G3bp1	0.499959	2.11E-11	49.094	YQDEVFGGFVVT(0.5)EPQEES(0.5)EF	3	1.4358	6265.9	5388.6
LOC10091	0.949123	1.59E-08	61.276	FYS(0.027)NS(0.024)GRLS(0.949)C	3	-0.45246	11071.5	9536.5
Dlg2	0.999971	0.000647233	65.03	TSLPPIS(1)PGR	2	0.099983	38432.9	40862.3
Abl2	0.795608	0.0167375	47.302	GGFFS(0.204)S(0.796)FMK	2	-2.0599	10746.5	9689.3
Tjap1	0.965658	6.13E-14	77.221	KDS(0.026)LT(0.966)QAQEQGT(0.1	2	-0.055609	24083.8	25964.0
Afap1l1	1	0.0145855	46.068	KNS(1)LAELK	3	0.15409	16016.5	16349.5
RGD13117	0.5	1.58E-19	74.428	FAAGHDAEGS(0.5)QS(0.5)HVHFDE	4	-0.29532	19788.9	17409.1
Map2	0.997583	6.49E-45	126.1	LAS(0.002)VS(0.998)ADAEVAR	3	-0.32837	87632.1	90555.8
Arhgef10	0.742963	7.56E-13	64.761	S(0.022)VDS(0.223)S(0.743)LCDLL	3	0.51605	10254.1	8490.4
Palmd	0.999998	3.99E-12	105.19	VISPGPNS(1)QER	2	-0.68825	22581.0	22488.9
LOC10255	0.999827	0.000155533	60.641	S(1)PGGDRPSLGR	3	-0.23775	11795.8	13794.8
Map1b	0.667337	1.63E-44	164.64	MSISEGT(0.333)VS(0.667)DK	3	0.36042	62575.1	67795.9
Ncam2	0.996428	2.20E-05	42.618	AAY(0.004)LKDGS(0.996)KEPIVEM	4	-0.22597	25148.8	28948.7
Akap12	0.646628	8.50E-13	40.378	S(0.002)PEQPAGS(0.092)DT(0.647	6	0.43138	6523.8	8250.0

103527.9	107270.3	117016.5	103920.0	0.1	0.4	17
2670973.8	3299769.1	2780290.8	2989600.0	0.1	0.6	694;664
73972.4	80523.6	80484.9	76201.0	0.1	0.1	253
73340.0	70245.6	76385.6	74961.0	0.1	0.3	1417
7432.4	7734.6	7550.4	7487.8	0.1	0.3	631
33287.1	33668.7	37641.9	32378.0	0.1	0.5	75
26076.3	25013.1	28019.8	26865.0	0.1	0.4	17
44445.6	50044.9	51806.8	49534.0	0.1	0.5	389
34345.4	35372.5	33935.9	32253.0	0.1	0.4	705
17098.2	16938.3	17930.8	18856.0	0.1	0.4	275
3735.1	3515.3	3593.6	3267.0	0.1	0.6	22
9804.2	8703.9	10596.7	10774.0	0.1	0.6	5081
33896.1	39748.1	36935.5	36271.0	0.1	0.5	925
16045.2	16016.5	17546.1	17010.0	0.1	0.3	371
15246.7	17112.1	14985.6	15732.0	0.1	0.4	756
9549.4	8281.3	10240.1	8659.1	0.1	0.6	792
29976.1	31877.9	30006.5	31881.0	0.1	0.2	393
19996.1	18197.7	20072.3	19255.0	0.1	0.5	430
74669.7	75629.9	73831.5	79813.0	0.1	0.2	591
36128.6	35116.2	37318.1	35179.0	0.1	0.3	361
5491.8	5519.5	6315.2	6027.4	0.1	0.5	143
11267.1	11205.3	11342.6	10658.0	0.1	0.5	628
38596.5	37284.2	43204.2	42326.0	0.1	0.5	323
10599.1	10286.8	11575.6	10469.0	0.1	0.5	640
25769.7	26366.0	26973.6	25646.0	0.1	0.2	492
15960.0	17564.2	16484.9	16298.0	0.1	0.2	377
18230.9	19341.7	19264.4	19142.0	0.1	0.3	28
94116.5	92603.4	97593.9	93507.0	0.1	0.2	909;823
8645.2	10910.8	9452.2	8173.4	0.1	0.7	1279
23729.8	24209.0	23369.1	24103.0	0.1	0.1	283
11349.1	11841.1	13887.0	12759.0	0.1	0.6	499
83801.2	57390.4	85278.9	80478.0	0.1	0.8	1520;1394
24015.1	27907.1	30547.2	22932.0	0.1	0.7	765
9559.8	8107.9	8048.4	9197.8	0.1	0.7	20

Sec16b	0.779737	3.23E-17	60.029	AS(0.006)PPHHAS(0.04)LGLS(0.13	4	0.65556	4496.9	4571.1
Mpp7	0.979909	8.11E-15	71.376	S(0.98)QES(0.019)DGVEY(0.001)IF	3	-0.81555	7513.4	6898.8
Dzip3	0.573138	1.71E-53	96.351	SAPDGS(0.003)NAS(0.416)PS(0.57	3	-0.58511	8119.5	8574.9
Rasgrf2	0.970138	1.80E-06	85.493	KLS(0.97)LT(0.029)S(0.001)SLNSR	3	0.37993	15841.2	13522.8
Plcb4	0.788884	0.00180502	53.377	DGPQTS(0.001)NS(0.21)S(0.789)M	2	0.97926	5353.8	5920.7
Pacs2	0.773248	2.32E-63	112.85	LRPYFEGLS(0.009)HS(0.165)S(0.77	5	-0.8524	3324.2	4208.1
Mical1	0.99999	0.000161015	58.32	SCLDLAQES(1)LK	3	-0.24441	7363.1	8012.5
Bola1	1	0.000844696	73.632	FEGMS(1)PLQR	2	-0.28381	13573.9	12822.9
Drp2	1	8.62E-10	122.46	QSEGS(1)HPREK	4	-0.86628	35446.4	38361.3
Maged1	0.999992	1.95E-09	94.532	QTPPARQS(1)PPAR	3	-0.017968	29517.6	32469.8
Wfs1	0.987931	7.26E-24	94.281	LNAT(0.002)T(0.01)S(0.988)LEQDI	3	-0.17782	158626.4	156869.8
Dnajc15	0.9526	1.22E-07	58.32	EASLILGVS(0.953)PS(0.047)AGK	3	1.7519	3947.5	3971.7
Camsap3	0.999988	4.94E-06	69.92	S(1)PGPGPSPTPR	2	2.389	24018.2	26011.1
Kbtbd11	0.531439	0.000193125	45.347	S(0.531)GS(0.467)RPQS(0.001)PSC	3	-0.23977	2948.8	4035.7
Kcnb2	0.995322	1.61E-09	99.069	GSAPQT(0.995)PPS(0.002)T(0.003	2	-0.10951	9835.2	9471.7
Akap9	0.544877	6.82E-28	102.66	KGS(0.096)S(0.359)IS(0.545)DLAD	4	-0.38995	9870.7	10941.0
Eya1	0.99951	5.95E-12	72.433	NNNPS(1)PPPDSDLER	2	0.6854	15476.2	16877.1
Fry	0.918012	0.0241343	55.064	S(0.082)FS(0.918)VPKK	3	0.48636	92893.0	90483.4
Hba2	0.999814	5.63E-33	112.16	TYFSHIDVS(1)PGSAQVK	3	1.682	28858.1	36088.5
Spry3	0.534329	0.0126398	42.317	KMS(0.389)S(0.534)GGS(0.076)PC	3	2.4326	27835.9	30606.1
Map1a	0.61374	0.00525472	93.098	S(0.614)S(0.386)FVEDK	2	1.4465	28595.7	25481.3
Mark1	0.682859	3.76E-06	46.415	S(0.007)RPS(0.06)S(0.061)DLNNS(	4	-1.2855	3976.4	4726.3
Mtmr12	0.998679	1.47E-08	108.97	QLS(0.999)LPLT(0.001)QSK	3	0.022514	54814.4	57095.5
Map1b	0.98527	4.07E-29	77.026	QGFS(0.985)DKES(0.782)PVS(0.20	5	0.27706	30945.3	29283.2
Ank3	0.546969	3.61E-11	66.826	SIITSAAPLIS(0.453)S(0.547)PLK	3	0.33352	2957.1	2939.7
Camsap1	0.758437	0.000284174	45.221	S(0.758)VHREES(0.188)CS(0.021)C	3	0.3198	6275.9	6172.9
Peak1	0.816748	9.53E-09	98.902	SYSST(0.003)HS(0.18)S(0.817)PAK	2	0.089688	33111.2	30805.8
Tsc2	0.996948	0.000187942	76.302	S(0.003)MS(0.997)GGHGLR	3	-0.68474	7090.4	7029.8
Matr3	0.989209	0.00149383	74.611	KDAS(0.989)AT(0.005)S(0.005)K	3	0.024085	13472.5	12015.6
Nsrp1	0.87103	0.00048442	45.384	KKPEGS(0.026)GQS(0.871)S(0.103	3	0.44223	17605.1	18234.0
Egfl8	1	0.000573038	53.448	EADS(1)EEHALRR	3	-0.082589	3408.7	4165.2
Usp6nl	1	0.00569766	57.785	S(1)VGRPS(1)PK	3	0.57019	35316.4	37717.4
Rufy3	1	6.60E-10	81.656	FRVS(1)MDGEWLCLR	3	-1.0106	16097.6	14925.7
Map2	0.673263	1.32E-129	151.02	YTVPLPS(0.673)PVQDS(0.326)ENL	4	0.037569	46618.3	42354.1

4965.2	4788.6	5175.5	4657.6	0.1	0.4	848
7677.2	7685.5	7154.4	8176.1	0.1	0.5	409
7785.0	7720.4	8297.6	9488.3	0.1	0.6	1107
15624.7	15569.9	15821.3	15485.0	0.1	0.4	745
6135.6	5734.3	5738.6	6668.2	0.1	0.6	1187
4206.8	4411.6	3488.1	4332.8	0.1	0.7	330
7441.5	6546.1	8192.7	9037.3	0.1	0.7	828
13743.5	15173.9	13889.2	12765.0	0.1	0.5	81
31284.5	34602.5	43006.5	31903.0	0.1	0.7	823
27870.2	29247.9	33280.8	31108.0	0.1	0.5	319
156502.4	168458.8	156951.7	166440.0	0.1	0.1	32
3830.5	4172.3	3528.0	4543.9	0.1	0.6	102
24323.9	25639.0	26441.5	25402.0	0.1	0.2	768;769
3347.1	3488.9	3407.2	3870.5	0.1	0.7	314
10929.6	10528.7	10279.3	10702.0	0.1	0.4	725
10995.6	11462.7	10828.6	10856.0	0.1	0.3	2762
16641.4	15458.8	16691.1	18911.0	0.1	0.6	197
78582.3	91012.9	94812.2	87190.0	0.1	0.5	1982
25778.2	33271.6	29975.5	31309.0	0.1	0.7	50;50
30087.8	28079.8	31845.6	32346.0	0.1	0.5	268
28356.7	27711.3	27499.4	30707.0	0.1	0.5	1787
4162.6	4751.3	4398.3	4259.6	0.1	0.5	400
46172.5	54642.7	55417.7	54705.0	0.1	0.5	565
31290.9	31190.5	33149.3	31052.0	0.1	0.2	1432;1306
3160.9	2864.2	3127.0	3449.9	0.1	0.5	1672
7090.8	7579.8	6602.6	6184.0	0.1	0.6	1365
30889.5	33367.3	32321.1	33130.0	0.1	0.2	726
6089.1	6925.5	7806.3	6333.8	0.1	0.6	1073
11878.2	13190.7	13221.3	12538.0	0.1	0.4	705
18682.3	18949.0	18635.0	19249.0	0.1	0.1	436
2934.2	3801.1	3830.7	3321.8	0.1	0.7	205
37463.7	38960.6	38626.1	37598.0	0.1	0.1	308
14759.1	16261.8	16866.4	14597.0	0.1	0.5	34
43673.7	48262.9	46815.2	43198.0	0.1	0.4	966;880

Arhgef1	0.985562	0.000308015	74.987	KGS(0.986)LGIS(0.008)S(0.006)R	3	-0.17513	42006.2	38073.9
Eef2k	0.994762	2.46E-47	141.6	TECGS(0.001)T(0.004)GS(0.995)P/	3	-0.45452	43053.3	40652.8
Abi2	0.649469	1.04E-07	57.525	TYSS(0.001)GS(0.01)S(0.098)GGS(	3	-1.5323	2553.8	2847.6
Fam76a	0.61158	0.0476916	56.177	SGT(0.004)IT(0.384)S(0.612)P	2	1.1225	12542.2	14567.0
Tmpo	1	1.17E-14	131.93	LREQGAES(1)R	3	1.2245	100936.5	99234.6
Rnf169	0.820687	3.72E-09	71.98	LRPPS(0.821)S(0.179)DMGLAPK	3	-0.74869	6982.2	6876.2
RGD15599	1	4.39E-06	43.38	HADGEKEDQFNGS(1)PPRPQPR	4	-2.1611	8121.3	7982.9
Rai14	0.798251	0.000949912	58.699	VAS(0.798)LT(0.202)LHMK	3	-1.2255	2381.5	2777.3
Coro7	0.702155	1.82E-06	86.498	T(0.702)PS(0.281)S(0.017)AQYLEE	3	0.75186	11135.8	11539.5
Dcaf5	0.999396	3.84E-16	91.065	SQDQS(0.999)PEGCSDACK	3	0.29566	4296.5	3749.4
Srgap3	0.972505	6.18E-36	104.18	SSSSSSSGVGS(0.004)PAVT(0.973)f	3	-0.27578	7845.9	7347.5
Kcnb1	0.929224	6.66E-15	79.837	ALSETS(0.003)S(0.011)S(0.046)KS(	4	0.75447	7408.6	8325.8
Map1b	0.999995	4.16E-22	88.57	SSMLFDTMQHHLALS(1)R	3	0.96943	16541.3	16400.0
Foxo3	0.68961	8.18E-20	63.925	S(0.029)S(0.029)GLGS(0.69)PT(0.2	3	-0.49577	4940.8	5024.5
Ndel1	0.972745	3.04E-07	71.354	S(0.973)APS(0.52)S(0.423)PT(0.08	3	-0.032246	6419.1	6538.1
Ndel1	0.519549	3.04E-07	71.354	S(0.973)APS(0.52)S(0.423)PT(0.08	3	-0.032246	6419.1	6538.1
LOC100361	0.999938	2.35E-08	58.479	GS(1)PGEWAVEVEEASQR	3	0.72877	6817.2	9684.6
Grsf1	0.941043	8.48E-10	60.133	TTYLEDLPLPEYELS(0.941)PS(0.05	4	1.1782	6713.2	7103.8
Irs2	0.510337	7.79E-15	52.495	T(0.223)AS(0.777)EGDGAAGGAC	4	0.18353	6757.7	6934.8
Crebbp	0.85345	4.91E-10	53.481	S(0.066)PAPVQS(0.853)PRPQS(0.C	4	-0.053666	3304.7	3577.8
Slc45a4	0.576732	1.52E-07	45.558	GLSSGAAGEGES(0.008)GAGT(0.02	4	1.7312	6409.2	6038.1
Zfc3h1	0.994539	0.00225644	67.704	S(0.005)FGRS(0.995)PS(0.001)R	3	0.16912	9566.2	9513.8
Pdlim2	0.999321	4.30E-10	84.508	VLLHS(0.999)PGRPS(0.238)S(0.76:	3	0.32833	26143.5	23846.9
Arhgef26	1	1.66E-08	69.878	ALDIDS(1)DEEPEPK	2	0.6107	70623.3	74093.3
Rbbp6	1	7.58E-08	59.857	WDKDDFES(1)EEEDDVR	3	-0.14497	51041.9	54793.1
Setd2	0.830251	0.0148912	55.112	S(0.157)S(0.83)PY(0.013)RER	3	1.3014	5254.1	5843.4
Rap1gap	0.974363	6.79E-15	113.31	S(0.026)QS(0.974)MDAMGLSNK	3	-0.11453	132494.8	124499.8
Map4k4	0.56232	6.74E-17	133.48	QTQS(0.268)AS(0.562)S(0.136)T(0	2	0.37941	27413.7	26709.9
Smtnl2	0.612717	2.04E-16	57.573	QVEALGLAT(0.039)GVS(0.096)PAF	4	2.5854	7444.3	8269.0
Irf2bp1	1	2.29E-21	72.822	NVAEALGHS(1)PK	3	0.3159	92915.7	88974.1
Prpf4b	1	0.00184896	99.343	ARS(1)PADEK	3	-0.27913	95146.0	113695.2
Triobp	0.753035	0.00193488	45.357	DNPGPS(0.247)S(0.753)PHR	3	-0.091337	3619.3	4111.5
Herc1	0.984762	3.53E-13	141.89	S(0.002)ES(0.985)LT(0.013)AENR	2	0.13559	18259.9	19861.8
Xpr1	1	0.000386026	123.11	YNQSIG(1)LR	2	0.44292	40258.9	42950.8

36970.8	40801.9	41669.6	39549.0	0.1	0.4	301
40090.2	43719.0	43634.9	41699.0	0.1	0.2	73
2757.5	2972.5	2684.2	2848.7	0.1	0.4	173
13355.9	13564.7	13584.6	15035.0	0.1	0.5	306
95382.3	104208.0	107035.4	96869.0	0.1	0.3	155;155
7486.7	7036.7	8052.8	7162.7	0.1	0.5	496
7573.1	8564.3	7414.5	8704.8	0.1	0.5	173
2653.2	2794.4	2477.4	2872.3	0.1	0.5	308;329
10381.1	10829.0	11917.5	11718.0	0.1	0.4	874
4387.6	4937.1	3943.1	4083.0	0.1	0.7	641
8884.7	8087.1	8423.3	8593.5	0.1	0.5	1058
6802.4	7537.3	8865.9	7094.0	0.1	0.7	499
15065.7	16512.6	16903.8	16637.0	0.1	0.2	1841;1715
5327.0	5786.4	5618.5	4539.4	0.1	0.6	424
6631.8	6681.2	6658.4	7084.6	0.1	0.1	194
6631.8	6681.2	6658.4	7084.6	0.1	0.1	197
7845.0	7111.2	9121.2	9153.0	0.1	0.8	346
6402.0	7091.8	6959.1	7031.1	0.1	0.2	20
7284.6	7312.6	7501.5	7058.3	0.1	0.2	389
3456.9	3565.0	3478.4	3737.3	0.1	0.3	2215
5429.1	6139.5	6543.1	5956.9	0.1	0.5	765
8855.2	9787.0	10422.1	8919.1	0.1	0.5	212
25497.1	25753.4	27954.7	25004.0	0.1	0.4	199
69473.2	76007.2	70098.8	77233.0	0.1	0.3	390
58411.6	58058.1	54995.6	58210.0	0.1	0.4	1292
4830.0	5306.1	5882.8	5419.7	0.1	0.5	422
127671.9	134910.1	134456.8	131750.0	0.1	0.1	505;539
26955.7	27323.0	29672.0	27553.0	0.1	0.2	895
7669.5	7616.9	9523.8	7242.7	0.1	0.7	98
89438.4	93565.9	95551.7	93823.0	0.1	0.0	436
92819.7	111524.9	96074.3	106980.0	0.1	0.6	258
3417.1	3837.1	3886.2	3901.9	0.1	0.5	558
18166.0	19793.8	20093.7	18811.0	0.1	0.3	1491
41257.0	44803.6	41359.7	43636.0	0.1	0.2	646



LOC68570	0.974214	2.70E-24	95.5	KLEY(0.001)DS(0.025)GS(0.974)LK	3	1.0484	57327.3	51945.5
Cbl	0.901356	8.23E-87	159.86	VERPS(0.098)S(0.901)PFSMAPQA	3	-0.50859	146914.3	148302.9
Cep170b	0.774968	1.08E-19	55.779	S(0.221)PS(0.775)LGNVPNT(0.004	3	-0.041819	25583.0	27210.1
Parp3	0.950421	0.0234433	43.03	QGT(0.95)GEEGS(0.05)FR	2	-1.3744	5237.5	5097.0
Lrch3	0.684036	3.91E-43	79.68	VDVTSSFPM(0.226)DT(0.066)GR	3	1.413	5615.0	5472.1
Nufip2	0.923495	3.21E-69	135.23	DYEIQNPLAS(0.923)PT(0.076)N	3	0.19304	64274.7	60302.9
Sorbs1	0.599549	1.11E-05	78.814	LS(0.121)S(0.6)LS(0.278)DPAS(0.0	2	1.0392	14462.4	12593.7
Hipk3	0.726008	4.57E-05	40.086	S(0.238)NS(0.726)LQNT(0.034)NV	4	0.28099	7902.3	8605.5
Cep170	1	0.00690351	68.846	RHHS(1)EQK	3	0.072216	2332.0	2664.3
Map1a	0.999587	2.28E-51	162.29	ALGLEES(1)PAEGSK	3	0.011268	83429.1	79679.9
Papola	0.846004	9.31E-07	62.055	T(0.846)S(0.153)PLNSSGSSQGR	2	-0.022366	5631.0	5912.5
Mbip	0.789945	0.00152414	93.448	S(0.79)S(0.026)S(0.184)PLLTR	2	0.10902	16220.4	15140.7
Kmt2d	0.988803	1.09E-26	80.859	VEEGRHPS(0.007)PCQFT(0.989)I	4	-0.010871	14800.0	15332.7
Acot7	0.998438	6.50E-12	53.264	LIHS(0.998)APGLLD(0.062)CS(0.1	5	1.0606	11731.4	11505.5
Ahnak	0.60738	2.28E-16	68.835	FS(0.087)AS(0.607)GS(0.302)KGE	3	0.69689	19975.0	18862.5
Wipf2	0.994031	3.16E-16	69.248	MQRPS(0.994)LPDLS(0.006)RPNT	4	0.049437	10162.9	9803.1
Magi3	0.959082	9.38E-13	72.898	GFGFAIADS(0.959)PT(0.041)GQK	3	-1.0017	10407.9	10874.3
Wnk1	0.719533	1.31E-06	42.347	EGPVT(0.216)S(0.72)PFRDS(0.063	5	0.21624	2060.5	2491.1
Src	0.99999	3.19E-99	122.36	S(1)LEPAENVHGAGGAFPASQTPSK	5	1.141	109152.8	105071.3
Ndrg1	0.996648	7.15E-12	132.14	S(0.003)RS(0.997)HTSEGPR	2	-0.736	7845.3	8619.9
Lgalsl	0.872024	3.90E-52	113.31	LDDGHLNNS(0.127)LGS(0.872)PVC	5	-0.39594	37571.8	36125.8
Shank2	0.792655	1.73E-42	89.723	NS(0.001)PAFLS(0.793)T(0.206)DL	3	1.0188	23743.9	22610.7
Map1a	1	3.07E-09	97.69	HRADS(1)KES(1)LK	4	0.19641	800025.5	763474.7
Prkce	0.996528	8.94E-16	66.017	LAAGAES(0.997)PQPAS(0.003)GN	3	-0.85329	33259.1	36485.6
LOC10369	0.996721	0.0427545	55.441	S(0.997)QGLS(0.003)QK	2	-1.8636	10359.3	12067.2
Dtna	0.696513	0.0017081	44.349	S(0.185)S(0.064)PS(0.041)HT(0.01	2	0.71007	6776.0	5726.3
Ube4b	0.921661	5.56E-151	178.46	SQSSEGVSSLSPPSNSLETQS(0.002	3	-0.7409	40763.4	38610.3
Rnf123	1	0.000978414	61.235	VRS(1)LNVEQR	3	1.2292	29177.7	32275.6
Kcnb2	0.752052	0.0092902	50.648	APPFLT(0.248)LS(0.752)R	2	-0.082094	6443.7	7177.6
Ttbk2	1	7.20E-10	125.54	SIHS(1)FELEKR	3	-0.39238	43710.5	45361.8
RGD15628	0.996595	0.0637853	51.528	S(0.997)PPLET(0.003)R	2	-0.31618	7944.0	7715.8
Sgsm3	0.995204	8.38E-54	130.3	RKS(0.995)GIT(0.004)S(0.001)LLFC	4	-1.3773	20849.2	19859.6
Osbp	0.996117	1.36E-12	68.329	GATVLPANT(0.996)PGS(0.003)T(0	3	0.87217	20039.4	19428.6
Afap1l2	0.928876	7.54E-14	114.31	S(0.929)T(0.047)S(0.024)LEPPDR	2	0.7023	72702.2	71464.0

49812.5	55802.1	55233.9	54868.0	0.1	0.4	770
147410.3	153818.4	160841.6	146940.0	0.1	0.2	482
24148.2	27022.7	26660.5	26556.0	0.1	0.3	1342
5105.4	5882.8	4965.7	5253.3	0.1	0.5	21
6197.8	6098.4	6338.7	5589.1	0.1	0.5	535
63431.4	65926.1	67110.8	63035.0	0.1	0.2	625
11978.3	13397.5	13514.1	13797.0	0.1	0.5	538;347;589;326
8431.2	8739.1	8686.3	8584.0	0.1	0.2	771
1850.9	2519.9	2343.9	2277.5	0.1	0.7	404
84413.3	84476.9	86705.5	86972.0	0.1	0.1	1832
6139.9	5822.1	6347.0	6273.9	0.1	0.3	544
15900.4	15842.7	17374.0	16077.0	0.1	0.3	20
15771.6	15876.8	16794.8	15207.0	0.1	0.3	3112
9621.3	11959.9	11255.0	11057.0	0.1	0.6	9
18408.7	19548.5	20645.1	19517.0	0.1	0.2	444
10582.9	10755.5	10433.5	10675.0	0.1	0.1	155
9271.9	10233.5	11725.2	9910.9	0.1	0.6	598
2053.2	2504.5	2196.1	2188.6	0.1	0.6	2222
111702.2	111700.9	112410.7	115870.0	0.1	0.1	17
9189.4	8105.2	9456.4	9199.5	0.1	0.6	344
37824.6	37682.4	38233.9	40416.0	0.1	0.2	25
22446.9	23809.7	24693.2	23267.0	0.1	0.2	725;415
728247.1	785041.2	795092.4	810490.0	0.1	0.2	560
34465.7	34104.3	38192.3	36411.0	0.1	0.4	329
10720.9	11695.9	11233.6	11649.0	0.1	0.4	25
6492.8	6383.8	6825.9	6605.7	0.1	0.5	594
41692.4	40861.3	43628.5	41807.0	0.1	0.2	101
29275.5	32699.6	31063.3	30886.0	0.1	0.3	707
6481.2	6999.2	6929.3	7042.6	0.1	0.3	655
45177.0	46472.2	47468.1	46112.0	0.1	0.0	379
7223.4	8022.7	7500.5	8349.4	0.1	0.4	509
18103.2	21109.3	20233.7	20012.0	0.1	0.4	419
17653.9	20706.7	20320.3	18565.0	0.1	0.4	207
74126.8	74180.2	75281.7	78271.0	0.1	0.1	363

Sash1	0.976012	6.23E-26	77.959	S(0.012)PRDS(0.976)GCYES(0.012)	3	0.52219	11373.9	11209.4
Ap2m1	0.952594	8.68E-24	93.5	EEQSQIT(0.001)S(0.046)QVT(0.95)	3	0.8667	19693.5	19130.2
Map1b	0.999989	4.48E-07	130.44	RSES(1)PFEGK	2	0.12103	304634.2	304810.7
Pura	0.970024	2.43E-12	65.149	VSEVKPT(0.009)YRNS(0.97)IT(0.02	4	0.23446	15150.6	14647.1
Flnb	0.999888	6.48E-14	108.38	IRAT(1)QTGDASK	3	0.42509	13674.1	15700.1
Ppp6r2	0.525358	8.32E-43	92.41	CS(0.525)S(0.438)PVDMDHS(0.03)	4	0.11178	34269.3	34647.2
Arhgap44	0.897478	4.56E-86	106.14	GSPGS(0.001)IQGT(0.008)T(0.008	7	1.7913	31675.2	31060.2
Tmem238	0.798273	0.000548755	65.773	TPQPSAS(0.202)GS(0.798)R	2	-0.29448	7679.4	6495.1
Brwd1	0.898132	9.35E-05	69.209	S(0.004)PIDQT(0.078)S(0.898)PS(C	2	0.3454	9460.5	9438.3
Itpkb	0.9551	1.23E-20	69.063	LS(0.012)T(0.033)HPS(0.955)KDKE	4	3.7625	17126.9	17605.5
Ogn	0.828256	4.43E-25	69.088	YGT(0.003)DNS(0.146)EET(0.048)I	4	-1.8382	36525.8	37807.4
Fam160a2	1	0.00175626	84.738	LVS(1)QEGVR	2	0.40282	11301.0	12395.1
Nckap5l	0.511098	2.57E-21	72.302	SGECPGDVS(0.384)PS(0.511)T(0.1	3	-1.5267	16838.2	16725.8
Mrgprc	0.975148	5.91E-16	60.641	ALEET(0.975)PEEDEY(0.018)T(0.00	4	0.22239	32121.2	31760.1
Sdpr	0.900019	5.45E-22	126.25	S(0.9)S(0.267)PFKVS(0.826)PLS(0.1	3	-1.1137	101228.7	92666.3
Gramd1a	0.961739	2.08E-08	105.56	S(0.962)S(0.034)PS(0.003)S(0.001	2	0.87396	23251.3	22751.1
Gas7	0.893739	2.88E-22	89.344	KSTGDSQNLGS(0.023)S(0.083)S(0.	5	-0.21068	137611.4	130840.0
RGD13115	0.997436	7.70E-18	75.773	S(1)LKS(0.997)LGPENS(0.002)ETEL	3	0.30092	15312.8	15375.5
Ahnak2	0.776979	2.56E-17	60.029	VEGDVALPS(0.216)VQGLKT(0.77	4	1.0422	6824.6	8048.9
Sh3bp4	0.774226	1.27E-06	47.155	VPS(0.774)PS(0.226)ALLVDNPTPF	4	1.1174	3210.1	3382.7
Ptpn12	0.922848	1.72E-58	116.38	RHS(0.076)GAEKDADV(0.923)EE	4	-0.27288	42415.3	44766.2
Ywhaz	0.958892	7.33E-05	52.391	FLIPNAS(0.959)QPES(0.041)K	2	2.3615	12574.4	12058.4
Mcf2l	0.940847	0.00852331	43.897	AKS(0.059)EMS(0.941)EPR	3	1.2134	53962.8	50804.7
Iqsec3	0.949294	9.72E-22	69.578	VQT(0.051)PQS(0.949)PHQHPVAP	4	0.94993	16484.0	20427.8
Rmdn2	0.999986	4.83E-14	113.99	VTVHQVS(1)PQHR	3	-0.20117	44862.6	51516.6
Ahnak	0.999512	1.41E-26	79.837	TPSFSVSAPQVS(1)IPDVNVK	3	-0.45535	13763.5	14573.6
Drp2	0.946797	4.12E-09	57.802	HAFPS(0.947)VRS(0.825)S(0.225)[	3	0.16106	10887.5	11811.6
Drp2	0.824732	4.12E-09	57.802	HAFPS(0.947)VRS(0.825)S(0.225)[	3	0.16106	10887.5	11811.6
Cisd3	1	0.0743107	47.082	AEVGS(1)PL	2	-0.63281	4873.4	4697.4
Vcl	0.770827	4.16E-08	102.73	T(0.771)IS(0.229)PMVMDAK	2	-0.9337	14621.1	14438.7
Sntb1	0.999698	2.65E-72	139.75	GSGTGHPGTGVPQAPDS(1)PAGVR	3	-0.37396	141761.9	157725.4
LOC36164	0.999693	0.000193125	75.571	MS(1)PLGSR	2	0.90918	15887.7	15813.1
Plekhg5	0.682387	9.97E-85	136.48	S(0.166)KS(0.682)EAS(0.152)LLQL	4	-0.85214	13534.5	15113.3
Sbf2	0.532616	0.00150891	45.722	LGLGT(0.001)IS(0.064)GS(0.533)S	2	2.7784	11901.6	10646.4

12341.3	12141.4	13003.3	11291.0	0.1	0.5	722
19757.6	21245.7	21510.7	18360.0	0.1	0.5	156
351800.3	315127.5	351797.6	335930.0	0.1	0.5	1420;1294
12167.8	14277.5	17423.2	12082.0	0.1	0.8	253
15478.8	14717.5	16405.8	15672.0	0.1	0.5	1609
31459.1	33354.1	35048.3	36320.0	0.1	0.3	744
33736.4	32029.7	34917.9	33707.0	0.1	0.3	554
7347.8	6896.1	7453.4	8107.2	0.1	0.6	153
10294.0	10229.2	10346.2	9885.4	0.1	0.2	1894
18361.9	18894.0	18283.4	18223.0	0.1	0.1	233
41838.3	33111.0	42948.8	45159.0	0.1	0.7	51
12033.6	12708.9	11743.3	12830.0	0.1	0.3	671
17053.4	17751.1	17164.6	17902.0	0.1	0.0	708
32547.2	32225.5	33436.8	34958.0	0.1	0.2	301
105458.1	92151.3	104857.5	115360.0	0.1	0.6	286
21022.4	24643.5	23020.7	22275.0	0.1	0.4	11
139808.8	142609.8	148765.9	134640.0	0.1	0.3	99
16459.4	16966.9	17410.3	14821.0	0.1	0.5	407
9068.6	8212.7	9300.3	7471.2	0.1	0.7	3582;4948
3875.5	3637.5	3582.5	3704.5	0.1	0.5	42
42595.3	46362.2	43335.6	45737.0	0.1	0.2	545
12789.5	12306.3	13874.2	12874.0	0.1	0.3	110
47684.2	53390.9	56175.4	49536.0	0.1	0.4	553
17252.5	17270.5	19973.0	19285.0	0.1	0.6	131
46908.1	48463.1	50156.8	50922.0	0.1	0.4	121
14997.6	14328.1	15346.8	15552.0	0.1	0.3	4890
11830.3	11426.4	12623.9	11988.0	0.1	0.3	865
11830.3	11426.4	12623.9	11988.0	0.1	0.3	868
4225.6	4898.7	4907.0	4593.7	0.1	0.4	135
14116.1	14785.7	14766.5	15511.0	0.1	0.1	793
149358.6	159109.2	154579.3	154780.0	0.1	0.2	88
16845.8	16798.6	16894.2	16977.0	0.1	0.1	162
12849.2	14283.0	14429.9	14599.0	0.1	0.4	905
11043.5	12188.7	10809.3	12063.0	0.1	0.4	1081

Ahctf1	0.882644	1.85E-11	61.437	ALS(0.883)LNVT(0.104)S(0.012)EC	4	1.7755	6677.8	6351.4
Gys1	0.954314	4.23E-15	79.695	YPRPAS(0.003)VPPS(0.73)PS(0.31)	3	-0.14272	52941.8	55759.5
Slc12a2	0.863415	0.00278078	60.255	LLEAS(0.863)T(0.137)QFQK	3	-0.99969	1264.2	1341.4
Zfp609	0.999062	1.14E-07	87.083	LVEPHS(0.999)PS(0.001)PSSK	3	0.023215	34442.2	36502.0
Ahdc1	0.975955	2.44E-12	94.023	AS(0.003)T(0.02)VS(0.976)PGGY(C	3	-2.2832	7579.1	7113.9
Fam189b	0.999956	8.22E-07	70.272	AGYCLS(1)LDCGLR	2	-0.87789	21397.9	19358.4
Fam83h	0.956043	0.000596935	70.728	S(0.042)DS(0.956)LGT(0.002)QGR	2	0.20378	4964.1	4745.0
Triobp	0.98458	1.65E-70	121.7	KVDGS(0.008)RQS(0.985)LDY(0.00	4	0.80905	14751.1	15631.0
Rps6ka4	0.989416	4.12E-08	56.081	LEPVY(0.002)S(0.009)PAGS(0.989)	3	0.73219	12551.8	13198.1
Pard3	0.991974	0.00345457	47.037	S(0.992)MDLGIADET(0.008)K	2	0.65387	7846.8	9658.7
LOC10036	0.811422	0.000105942	61.409	RS(0.181)S(0.811)PNRS(0.007)EVT	3	-0.26494	17681.5	15912.9
Usp5	0.621203	1.23E-21	107.5	SAADS(0.006)IS(0.373)ES(0.621)V	2	-0.50917	10047.3	10323.4
Serinc3	0.871873	1.34E-22	64.213	LT(0.001)LS(0.007)GS(0.075)DS(0.	4	0.72446	26551.4	26561.8
Klc2	0.912039	4.42E-12	104.9	VDS(0.912)PT(0.086)VNT(0.001)TI	2	0.69784	15640.8	15590.5
Irs2	0.988633	5.83E-18	135.61	HNS(0.011)AS(0.989)VENVSLRK	4	-0.22914	122607.4	122481.5
LOC50068	0.943037	0.00246904	42.336	GYS(0.025)Y(0.001)DDS(0.943)ME	2	0.8535	2909.2	2918.3
Cmtr1	0.804993	6.55E-73	156.67	HLS(0.092)S(0.805)T(0.092)S(0.01	3	0.22643	46743.5	46850.3
Slc15a2	0.808681	7.21E-16	63.302	NES(0.018)KET(0.027)LFS(0.814)P	4	1.0357	12310.8	12378.7
Irf2bpl	0.999873	9.20E-37	99.078	APS(1)APPGTGALPPAAPTGR	3	0.10591	19082.9	18757.2
Ptpn13	0.658788	2.46E-10	62.055	AIS(0.004)T(0.02)GS(0.659)LAS(0.	3	-0.45197	7907.9	8184.0
Abtb2	0.608067	0.00617988	69.65	S(0.019)LS(0.608)LS(0.17)S(0.17)S	2	0.39387	13943.6	11831.3
Myrip	0.631469	2.25E-10	62.68	S(0.001)QS(0.007)AFS(0.631)FT(0.	3	0.597	7449.4	6999.4
Prrg4	0.83095	0.0151074	73.248	S(0.01)MS(0.831)LPS(0.159)H	2	-0.26655	23390.8	26471.8
Dab2	0.777806	0.0025343	44.614	S(0.156)ADNS(0.066)LENPFS(0.77	2	0.18676	18032.1	16805.8
Adcy9	0.890217	0.00614346	83.168	HAT(0.012)S(0.098)S(0.89)PK	2	-0.87626	17203.2	18625.6
Pdpk1	0.54182	8.93E-08	59.537	SQT(0.001)EPS(0.031)S(0.425)S(0.	2	0.62626	7582.5	7735.2
Birc6	0.93609	0.00329617	101.82	LS(0.038)MT(0.936)DDS(0.026)K	2	1.0592	61685.4	52966.7
S1pr3	0.781609	2.24E-12	94.532	SSS(0.001)S(0.003)NNS(0.782)S(0.	3	-0.26173	8124.7	7735.0
Rbm15	0.512897	6.12E-88	140.78	S(0.513)RS(0.513)PLDKDT(0.955)Y	4	-0.11089	10180.2	10106.0
Rbm15	0.955247	6.12E-88	140.78	S(0.513)RS(0.513)PLDKDT(0.955)Y	4	-0.11089	10180.2	10106.0
Papola	0.665021	2.42E-05	66.246	T(0.665)S(0.665)S(0.667)PHKEES(C	5	-0.41463	6825.3	6970.1
Papola	0.664913	0.000110837	51.286	T(0.665)S(0.665)S(0.667)PHKEES(C	5	-0.41463	6825.3	6970.1
Grip1	0.986836	1.13E-08	121.56	S(0.013)NT(0.987)LPS(0.001)DVGI	2	0.62021	14301.4	16801.4
Plekhg3	0.611246	0.00165551	43.592	RPS(0.017)DRS(0.611)PT(0.16)S(0	2	0.010772	3659.5	3495.2

6688.8	7408.2	6793.7	6378.7	0.1	0.4	1744
51885.3	54323.7	59402.7	53889.0	0.1	0.3	649
1380.9	1552.7	1255.1	1353.3	0.1	0.6	987
37263.5	36203.0	39103.8	37638.0	0.1	0.3	576
8361.2	7510.2	8229.7	8323.7	0.1	0.5	1059
20311.2	21488.8	20730.6	21522.0	0.1	0.2	377
4795.4	5329.2	4778.9	5031.7	0.1	0.3	1128
15624.7	14696.6	16418.6	16907.0	0.1	0.4	1594
12223.2	14004.7	12501.0	13132.0	0.1	0.3	347
8935.1	9700.2	8523.7	9375.8	0.1	0.6	849
16194.3	18384.7	19316.8	14271.0	0.1	0.7	144
9713.2	10931.6	10406.8	10065.0	0.1	0.2	764
24179.1	26269.2	28601.2	25813.0	0.1	0.4	371
16124.0	18994.1	15017.7	15422.0	0.1	0.6	445
123147.1	122810.5	141050.3	120550.0	0.1	0.5	1168
3322.2	2758.4	3831.2	2962.1	0.1	0.7	58
45864.8	49987.7	49638.5	45960.0	0.1	0.2	28
12390.3	12383.3	12808.8	13517.0	0.1	0.2	29
19194.4	17975.5	21354.7	20211.0	0.1	0.5	506
7280.0	8275.4	8142.1	7981.7	0.1	0.3	904
13353.8	13822.1	13777.0	13251.0	0.1	0.4	31
6426.1	6640.5	7119.8	8032.9	0.1	0.6	113
23544.6	25152.8	26933.0	24551.0	0.1	0.4	222
19212.5	18081.1	18978.0	19371.0	0.1	0.4	739
16442.3	17433.3	19070.0	18070.0	0.1	0.4	365
7139.5	8373.9	7756.5	7315.9	0.1	0.4	38
48828.7	60966.4	54741.3	54976.0	0.1	0.6	3586
7969.0	9537.2	8045.5	7296.2	0.1	0.6	306
10292.6	9848.9	10962.1	11116.0	0.1	0.3	258
10292.6	9848.9	10962.1	11116.0	0.1	0.3	264
7984.3	7741.2	7305.5	7693.5	0.1	0.5	647
7984.3	7741.2	7305.5	7693.5	0.1	0.5	646
14785.7	15701.9	14031.3	18180.0	0.1	0.7	956
3271.9	3666.6	3607.3	3612.7	0.1	0.2	381



Sh3pxd2b	0.883998	2.95E-84	120.65	KAS(0.884)S(0.082)DLS(0.034)AST	5	0.98745	31633.4	31393.7
Prkx	0.52782	2.66E-05	44.341	T(0.528)WT(0.47)LCGT(0.001)PEY	3	0.50589	3742.3	3734.0
Tns1	0.999207	2.26E-05	51.089	S(0.999)HPGGGPT(0.001)VSSPGR	2	0.5286	14696.2	14941.1
Anks3	0.972777	6.34E-15	82.529	IVALMET(0.027)HS(0.973)PVLPK	3	0.020465	14138.0	16016.1
Prrc2a	0.999859	1.04E-21	102.52	SEGS(1)EYEEIPKR	2	-0.066024	60707.4	53156.5
Mvb12b	0.994156	1.20E-14	122.34	HIS(0.994)LT(0.006)LPATFR	3	0.28624	2655.9	2608.0
Arhgap23	0.999696	5.48E-06	124.6	ARS(1)DDYLSR	2	0.37723	94622.4	94003.4
Irs2	0.513797	1.17E-07	58.079	SDDYMPMS(0.358)PT(0.514)S(0.1	3	-0.048029	13761.1	13669.8
Tnik	0.505445	1.49E-21	78.428	ANS(0.503)KS(0.505)EGS(0.967)PV	3	0.74667	51774.2	49759.3
Map4k4	0.999847	1.96E-30	89.663	RDS(1)PLQGSGQQNSQAGQR	3	-0.04425	1305.7	988.0
Ube2q2l	0.995385	9.30E-08	44.6	AT(0.004)IEEVPS(0.995)EDEEEDA/	4	0.29233	7468.0	8914.6
Srrm2	1	1.55E-32	97.059	S(1)PVKQDK	3	0.70556	82339.0	81047.7
Camsap2	0.999981	6.17E-32	76.415	NLSFKPVNGGEEES(1)IEEELHVDPH	5	0.43755	12044.9	10718.5
Macf1	0.833296	5.05E-15	55.686	S(0.081)GS(0.081)LS(0.833)PCPPG	3	-0.035974	12848.7	12248.2
LOC10091	0.998831	8.86E-05	81.805	RGS(0.999)GHLPS(0.001)AR	3	0.6326	2694.0	2879.7
Hspbp1	0.736609	3.96E-23	95.227	LLQT(0.001)CFS(0.259)S(0.737)PT	3	-0.085579	55322.4	53363.8
Kbtbd11	0.996847	2.83E-26	113.86	ASAAEGSEAS(0.997)PPS(0.003)LR	2	0.44616	72695.0	66939.2
Arhgef40	0.611545	5.73E-14	62.193	QISLASET(0.016)LDS(0.082)S(0.29	3	1.665	6257.6	6208.3
Arfgef1	0.965272	8.92E-86	106.81	YGS(0.034)LNS(0.965)LESTSSSGIG	4	0.32393	36404.2	33955.0
Kcna2	0.624173	9.81E-09	58.479	ETEGEEQAQY(0.144)LQVT(0.624)S	2	0.35019	3429.5	4215.1
Agap1	0.999989	0.020319	57.204	SPALS(1)GGR	2	-1.6468	7439.9	8508.3
Wdfy3	0.722019	0.000149105	58.723	S(0.722)QS(0.267)EY(0.009)CNVG	3	-1.1254	9581.9	9654.1
Palmd	0.954976	5.29E-24	96.143	SEVSPHENT(0.955)NHKS(0.045)PH	5	0.58605	9867.3	8708.8
Eef1a1	0.972046	1.77E-06	74.611	EHALLAY(0.972)T(0.028)LGVK	3	-0.8283	3254.2	3984.1
Mtus1	0.528708	2.43E-11	50.77	GS(0.471)LS(0.529)DGHVAGECPVI	3	1.6224	10335.4	10115.0
Znf740	1	0.00146381	89.609	AGS(1)PDVLR	1	-0.86847	27061.9	27583.0
RGD13099	0.949266	3.71E-14	68.569	NT(0.051)PS(0.949)EDDRREHLSEP	4	-0.20329	28091.2	25334.3
Rtkn	0.997885	0.00151953	104.06	LSS(0.002)S(0.998)LGR	1	0.94531	92351.6	95048.8
Epb41l2	0.828553	1.74E-34	115.42	S(0.001)ALKS(0.17)S(0.829)AEIQP	4	-0.51688	71641.9	67793.7
Pip5k1c	0.813517	3.58E-66	127.53	T(0.009)QS(0.177)S(0.814)GQDGF	3	0.31173	107770.5	105934.5
Fry	0.841698	1.26E-189	217.86	S(0.015)AS(0.842)S(0.129)T(0.015	3	0.71176	35354.6	33424.1
Tjp2	0.735367	2.66E-60	145.55	SSEPQHEES(0.735)IRKPS(0.265)F	3	-0.37637	41445.6	41110.2
Prrc2a	1	0.000136636	80.96	GT(1)PPVDPK	2	-1.3294	92765.4	93558.1
Mtcl1	0.958035	2.54E-15	102.26	AGGGTTPVS(0.012)S(0.958)PS(0.0	2	-0.010922	23565.0	23501.4



32573.8	33463.0	32506.0	33851.0	0.1	0.1	499
4272.5	4351.9	3750.4	4165.2	0.1	0.5	201
13878.7	15199.2	16070.3	14169.0	0.1	0.4	638
15408.6	14548.1	16870.7	16157.0	0.1	0.5	96
52708.3	59539.7	60879.6	53515.0	0.1	0.5	1095
2388.4	2700.1	2487.2	2803.5	0.1	0.4	222
93422.3	95892.3	100824.4	97806.0	0.1	0.0	145
13192.0	14770.3	14249.3	13400.0	0.1	0.2	678
51268.9	51345.0	52330.4	55886.0	0.1	0.2	682
963.3	1108.8	1284.8	1007.6	0.1	0.7	655;686;686
7818.3	8685.5	7565.3	9021.5	0.1	0.6	138
78751.6	82157.1	90162.6	80540.0	0.1	0.3	1079
12850.2	12127.1	13286.4	11777.0	0.1	0.5	468
12949.2	13243.5	12960.5	13527.0	0.1	0.1	35
2501.6	2929.4	2598.5	2905.2	0.1	0.5	386
56626.2	57200.1	58623.7	56813.0	0.1	0.1	349
71226.7	70440.3	75080.8	74687.0	0.1	0.2	70
6214.1	6179.1	6412.6	6916.4	0.1	0.3	1471
34341.1	38039.9	36109.5	35196.0	0.1	0.2	664
3633.5	3772.8	3156.2	4849.6	0.1	0.8	433
7337.0	8970.6	7944.7	7403.3	0.1	0.6	397
10752.9	9867.1	10177.7	11275.0	0.1	0.5	1940
9159.0	9591.9	9845.0	9529.6	0.1	0.3	494
3382.2	3202.8	3869.9	4019.6	0.1	0.7	141;141
10729.5	10661.2	10643.7	11260.0	0.1	0.2	334
30382.8	31791.0	29512.7	27502.0	0.1	0.5	19
26139.1	28835.4	28844.8	25420.0	0.1	0.4	1957
90510.5	97475.1	99272.7	93519.0	0.1	0.1	220
71877.2	71427.0	80694.4	68590.0	0.1	0.5	154;154;154
105729.6	110458.0	111780.2	111410.0	0.1	0.0	555
32748.4	37341.4	36318.9	32386.0	0.1	0.4	2366
44414.7	42824.7	46172.9	43625.0	0.1	0.3	941
88206.7	96187.1	98771.5	91793.0	0.1	0.2	783
20432.6	24653.4	24112.9	21739.0	0.1	0.5	1339

Nek9	0.854423	1.70E-10	60.218	S(0.01)NS(0.027)S(0.075)GLS(0.85	3	-0.76235	14146.4	14098.6
Spata2	0.953853	2.27E-05	66.387	S(0.954)VDAY(0.001)DS(0.039)Y(0	2	0.50253	18864.6	18418.3
Rab11fip5	0.676145	3.00E-10	48.226	RGS(0.095)VGEKGS(0.676)PS(0.22	5	0.17588	5601.7	5904.1
Txnrd3	0.991359	3.17E-06	74.524	GGLMS(0.009)S(0.991)PPGR	2	0.43971	42168.4	44368.0
Habp4	0.663427	0.00106368	78.516	YGS(0.337)S(0.663)DKANR	3	-1.2289	40183.8	44106.9
Ssbp3	0.999275	1.81E-24	105	NS(0.999)PNNIS(0.001)GISNPPGTI	3	0.37246	21861.8	23812.9
Nucks1	0.657219	0.000128275	71.085	AT(0.001)VT(0.342)PS(0.657)PVK	3	-0.13508	3433.0	2807.6
Slc37a2	0.987526	6.73E-20	101.5	DNPEDPVNS(0.988)PYS(0.01)S(0.C	2	0.17284	30775.9	30272.7
Nexn	0.999965	2.11E-21	78.69	DMLAS(1)DEEEEPSKVEK	4	-0.41894	49811.1	42217.0
Proser1	0.995937	2.12E-32	112.08	SEPT(0.004)S(0.996)PPPSAFK	2	-0.5507	62158.9	56907.9
Brd7	0.799041	3.86E-23	107.78	EREDS(0.799)GDAET(0.201)QAFK	3	-0.47155	23616.2	28373.9
Rltpr	0.970046	0.0562811	44.395	GS(0.03)GGAES(0.97)K	2	-0.59626	12804.6	14372.9
Tjp2	0.991266	3.15E-23	66.372	STGDIT(0.001)AAGVT(0.991)EANK	4	1.1811	7568.3	7769.7
Atp9b	0.863217	0.0662467	55.112	S(0.003)QS(0.018)S(0.116)T(0.863	2	-0.43996	3722.2	3894.8
Map3k5	0.54288	1.22E-06	40.137	TLFLGIPDENFEDHS(0.543)APPS(0.	3	-0.18633	3669.0	3180.8
Vti1b	0.999996	0.00566018	105.52	ATQS(1)IER	2	0.43671	20784.8	21831.9
Shank3	0.999513	1.77E-15	81.017	SAS(1)DINLK	2	0.16286	36252.7	31210.5
Hecw2	0.768697	7.54E-05	51.495	GS(0.002)PVS(0.172)S(0.769)PQN.	2	0.22969	8153.9	9004.5
Ehd4	0.999965	2.27E-30	128.72	S(1)GGMDAVQTVTGGGLR	2	0.23924	30606.5	28301.5
Gphn	0.962443	0.000627427	65.179	LS(0.007)T(0.032)AS(0.962)CPT(0.	3	0.0087626	31167.1	33277.1
Ahnak	0.685608	0.00686753	48.568	GDIS(0.686)LS(0.314)GPK	3	-0.057766	41647.2	38800.1
Arhgap39	0.784064	1.35E-06	57.973	QLVYVEQAGS(0.216)S(0.784)PK	3	0.68119	10632.6	9600.6
Ulk1	0.979106	2.68E-07	74.789	SPLPPILGS(0.979)PT(0.021)K	3	0.094732	37785.3	37745.9
Mark4	0.986077	6.09E-11	72.568	RS(0.986)PT(0.013)S(0.001)TGDTE	3	0.18942	40912.5	40093.3
LOC68502	0.989156	0.0319703	43.124	S(0.011)NRS(0.989)PNK	3	0.59451	5964.1	5533.8
Map1a	0.617283	4.30E-101	134.14	TEATQGLDY(0.617)VPS(0.122)AG1	4	0.28215	75357.1	69967.8
Spats2l	1	0.012509	61.958	MS(1)LDGNPK	2	-1.4587	55782.8	47447.1
Lysmd1	0.95709	5.93E-49	122.34	KGESGVPEEDT(0.001)GLYPS(0.042	3	-0.0040959	60102.7	62870.8
Rtn4	1	0.000197959	67.334	CLEDS(1)LEQK	3	0.57207	5451.9	4972.5
Ncor2	1	8.66E-07	69.92	AIPEQHS(1)PHLK	4	-0.14162	36863.3	33677.5
Tanc2	0.710836	9.75E-07	61.167	S(0.003)QS(0.013)AS(0.068)Y(0.11	2	0.44634	6117.3	7754.4
Arhgap23	0.68696	5.52E-21	83.792	HS(0.136)T(0.687)S(0.173)DLS(0.0	3	0.80115	7393.9	7038.4
Acin1	0.929466	1.47E-09	99.161	S(0.002)GVS(0.069)IT(0.929)IDDP'	2	0.066102	45049.9	44038.9
Apc	0.995623	1.93E-12	66.249	DANIMS(0.996)PGS(0.003)S(0.001	3	0.27527	7014.4	8523.4

14104.4	14683.4	15065.7	14487.0	0.1	0.0	740
17564.5	20946.5	19224.9	17120.0	0.1	0.5	246
5729.6	6200.4	6428.0	5375.4	0.1	0.5	483;483
42906.1	44210.7	46138.7	44866.0	0.1	0.1	40
42909.3	41021.9	55996.9	35858.0	0.1	0.8	221
23207.1	22839.6	24675.0	24442.0	0.1	0.3	286
4016.1	3685.1	3781.3	3248.2	0.1	0.7	181
28900.8	29903.5	29913.5	34148.0	0.1	0.4	260
44955.6	48665.5	47248.0	47191.0	0.1	0.4	16
61465.0	64315.7	64206.3	60077.0	0.1	0.3	596
24644.3	26281.3	25526.7	28251.0	0.1	0.5	33
13423.0	14800.0	13292.9	14322.0	0.1	0.4	1191
7243.7	8463.9	7148.4	7978.6	0.1	0.5	451;478
3345.2	4335.3	3710.0	3406.9	0.1	0.6	341
3312.6	3523.5	3339.5	3753.7	0.1	0.5	1036
19646.9	21678.0	21397.5	21971.0	0.1	0.2	145
33002.8	33349.7	34779.0	36828.0	0.1	0.4	375
7661.1	8648.8	8089.3	9190.7	0.1	0.5	1177
30176.2	28551.7	30623.1	33892.0	0.1	0.5	15
34086.6	33227.6	34954.3	34754.0	0.1	0.2	283
45648.7	43030.4	42805.6	45905.0	0.1	0.4	655
10390.8	11552.9	10663.7	9778.9	0.1	0.5	405
36717.4	37639.5	40624.5	39013.0	0.1	0.1	622
39443.9	40356.4	42165.5	43324.0	0.1	0.1	438
6022.8	6568.7	5512.1	6224.9	0.1	0.5	765
77785.9	76585.8	77134.7	79388.0	0.1	0.2	1124
53983.7	54948.5	54680.4	54631.0	0.1	0.4	159
58377.5	60271.2	66170.4	63041.0	0.1	0.3	194
5041.2	4957.5	6014.6	5186.9	0.1	0.5	407
37403.0	38264.3	38130.3	36391.0	0.1	0.3	1310
7057.0	6721.7	7795.1	7350.6	0.1	0.6	1802
7210.0	7190.7	7875.4	7547.3	0.1	0.2	470
44848.0	45332.6	49134.1	45481.0	0.1	0.2	886;980;979
7851.8	8276.5	8375.9	7787.1	0.1	0.5	641

Brsk1	0.978505	6.82E-15	77.631	S(0.012)S(0.012)GGT(0.979)PLHS(	3	-0.17854	23208.3	23395.0
RGD13115	0.860465	1.97E-58	119.2	RFS(0.86)T(0.14)PDAAPVSTEPAWI	3	-1.2351	31230.3	29190.0
Aatk	0.736208	9.85E-11	51.524	ECPT(0.001)FLEGS(0.736)PGS(0.19	2	-2.8094	4077.8	4698.6
Tnks1bp1	0.633069	2.78E-10	50.752	CLARS(0.211)PPS(0.021)GS(0.021)	3	0.69135	10005.3	12175.8
Lrrc8c	0.974393	4.10E-15	86.488	S(0.004)NT(0.022)IQS(0.974)GPEC	3	-1.1699	20283.9	18715.6
Brd9	0.5	0.000175431	71.558	EQHPPGS(0.5)PS(0.5)R	2	-0.30135	6296.3	7031.6
Tmpo	0.830414	3.18E-55	99.997	GPPDFS(0.946)S(0.83)DEEREPT(0.	3	0.72626	71183.9	71801.9
Spag1	0.97511	3.35E-09	57.238	VADPS(0.002)QVVLLS(0.975)PDS(	3	1.082	4537.0	4316.9
Map1b	0.931674	3.89E-34	99.064	KS(0.068)PS(0.932)EAR	3	0.24236	120162.5	133472.6
Wnk1	0.973081	6.95E-33	109.79	S(0.001)GS(0.025)GS(0.973)GGAS	3	0.15823	65219.3	69450.1
Ddx3x	0.792971	3.57E-14	82.709	QS(0.159)S(0.793)GAS(0.018)S(0.	2	0.032107	7377.8	6132.0
Cep170b	0.65398	1.89E-55	142.89	EIHDVAGDGDS(0.654)LGS(0.346)F	3	0.39325	32786.8	32910.7
Sipa1l3	0.91784	2.87E-05	49.188	EQS(0.021)NPS(0.918)PS(0.055)Q	3	-1.3339	5651.6	6559.1
Akap11	0.725536	4.60E-20	66.294	T(0.014)S(0.014)AFS(0.726)PPGS(	3	-0.11869	5757.5	5384.6
Pcdh17	0.584525	3.06E-26	76.301	AGALAEASSS(0.001)Y(0.021)LPT(0	4	-0.30931	5769.6	6963.0
Ablim1	0.760376	4.11E-60	164.93	S(0.76)S(0.24)GREEDEEELLR	3	0.83749	41716.3	39492.2
Ank2	0.999491	5.04E-05	62.287	HPPVS(0.999)PGKT(0.001)EK	4	0.14848	40231.5	42938.7
Arhgap42	0.860997	0.00731262	58.172	S(0.861)S(0.034)AS(0.017)S(0.032	2	0.47514	11678.0	10718.0
Zfp800	0.540142	3.29E-15	54.934	VKVEPGDS(0.001)VES(0.058)S(0.0	5	0.59598	6695.3	7029.0
Map2	0.974373	7.03E-07	101.61	T(0.004)PGT(0.002)PGT(0.974)PS(	2	0.038919	47189.6	48670.1
Nadk	0.983828	6.22E-18	76.015	S(0.984)LHGPCPVT(0.008)T(0.008	4	1.0566	26029.0	27502.9
Dmtn	0.989036	4.17E-05	113.69	SS(0.008)S(0.989)LPS(0.002)YGR	2	-0.091498	30851.0	35751.7
Morc2	0.576636	2.87E-08	57.484	KLPLEVT(0.058)T(0.207)RPS(0.577	4	-0.10592	8331.5	7879.0
Spag9	0.733291	2.67E-08	92.295	S(0.733)S(0.133)T(0.133)LSQLPGD	3	1.3033	7620.1	8314.7
Vim	0.726243	0.00234589	114.97	S(0.002)VS(0.262)S(0.726)S(0.01)	2	0.095496	23466.0	16953.9
R3hdm2	0.64409	3.14E-05	115.33	QS(0.001)S(0.295)T(0.644)DS(0.0	2	-1.1516	42658.6	49435.8
Utp20	0.69889	2.52E-17	72.916	LKDS(0.699)EEQDT(0.301)LGDALA	3	-0.20128	30015.0	27981.2
Mbp	0.805067	9.91E-05	82.278	T(0.805)T(0.187)HYGS(0.008)LPQI	3	-0.49531	46267.6	38283.4
lqsec1	0.525717	2.24E-38	86.617	RS(0.461)S(0.526)AGS(0.01)LES(0.	4	0.26579	9216.9	8734.0
lqsec1	0.599536	5.46E-30	82.998	S(0.452)S(0.525)AGS(0.023)LESNV	3	2.3446	9216.9	8734.0
Mboat1	0.997142	1.27E-08	100.69	QS(0.003)QS(0.997)PNSVKK	4	-0.76096	84290.2	53684.1
Pcnx13	1	0.000124533	81.335	RGS(1)GDPLPQK	3	0.75528	91479.7	83673.8
Mtus1	0.86166	9.63E-32	130.36	QLS(0.862)T(0.138)EQAALQESLEK	2	0.17315	37327.3	38064.0
Synm	0.948408	1.11E-50	158.17	ELY(0.001)S(0.051)PS(0.948)GEKD	3	-1.7951	199058.2	184906.9

22291.5	23619.4	25006.3	23362.0	0.1	0.2	425
29427.8	31661.2	32478.2	29743.0	0.1	0.3	1298
4858.5	3865.6	4780.0	5601.6	0.1	0.7	1209
10609.7	11173.4	12065.0	11025.0	0.1	0.5	1438
20234.6	19200.9	22113.4	20580.0	0.1	0.4	201
6892.9	7089.7	6799.0	7240.2	0.1	0.3	558
77798.7	78459.0	77437.1	74805.0	0.1	0.2	67;67
4143.5	4623.1	4625.9	4332.2	0.1	0.3	703
116546.4	124900.4	145495.9	116420.0	0.1	0.6	2067;1941
62460.4	69311.8	70510.2	66168.0	0.1	0.3	185
5845.4	6816.9	7466.3	5942.4	0.1	0.7	605
33141.2	35595.8	33497.7	34192.0	0.1	0.1	1331
5427.0	6354.6	5888.3	6188.4	0.1	0.5	94
5846.7	5941.0	6285.2	5527.5	0.1	0.4	519
5962.8	6447.3	6752.9	6337.4	0.1	0.5	1080
44115.6	46434.8	42243.5	42292.0	0.1	0.4	566;479
43392.7	43816.9	44222.6	44227.0	0.1	0.1	1915
12032.6	10927.9	12790.6	12263.0	0.1	0.5	679
6754.9	7383.4	7203.3	6816.5	0.1	0.2	426
46330.0	48125.4	50749.9	49730.0	0.1	0.1	1706;1620
24542.1	27242.7	26974.7	27380.0	0.1	0.2	96
29504.4	33092.3	35738.7	31614.0	0.1	0.6	289
7528.1	8102.0	8511.9	8196.2	0.1	0.2	552
7820.4	8472.4	7961.6	8393.9	0.1	0.2	436;593
21863.5	21532.8	23856.4	19709.0	0.1	0.7	8
44621.3	47741.6	45269.9	49883.0	0.1	0.4	330
27072.8	28688.0	27643.7	32582.0	0.1	0.5	2581
41154.8	46445.8	41893.0	43049.0	0.1	0.5	91;65;91;65
8654.8	9607.5	8709.7	9491.4	0.1	0.3	939
8654.8	9607.5	8709.7	9491.4	0.1	0.3	953
69183.6	79225.7	68159.2	69141.0	0.1	0.8	483
93983.4	91535.3	97358.8	92414.0	0.1	0.3	287
35288.6	35746.5	37900.5	42040.0	0.1	0.5	1142
206657.7	206517.4	200627.2	210200.0	0.1	0.3	1075;1075

Ctps1	1	0.0422528	59.35	GCRLS(1)PR	2	-0.75581	8419.1	8947.5
Camsap1	0.999991	2.02E-07	82.925	VES(1)LEALPILSR	3	0.857	18088.2	17413.5
Arhgap32	0.795117	0.00806125	42.843	NES(0.205)EPS(0.795)EMK	2	0.52926	8161.4	8274.0
Rims3	0.96846	8.74E-17	69.747	RLS(0.968)QS(0.494)S(0.491)LES(C	2	0.33787	5671.2	5031.2
Deptor	0.914143	2.51E-15	82.403	SPS(0.001)S(0.002)QET(0.083)HD\$	3	-0.27042	43066.5	44781.5
Rgs7	0.681841	7.18E-39	88.541	S(0.143)HS(0.682)PT(0.169)HT(0.C	4	-0.21842	71199.4	73530.6
Enah	0.97289	2.15E-06	40.622	GS(0.001)T(0.001)IET(0.009)EQKE	4	0.13439	5849.1	7555.4
Tbc1d1	0.721694	1.36E-05	60.937	LNPS(0.048)AS(0.722)S(0.23)PNFF	3	0.4608	5746.6	6060.7
Map6	1	2.94E-33	77.149	GPIQLS(1)ADARDPEGAGGAGVPA/	3	1.4776	36018.9	36525.1
Rab11fip5	0.975466	6.43E-38	77.689	LFT(0.005)PT(0.019)NS(0.975)QVE	3	0.19617	18975.5	17344.4
Rbl2	0.999062	8.51E-37	143.93	GILLDDGS(0.001)ES(0.999)PAKR	3	0.54429	26379.7	24293.4
Crtc3	0.797403	5.41E-07	91.812	S(0.797)NPS(0.201)IQAT(0.001)LN	2	-0.65756	26384.5	27608.2
Map1a	0.987404	1.23E-38	90.062	ESTFLDEGPDEQEIT(0.013)PLQHT(C	4	1.5987	21587.5	21202.3
Osbpl6	0.777214	8.88E-36	155.43	T(0.001)AS(0.078)S(0.072)S(0.777	2	0.12167	25909.8	22743.4
Klc3	1	2.05E-05	52.112	AMS(1)LNMLNVDGPR	3	1.0361	9926.1	8895.0
Ank3	0.631569	0.000834382	53.237	VRDT(0.632)S(0.368)QEPCGR	3	0.2486	12269.1	12140.7
Prkd1	0.767481	2.39E-38	78.755	T(0.21)AS(0.767)AEFS(0.02)T(0.00	4	0.04131	8174.3	7717.6
Bnip3	0.855423	0.000502264	49.298	AEIDT(0.145)HS(0.855)FGEK	3	0.98264	13589.4	17084.4
Trim9	0.8848	1.84E-17	72.564	RAS(0.885)GS(0.094)GVS(0.019)D'	3	2.9008	8946.6	8125.6
Suco	1	0.00748489	68.536	S(1)KVQDQGK	3	0.36446	30189.1	27513.9
Usp45	0.686672	0.00105482	43.594	CRS(0.313)LQET(0.687)DQDHNK	3	-0.26645	4714.3	4786.4
Serf2	0.991448	0.00304364	68.536	QS(0.009)DS(0.991)VKGK	2	0.21084	63593.7	53096.2
Ythdc1	0.789692	8.13E-11	63.614	S(0.036)GS(0.162)S(0.79)AS(0.012	3	1.0778	11037.4	10897.4
Cep170b	0.842413	4.37E-36	101.85	DGPGDDRHS(0.842)T(0.158)K	3	0.9306	50327.5	49578.4
Ahnak	0.780964	0.000262922	43.208	GPQVCGELQGS(0.781)GT(0.219)D	2	-1.2618	10386.8	10026.9
Cnot2	0.999997	2.43E-36	145.99	TNSMSSSGLGS(1)PNR	2	0.28493	31329.3	35005.8
Trip11	0.930041	4.04E-54	98.009	S(0.93)VPNT(0.07)PLRPNQQSVFN:	4	1.2806	26658.8	25772.0
R3hdm2	0.503907	0.00595323	70.389	GDS(0.315)IGS(0.504)S(0.181)K	2	0.042017	21746.1	20869.9
Sptbn1	0.547575	1.91E-27	79.69	AQTLPTSvVT(0.004)IT(0.067)S(0.2	3	-0.91164	19019.7	19280.5
Synrg	0.543472	4.06E-31	90.464	S(0.543)GS(0.452)IDDS(0.005)FTD	3	0.0082647	15230.5	15650.8
Gpr116	0.639102	2.60E-09	57.525	STSLGS(0.001)S(0.003)T(0.027)PV	3	-0.64034	4583.2	4985.1
Fam171a1	0.979392	5.05E-15	81.016	S(0.979)GGQLPS(0.021)LQEETKR	3	-1.0203	45987.3	41821.0
Prune2	0.501331	2.39E-06	45.707	S(0.003)LEALS(0.494)PGNY(0.501)	3	0.13418	20714.5	20149.2
Kif21a	0.830653	6.43E-23	66.884	LTVSQGS(0.003)APVQQDKS(0.147	4	-0.22778	22538.1	21847.3

8279.7	8841.5	8880.9	9085.4	0.1	0.1	562
18580.1	19398.9	18373.2	18759.0	0.1	0.1	1419
8085.0	8473.0	8074.4	9084.8	0.1	0.3	336
5281.7	5892.9	5705.7	5110.5	0.1	0.5	294
39533.4	44018.2	45273.1	43869.0	0.1	0.3	143
63053.4	74318.8	65604.0	77296.0	0.1	0.5	241
7383.2	7138.4	6786.2	7807.7	0.1	0.6	688
5882.4	5879.3	6545.2	6068.9	0.1	0.3	437
37042.1	36943.2	39789.9	37834.0	0.1	0.1	207
18609.9	19192.1	18469.4	19766.0	0.1	0.3	794
25251.2	27490.2	26078.1	25810.0	0.1	0.2	1108
27786.1	30045.4	27614.8	27839.0	0.1	0.2	328
20920.2	20993.8	21541.7	24073.0	0.1	0.4	1950
24854.1	26854.4	25616.5	24382.0	0.1	0.4	46
8492.2	9393.2	9638.8	9524.4	0.1	0.4	467
10304.5	10618.5	11859.8	13816.0	0.1	0.7	1365;1412
8130.2	7822.3	8389.1	8904.5	0.1	0.3	217
14888.0	16105.6	13990.7	17540.0	0.1	0.7	79
8147.8	8783.4	9114.4	8471.1	0.1	0.3	53
29409.7	32293.7	29548.0	29239.0	0.1	0.4	1200
4460.8	4674.6	4797.8	5125.2	0.1	0.3	407
45936.1	53010.4	65054.8	51971.0	0.1	0.7	21
10106.9	10970.9	11709.1	10822.0	0.1	0.3	321
45929.7	49102.2	51835.6	51546.0	0.1	0.2	365
11821.8	10570.2	12160.1	10975.0	0.1	0.5	5131
32058.5	34609.1	33696.5	34576.0	0.1	0.3	80
29173.3	28293.2	29341.8	27692.0	0.1	0.3	1836
21042.6	21562.5	23948.3	21053.0	0.1	0.4	378
19428.7	21381.0	18968.4	20014.0	0.1	0.3	2326
15166.9	14907.8	16272.2	16970.0	0.1	0.3	565
4686.6	4989.3	4919.2	4997.4	0.1	0.2	1307
40234.9	43347.2	47455.3	43092.0	0.1	0.4	699
23744.7	22130.1	21729.8	23701.0	0.1	0.5	1278
21841.1	22619.6	24608.7	22025.0	0.1	0.3	1309;1296



Gpr116	0.641583	2.08E-41	110.34	STSLGS(0.001)S(0.004)T(0.058)PV	3	2.3582	5676.6	5995.1
Cltc	0.986285	3.75E-05	45.458	TSIDAY(0.013)DNFDNIS(0.986)LAC	3	-1.6185	5268.2	5566.4
Epb41l3	0.99996	2.14E-33	161.25	RLS(1)ESLAPIK	2	-0.93636	360678.2	371919.9
Lcor	0.973588	3.68E-05	44.341	DDEKDDACLDDGGS(0.974)PAS(0.02	3	0.59697	8531.6	8268.0
Dtnb	0.555069	8.83E-26	108.77	S(0.001)VLDS(0.444)PS(0.555)RLD	3	0.88065	12481.4	11285.1
Sos1	0.774939	7.05E-15	84.375	RRPES(0.999)APAES(0.775)S(0.214	3	-0.57862	4744.7	5759.9
Map2	0.820464	1.34E-29	118.15	S(0.178)DT(0.82)LQIT(0.001)DLLV	3	0.53027	42019.3	39306.8
Apc2	0.765466	1.58E-19	76.015	TPSSSS(0.002)S(0.006)QT(0.217)S	3	0.32481	5299.1	6025.1
Arhgef12	0.918852	2.11E-12	72.433	S(0.001)T(0.001)S(0.016)HDFDPT(	3	0.27135	65597.4	65054.7
Edc3	0.960081	2.47E-05	74.077	HNS(0.96)WS(0.034)S(0.005)SSR	3	0.89124	13597.7	13699.4
Actn1	0.996808	8.03E-07	63.062	CQLEINFNT(0.997)LQT(0.003)K	3	0.28829	6396.5	7482.9
Srrm2	0.659836	0.000455665	48.885	VS(0.66)GRT(0.26)S(0.08)PLLLDR	2	-0.98814	24528.6	26738.4
Nipbl	1	0.000890747	81.92	GEGRPET(1)PK	2	-0.48997	44828.1	47565.5
Tsc2	0.946715	1.97E-21	70.897	ASGPLS(0.006)PPT(0.947)GPPS(0.1	3	0.40011	20465.2	22261.9
Reps2	0.993044	9.86E-24	96.143	MS(0.003)PLAS(0.993)PPS(0.607)S	3	0.05819	36759.6	34704.2
Reps2	0.606903	9.86E-24	96.143	MS(0.003)PLAS(0.993)PPS(0.607)S	3	0.05819	36759.6	34704.2
Ppp1r3d	0.942248	0.000768871	56.514	S(0.942)LPT(0.608)S(0.45)PERR	2	0.038528	11414.9	12670.5
Dact2	1	0.0318251	62.463	MGS(1)PQNK	2	-1.0887	13421.2	13406.5
Camlg	0.960465	4.13E-12	94.487	SAAPSGLS(0.04)AS(0.96)QRR	3	0.015654	6949.9	5863.3
Cadps2	0.521578	5.07E-11	48.669	SGGGGGGGAARPV(0.522)PS(0.22	4	1.2231	9328.4	9916.7
Cadps2	0.953822	5.07E-11	48.669	SGGGGGGGAARPV(0.522)PS(0.22	4	1.2231	9328.4	9916.7
Sipa1l1	0.888233	0.00131773	61.082	S(0.015)QGG(0.095)S(0.888)PLT(	2	0.080852	30492.0	30438.3
Uba1	0.998262	2.14E-42	86.577	IHVS(0.998)DQELQS(0.002)ANASV	4	-0.46662	6156.8	6208.5
Hcn1	1	0.000432706	63.212	EHGNS(1)VCFK	3	1.6889	9869.1	10034.4
Slc23a2	0.930149	2.48E-18	75.533	SSLAETLDS(0.014)T(0.056)GS(0.93	3	-0.58722	9749.3	10203.6
Crmp1	0.999733	1.04E-12	71.601	GMYDGPVYVPAT(1)PK	2	-0.12025	130443.4	130741.3
Ahi1	0.988176	1.56E-06	59.728	SQPADD(0.988)EDS(0.012)REK	3	0.33593	4380.7	4198.0
Usp8	0.696469	0.000335216	85.676	S(0.304)VENLLDS(0.696)K	2	0.83456	16101.2	13976.9
Khdrbs1	0.992188	8.02E-05	53.924	LT(0.001)PS(0.006)RPS(0.992)PLPI	4	-0.53305	10047.8	9545.9
Hn1l	0.947621	4.20E-09	49.765	T(0.008)S(0.008)DIFGS(0.948)PVT	4	0.99983	5438.9	5017.2
Nubp1	0.999993	0.00360574	55.261	QSHDENLIS(1)P	2	-0.72356	2389.5	2240.3
Afap1l2	0.99999	0.00042722	67.334	VYLDLT(1)PVK	3	0.85778	21192.7	20523.3
Frs2	1	0.00155831	89.886	RPS(1)LEHR	2	0.71672	22075.3	22453.8
Col16a1	0.949395	2.68E-22	86.557	DT(0.051)QS(0.949)NELIEINPQTEC	4	0.32768	17532.4	17672.4

6936.4	7088.1	6485.8	5884.6	0.1	0.6	1310
5460.9	5065.2	5620.3	6355.0	0.1	0.6	1494
356995.7	391827.6	384423.3	363190.0	0.1	0.2	1029
9905.1	8582.7	9775.8	9567.9	0.1	0.6	66
10709.2	11605.7	13616.7	10831.0	0.1	0.6	366;366
5041.4	5341.0	5324.6	5592.2	0.1	0.5	1152
41784.0	39985.7	48179.8	40583.0	0.1	0.5	1343;1257
6055.4	6769.7	5524.0	5882.6	0.1	0.6	1858
62557.3	64997.7	73356.0	63716.0	0.1	0.4	47
12933.3	14429.3	14674.6	12973.0	0.1	0.4	159
6894.2	6680.3	7329.6	7717.2	0.1	0.5	340;275
24037.5	27153.6	28599.0	23010.0	0.1	0.6	2350
45894.6	52264.6	41542.5	50836.0	0.1	0.6	757
18209.6	22221.4	21542.8	19973.0	0.1	0.5	608
35460.0	37060.9	37847.1	36931.0	0.1	0.1	55;181
35460.0	37060.9	37847.1	36931.0	0.1	0.1	58;184
13206.9	13456.9	12468.9	13081.0	0.1	0.4	54
11397.0	13318.3	13950.1	12715.0	0.1	0.5	437
5441.2	7262.9	6441.8	5389.8	0.1	0.7	23
10135.8	10430.5	10721.7	9581.4	0.1	0.3	61
10135.8	10430.5	10721.7	9581.4	0.1	0.3	68
33500.0	31863.6	35356.1	31559.0	0.1	0.4	1423
5835.8	6268.6	6369.0	6402.3	0.1	0.1	810
9730.6	9478.4	11283.8	10238.0	0.1	0.4	53
10718.8	9406.7	11489.0	11190.0	0.1	0.5	80
122423.2	133480.1	136294.8	131520.0	0.1	0.1	509;623
4733.9	4444.8	4793.9	4687.7	0.1	0.3	26
15012.5	14978.2	17580.3	14612.0	0.1	0.6	160
9493.8	10651.9	10219.2	9558.5	0.1	0.3	38
5490.0	5760.5	6482.0	4439.5	0.1	0.7	97
2185.5	2560.9	2148.1	2420.9	0.1	0.5	319
19172.1	22550.3	22061.1	19087.0	0.1	0.5	566
22890.9	24908.6	23294.3	22329.0	0.1	0.3	428
21329.0	19761.9	22257.7	17125.0	0.1	0.7	266

Ahnak	0.998762	6.71E-08	58.98	GPGVDLPS(0.001)VDLS(0.999)LPK	3	-0.12794	3922.2	3884.5
Git1	0.796346	1.10E-78	126.68	GVSASSVFTT(0.016)PS(0.185)S(0.7	3	0.29499	11938.7	11705.2
Klc2	0.997726	5.46E-27	156.58	AS(0.002)S(0.998)LNFLNK	2	-0.2725	258000.4	237394.3
Sox10	0.53266	4.62E-67	99.45	CLS(0.31)PS(0.533)S(0.155)APS(0.	4	-0.012402	58189.6	54652.7
Sptbn1	1	5.37E-05	72.374	RPPS(1)PEPS(1)AK	3	0.21296	47245.6	43892.0
Phf20	0.791906	2.83E-09	69.485	SRGDIDPKPS(0.208)S(0.792)PK	4	0.69783	16933.7	16086.3
Lrrc16a	0.905683	1.83E-05	52.172	S(0.047)S(0.047)DS(0.906)GEEAEK	3	-0.63437	3329.8	3262.1
Scn9a	0.9989	0.0533064	54.066	T(0.001)SLFS(0.999)FK	2	1.4	7947.5	7182.8
Myo9b	0.632658	0.00474135	45.347	RIS(0.045)FS(0.105)T(0.633)S(0.21	3	-0.87668	9142.2	8551.4
Osbpl6	1	0.0105416	53.557	QNEIVRS(1)PR	2	-1.061	10519.4	10516.1
Kalrn	0.998251	0.000211032	44.816	DFLNALQS(0.998)PIEY(0.002)QR	3	0.89709	3411.8	2854.7
Ablim1	1	2.95E-40	122.64	S(1)PQHFRPDQGINIYR	4	-0.33803	38108.5	38039.9
Tns1	1	0	254.27	T(1)PEEEPLNLEGLVAHR	3	0.47046	79909.5	75229.7
Add1	0.996572	8.62E-199	195.5	YSDVEVPASVTGHFSFASDGDST(0.1	5	-0.77408	88391.9	88908.2
Bnip3	0.958455	1.88E-27	80.316	SQTPQDT(0.005)NRAEIDT(0.958)H	4	-0.13568	7292.6	8355.3
Cbx4	0.705396	3.05E-15	77.08	S(0.001)GEAAES(0.285)EARS(0.70	4	0.097519	13410.5	13261.7
LOC10036	0.999716	1.01E-12	70.249	ARS(1)AEAGAVGEAQSK	3	-0.91032	41859.5	42246.6
Nacad	0.995614	2.15E-21	142.77	VS(0.003)LS(0.996)PHS(0.002)ANF	2	-0.35391	182599.2	190490.2
Pdlim4	1	0.0059503	70.399	GPS(1)PWGFR	2	-0.79315	6904.2	6472.1
Zcchc6	0.999964	4.78E-31	90.1	TNLTEDEEGVAS(1)ENQVDSR	3	-1.2522	4378.9	3864.7
Nhs12	0.989612	1.53E-05	40.533	QPVNVFLS(0.005)S(0.005)GRPPS((	3	1.7775	9086.7	9997.9
Rictor	0.751264	4.73E-13	64.522	TFSHDGGGLPS(0.03)GT(0.219)GS(	3	-1.5176	13361.6	12673.8
Rsrc2	1	0.000847056	85.355	RHES(1)KDK	3	0.8069	21858.2	26090.1
Atp8b2	0.988729	7.53E-43	87.352	S(0.001)T(0.001)S(0.003)APQMS((	4	-0.32339	35459.6	39559.1
Sec16a	0.988407	2.34E-14	107.99	ASHYS(0.988)DQLT(0.012)PR	2	-0.32184	37879.5	36325.4
Taok3	0.900962	0.0411949	62.715	S(0.001)AS(0.098)LVT(0.901)R	2	-0.87776	5981.8	5352.4
Nup93	0.884682	8.65E-05	99.732	T(0.885)S(0.056)QET(0.06)ADVK	2	1.2696	12060.4	14593.4
Mtcl1	0.640322	0.0698265	44.863	DWDY(0.002)T(0.64)S(0.358)PR	2	0.58257	31400.9	32489.5
Frmd5	0.9561	3.35E-08	102.28	S(0.956)CPS(0.022)IT(0.022)HGPR	2	-0.77921	12252.4	11567.0
Anxa7	0.842208	1.02E-71	106.6	LLVSMCQGNRDES(0.158)PS(0.842	4	-1.4797	6151.2	5783.4
Anapc1	0.900256	0.0026111	57.792	S(0.008)AS(0.069)S(0.9)PS(0.016)I	2	0.19719	5852.7	5257.6
Tulp3	0.999823	0.00539737	72.2	ESAGAS(1)QK	2	-0.37866	6189.5	7169.7
Hps5	0.99969	1.39E-06	72.705	IGTLHAS(1)PELK	3	-0.52052	4923.0	4839.1
Ttbk2	0.909633	7.27E-37	140.89	S(0.134)KS(0.91)PPS(0.735)HS(0.1	3	-0.11268	24234.1	22329.9

4344.9	4201.2	3973.9	4537.9	0.1	0.4	4988
12632.0	12287.6	13140.0	12524.0	0.1	0.2	580
239438.0	251428.8	266402.2	250950.0	0.1	0.2	582
58343.4	61415.1	60214.9	57467.0	0.1	0.2	26
45779.6	49820.5	47330.2	46095.0	0.1	0.2	2093
15176.5	16427.9	16070.3	17926.0	0.1	0.4	900
3558.8	3739.2	3572.8	3308.1	0.1	0.4	1363
7099.0	7398.3	8058.5	7800.9	0.1	0.4	555
7635.1	8190.2	9414.0	8896.6	0.1	0.5	1330
9869.6	10293.6	10747.4	11295.0	0.1	0.3	190
3206.2	2919.5	3525.7	3466.1	0.1	0.6	2227;434
38483.6	40414.7	39631.7	39896.0	0.1	0.0	401
91335.6	88062.8	83510.2	86323.0	0.1	0.5	1034
93047.6	93523.0	97104.5	92248.0	0.1	0.1	436;436
6158.3	7470.5	8892.9	6453.7	0.1	0.7	77
11767.5	13011.4	13599.6	13611.0	0.1	0.3	291
41722.3	41838.1	46601.4	43226.0	0.1	0.2	27
171471.2	193812.9	192430.7	183590.0	0.1	0.3	1159
7810.0	7780.6	7549.0	6840.0	0.1	0.5	11
3625.1	4105.0	3852.5	4462.1	0.1	0.6	882
9350.1	9142.2	9637.6	10975.0	0.1	0.5	151
14034.1	13894.7	15742.2	12293.0	0.1	0.6	1421
24316.4	26815.9	24984.9	23821.0	0.1	0.5	75
37898.1	38573.4	38696.7	40894.0	0.1	0.3	487
35418.5	37278.7	39919.2	37520.0	0.1	0.2	1233
5220.6	5803.7	5902.2	5618.3	0.1	0.4	445
13996.8	14478.8	12032.9	16029.0	0.1	0.7	51
30694.7	31546.8	33850.4	33586.0	0.1	0.2	1091
10465.6	11781.7	11622.6	12475.0	0.1	0.4	257
6260.3	6614.8	6443.8	5982.5	0.1	0.3	311
5200.2	5257.1	6087.4	5724.7	0.1	0.5	334
7378.1	6993.8	6577.0	8131.2	0.1	0.6	182
5126.5	5125.2	5470.5	4985.7	0.1	0.2	563
24469.7	24984.5	25767.1	23587.0	0.1	0.3	1119

Gjc3	0.828548	0.00136813	117.3	NLS(0.093)T(0.829)S(0.079)ER	2	0.30689	95328.5	99259.8
Apc	0.87712	2.38E-05	45.157	Y(0.009)S(0.011)DEQLNS(0.877)GI	3	-0.61288	7617.5	6705.6
Plcb1	0.834082	1.74E-52	127.35	VNLKS(0.834)PS(0.132)S(0.034)EE	3	-0.74186	19164.0	18119.9
Acap3	1	0.00983387	63.184	RAS(1)NAFK	3	0.4866	8648.2	9418.0
Krit1	0.987911	0.00254203	81.923	NTAS(0.988)LNS(0.012)R	2	-0.20461	23210.7	21875.8
Epb41l3	1	7.40E-35	151.44	KKAEAT(1)PVAALR	3	-0.43479	153617.1	158877.1
Phf8	0.741157	4.95E-20	73.11	SSGSS(0.001)S(0.002)S(0.007)GLG	3	0.48581	9997.4	10268.4
Map4k3	0.658027	3.58E-08	46.239	CPS(0.012)S(0.048)GS(0.658)PAKF	5	-0.76778	4161.6	4421.9
Dock7	0.940662	0.000347688	55.801	S(0.941)MS(0.059)IDDTPR	2	-0.67253	64444.0	63591.4
Afap1l1	0.970935	0.0100919	64.82	HAS(0.971)S(0.027)CS(0.002)EK	2	-0.27292	2739.0	2857.7
Cdr2l	0.552135	4.66E-05	68.42	LHS(0.552)S(0.406)S(0.042)LELGP	2	1.3707	10581.8	9301.2
Hspa2	1	0.0268817	52.591	LRT(1)ACER	3	-0.014893	3716.7	3629.3
Tsc22d2	0.994342	0.000109105	63.16	HS(0.006)NT(0.994)LEQTAER	3	0.18041	4289.8	4495.0
Map1a	1	3.07E-09	105.03	HRADS(1)KES(1)LK	4	0.19641	716299.4	679966.5
Fam53c	1	0.000328065	67.385	LRPS(1)LDFDK	3	0.31604	3753.8	3666.7
Nid1	0.688535	2.70E-10	40.137	EYT(0.002)VT(0.021)EPDQDS(0.68	4	1.5907	6944.9	6630.0
Xrn1	0.996153	1.65E-15	124.16	RNES(0.996)PGT(0.004)SEAQK	3	-0.37604	32010.3	27911.0
Caskin1	1	2.08E-16	106.38	VPLPGPGS(1)PEVKR	3	0.20594	222136.6	245818.6
Map1a	0.959341	8.61E-59	99.907	AELEEMEET(0.844)HPS(0.175)DEE	4	-0.21664	20753.8	20449.8
Il16	0.996583	8.99E-18	70.837	SASPET(0.003)PAS(0.997)PGKHPLI	4	0.50109	20043.0	20488.2
Rab11fip2	0.582358	2.84E-05	51.166	NNMT(0.411)AS(0.582)MFDLS(0.0	3	-0.49654	25547.2	25360.7
Prpsap2	1	0.0689477	50.297	AQS(1)FAER	2	0.69657	22318.6	25018.4
Tmpo	0.907888	5.24E-19	73.675	EMFPYEAST(0.001)PT(0.002)GIS(0	3	-0.57892	7949.9	7072.0
Acly	0.947836	7.34E-13	73.805	S(0.948)GGMS(0.052)NELNNIISR	3	-0.5922	3766.6	4600.8
Usp30	0.63261	1.44E-40	84.478	AT(0.161)ES(0.633)PGS(0.207)ALC	4	1.0056	10313.8	9705.0
Map1a	0.977566	6.23E-05	100.93	ETSLDIS(0.978)S(0.022)K	2	0.24095	13210.1	12769.2
Phyhipl	0.909793	1.22E-88	145.34	DGNKS(0.09)QDS(0.91)GIAEMEEL	4	-0.80271	29485.4	25495.6
Prkcd	0.999107	1.42E-08	60.489	KPETPET(0.001)VGIY(0.999)QGFEI	4	2.5936	5748.7	4789.8
Peak1	0.533681	0.000125219	46.543	S(0.458)T(0.534)EAES(0.007)ILHS(	3	1.0541	3533.8	3492.2
Lzts1	0.998734	0.00233692	43.761	FGFS(0.001)QDS(0.999)GRGK	3	0.022942	14427.8	12533.3
Rps6kc1	1	1.86E-07	54.253	FFPGDEGLEAVCS(1)PR	3	-1.1091	6351.7	6013.8
Smarcc1	0.999447	1.14E-17	85.397	KHS(1)PS(0.999)PPPPT(0.001)ATE:	3	-0.29647	106647.0	118017.1
LOC103691	0.5	5.40E-08	68.845	AVEKDAS(0.5)LS(0.5)GEEK	3	0.16329	55252.1	54665.8
Map3k11	0.924012	0.000928409	62.908	S(0.924)APGT(0.035)PGT(0.041)PI	2	-0.16029	7607.6	8236.2

88644.2	100720.0	91810.4	103880.0	0.1	0.4	234
8055.0	7978.6	8902.8	6538.2	0.1	0.7	935
19410.6	19193.2	19036.8	21104.0	0.1	0.3	1197
9608.9	8937.2	9542.8	10485.0	0.1	0.5	10;278
21306.7	22000.3	23294.3	24193.0	0.1	0.3	22
160452.2	159714.1	172201.3	163080.0	0.1	0.2	513;495;513;513
9550.9	9705.8	12025.4	9475.6	0.1	0.6	667
4196.1	4500.5	4739.3	4135.6	0.1	0.4	446
63748.6	68123.8	71196.3	61408.0	0.1	0.4	180
2445.0	2983.5	2550.6	2882.6	0.1	0.5	582
10526.2	10332.1	10513.7	10982.0	0.1	0.4	128
3457.6	3756.6	3673.1	3878.0	0.1	0.2	268;265;265
4479.7	4289.6	5014.7	4579.2	0.1	0.4	194
652157.1	703259.2	718470.7	722280.0	0.1	0.2	557
4450.9	4270.2	4215.1	3940.3	0.1	0.5	262
7138.4	6785.9	7405.3	7489.1	0.1	0.3	597
29189.3	32080.3	31499.3	29692.0	0.1	0.4	1298
227907.9	265541.3	233808.6	229010.0	0.1	0.5	1187
24099.2	23185.0	20530.8	24638.0	0.1	0.6	911
23525.4	21728.6	22755.7	22565.0	0.1	0.4	686
21545.2	24819.5	27509.0	23512.0	0.1	0.6	150;159
22952.6	24554.4	23434.3	25588.0	0.1	0.3	112
7834.2	7926.4	7712.1	8287.3	0.1	0.3	361
4147.1	4165.1	4332.0	4603.2	0.1	0.5	663
9630.2	10839.2	10861.7	9336.4	0.1	0.4	372
14268.3	13289.7	13030.0	15813.0	0.1	0.6	1439
26345.6	28571.5	29758.5	26807.0	0.1	0.4	41
5464.5	4974.0	5867.0	5911.8	0.1	0.6	311
3283.5	3430.8	3555.8	3806.0	0.1	0.3	900
11547.1	13910.1	14240.7	12162.0	0.1	0.6	50
6163.5	6146.2	6696.2	6555.1	0.1	0.2	397
101343.3	112129.9	99055.8	130110.0	0.1	0.6	329
47583.1	52660.6	62739.0	49488.0	0.1	0.6	85
8010.5	8327.8	8230.5	8414.8	0.1	0.1	751



Rrp12	0.999994	7.12E-84	131.42	GDSIEEILADS(1)EDEDEEEERSQGK	3	-0.3866	42422.4	41092.6
Arfgap3	1	0.0127891	64.64	KGS(1)LGAQK	2	0.45541	70764.1	69954.6
LOC100911	0.99883	0.0230577	44.753	S(0.999)IT(0.001)IMPK	2	2.6757	8725.9	8481.0
Tnk2	0.999992	4.62E-15	89.468	VGLS(1)PAPLGEEEASR	2	1.2838	7123.0	7907.0
Kcnb1	0.942253	0.00011359	49.988	FS(0.047)HS(0.942)PLAS(0.009)LSI	3	-0.72985	3713.2	3847.5
Stau2	0.808295	2.10E-09	72.321	VT(0.158)S(0.808)GT(0.032)T(0.00	3	0.78487	3674.8	3385.7
Mta1	0.978543	7.57E-05	52.247	LPEAS(0.021)QS(0.979)PLVLK	3	-0.91433	1286.8	1288.2
Brsk2	0.950887	3.85E-26	80.702	S(0.951)IS(0.021)GAS(0.003)S(0.00	2	-1.288	24210.2	27652.1
Cap1	0.814785	8.05E-36	102.45	SALFAQINQGES(0.815)IT(0.185)H/	3	0.31521	25185.8	25621.7
Phc3	0.677561	5.19E-06	50.865	MDRT(1)PPPPT(0.27)LS(0.678)PA/	3	3.6781	5593.0	5651.1
Krit1	0.528976	1.96E-06	71.529	S(0.294)MS(0.529)S(0.177)VVEDK	3	1.6508	20830.1	16465.8
Sym	0.999963	4.23E-07	98.368	EVPISEVS(1)R	2	1.2442	8493.0	9302.8
Palm	0.991253	3.37E-19	74.561	ENS(0.007)AAPS(0.991)PIRPHS(0.(	4	-0.69748	43062.9	47477.8
Trio	0.555118	0.000157677	66.004	EAFPPS(0.555)S(0.445)PLQK	2	0.36258	43858.4	46079.2
Filip1l	0.917787	4.16E-08	61.127	AQT(0.002)PES(0.008)CGS(0.072)\	3	0.37552	2446.7	2377.6
Ahnak	0.999972	4.13E-17	99.092	GAFDGS(1)VPKIEGTLK	4	-4.3069	46253.3	43150.4
Alkbh5	0.785979	8.82E-36	103.75	KS(0.044)YES(0.477)S(0.477)EDCP	3	-0.56069	32225.0	30935.2
Fam129a	0.985743	2.33E-11	53.545	GAS(0.986)AILPGAPGDEAPGS(0.0	4	-0.52785	19206.9	18194.5
Fam110c	0.56481	0.0663002	42.843	S(0.031)QS(0.565)DLS(0.4)S(0.004	2	0.59175	7202.4	7885.0
Prex1	0.896194	8.11E-39	89.055	SNSSYLGSDET(0.104)GS(0.896)GD	3	0.10748	14556.7	13194.8
Snip1	1	1.92E-58	119.31	RPDAPAAS(1)PPPPAAESGSAGHR	3	0.97673	29208.7	32389.7
Asxl2	0.770244	5.01E-09	45.276	AAAAAAAAAAAAAAS(0.063)VGGT((	4	0.6017	1684.8	2246.5
Pcnp	1	2.45E-42	86.557	TLSVAAAFNEDEDS(1)EPEEMPPEAI	3	0.22296	115833.0	107956.2
Stac	0.751723	5.80E-18	74.87	YYS(0.752)S(0.248)PLLIHEQFGCIK	4	-1.1755	16982.6	16254.1
Etl4	0.915693	2.98E-10	65.276	SSIAS(0.061)T(0.916)PLS(0.023)PC	3	-0.95374	21069.9	19977.0
Gprin3	0.986202	0.00342385	55.724	S(0.986)IS(0.004)S(0.002)DS(0.00	2	0.91093	4408.0	4213.1
Kif21a	0.998155	8.47E-05	82.202	KVPEPS(0.998)PVT(0.002)R	3	-0.22124	92998.0	110492.2
Tbx3	0.5143	7.70E-15	79.652	SSTLSS(0.002)GS(0.071)VS(0.514)I	3	0.57084	7609.9	6782.8
Kctd17	0.775599	0.000102325	69.92	S(0.776)T(0.224)DEQLEEQR	2	0.57931	5600.9	5349.7
Parp8	0.67958	0.0289123	64.268	S(0.063)YS(0.257)S(0.68)NLR	2	0.20751	15124.4	14881.8
Wfs1	0.813533	9.70E-18	82.483	LNAT(0.138)T(0.814)S(0.048)LEQ[	3	0.6758	40883.9	39721.5
Spag9	0.918805	0.00679097	100.98	GSS(0.07)T(0.919)PT(0.012)K	2	-0.20386	25995.6	27483.2
Cacna1a	1	1.35E-06	57.973	MAGPPAPPGGS(1)PR	3	-0.11937	66054.2	69305.3
Ube2o	0.899718	1.26E-88	145.43	NMTVEQLLTGS(0.012)PT(0.063)S(	3	-0.95446	17276.0	15941.5



41163.3	43712.4	45081.8	41735.0	0.1	0.1	1002
70420.7	72937.2	79231.4	68886.0	0.1	0.3	232
7274.8	8654.6	8572.0	8405.1	0.1	0.4	116
8088.9	7450.7	8598.4	8156.2	0.1	0.5	757
3063.3	3774.6	4016.8	3331.8	0.1	0.6	603
3446.8	3893.4	3873.5	3234.3	0.1	0.5	400
1185.9	1400.8	1225.8	1311.1	0.1	0.4	522
25140.5	22531.6	30127.2	27965.0	0.1	0.7	450
24628.4	25992.0	25134.5	27857.0	0.1	0.2	265
6662.8	5887.3	6038.6	6823.3	0.1	0.6	463
20310.2	19904.9	21359.0	19053.0	0.1	0.6	276
9508.8	9286.0	8715.9	10588.0	0.1	0.5	582;582
47245.6	45363.4	47513.0	51396.0	0.1	0.4	116
49547.4	48242.0	50226.3	47583.0	0.1	0.3	2441
2320.0	2293.6	2736.5	2450.4	0.1	0.5	754
44925.8	47568.9	47626.3	45459.0	0.1	0.1	4563
30684.0	34279.1	33518.0	30466.0	0.1	0.3	385
20439.0	20409.8	19866.1	20290.0	0.1	0.2	601
8362.3	8517.0	7564.0	8473.7	0.1	0.5	216
14780.4	15005.7	14557.1	14974.0	0.1	0.3	1187
31088.6	31747.0	33441.1	31868.0	0.1	0.2	48
1914.5	1859.2	2196.1	2066.2	0.1	0.7	510
119697.7	120423.6	124197.8	115060.0	0.1	0.3	118
16843.7	17597.2	17670.0	17175.0	0.1	0.0	173
21720.8	21761.6	22616.8	21350.0	0.1	0.2	1685
5015.7	4114.1	5087.7	5078.5	0.1	0.6	720
95205.6	118806.6	97707.2	96277.0	0.1	0.6	1241;1228
7419.1	7837.1	7614.6	7389.4	0.1	0.3	685
4984.5	5457.3	5922.4	5307.6	0.1	0.4	212
13516.7	15058.4	15788.1	14731.0	0.1	0.3	412
44617.0	44007.2	40845.7	46282.0	0.1	0.4	31
25475.8	27100.8	27602.0	27980.0	0.1	0.1	208;365
63216.3	70265.4	73727.9	63959.0	0.1	0.4	2163
15214.8	16847.0	16972.2	16900.0	0.1	0.3	799

Mef2d	0.998427	4.17E-09	108.72	SEPV(0.998)PS(0.002)RER	3	0.43	17639.7	17415.7
Sh2b1	0.991401	9.15E-17	54.003	ASGS(0.001)LS(0.006)PPVLAPLS(0	4	1.3152	14383.7	14143.6
Stk38l	0.771221	1.60E-53	92.865	QLAYS(0.771)T(0.227)VGT(0.002)F	3	0.10867	17171.0	17687.8
Arhgap29	0.715195	0.00740785	44.71	T(0.042)EDT(0.243)CKS(0.715)PK	3	-0.62715	27812.1	21648.7
Cbl	0.595057	5.20E-08	53.768	ELT(0.016)NRHS(0.381)LPFS(0.595	4	-0.49249	6331.9	7461.3
Tjp2	1	3.12E-33	137.26	S(1)REDLAAAVSVSTK	2	0.18506	152185.9	161871.7
Smarcc1	0.999599	1.14E-17	85.397	KHS(1)PS(0.999)PPPPT(0.001)ATE	3	-0.29647	114536.6	127472.5
Ncor2	0.769701	1.87E-12	61.963	MGS(0.011)KS(0.01)PGNT(0.77)S(	3	-0.83008	11453.2	12208.7
Aff4	0.586235	0.000340696	48.568	QKS(0.041)PAQS(0.099)DS(0.586)	2	0.063424	3017.0	3225.5
Sorbs2	0.922613	0.00102872	53.377	S(0.01)HS(0.923)DNGT(0.067)DAF	2	-1.7508	24800.6	25003.1
Ehbp1	0.727625	6.34E-22	86.497	VGNY(0.001)ET(0.009)DT(0.059)N	2	2.382	5420.7	5327.6
Klc2	0.742024	0.0084033	43.592	T(0.01)LS(0.742)S(0.119)S(0.515)S	2	-0.23748	9296.2	9309.5
Enah	0.802598	2.35E-117	136.65	VISAPVS(0.001)DAAPDY(0.008)AV	6	-1.0933	10069.7	9823.7
Camsap2	1	6.31E-22	72.474	FDGES(1)DKEQFDDQK	3	-0.55075	36987.4	36102.8
Prex1	0.964774	0.00032966	76.311	S(0.965)INGS(0.034)LY(0.001)IFR	2	2.0906	22398.5	22064.4
Arhgap21	0.994998	0.000995616	61.165	NRS(0.995)PT(0.005)LSCR	3	-0.12358	16758.3	16668.7
Trpm7	0.993927	0.000213896	56.514	TLT(0.003)AQKAS(0.994)EAS(0.00	2	0.89218	9975.9	10521.4
Mpz	1	1.11E-42	160.84	QTPVLY(1)AMLDHSR	3	-0.35354	59300.0	61415.2
Ddx59	1	3.01E-07	141.1	RNS(1)NDDLK	3	0.18876	23376.5	22728.1
Parp4	0.639109	1.56E-09	76.82	APELAAT(0.639)QRS(0.361)PLR	3	-0.15597	23980.0	24051.0
Map2	0.844943	4.93E-22	86.539	KT(0.008)T(0.006)AT(0.139)S(0.84	3	-0.99996	63633.0	62440.8
Bcas1	0.979547	1.34E-21	92.773	ADLT(0.98)PQET(0.02)QGTAK	3	0.57302	71595.4	73017.2
LOC100361	0.691124	2.78E-10	48.655	VSGLPT(0.001)PDLS(0.307)WQLD(	5	-0.71239	5608.2	7068.8
Papola	0.942096	3.20E-06	79.089	T(0.015)S(0.019)S(0.942)PHKEES(	3	-0.41733	37119.8	36244.3
Pnmal2	0.826415	3.26E-15	78.326	AGS(0.008)GAS(0.826)T(0.166)ED	3	-0.26442	29029.8	27765.1
Epb41l1	1	0.000751693	74.562	FAS(1)PPGPQR	2	-0.093518	60037.1	62325.6
Pik3c2a	0.888714	0.0124827	51.135	GFELS(0.017)NS(0.889)T(0.094)R	2	-0.26005	36626.0	42594.3
Mllt4	1	8.49E-27	82.639	ADHRS(0.535)S(0.465)PNVANQPP	4	0.69997	168609.1	167345.3
Cdkn1b	0.989922	1.44E-42	113.08	TEENV(0.001)DGS(0.99)PNAGT(0	4	0.66457	42188.7	41808.9
Tns1	0.875858	1.95E-07	57.045	HLGGS(0.876)GS(0.102)VVP(0.0	2	4.3531	13025.3	13342.9
Vangl1	1	0.0109785	41.242	NKDGRGS(1)EK	3	0.98653	8585.7	9178.4
Fam83f	0.700093	0.00739602	95.608	GS(0.001)S(0.072)S(0.7)VT(0.227)	2	-0.33302	25653.3	23942.4
Ubox5	0.671423	3.64E-28	83.891	ASSATS(0.002)PLLS(0.671)PT(0.2	3	0.32344	17001.6	17092.1
Map1s	0.635599	1.36E-20	103.01	KAPARPS(0.636)S(0.363)AS(0.001	3	0.69965	14442.2	13611.6

19000.7	18790.6	19391.6	18427.0	0.1	0.2	430
14507.9	15096.9	15223.9	14747.0	0.1	0.0	130
15483.1	17138.5	18061.2	17520.0	0.1	0.3	282
29790.8	27106.3	27649.0	28240.0	0.1	0.6	911
6049.7	6863.6	7242.8	6674.0	0.1	0.5	622
160920.6	161232.1	170576.9	165610.0	0.1	0.1	682;709
110563.1	120115.6	107804.8	141320.0	0.1	0.6	327
11063.8	11331.8	14011.0	11025.0	0.1	0.6	2219
2597.5	3295.3	2478.9	3484.2	0.1	0.7	522
26491.5	26293.4	25638.9	27974.0	0.1	0.2	254
5411.3	5098.8	5529.8	6295.9	0.1	0.5	558;558
9770.2	9501.6	9361.7	10856.0	0.1	0.4	608
11488.6	10386.4	11698.4	10784.0	0.1	0.5	298
35164.1	39161.9	35113.5	39108.0	0.1	0.3	1118
20510.3	22618.5	22119.9	23314.0	0.1	0.2	314
17603.9	16752.4	19346.7	17351.0	0.1	0.4	1511
8818.0	10387.9	11010.2	9307.3	0.1	0.5	1255
61730.1	63582.1	65532.4	61983.0	0.1	0.1	220
21412.1	23945.0	23359.5	23416.0	0.1	0.2	13
19590.5	25096.7	23199.2	22537.0	0.1	0.6	1546
65246.6	66752.2	67248.7	66407.0	0.1	0.0	1598;1512
77295.1	75405.5	84706.1	72338.0	0.1	0.4	374
6787.2	7657.5	5808.2	6924.4	0.1	0.7	476
44754.4	40496.1	40312.5	42932.0	0.1	0.5	648
28811.3	30712.0	30047.1	28924.0	0.1	0.1	612
55062.2	65151.7	62594.7	58129.0	0.1	0.4	1223;1215
39224.6	41767.7	39939.5	42380.0	0.1	0.4	60
164423.3	173947.6	172179.9	178090.0	0.1	0.0	1189
45839.2	44540.7	47671.1	43812.0	0.1	0.3	178
15748.2	13586.7	14534.6	16002.0	0.1	0.6	1459
9544.1	8398.6	10662.5	9549.4	0.1	0.6	42
26864.1	25186.9	28964.5	25956.0	0.1	0.4	490
17787.0	17591.7	18362.5	18402.0	0.1	0.1	391
15173.3	15122.2	16227.4	13940.0	0.1	0.4	675

Pcnx13	1	4.99E-05	53.308	VLS(1)MDGAGGDVLR	2	-1.1687	12914.3	14408.0
Copg1	0.915691	5.37E-13	63.869	SSPEPVALT(0.023)ES(0.916)ET(0.0	3	0.64373	4428.2	4385.9
Eprs	1	2.41E-05	106.67	RGMT(1)VEGLK	2	0.25872	88914.3	78628.0
Caap1	0.754553	4.24E-08	58.246	SVNEILGLVES(0.245)S(0.755)PKEP	4	0.37811	25386.2	24878.0
Hnrnpa2b1	0.992914	4.07E-57	100.14	NMGGPYGGGNY(0.993)GPGGS(0.	3	-0.72474	35388.0	33752.1
Mtmr3	0.664358	7.32E-49	115.68	S(0.664)FDNLT(0.108)T(0.173)T(0.	3	-0.37198	36797.7	34089.9
Ubxn6	1	0.00489138	47.429	GKS(1)PQLALR	3	0.7418	12970.4	13203.6
Sympk	0.837758	3.24E-05	59.75	T(0.074)S(0.086)S(0.838)PEAREPE	2	-0.61854	33713.5	31263.2
Mpz	0.999999	8.46E-38	145.21	GRQT(1)PVLAMLDHSR	3	-1.4948	229912.8	234761.7
Lrrc47	0.999852	9.30E-06	119.03	RQS(1)VSGLHR	3	-0.33175	45672.5	43724.1
Nfx1	0.982921	3.12E-05	65.565	S(0.983)PQGGFFQS(0.013)S(0.004)I	3	-0.46776	5781.8	6377.0
Prkx	0.59512	5.31E-31	91.276	T(0.01)WT(0.286)LCGT(0.595)PEY	3	-0.71372	13447.5	13782.7
Uhrf1bp1	0.649506	1.93E-08	61.127	S(0.014)DAS(0.335)S(0.65)DQGPV	3	0.18061	14280.0	13784.9
Gpatch8	0.999028	0.00398673	84.083	GS(0.001)S(0.999)PRPK	2	0.23636	58859.9	56923.3
Rbm15	0.576775	2.27E-07	55.437	QDGGTAPVAAS(0.423)S(0.577)PK	3	0.26777	5776.4	6338.7
Vim	0.979412	3.26E-21	86.539	ETNLES(0.019)LPLVDT(0.979)HS(0	3	0.25123	51563.1	45941.0
Apc	0.999999	2.48E-50	154.51	TDSTESSGAQS(1)PKR	3	-0.04713	47528.3	50921.0
Nes	0.999856	1.01E-14	83.245	SPAS(1)PKWDLAGEQR	3	0.63627	48969.0	57138.3
Bckdk	0.846807	1.65E-21	106.87	S(0.847)T(0.149)S(0.004)ATDTHH	4	0.032416	23079.5	26621.0
Pop1	0.820702	6.79E-05	43.841	MS(0.821)PHLLPES(0.176)DANEQ	3	-0.031793	12490.9	13709.2
Pacs1	0.509186	2.69E-49	120.42	T(0.057)NS(0.216)S(0.216)DS(0.5C	3	0.066958	23182.1	25373.8
RGD13099	1	5.41E-15	84.508	VGS(1)GDILMLPPS(1)PK	3	0.79921	83656.9	77457.5
Map1a	0.945068	4.58E-06	55.705	S(0.945)AEKADS(0.055)VEQQDGA	3	-1.3325	9542.2	8739.7
Ralgapa1	0.904608	0.00498623	41.259	VS(0.001)VDKS(0.905)FS(0.094)R	3	-0.43491	10755.5	11100.8
LOC10369	0.700414	0.0216766	56.404	S(0.3)PLS(0.7)PGAK	2	0.45901	18725.1	18658.5
Camk4	0.7897	0.0096362	52.193	RNS(0.79)EET(0.21)LK	3	1.7825	17227.1	19146.6
Fxr2	0.831709	2.82E-08	59.886	AGY(0.003)T(0.13)T(0.832)DES(0.(	3	-0.70204	46499.0	47913.2
Aak1	0.934469	4.07E-101	134.36	REQGS(0.001)S(0.001)GLGS(0.934	3	-0.3061	20128.9	19162.0
Git1	0.947068	5.17E-84	134.03	GVS(0.947)AS(0.05)S(0.003)VTFTF	4	0.49739	29623.8	28246.7
Klc2	0.835957	5.32E-35	161.87	T(0.001)LS(0.006)S(0.079)S(0.836	2	-1.947	80557.1	74826.0
Bag3	0.999968	3.13E-14	107.74	S(0.029)GT(0.971)PVHCPS(1)PIR	3	0.041969	94091.7	98454.7
Map4	0.999998	1.06E-40	122.64	VGS(1)LDNVGHLPPAGGTVK	4	-0.4304	203626.2	210772.2
Ralgapa1	0.927864	0.000631962	41.577	EES(0.928)KNDT(0.072)VDK	3	1.1297	40012.0	34541.8
Kcnb1	1	0.0145302	52.132	T(1)PPRS(1)PEK	3	0.39088	34128.5	30838.7

15169.0	14831.9	13869.9	15818.0	0.1	0.5	505
4302.6	4505.9	4684.9	4552.1	0.1	0.0	642
87967.1	87062.9	96419.5	84226.0	0.1	0.5	467
25038.3	25878.8	26549.4	26471.0	0.1	0.0	309
31972.3	33284.8	35543.1	37115.0	0.1	0.3	336
33922.7	37660.4	37328.8	34829.0	0.1	0.3	613
13937.2	13378.8	14585.9	14063.0	0.1	0.2	119
32153.3	34091.1	36915.2	30765.0	0.1	0.5	1386
245165.8	244884.0	248096.4	250800.0	0.1	0.1	216
44534.0	43760.8	50026.4	46548.0	0.1	0.3	429
6914.1	6635.3	7131.5	6218.2	0.1	0.5	81
13414.5	13916.7	14537.8	14134.0	0.1	0.0	207
13907.4	15027.6	13390.1	15562.0	0.1	0.4	920
59699.8	62181.8	60320.7	61374.0	0.1	0.0	225
6270.3	6401.9	6138.4	6725.1	0.1	0.3	782
48147.4	48224.4	54692.1	49708.0	0.1	0.4	436
54504.3	54027.8	55246.8	51002.0	0.1	0.4	2728
43763.2	48050.6	64387.9	44608.0	0.1	0.8	1594
23674.4	24965.8	26969.4	24956.0	0.1	0.4	31
13157.9	13023.5	15048.6	13172.0	0.1	0.4	61
24497.4	24705.1	26639.2	25210.0	0.1	0.2	529
80400.7	83340.6	86714.0	83035.0	0.1	0.1	1975
9456.9	10103.0	9445.1	9520.0	0.1	0.2	1806
10557.0	11552.9	11237.9	11176.0	0.1	0.1	714
19480.8	18935.8	21458.4	19196.0	0.1	0.3	296
18432.1	18380.3	17309.9	21744.0	0.1	0.6	437
42473.9	47505.1	49040.1	46906.0	0.1	0.3	413
18242.6	19875.2	19811.6	20608.0	0.1	0.2	18
28403.6	29480.0	31179.8	29755.0	0.1	0.1	570
76897.0	81273.8	80562.9	81592.0	0.1	0.1	610
99299.2	103660.2	106518.1	95683.0	0.1	0.3	294
229398.4	211467.3	238499.9	224750.0	0.1	0.4	2123;1047
38005.6	38742.8	38139.9	41083.0	0.1	0.4	349
32765.4	32663.3	33639.8	36126.0	0.1	0.3	728

Trim67	0.999346	2.61E-43	99.722	T(0.001)IAVQT(0.999)PDGEQHLPF	4	0.46672	21459.9	21591.7
Arhgap39	1	0.00524033	58.699	ELLERNS(1)K	3	0.041471	8239.5	8466.5
Nfix	0.97216	5.29E-14	116.63	S(0.001)IT(0.026)S(0.972)PPS(0.00	2	0.9003	29219.5	28109.5
Pgm1	0.957644	0.000154839	41.057	LS(0.001)LCGEES(0.958)FGT(0.033	3	0.30447	14963.4	15168.1
Map1b	0.747396	4.02E-23	92.38	ITSPES(0.001)ES(0.022)Y(0.747)S	3	-0.67378	34307.4	31318.0
Chst8	1	0.0274795	65.156	AAGS(1)PLR	2	0.43337	13860.1	11322.4
Sym	1	2.01E-121	171.25	S(1)PDREDGEEAPAGGFLFK	3	-0.99375	653481.0	616641.6
LOC68570	0.677894	5.89E-15	81.346	LQHGS(0.079)T(0.678)ET(0.167)A'	2	1.2396	46047.0	46135.1
Ank2	0.954184	5.25E-39	91.238	T(0.002)PT(0.002)EEGT(0.954)PT(I	5	0.69221	70940.6	70948.5
Gbf1	0.568606	2.05E-11	64.04	GYT(0.025)S(0.09)DS(0.108)EVY(0	3	1.257	4794.9	5879.2
RGD15602	0.59234	0.0360276	65.157	YNT(0.592)LPS(0.408)R	2	0.9477	6169.9	7411.5
Ttll7	0.852778	2.64E-21	89.507	GDVRPFS(0.853)S(0.147)QQVIPLA	3	0.84972	8171.9	9253.8
Dmap1	0.65169	0.000278985	73.877	ES(0.652)AS(0.304)S(0.022)S(0.02	2	-0.49819	9501.2	8888.8
Ahnak	0.986817	1.47E-07	50.358	VS(0.001)GT(0.001)DAT(0.008)AA	3	3.2081	5340.7	4777.8
Fam122a	1	5.92E-07	88.275	HGLLLPAS(1)PVR	2	-0.1038	28921.3	30097.1
Cbarp	0.997045	2.76E-07	54.103	LLQMDS(0.002)GY(0.001)AS(0.997	3	-1.0994	4411.5	4120.6
Smg7	0.722928	1.12E-53	94.275	VIPALGKS(0.103)PPHS(0.723)GFI	4	-1.1695	26762.5	24700.3
H1fx	0.996525	0.000130884	70.889	GAS(0.004)AAS(0.997)S(0.999)PAI	2	-0.50917	35818.5	39288.2
Tpcn1	0.999698	4.90E-31	129.65	GSAPSPAAQQT(1)PGSR	3	-0.42669	19610.0	19234.4
Arvcf	0.852882	3.29E-40	122.19	TLGS(0.001)DS(0.116)IGDS(0.853)	3	-0.34693	69554.7	70441.7
Ncor2	0.978907	2.71E-07	70.889	AS(0.001)T(0.02)S(0.979)PQKPLDI	3	-0.47238	10904.5	10936.4
Klc2	0.848401	3.92E-14	117.95	T(0.009)LS(0.101)S(0.848)S(0.042)	3	-0.35938	5762.1	5904.7
Zswim8	1	0.00979433	54.259	GWGS(1)PGRPK	2	0.16151	21581.5	25712.8
Emd	0.931009	6.86E-14	68.639	FSDLDS(0.034)AS(0.931)VDS(0.02)	3	-0.29401	23104.6	22249.8
Snx17	0.999015	7.90E-07	130.1	RS(0.001)DS(0.999)QQAVK	2	-0.045656	59852.2	51574.7
Ncoa2	1	4.53E-16	64.845	MLVKPLPDS(1)EEEGHDNQEAHQK	5	-0.017866	13185.1	11777.6
Ncor2	0.997544	1.12E-19	76.21	S(0.998)PGNT(0.001)S(0.001)QPP	3	0.31931	1936.3	2206.3
Nes	0.967368	1.41E-35	102.21	S(0.967)S(0.033)EEEEQVMER	2	0.11582	20192.1	19744.5
Cdk17	1	7.91E-05	87.667	RIS(1)MEDLNK	3	0.48922	41739.0	43146.0
Sgsm1	0.801957	6.46E-07	71.685	QDS(0.198)PT(0.802)KRPALCIQK	4	0.63107	126436.0	108575.9
Mbp	0.999971	1.11E-34	147.64	TTHYGSLPQKS(1)QR	3	-0.98441	50164.1	45741.3
Bin2	0.807497	1.07E-17	70.555	ASS(0.003)DAS(0.189)S(0.807)DPE	3	1.6285	3905.3	5037.3
Stt3b	0.998717	5.40E-08	55.051	SSLNsspws(0.001)GLMALGNS(0.9	2	-0.31482	3824.9	3119.2
Kcnn6	0.771237	4.62E-17	94.487	S(0.09)GS(0.771)T(0.134)T(0.004)	4	-0.32576	16752.4	17095.4

22066.8	23076.1	23640.5	21532.0	0.1	0.2	38
7044.9	7569.5	8798.9	8524.9	0.1	0.5	848
29367.1	28474.7	31045.2	31346.0	0.1	0.2	268
15639.6	15675.5	16151.5	16146.0	0.1	0.0	378
31853.0	34436.4	38482.9	29250.0	0.1	0.6	2016;1890
13304.8	14083.9	14346.5	11909.0	0.1	0.6	96
664666.6	709903.0	649756.9	668290.0	0.1	0.2	1047;1047
50698.3	49635.7	48007.8	52117.0	0.1	0.3	1528
69131.5	72960.3	77752.4	70471.0	0.1	0.2	3082
5167.1	6052.9	4682.0	5869.5	0.1	0.7	1324
6112.7	6431.6	6913.7	7297.8	0.1	0.6	202
8275.4	8612.9	9801.0	8525.6	0.1	0.5	611
9409.8	10346.2	9333.2	9460.7	0.1	0.3	455
5466.5	5479.1	5390.5	5467.0	0.1	0.3	5052
29442.7	31350.0	31013.1	30365.0	0.1	0.0	75
3934.2	4437.9	4631.1	3998.7	0.1	0.4	234
25844.2	27576.0	27960.0	25501.0	0.1	0.3	764
36872.8	36842.1	41603.4	38938.0	0.1	0.4	133
20302.7	19603.5	21283.1	21117.0	0.1	0.2	806
71550.3	72986.7	79194.0	69587.0	0.1	0.3	850
11237.3	11365.9	11739.1	11573.0	0.1	0.0	956
5393.8	6528.2	5629.1	5728.7	0.1	0.4	609
24660.3	25850.2	24991.3	24595.0	0.1	0.4	1124
26338.2	26602.5	25788.5	22771.0	0.1	0.5	69
55134.6	56452.1	63784.1	54386.0	0.1	0.5	409
10538.6	11350.5	13497.0	12372.0	0.1	0.6	210
2319.4	2279.2	2155.8	2340.1	0.1	0.5	2215
22078.5	22003.6	20932.6	22085.0	0.1	0.3	1005
41777.6	44815.7	44284.6	43704.0	0.1	0.0	137
97174.1	120786.6	126046.5	101460.0	0.1	0.7	217
42965.8	45826.5	52496.1	47283.0	0.1	0.5	101;75;101;75
5663.6	4787.6	5132.9	5394.6	0.1	0.7	393
3170.2	3219.5	3550.2	3835.6	0.1	0.6	29
16127.2	18128.4	16936.9	17336.0	0.1	0.1	200



Setx	0.88656	9.93E-07	41.16	S(0.103)LT(0.887)HPPAT(0.01)APE	4	-1.775	12651.9	11847.8
Rbm17	0.898473	2.52E-85	112.32	AAIPPPVY(0.033)EEDRPRS(0.898	6	-1.3693	131433.3	126222.0
Foxc2	0.850134	3.60E-29	117.8	T(0.85)S(0.15)PPGGDLSPAAAR	2	0.84098	40133.7	42528.5
Ncor2	0.739813	8.49E-07	77.068	GS(0.052)PVT(0.74)T(0.207)REPT(	3	0.2549	12143.9	12082.5
LOC100911	0.880713	1.58E-47	99.954	Y(0.001)LS(0.07)FT(0.881)PPEKDG	3	0.26227	82217.4	78516.1
Ttll7	0.834778	0.000745735	68.515	APS(0.835)FGT(0.165)DQK	2	-0.4875	59348.9	51400.3
Tns1	0.687382	5.88E-71	102.06	HPVGSHQVPGLHS(0.001)GVVT(0.1	4	-0.79871	13108.7	13808.0
Ppfibp2	0.521642	2.10E-06	49.592	SPPTASLQPDS(0.043)S(0.043)GS(C	3	-0.44918	25198.9	30643.4
Utp14a	0.620117	9.75E-12	60.814	T(0.62)PS(0.157)VT(0.157)S(0.065	3	-0.045711	9730.6	9833.2
Sgta	0.778266	8.92E-16	101.2	S(0.01)RT(0.151)PS(0.778)AS(0.06	2	-0.058169	8063.3	8356.3
Ctnnal1	0.669921	2.22E-17	71.853	LNRDT(0.67)DS(0.24)S(0.069)S(0.(	3	0.85258	12091.4	11322.4
Gtf2i	0.5	3.68E-06	40.432	VMAADADRPMLS(0.5)PGGS(0.5)C	4	0.53142	11723.8	10753.3
Mbp	0.995256	3.70E-22	143.18	YLATAS(0.005)T(0.995)MDHAR	3	0.19444	124754.3	112576.4
Mex3d	0.591737	3.06E-32	95.195	HS(0.408)PT(0.592)LPEPGGLSLELP	3	0.072622	12545.8	11524.2
Spag9	0.787986	1.09E-08	91.969	NVS(0.788)T(0.209)DS(0.003)AEN	3	-0.22316	10187.2	10398.0
Aimp1	0.739284	5.31E-37	107.56	KQQS(0.213)AAAS(0.739)ADS(0.0	3	-0.45125	13879.2	11186.3
Sorbs1	0.999538	6.31E-16	103.13	DDSDLHS(1)PR	2	-0.66382	39484.8	44422.9
Synj1	0.99784	1.49E-09	98.441	KEFGAPKS(0.998)PGT(0.002)AR	3	-0.12432	53928.2	59683.1
Kansl3	0.999213	9.46E-05	80.318	GS(0.001)RPAS(0.999)PAAR	3	1.0612	2839.7	3939.4
Atg9a	0.977284	2.10E-84	136.71	LEAS(0.001)YS(0.022)DS(0.977)PP	3	-0.16137	24893.6	26643.0
Zw10	0.99332	4.56E-10	57.802	IGPDCEET(0.007)LPDLPS(0.993)PC	3	0.44518	12116.4	10910.7
Zfp652	0.826792	3.84E-15	86.873	AASVAAAT(0.021)T(0.127)S(0.827	2	1.0203	19378.7	20286.3
Kcna2	0.52578	2.77E-13	53.091	TVATGDPVDEAAALPGHPQDT(0.52	4	-0.50199	15673.0	15225.2
Add2	1	0.00857762	67.334	NMGS(1)PRPK	2	-0.73818	11866.0	10027.4
Camk2g	0.840118	0.000350726	61.807	T(0.16)NGGS(0.84)LVPEGR	2	0.39643	14922.8	16526.1
Dnajc6	0.882593	7.87E-57	137.64	GAS(0.117)S(0.883)PDMEPSYGGG	3	-0.44816	265764.8	250831.5
Agap1	0.999221	6.72E-06	70.089	FVLMAT(0.999)PNLS(0.001)R	2	1.8076	5006.9	4494.2
Zfhx3	0.860939	1.03E-07	67.646	DQGS(0.139)S(0.861)GGEEGQSK	3	-1.0244	3100.0	3396.4
Fxyd1	0.792557	8.38E-43	132.79	TGEPDEEEGT(0.008)FRS(0.793)S(C	3	-1.1884	526746.9	586268.1
Trpv2	0.964796	0.000181139	85.554	EDRNS(0.965)S(0.035)PQIK	2	1.9955	40081.2	43479.5
Bcas1	0.518973	0.000759422	53.567	AGPT(0.481)S(0.519)LPLGK	3	1.6643	4546.4	4943.2
Cfap36	0.999865	6.76E-16	60.527	IPGLEHAS(1)MEGPIANLSALGTEELF	3	0.3039	22384.2	20620.9
Arhgap21	0.99072	3.21E-06	89.433	T(0.991)T(0.009)PPPSAPTAR	2	-0.90085	30775.9	30165.2
Ikzf1	0.995865	2.30E-08	97.203	AAS(0.004)ENS(0.996)QDAFR	2	-0.07573	3996.0	4583.1

11567.3	12028.1	13115.5	12675.0	0.1	0.3	2367
128342.6	130048.2	142599.8	132100.0	0.1	0.2	222
37404.1	44932.3	40753.8	40216.0	0.1	0.4	279
12053.9	12822.2	14298.5	10923.0	0.1	0.6	1532
75666.2	79453.4	88271.1	80170.0	0.1	0.3	143
61154.1	53007.1	67938.0	59324.0	0.1	0.6	346
13802.0	14356.7	14697.1	13648.0	0.1	0.2	1421
25197.9	36098.5	24529.7	24360.0	0.1	0.8	303
9982.7	9692.4	11140.6	10153.0	0.1	0.3	564
7163.1	8686.3	8097.2	7948.5	0.1	0.4	306
11921.9	12045.7	12345.0	12668.0	0.1	0.1	244
11097.8	11756.4	11887.6	11570.0	0.1	0.1	214
110818.6	127122.3	119795.0	118230.0	0.1	0.3	21;21;21;21
12312.6	12472.4	12728.6	12958.0	0.1	0.2	466
10041.5	10016.7	11996.6	10109.0	0.1	0.5	172;329
11302.2	11232.8	13940.5	12971.0	0.1	0.6	147
40515.0	43639.8	40830.7	46030.0	0.1	0.4	415
48745.7	56632.5	64753.4	48903.0	0.1	0.7	1144
3033.4	3393.2	3026.6	3872.0	0.1	0.7	388
24097.1	25863.4	26769.5	26697.0	0.1	0.2	18
11572.7	12921.2	12570.5	10800.0	0.1	0.5	437
20796.7	24609.4	19001.6	19808.0	0.1	0.6	203
16786.2	16214.5	17304.6	16498.0	0.1	0.2	22
9760.4	10829.4	11954.9	10418.0	0.1	0.6	455
15614.0	16314.6	16372.7	16678.0	0.1	0.2	426;415;403
265138.4	272878.0	277836.7	269270.0	0.1	0.1	36
5033.7	5643.8	5125.1	4477.6	0.1	0.6	1272
3307.7	3035.9	3673.0	3575.4	0.1	0.5	1175
535951.4	566798.2	606380.6	556570.0	0.1	0.3	82
35280.1	40884.4	47617.7	36161.0	0.1	0.7	46
4548.6	5326.7	4931.7	4467.8	0.1	0.5	415
22196.7	22805.5	23261.2	22332.0	0.1	0.2	254
30557.4	31340.1	33227.3	31418.0	0.1	0.1	321
4454.4	4494.0	4465.0	4713.6	0.1	0.3	402

Tln1	0.61754	0.0179881	44.425	T(0.215)VS(0.167)DS(0.618)IKK	3	-0.94695	13912.6	13511.8
Rap1gap	0.5	2.79E-31	129.36	S(0.5)S(0.5)AIGIENIQEVQEK	3	0.92972	33780.3	31261.0
Tjp2	1	0.00100297	60.943	RAAS(1)RDQLR	2	-0.54191	17965.3	18259.2
Dgkb	1	0.00861385	82.426	GAIT(1)PPR	2	0.36575	40113.4	39492.2
Heph	0.619337	0.00520829	67.032	S(0.381)ILDDS(0.619)FK	2	0.66743	14921.6	16598.5
Rftn2	0.970978	1.35E-15	66.36	EERPT(0.001)QS(0.008)DS(0.971)F	3	3.0858	16162.0	15364.5
Anxa2	0.5	0.000590173	75.819	S(0.5)T(0.5)VHEILCK	3	0.0063452	23424.2	22824.6
Anxa2	0.5	0.000590173	75.819	S(0.5)T(0.5)VHEILCK	3	0.0063452	23424.2	22824.6
Reps2	0.682897	4.69E-16	85.29	S(0.057)RS(0.683)YS(0.257)S(0.00	3	-0.75297	28668.4	28213.7
Prkce	0.952911	1.16E-83	131.04	LAAGAESPQPAS(0.014)GNS(0.953	3	0.21381	61371.7	64297.9
Trappc1	0.908934	0.00266676	66.056	S(0.909)RLDS(0.091)YVR	3	0.6694	5972.8	6399.3
Pou2f1	0.696529	2.59E-05	45.384	TIAAT(0.007)PIQT(0.697)LPQS(0.0	4	1.3015	3151.4	3959.8
Dock6	0.51355	2.27E-25	70.028	S(0.514)KS(0.402)IS(0.037)S(0.037	4	-0.37868	8167.7	7903.8
Bag3	0.886223	1.14E-06	82.663	S(0.886)GT(0.111)PVHCPS(0.003)F	2	-0.056395	37594.4	38096.9
Prickle2	0.952336	4.99E-26	109.1	T(0.048)VS(0.952)DLALQNAFGER	3	-0.79532	38917.1	39433.0
Wdr47	0.999828	1.39E-08	94.63	RPQS(1)ADAYMTR	3	-0.49128	12442.0	11730.4
Wwc2	0.57349	1.71E-08	110.08	S(0.004)DS(0.288)DS(0.573)S(0.09	2	-1.1847	64815.0	68301.6
Ppp1r9a	0.76614	6.25E-23	64.885	T(0.019)EAVS(0.766)PT(0.214)VS(i	4	-0.52303	23054.5	23340.2
Arhgef40	0.998275	0.000153043	117.76	S(0.998)IS(0.002)AQQR	2	0.86387	51447.4	51428.9
Uba6	0.749835	1.75E-06	47.088	NLPT(0.016)MT(0.171)T(0.062)ESI	3	-0.33864	5859.8	6275.6
Heatr6	1	0.00979433	54.259	AVLRGS(1)LDQ	2	-1.2562	29854.0	27462.4
Mapk8ip2	0.880657	8.44E-101	133.75	AGGGSGSQELS(0.005)GES(0.049)I	3	0.77599	22377.1	24154.1
Cep170	0.999807	5.61E-05	80.312	LVPSDKLS(1)PR	3	0.67685	52149.9	54057.1
Arhgef18	0.527869	4.47E-58	91.223	S(0.528)LS(0.468)PVLPAAHGS(0.0	5	0.22844	12669.8	12791.1
Cnm3	0.99984	3.26E-07	56.339	S(1)IPVEESPGRNPGV	3	0.74723	22273.3	22412.2
Edc3	1	0.0165595	61.815	HPNQAT(1)PK	2	0.72539	7180.9	5409.3
Clip4	0.888106	0.0186051	70.816	S(0.003)PS(0.888)LPS(0.109)R	2	0.21584	15002.7	14057.0
Mbp	0.999999	5.96E-17	134.39	S(1)PLPSHAR	2	-0.78984	408301.9	401262.4
Pdgfra	0.997159	4.00E-07	94.122	SLYDRPAS(0.997)Y(0.003)K	3	0.77644	14507.8	12131.9
Ank2	0.981495	2.43E-05	107.03	HS(0.003)PGS(0.981)PS(0.013)T(0	3	0.75102	43037.8	39297.0
Reep3	0.511682	2.18E-59	97.387	S(0.512)FS(0.444)MHDLT(0.044)A	4	0.42712	14164.3	13150.9
Kif16b	1	0.0211474	63.816	S(1)FHENK	2	-2.3662	11179.7	10854.2
Mprip	0.767475	8.06E-10	56.172	S(0.233)KT(0.767)FDWAEFRPIQQ/	4	-3.0903	10097.2	9495.3
Madd	0.845736	7.07E-20	71.428	AT(0.073)LS(0.846)DS(0.073)EIET(	3	0.55943	33656.2	33093.9

12690.5	13711.0	14195.9	14176.0	0.1	0.2	1643
32445.0	32966.9	35548.4	33754.0	0.1	0.2	589;597
13656.2	16948.2	19658.8	15722.0	0.1	0.7	958
37454.1	43414.3	41410.0	37982.0	0.1	0.3	110
15083.8	17822.6	14824.2	16245.0	0.1	0.5	1149
17837.0	18980.9	17280.0	15526.0	0.1	0.5	465
21349.3	23676.6	23515.5	23725.0	0.1	0.1	2
21349.3	23676.6	23515.5	23725.0	0.1	0.1	3
27841.5	30727.4	29307.6	28850.0	0.1	0.1	323;449
62853.3	63401.7	69283.4	65102.0	0.1	0.2	337
6199.9	6110.2	6929.2	6446.1	0.1	0.3	128
3490.2	4339.2	3369.9	3413.7	0.1	0.7	286
8181.9	8705.5	8052.4	8688.7	0.1	0.2	878
38969.1	42341.8	40940.8	37020.0	0.1	0.3	286
39909.2	41477.3	42427.3	40174.0	0.1	0.1	756
11672.7	12417.4	13227.7	11964.0	0.1	0.3	304
65077.3	77008.2	65507.9	65431.0	0.1	0.5	842
24986.1	24154.0	26583.6	24156.0	0.1	0.3	199
45836.0	51233.9	58406.7	46391.0	0.1	0.6	1079
5504.3	5889.5	6712.5	5905.9	0.1	0.5	36
29171.2	30364.4	29572.6	30808.0	0.1	0.1	1249
25612.1	24232.1	25409.1	26056.0	0.1	0.3	128
52218.6	56448.8	56738.6	53044.0	0.1	0.1	1250
14348.2	13687.9	14662.9	13420.0	0.1	0.4	1078
22651.3	22407.3	24396.1	23852.0	0.1	0.1	697
5984.8	7491.7	6418.3	5580.5	0.1	0.7	171
12448.9	15500.6	15066.8	12987.0	0.1	0.6	459
393023.2	442227.8	419517.5	400150.0	0.1	0.2	68;68
15122.2	13532.8	15428.0	14861.0	0.1	0.6	766
42616.6	44778.3	42271.3	44067.0	0.1	0.2	1868
14546.2	14635.0	14817.8	14476.0	0.1	0.2	150
11559.9	11551.8	10790.1	12911.0	0.1	0.4	673
8898.3	9510.8	10509.3	9878.6	0.1	0.4	640;663
32628.1	34492.5	35405.2	34393.0	0.1	0.0	1196

Ppp1r3d	0.999711	0.000330633	71.153	S(0.004)LPT(0.997)S(1)PERR	3	0.308	34229.9	37074.6
Camk2b	0.580433	3.58E-09	69.979	KADGVKPKQT(0.58)NS(0.389)T(0.0	4	1.1903	23071.2	21405.2
Arhgef28	0.95986	6.18E-42	113.73	NLESGRS(0.04)PS(0.96)EEEEEGQL	4	-0.72433	14138.0	15831.8
RGD13054	0.832305	4.15E-33	112.35	RS(0.046)S(0.832)FS(0.121)EGQTV	3	-0.9418	49178.9	47182.7
Ahnak	0.931345	1.17E-23	95.205	GPS(0.061)LKGDVAAS(0.931)S(0.0	3	-1.2026	53967.6	54300.6
Scaf11	0.83841	0.000333405	77.062	NERDT(0.155)Y(0.007)S(0.838)PR	3	0.30666	2774.4	3720.1
Heg1	0.817586	2.81E-09	70.197	EAIEMHENNGS(0.818)T(0.182)K	3	0.44153	10846.2	11327.8
Prkd2	0.907055	0.00404142	76.619	S(0.907)T(0.085)T(0.008)DLLPR	2	-0.54427	6508.7	6719.2
Tfpt	0.633069	4.18E-32	97.57	TTATLDPS(0.366)S(0.633)PAPGEG	2	-0.74815	7494.4	7457.6
Map1a	0.913031	8.43E-07	69.92	HT(0.913)QEALKAS(0.087)PK	4	0.57817	19140.1	16923.2
Eps8	0.984339	1.81E-13	65.855	ISAAASDS(0.002)GVES(0.984)FDE	3	0.96414	8080.6	7816.5
Samd4a	0.727113	1.13E-27	100.23	GRS(0.018)DS(0.252)VDYGQT(0.7	4	-0.58156	12562.5	12730.8
Add1	0.748527	1.06E-38	82.261	S(0.006)PPDQS(0.237)AVPNT(0.6	3	2.0299	108111.6	102471.6
Gas7	0.993901	5.25E-15	120.54	RKS(0.994)T(0.006)QAGDDLMR	3	0.23988	39239.2	31997.0
Stx12	0.873888	2.13E-14	76.826	ELGSLPLPLS(0.874)AS(0.126)EQR	3	0.21407	2647.0	3402.2
Ppm1j	0.999185	6.42E-73	140.9	TAETPVFSRPT(0.001)FLQLS(0.99	4	-0.059947	55211.5	57058.2
Epb41l3	0.952543	1.13E-28	78.674	TETIETEVEPT(0.953)PHPQPLS(0.0	3	-0.65048	12787.9	10558.5
Ppef1	0.991692	8.12E-07	96.604	YET(0.008)PES(0.992)PLNK	2	0.19212	36521.0	36538.2
Evi5	0.763052	0.035654	51.059	S(0.088)DS(0.149)KQY(0.763)IR	3	0.60523	20262.4	20022.0
Wdr7	0.998757	7.07E-42	113.73	TYQVPPVQPAS(0.999)PGS(0.001)	3	-0.11841	46798.4	44836.4
Hspa12b	0.999444	2.15E-36	105.94	RS(0.999)IDS(0.001)SFR	3	-0.21116	18962.4	19012.8
Tlk2	0.807383	3.34E-06	79.614	KAEPYET(0.192)S(0.807)QGK	3	0.038803	8284.9	7712.5
Snca	0.999623	0.000174142	89.301	EGVLYVGS(1)K	2	0.55096	59796.2	62812.6
Nsd1	0.999937	9.15E-28	82.479	RGKS(1)PENLGLDFLSGGVSDK	4	1.0969	15423.7	15615.7
Helz	0.78564	4.50E-58	94.185	RIS(0.786)S(0.214)GAAQPCVEAS	4	0.47695	33044.4	30300.1
Ptms	1	8.41E-06	82.069	SVEAAAELS(1)AK	2	1.3531	16289.6	16944.0
Epb41l3	0.99936	0.00975276	61.679	LS(0.001)RS(0.999)PLK	3	0.11434	30735.3	28064.6
Farp2	0.822549	1.70E-22	61.382	QAS(0.823)LS(0.136)T(0.041)AEQ	3	-2.6761	15927.0	16916.6
Usp47	0.996109	1.28E-07	56.569	LFVLLPEQS(0.996)PGS(0.003)YSK	3	1.3818	7633.9	8531.4
Esrra	0.999724	1.96E-42	88.945	CLPGHKEEEDGEGAGS(1)GEEQSGG	4	-1.2138	15488.1	15340.4
Gab2	0.751736	8.11E-16	65.765	KSTGSVDYLALDFQPGS(0.752)PS(0	3	0.92092	27251.5	27301.1
RGD13054	0.51201	0.00105807	50.484	T(0.488)S(0.512)PALHPCAK	3	0.26742	4200.9	4264.8
Ncam1	0.905752	1.09E-15	99.392	NPT(0.001)EAAT(0.094)APAS(0.90	4	0.25624	63054.6	62996.9
Map1a	0.661157	9.88E-92	125.97	APSLDSSLPQLPS(0.036)PS(0.661)S	3	-0.29628	12281.0	10142.8

33702.3	36580.3	38185.9	35435.0	0.1	0.3	58
21318.4	21371.1	24476.2	23203.0	0.1	0.4	356;356;332
14477.0	16499.4	15563.7	14583.0	0.1	0.4	314
46092.6	50040.5	53247.3	46218.0	0.1	0.4	336
62904.4	56797.5	60113.4	62736.0	0.1	0.5	5013
2868.9	3179.0	3244.6	3403.4	0.1	0.6	949
11276.7	10058.6	12570.5	12479.0	0.1	0.5	1353
7222.2	7032.6	7068.9	7362.3	0.1	0.2	225
8034.6	8955.7	7264.3	7906.2	0.1	0.5	180
18694.0	19221.8	20026.4	18224.0	0.1	0.3	921
7485.9	7936.6	8055.8	8550.0	0.1	0.2	815
14555.8	14016.8	14739.8	13069.0	0.1	0.5	73
114129.6	112690.9	113938.8	114190.0	0.1	0.2	659
34183.5	35941.2	38697.7	36011.0	0.1	0.5	312
3174.2	2768.5	3613.0	3299.6	0.1	0.7	92
49251.4	59070.0	58657.9	51807.0	0.1	0.5	93
12303.0	12249.2	12299.0	12870.0	0.1	0.5	856;838;1175;621
31152.5	38246.7	36220.6	34917.0	0.1	0.4	636
17870.0	21282.0	20538.3	19221.0	0.1	0.4	663
42517.5	48304.7	47919.1	44589.0	0.1	0.3	1454
19425.5	19860.9	20591.7	19798.0	0.1	0.0	276
8498.7	8815.1	9018.5	7879.7	0.1	0.4	73
59972.3	55329.1	70626.7	65711.0	0.1	0.5	42;42
14541.9	16605.0	16045.7	15199.0	0.1	0.2	177
33183.8	34251.6	33135.4	33946.0	0.1	0.2	1784
15721.6	15402.7	18472.6	17517.0	0.1	0.5	13
25530.1	30495.3	30441.4	27594.0	0.1	0.5	102;102;102;102
16221.9	17272.7	17072.7	17165.0	0.1	0.1	498
7426.3	7738.2	8506.7	8522.3	0.1	0.4	812
14829.4	16415.8	16451.8	15066.0	0.1	0.2	61
27782.9	28086.4	31121.0	27233.0	0.1	0.3	572
3785.1	4207.1	4413.0	4241.5	0.1	0.3	472
64831.4	66205.5	69646.7	64549.0	0.1	0.1	1017
13865.9	13272.1	12093.8	12734.0	0.1	0.6	2444



Eif5b	0.988361	8.70E-07	53.565	S(0.001)VPT(0.005)IDS(0.988)GNE	3	-0.14511	9501.2	10867.0
Gramd3	0.795745	4.02E-17	70.47	S(0.089)S(0.089)FDGS(0.026)NLLS	3	-0.053887	19206.9	18240.6
Zc3h14	0.85969	0.00869041	47.657	RPS(0.14)LPPS(0.86)K	3	-0.43126	5604.8	5450.9
Usp19	0.898343	0.000226655	72.705	S(0.003)DS(0.098)VS(0.898)PVMIF	2	-0.58463	12851.1	12983.1
Plekhn2	0.999361	1.46E-30	90.464	TKLDEEAS(0.999)PLHPNCS(0.001)I	3	-1.2501	34919.3	35167.1
Hrh1	0.940637	0.0224968	55.441	LRS(0.059)DDT(0.941)K	3	0.9828	8200.7	7021.9
Cog1	0.957423	0.000130301	44.238	QLAS(0.957)EEDGS(0.041)PAPS(0.	3	-1.2338	5074.5	4866.2
Dagla	0.998837	1.73E-12	100.13	LLS(0.999)PVAAS(0.001)AAR	3	-0.35732	15973.6	15708.9
Abi1	0.999813	2.43E-05	93.614	LGSQHS(1)PGR	2	0.46324	115259.4	109591.7
Zfyve16	0.967175	2.43E-05	43.164	CS(0.022)DDFS(0.967)PVLDPAPT((	4	0.19255	2810.0	2705.1
Ablim3	0.998809	3.25E-06	68.277	SSSY(0.001)ADPWT(0.999)PPR	3	-1.9031	3625.4	3333.0
RGD13105	0.884585	0.00123742	45.873	S(0.085)PPLS(0.885)PVGT(0.024)T	3	1.4258	9575.4	10776.5
Etl4	0.995106	0.00106951	67.519	S(0.995)GDVIY(0.004)T(0.001)GR	2	-0.84329	27045.2	27403.1
Cdv3	0.783	6.83E-55	91.616	AANAASGAGGS(0.004)S(0.014)AA	3	-0.29563	15571.6	14591.2
Gpr149	0.94962	0.000543721	46.823	GAS(0.013)T(0.037)PGT(0.95)PAA	2	-0.75611	4034.8	3482.7
Pdpk1	0.83017	8.42E-33	98.391	ANS(0.001)FVGT(0.088)AQY(0.83)	2	-1.6628	6806.7	7756.7
Map1b	0.99442	3.65E-11	53.998	EEDHEPKT(0.994)EAEDY(0.006)V	4	-0.43223	5491.6	5567.0
Stard13	0.9929	0.00493223	88.921	LVS(0.007)S(0.993)CHR	2	-1.4028	22513.0	21069.5
Micall1	0.983922	1.31E-18	100.07	KASES(0.004)S(0.011)ALT(0.984)P	3	-0.69285	40237.4	45845.6
Srgap3	0.999969	3.03E-15	92.247	SGGDTHS(1)PPR	2	0.44591	32420.6	30532.6
Usp31	0.974245	0.00519273	61.78	RS(0.974)T(0.026)DLGK	2	-0.30446	25668.8	26782.3
Clasp1	0.601305	1.24E-06	52.91	TSPLTS(0.002)PT(0.021)NCS(0.321	3	1.7668	19668.5	20198.6
Rtn4	1	7.56E-42	114.37	GPLPAAPPAAPERQPS(1)WER	2	-0.74316	193357.2	207964.1
Piezo1	0.606704	2.07E-15	59.038	KAPS(0.392)T(0.607)LLEVTVSDTEF	4	-0.16576	9715.9	8543.3
Ahnak	1	2.07E-05	44.341	GPGLDFEGPDAKLS(1)GPNLK	3	1.2288	8831.0	7964.3
Akap2	0.905237	4.36E-08	94.617	S(0.905)PS(0.047)DS(0.047)MAEG	2	-1.0268	29805.1	36799.3
Arhgap31	0.971263	2.41E-24	96.143	IIES(0.971)EEEFs(0.023)S(0.006)LF	3	0.73531	40485.5	40235.9
Srrm2	0.950553	1.46E-26	101.6	NHS(0.073)GS(0.951)RT(0.976)PP'	3	0.38269	34852.5	35820.9
Bola1	0.999943	6.01E-22	81.656	ENPQLDIS(1)PPCLGGSKK	4	-0.064682	22182.6	22874.0
Gabbr2	1	4.64E-23	98.562	TCKDPIEDINS(1)PEHIQR	4	-0.16249	71250.7	71907.2
Npdc1	0.658749	5.35E-16	104.16	KHQS(0.659)S(0.341)GEGLPQPR	3	0.95211	14142.8	14262.1
Arhgap1	1	0.0160296	72.607	LAS(1)IDEK	2	0.50384	42762.3	39448.3
Vps26a	0.805097	2.75E-12	71.601	FES(0.805)PES(0.186)QAS(0.009)A	2	-0.63359	5041.5	6133.1
LOC102551	0.677291	6.95E-07	41.65	EKVES(0.006)AGPGGDS(0.677)EPT	4	-0.1422	3647.2	3799.3



10994.6	9638.6	12495.7	10793.0	0.1	0.6	215
18662.1	20231.6	20054.2	18623.0	0.1	0.2	80
5340.6	5968.8	5957.9	5287.5	0.1	0.3	347
13420.9	13561.4	14515.4	13137.0	0.1	0.2	283
31747.6	34308.8	36656.6	35950.0	0.1	0.3	333
8568.1	7190.5	8733.9	9055.0	0.1	0.6	244
5184.9	5348.4	5445.1	5088.4	0.1	0.1	959
14185.3	16319.0	16509.5	15333.0	0.1	0.3	744
117525.8	122040.5	121910.9	115550.0	0.1	0.1	225;220
2735.3	2939.9	2840.5	2882.8	0.1	0.0	907
2938.8	3182.8	3558.7	3650.9	0.1	0.5	543
11062.7	10147.5	12202.8	10637.0	0.1	0.5	193
29540.6	29586.7	29553.3	29054.0	0.1	0.2	920
15257.4	14822.0	18055.8	14817.0	0.1	0.5	51
3707.5	4161.8	4019.8	3605.6	0.1	0.5	240
7565.9	7935.7	7368.5	7933.9	0.1	0.3	251
6332.8	5807.2	6497.9	5957.7	0.1	0.4	1033;907
20312.3	21775.9	23422.5	21899.0	0.1	0.3	330
42087.4	48797.5	43705.4	42092.0	0.1	0.5	184
29625.8	32372.9	33761.7	31085.0	0.1	0.2	850
26183.8	27095.3	29672.0	25810.0	0.1	0.3	978
18958.1	19160.2	21491.5	21124.0	0.1	0.3	1124
184885.7	201666.6	223058.0	190890.0	0.1	0.4	107;253
9341.3	8344.2	10190.1	10451.0	0.1	0.6	463
8058.8	8946.0	8799.2	8356.1	0.1	0.3	4593
32928.3	34905.0	32709.1	36914.0	0.1	0.5	161
39464.1	41151.7	45008.1	40058.0	0.1	0.3	655
32834.6	35074.4	37776.6	35855.0	0.1	0.2	2058
22493.8	22035.5	25832.3	23075.0	0.1	0.4	123
74654.8	82082.3	74173.5	72499.0	0.1	0.3	883
12571.3	14595.4	14453.4	13986.0	0.1	0.3	85
39656.8	42944.6	41404.6	43643.0	0.1	0.2	27
6435.3	5683.5	6706.7	6105.0	0.1	0.6	315
4171.5	3767.8	4148.5	4285.8	0.1	0.4	934

Srsf10	0.685672	0.0102901	43.77	T(0.049)DS(0.264)KT(0.686)HY(0.0	4	0.3304	4983.1	5645.1
Rnmt	0.997989	1.09E-20	80.596	GGGSEDEPS(0.998)PGGLT(0.002)E	2	-0.53826	6948.6	7249.5
Echdc1	0.999812	3.21E-09	123.26	SLLASLS(1)VR	2	1.2844	13681.2	13226.6
Dclk1	0.919292	9.61E-21	101.72	ISQHGGS(0.506)S(0.512)T(0.919)S	3	0.55275	126758.0	121933.1
Wdr44	0.958791	1.32E-92	125.62	TKEYVSN DAT(0.041)QS(0.959)DDI	4	0.48548	16264.6	17464.0
Speg	1	7.70E-11	88.134	ARS(1)LEQPK	2	-2.2974	46728.0	54775.5
Bag3	0.734213	0.0144631	44.193	S(0.184)S(0.734)LGS(0.082)HQLPF	2	-0.12496	11151.8	10038.2
Srp72	0.646263	2.73E-105	142.79	T(0.031)VS(0.128)S(0.546)PPT(0.6	4	-0.21477	42682.4	45034.9
Alkbh5	0.519157	8.82E-36	103.75	KS(0.262)Y(0.041)ES(0.519)S(0.17	3	-0.16187	8102.1	7589.8
Asap1	0.688938	2.43E-52	125.92	SPRPQSFCHS(0.009)S(0.19)S(0.68	3	0.4637	18150.2	18362.4
Arhgef7	0.930622	2.13E-21	104.88	S(0.931)LDMT(0.069)DNANSQLVV	3	-0.51749	25798.8	26363.3
Akap12	0.985488	1.47E-37	100.76	EMCVS(0.006)GGDHT(0.985)QLT(I	3	-1.7135	18277.8	18274.6
Mybbp1a	0.990366	2.53E-08	113.82	S(0.99)PS(0.01)LLQSGIR	2	-0.35431	6217.7	6033.9
Disp2	0.97796	2.78E-43	90.98	QDS(0.978)QGQKT(0.022)EPLQAL	6	-0.17792	25193.0	27191.4
Ncoa7	0.933675	5.41E-07	91.812	S(0.029)VGS(0.934)PEES(0.022)T(I	2	0.37629	16883.6	19182.8
Ap4e1	0.996438	1.05E-42	92.924	QS(0.996)PAGVS(0.003)LGSDISGN	4	0.096014	26947.4	26508.0
Fam110b	0.999983	1.68E-20	76.237	VAAMKS(1)PDADQVEPACGVSR	3	0.64356	49508.1	52588.3
Cdhr5	0.49994	4.45E-05	63.462	TVQAGDS(0.5)PS(0.5)AVR	2	0.3775	11238.1	12456.6
Cdhr5	0.49994	4.45E-05	63.462	TVQAGDS(0.5)PS(0.5)AVR	2	0.3775	11238.1	12456.6
Mief1	0.95911	0.00184068	72.731	AIS(0.04)APT(0.959)S(0.888)PT(0.	2	-0.9947	48502.7	47323.1
Dock3	0.944694	6.91E-05	83.194	GS(0.945)PS(0.055)LPDK	2	0.069095	31538.0	30833.2
Ccdc117	0.982367	0.000818553	80.24	GPPS(0.018)S(0.982)PDGR	2	-0.34611	6851.3	6904.7
Vim	0.99546	2.91E-12	82.261	TYS(0.004)LGS(0.995)ALRPSTSR	3	1.055	26203.2	21804.5
Triqk	0.928953	3.12E-07	91.658	GRKDS(0.929)S(0.058)T(0.01)T(0.0	3	0.25196	86676.8	89858.2
Camsap2	0.999893	1.62E-05	67.136	S(1)IHRDHIESPK	4	0.59095	20712.1	21517.1
Fhod3	1	0.000377575	61.532	LPPPS(1)PVLAPR	2	1.8955	8685.8	9026.8
Kank2	0.904004	0.0016277	86.879	QLS(0.904)QES(0.096)QR	2	0.67318	6574.3	5756.0
Cep170	0.935345	1.14E-38	86.039	S(0.032)S(0.035)PVNNHS(0.945)S(I	3	-0.57674	13851.8	15243.8
Smarcc1	1	0.0105608	61.78	KAS(1)ANAR	3	-0.25198	8921.2	8093.5
Camk2g	0.762437	1.45E-53	95.968	RKS(0.762)S(0.278)S(0.238)S(0.72	6	0.21486	51925.7	63952.3
Col4a3bp	0.751361	9.01E-36	108.12	S(0.194)PS(0.751)MS(0.052)S(0.00	3	0.29175	36550.9	41935.1
Map7d2	0.99673	0.00554983	99.815	T(0.003)YPQS(0.997)PK	3	0.12938	100063.4	103759.4
Plec	0.575709	9.53E-18	81.643	AGVGAPVTQVTLQS(0.576)T(0.424	3	0.47272	4457.8	4726.6
Prrc2b	0.842222	1.82E-10	85.909	ALS(0.842)LS(0.153)S(0.005)ADST	3	0.079279	20917.2	19527.3

4675.1	5959.6	5148.5	4964.6	0.1	0.6	214
6420.1	7225.5	7363.5	7066.1	0.1	0.3	99
12169.9	12280.0	15296.6	13467.0	0.1	0.5	11
116003.4	134338.1	124785.5	123920.0	0.1	0.3	47
15272.3	17621.4	18361.4	15485.0	0.1	0.5	405
50849.4	45500.9	59299.0	55224.0	0.1	0.6	356
9944.4	10536.0	11302.0	10865.0	0.1	0.3	198
42869.9	45980.5	48563.5	42624.0	0.1	0.3	560
7817.0	8232.4	7385.2	9076.2	0.1	0.5	375
18630.2	18429.8	22340.0	17153.0	0.1	0.6	756
26494.7	28772.7	27127.5	26724.0	0.1	0.1	95
21368.4	18653.1	20760.5	21429.0	0.1	0.5	463
6246.1	6485.3	6322.8	6623.1	0.1	0.0	1323
25384.3	25686.3	29561.9	26445.0	0.1	0.4	1198
17705.0	18705.9	18339.0	19441.0	0.1	0.3	254
28970.0	28074.3	29771.4	28741.0	0.1	0.2	455
54566.1	51248.2	59574.8	53754.0	0.1	0.4	234
12556.4	12970.7	12991.5	12121.0	0.1	0.3	591
12556.4	12970.7	12991.5	12121.0	0.1	0.3	593
44800.1	50207.7	49027.2	48501.0	0.1	0.1	58
30639.3	34763.1	31716.3	31236.0	0.1	0.2	1766
6620.6	6946.4	7185.6	7275.6	0.1	0.1	52
25652.5	26625.6	25681.7	25080.0	0.1	0.4	42
86532.0	92369.1	98758.7	85256.0	0.1	0.3	6
19997.2	21048.8	24046.6	20281.0	0.1	0.4	1238
8704.2	8792.6	9869.7	9092.7	0.1	0.3	496
7321.6	6395.9	6692.9	7559.1	0.1	0.6	561
15149.9	14895.7	16619.5	14973.0	0.1	0.4	1564
7812.9	8855.7	8884.3	8346.2	0.1	0.3	318
49762.4	58060.3	61677.9	54302.0	0.1	0.6	355;355
36923.9	37354.6	42370.7	41537.0	0.1	0.4	377
95687.9	107754.3	110455.0	96492.0	0.1	0.4	330
3961.2	4157.0	4786.0	4869.7	0.1	0.5	650;536;507
19651.2	20205.2	22266.3	20674.0	0.1	0.3	415

Tbc1d4	0.918914	1.17E-07	87.138	S(0.919)LT(0.055)S(0.024)S(0.002)	2	1.1145	9474.2	10123.5
Adnp	0.794612	7.05E-06	58.461	DGAS(0.055)PS(0.013)ES(0.795)GI	2	1.0092	2694.1	2955.2
Kank2	0.80137	3.13E-36	102.43	S(0.801)S(0.167)GLS(0.012)T(0.02	4	-1.237	6591.7	6252.3
Gpsm1	0.558746	0.000333709	79.889	AS(0.441)VGS(0.559)LPGLR	2	1.0584	10852.8	10914.9
Kif5b	1	1.07E-17	96.773	GGGS(1)FVQNNQPVGRLR	2	-0.34814	31111.0	29263.5
Ube4b	0.99457	1.47E-83	130.9	DENPFASLTATSQPIAT(0.005)AARS	3	-0.78168	10618.1	11806.1
Tbc1d12	0.98363	1.45E-09	46.174	RQS(0.984)AGDLLPS(0.008)AGQS(	3	0.95688	7661.3	7545.2
Slain2	0.999997	0.00637327	94.409	S(1)LPNLSR	2	-0.278	29984.0	30908.9
Map1b	1	6.03E-06	66.152	VQS(1)LEGEKLS(1)PK	2	1.0296	100901.9	84025.9
Trio	0.516552	2.15E-24	71.295	T(0.001)RPGAVS(0.073)PLNS(0.75	3	0.033184	41256.0	38862.6
Vps35	0.935319	2.68E-32	98.684	RES(0.935)PES(0.065)EGPIYEGLIL	3	0.46835	22682.4	20706.5
Dgkb	0.686433	4.14E-22	74.516	GAIT(0.595)PPRS(0.686)S(0.686)P	4	1.4589	57943.9	57448.7
Fam120a	0.667871	2.68E-08	58.024	VEGS(0.006)S(0.028)T(0.131)AS(0	3	-1.7441	6212.1	6404.9
Zdhhc5	0.999985	7.58E-43	99.663	LLPTGPPHREPS(1)PVR	3	1.1853	75730.4	74472.8
Dgkb	0.686433	4.14E-22	74.516	GAIT(0.595)PPRS(0.686)S(0.686)P	4	1.4589	33433.2	32663.9
Arhgap32	0.62562	4.21E-07	84.759	DVINRS(0.374)PT(0.626)QLGK	3	-0.60055	37198.5	36463.6
Epb41l1	0.999386	0.000398538	84.507	ET(0.001)DPS(0.999)PEER	2	-0.13532	10288.9	9968.0
Nek1	1	0.0096559	57.149	KMNS(1)GEER	3	-0.73724	10415.3	10447.1
Tns1	0.988962	3.80E-14	118.52	QGS(0.989)PT(0.011)PALPEKR	3	-0.50041	234492.7	220315.3
Vapa	0.997825	7.43E-34	98.299	QDGPLPKPHS(0.998)VS(0.002)LNF	5	0.46757	40549.9	39380.3
MAST1	0.994441	6.37E-21	71.678	LS(0.994)PDPQT(0.005)PT(0.001)\	3	0.29961	44145.8	42025.0
Nadk	0.562982	2.09E-17	71.148	T(0.563)RS(0.41)LHGPCPVT(0.024	4	-0.42909	8178.6	8558.2
Arhgap23	0.741912	5.02E-47	141.86	GLGS(0.011)S(0.086)T(0.742)DDD	3	-0.30365	24868.6	25411.1
LOC10369	0.917502	2.46E-32	113.54	S(0.002)PQPAT(0.918)S(0.081)PVF	2	-0.51799	5056.4	6017.9
Hcn2	0.952808	1.46E-70	101.56	AS(0.001)RPLS(0.014)AS(0.953)QF	3	1.0071	51276.9	55710.1
Numb	0.874761	4.75E-16	92.264	T(0.001)NPS(0.123)PT(0.875)NPF	2	0.64092	22577.4	22502.1
Arhgef25	0.999999	4.94E-06	69.92	SGGPGVGS(1)PGR	2	-3.3367	31294.7	27889.1
Gbf1	0.765158	2.73E-12	69.07	S(0.235)AT(0.765)DADMANSGLW	3	0.85575	15599.1	14018.6
Cep170	0.811605	1.70E-31	92.01	S(0.175)DS(0.812)LDT(0.012)DS(0	3	-0.21701	26545.5	24951.5
Slc25a46	0.634044	7.05E-69	135.18	SFGSGTELGHVVT(0.634)T(0.366)I	3	-0.62538	47519.9	49962.3
Abcc4	0.920764	2.00E-25	81.346	ENEEAEPS(0.027)PVPGT(0.921)PT	2	0.18722	34479.2	32331.6
Sf3b1	0.787062	9.99E-28	83.666	WDETPASQMGGG(0.209)T(0.787)I	3	-2.1307	10381.8	10904.2
Map1b	0.999939	7.53E-42	144.46	T(1)PEDGGYSCEITEK	3	0.41245	346234.8	400439.7
Dpysl5	0.999997	6.53E-31	111.66	EMGT(1)PLADTPTRPVTR	4	-0.45074	186845.2	202040.7

9687.2	10109.5	10375.4	10287.0	0.1	0.1	394
2878.9	2413.4	2991.5	3556.4	0.1	0.7	975
6251.7	6426.0	6884.3	6755.6	0.1	0.1	173
12259.4	11348.3	12637.8	11770.0	0.1	0.4	570
30410.4	30147.7	33200.6	32051.0	0.1	0.2	945
10845.5	11218.5	12869.7	10875.0	0.1	0.5	238
8066.6	7961.2	8102.1	8395.8	0.1	0.1	202
32467.3	32909.7	32492.1	32718.0	0.1	0.1	414
98198.3	98746.7	99378.5	99437.0	0.1	0.4	1765;1639
40668.3	41910.7	44795.4	40240.0	0.1	0.2	2427
21488.7	21900.2	23751.7	22535.0	0.1	0.2	783
55585.0	62008.0	61633.0	56063.0	0.1	0.2	115
5557.5	6605.7	6144.6	6351.8	0.1	0.3	508
77877.5	79324.7	84996.7	75406.0	0.1	0.3	529
30886.3	35902.7	34446.7	31588.0	0.1	0.3	114
37602.1	40660.0	38980.9	37308.0	0.1	0.1	605
10648.5	10731.6	10599.3	11155.0	0.1	0.1	1540
9410.7	10505.8	10737.7	10578.0	0.1	0.2	351
233646.3	241364.2	244804.9	237500.0	0.1	0.1	1533
36524.7	40639.1	41125.7	40648.0	0.1	0.2	164
44107.1	43544.1	49762.5	43640.0	0.1	0.4	1505
7641.4	8184.6	8961.0	8481.1	0.1	0.3	94
24565.5	26228.5	24488.0	27963.0	0.1	0.3	982
5836.8	5296.0	6336.4	6145.2	0.1	0.5	114
55289.0	55296.1	55007.4	60289.0	0.1	0.3	795
25753.7	24276.1	25425.2	24763.0	0.1	0.3	577
29954.8	31344.5	35720.5	26644.0	0.1	0.6	458
14710.2	15259.7	15382.1	15959.0	0.1	0.2	1338
25454.5	26964.4	27137.1	26797.0	0.1	0.1	934
46382.2	49454.2	52203.3	49588.0	0.1	0.2	44
33051.8	35418.7	35928.9	33641.0	0.1	0.1	646
10847.6	10802.6	12060.7	10920.0	0.1	0.3	350
374093.9	445516.7	358775.8	374020.0	0.1	0.6	1925;1799
193360.3	201072.6	211089.2	199980.0	0.1	0.2	509

LOC100911	0.939786	1.01E-14	86.748	ALNAET(0.94)PKS(0.857)S(0.203)F	3	-0.11305	79111.6	78274.7
Map4k4	0.969089	6.82E-21	110.97	S(0.031)DS(0.969)DEVPPRPVPR	2	-3.7441	254839.8	258575.7
Atrx	1	0.00695221	56.404	QFS(1)LPAK	2	0.16789	20609.5	19803.7
Ccnl1	0.962706	6.62E-48	85.044	GLNLDGT(0.003)PALS(0.005)T(0.0	4	-0.88123	8567.7	8802.0
Nefh	0.805149	8.04E-31	90.978	S(0.007)PVEVKS(0.629)PAS(0.344)	4	0.11981	92277.6	99922.4
Sym	0.499947	1.89E-10	62.861	SEVSTIHLQS(0.5)S(0.5)GRK	4	1.0584	3317.1	2792.3
Camsap1	1	1.89E-11	85.837	S(1)PLDPGGELPEK	3	1.7112	47113.2	47003.9
RGD15652	0.936233	2.05E-14	108.14	QLS(0.936)PAT(0.064)QLAIQR	3	-0.31264	24265.1	22427.5
Pml	1	3.57E-14	82.709	ALDES(1)LAEPHLEDR	3	0.68064	32836.9	28705.2
Cep170b	0.930164	2.48E-36	103.84	EIHDVAGDGDS(0.061)LGS(0.93)PC	2	-0.33501	13841.0	13851.8
Sez6l2	0.98397	0.0350858	40.502	VT(0.013)QT(0.984)T(0.984)DPS(0	2	0.74375	17453.7	15255.9
Sez6l2	0.98397	0.0350858	40.502	VT(0.013)QT(0.984)T(0.984)DPS(0	2	0.74375	17453.7	15255.9
Prkd1	0.717002	2.21E-17	96.012	S(0.004)NS(0.277)QS(0.717)Y(0.0	3	-0.29566	48447.8	46579.4
RGD13051	0.846061	0.000844696	73.632	QLS(0.846)S(0.151)PCS(0.003)QK	2	-0.96944	21812.9	23185.5
Clasp1	0.86066	0.001895	41.577	S(0.07)RS(0.07)DIDVNAAS(0.861	3	-0.080968	14873.9	14389.3
Stac	1	1.57E-07	96.464	S(1)ADNFFPR	2	0.82824	56850.3	55873.6
Pex5l	0.982322	1.49E-05	78.814	S(0.982)QPELS(0.014)T(0.003)GK	2	0.85618	51807.6	47687.3
Sym	0.833941	3.85E-05	110.38	AS(0.011)S(0.155)LT(0.834)MHFR	2	-1.6018	8813.4	10497.0
Shank2	0.644579	5.24E-10	60.86	S(0.355)LS(0.645)PQLLQQTSPKPD	4	1.7936	18912.3	19516.3
Pmp2	0.999999	8.09E-15	125.53	SIVTLERGS(1)LK	3	0.53813	13086.1	15348.0
Tbc1d22b	0.589507	0.00239553	82.445	NS(0.056)S(0.59)DT(0.355)CLR	2	-0.10858	10340.7	9017.4
Pacsin1	0.547034	7.21E-43	81.831	KAEGAALS NATGAVES(0.084)T(0.0	4	0.29878	13511.9	10825.2
Pacsin1	0.835597	7.21E-43	81.831	KAEGAALS NATGAVES(0.084)T(0.0	4	0.29878	13511.9	10825.2
Lrrk1	0.956735	6.42E-07	58.712	DTFSVQPS(0.043)VPES(0.957)PIR	2	-0.45484	4944.3	5022.1
LOC685171	0.959587	4.36E-19	70.994	GKPELQGS(0.04)AS(0.96)QQMLNF	4	-0.38431	5345.9	4707.2
Map1a	0.999641	6.84E-09	56.884	AEDDS(1)CHLAPVSIPEPHR	3	1.0561	10844.1	11009.7
Ablim1	0.871133	1.50E-30	123.08	YDS(0.076)PLHS(0.871)AS(0.053)H	3	0.74599	165305.4	174957.9
Arhgdia	0.995377	4.20E-05	47.931	S(0.995)IQEIQELDKDDES(0.005)LR	3	0.61005	26692.2	21752.9
Prune2	0.999177	7.11E-09	55.851	LTLS(0.001)EGHPET(0.999)PVDGD	4	0.67282	8084.6	8165.1
Fam102b	0.959049	2.50E-15	74.793	S(0.041)AS(0.959)VPDELGAWGHS	3	-0.52306	5468.3	5628.5
Vipas39	0.994822	1.36E-09	127.87	T(0.005)YS(0.995)PELGRPK	2	0.68309	29817.0	25495.6
Tab3	0.741299	5.02E-59	107.01	APADIHESQAAAT(0.003)EEHLS(0.1	5	0.31061	4930.7	6393.0
Usp8	0.995598	7.11E-05	91.62	S(0.996)VENLLDS(0.004)K	3	-0.60921	39416.9	42200.5
Slc2a13	0.945329	1.37E-30	88.872	SLLAAS(0.055)AAS(0.945)LQGAE	3	2.8506	7374.9	8074.7

75058.3	79572.2	88477.3	76336.0	0.1	0.4	188
258207.6	262648.4	282934.2	265680.0	0.1	0.1	632;663;663
19449.9	21205.0	21479.7	20254.0	0.1	0.1	1076
8544.6	8863.8	8600.7	9781.3	0.1	0.3	238
102638.9	120258.6	93717.9	96014.0	0.1	0.6	684;654
3936.7	3145.9	3998.9	3417.8	0.1	0.7	597;597
50387.4	48904.2	51635.8	51393.0	0.1	0.2	1145
24913.7	25939.2	24671.8	24677.0	0.1	0.2	227
31119.5	35464.9	32042.2	29920.0	0.1	0.5	685
16071.8	15106.8	14753.7	16156.0	0.1	0.4	1334
15523.5	18523.3	17695.7	14496.0	0.1	0.6	833
15523.5	18523.3	17695.7	14496.0	0.1	0.6	834
49781.6	49042.8	53411.9	49807.0	0.1	0.2	257
23687.2	22380.9	24679.3	25161.0	0.1	0.3	599
14352.4	14154.3	17583.5	14123.0	0.1	0.6	609;609
51671.3	60222.8	54046.7	58588.0	0.1	0.3	56
52098.3	53686.8	55262.8	50453.0	0.1	0.3	192
8425.2	9979.8	10131.6	9053.1	0.1	0.5	163;163
20547.6	20812.3	22147.6	19055.0	0.1	0.4	67
13114.3	14497.5	15444.0	13748.0	0.1	0.5	91
8572.1	10225.8	10039.9	9103.9	0.1	0.5	141
12123.1	12429.5	13386.9	12523.0	0.1	0.5	345
12123.1	12429.5	13386.9	12523.0	0.1	0.5	346
5808.8	5415.9	5546.3	5626.4	0.1	0.4	1796
5701.5	5554.1	5367.8	5645.0	0.1	0.4	470
12641.6	11973.1	12025.4	12277.0	0.1	0.4	1473
190645.4	174651.6	195796.9	187860.0	0.1	0.4	624;537
25563.1	24534.6	27194.8	26100.0	0.1	0.5	34
8273.2	7908.6	8965.4	8915.2	0.1	0.3	2066
5469.8	5513.0	6151.8	5757.6	0.1	0.2	193
26798.1	28357.0	28772.2	29223.0	0.1	0.3	136
6258.0	6191.6	6571.3	5727.6	0.1	0.6	675
40121.0	42466.1	41613.0	43953.0	0.1	0.1	153
7942.0	7499.7	8118.0	8983.3	0.1	0.4	47



Slc1a4	0.772079	2.40E-05	47.082	AGPVAVAPELES(0.228)KES(0.772)	3	0.3999	17676.7	16351.7
Mdh1	0.912835	1.60E-27	82.01	NVIWGNHS(0.03)S(0.03)T(0.028)	4	-0.014231	15667.0	16805.8
Pxn	0.923615	5.16E-35	69.908	S(0.025)PS(0.025)GFS(0.924)ADEA	4	-0.53975	6825.9	6551.9
Ms4a6a	0.663069	1.87E-21	77.959	NKS(0.163)S(0.663)IS(0.041)S(0.0	3	-0.84923	8418.6	8609.1
Mapt	0.999273	2.78E-22	107.97	TPSLPT(0.999)PPT(0.001)R	2	0.088895	143992.2	167520.8
Stk11ip	0.964496	8.40E-16	89.358	T(0.036)LDPS(0.964)PAGWFVQQF	3	1.1529	8866.6	9014.4
Oxr1	0.698308	1.22E-30	89.663	S(0.06)QS(0.242)VDIT(0.698)APGF	3	0.49631	14916.8	12402.8
Slc4a4	0.753036	0.000205517	80.706	S(0.001)LPS(0.246)S(0.753)DKRK	3	-0.1301	32926.3	30417.4
Acot7	0.998864	1.66E-101	131.03	LIHSAPGLDTC(0.001)QIPPPPS(0	4	0.22097	48709.0	46819.6
Actr1a	0.97693	1.78E-21	83.229	AEVIPS(0.977)PT(0.023)EEASGLQF	3	-1.8206	36416.1	35922.9
Pcdh17	0.59123	0.0300468	63.565	LPLS(0.591)S(0.409)PR	2	-0.36702	3784.0	3942.0
Ank1	0.999439	1.05E-05	101.3	GPPES(0.001)DS(0.999)PK	3	-0.066906	195229.7	177667.3
Cic	0.908229	1.24E-11	54.167	AQS(0.081)VS(0.908)PVQAT(0.005	3	-0.25332	27746.5	28621.8
Zmynd8	0.987873	9.98E-32	88.565	ELSESVQQQS(0.988)APVPLIS(0.01	3	-0.80482	12731.9	13126.8
Usp47	1	1.53E-14	88.565	AGGDS(1)GNVDDDCER	2	-1.6207	4597.9	4164.4
Eif4g1	0.923827	3.72E-05	107.21	KAAS(0.076)LT(0.924)EDR	3	-0.33578	86899.8	90464.8
Exoc1	0.675629	1.28E-08	107.97	LTGS(0.03)T(0.516)S(0.778)S(0.67	2	-1.0434	93689.7	88994.9
Dmwd	0.720231	9.73E-37	107.32	T(0.278)RT(0.72)LPGT(0.002)PGA	3	0.4753	13458.2	14398.1
Car14	0.95004	0.00166912	86.189	S(0.95)VVFT(0.039)S(0.011)AR	2	0.03146	5270.3	6429.9
Foxc2	0.849139	1.74E-15	86.005	VET(0.151)LS(0.849)PEGALQASPR	3	1.1507	3805.2	3789.6
Amotl1	0.998967	0.000236145	66.663	DTTIS(0.001)NHS(0.999)R	3	0.47744	4228.5	4218.8
Rasgrp2	0.990729	0.00689256	44.543	RS(0.009)S(0.991)RPPEIR	3	1.3362	8112.0	6839.7
RGD13100	0.823374	2.11E-06	79.614	T(0.015)LS(0.823)MPT(0.161)GPS	3	-0.63421	25899.0	28123.8
Slc12a2	1	3.18E-10	48.18	AAAAAAAAAAAAAAAAAGAAGKET(1)P	4	2.5684	3296.2	3071.8
Mia3	0.9923	1.49E-120	184.24	EEAQPAS(0.992)PS(0.007)S(0.001	2	-0.22189	35747.0	35625.6
Limch1	0.989954	0.00513526	40.952	RQNT(0.99)PLQENDS(0.008)DS(0.1	2	0.11345	5030.6	4752.5
Map4k4	0.825537	9.97E-18	74.296	AAS(0.031)S(0.13)LNLS(0.826)NGE	3	-1.3935	24299.7	26277.7
Wrnip1	0.99834	3.48E-32	135.15	RPAAAAAAGS(0.002)AS(0.998)PR	2	1.0495	5906.4	5193.3
Bcas3	0.596213	8.97E-63	108.88	CS(0.115)PVPGLS(0.596)S(0.379)S	3	0.81831	41428.9	37845.8
Sptan1	0.954549	4.64E-26	79.69	DLAALGDKVNS(0.955)LGET(0.045)	3	0.43788	12034.1	13874.9
Ankrd13d	1	8.16E-22	83.783	GPES(1)PQK	3	0.32865	76481.8	66400.6
Tjp2	0.725911	2.70E-09	51.264	GS(0.726)Y(0.016)GS(0.251)DPEEF	4	-0.21055	16964.7	16486.6
Arl2	0.562523	3.92E-06	57.525	FNGEDVDT(0.03)IS(0.407)PT(0.56	3	1.5048	10582.6	11760.0
Fam117b	0.937725	7.75E-15	129.37	S(0.025)S(0.025)S(0.938)WGS(0.0	3	1.473	38066.8	40191.0

17584.7	18257.1	20043.5	15981.0	0.1	0.5	527
17896.6	17698.4	17230.8	18046.0	0.1	0.3	192
6757.4	6980.1	7419.8	6777.1	0.1	0.2	163
9787.9	9915.0	9045.3	9243.3	0.1	0.4	232
144088.6	162156.1	165490.2	151540.0	0.1	0.4	462;546
9337.4	9357.1	10612.7	8657.8	0.1	0.5	404
11516.2	12481.2	15232.5	13133.0	0.1	0.6	19
29206.3	30758.2	30847.5	35738.0	0.1	0.5	400;400
46013.8	49432.2	51819.6	47625.0	0.1	0.2	25
33195.5	38599.8	37119.3	35284.0	0.1	0.3	67
3421.8	4359.9	3715.6	3650.4	0.1	0.5	807
185439.3	200874.6	206707.8	179710.0	0.1	0.4	1604
30269.9	30885.8	30775.9	29470.0	0.1	0.2	1807
12385.0	13607.6	13462.8	13157.0	0.1	0.1	537
4569.5	4780.9	4580.2	4662.4	0.1	0.2	829
81108.7	90279.2	92206.9	89404.0	0.1	0.2	1204
91262.2	95236.7	92890.8	100040.0	0.1	0.1	473
13583.8	12943.2	15771.0	14877.0	0.1	0.5	453
5705.1	6405.4	5614.9	6288.8	0.1	0.5	316
3766.9	3668.3	3890.4	4393.1	0.1	0.4	231
4576.3	4348.8	4927.5	4423.6	0.1	0.4	675
7360.3	8085.4	7830.0	7555.9	0.1	0.4	586
26443.6	23607.3	30152.9	30887.0	0.1	0.6	1036
2920.4	3499.3	3302.3	2969.7	0.1	0.4	109
34420.9	37092.8	38826.0	35378.0	0.1	0.2	1905
5064.6	5084.5	5270.2	5265.8	0.1	0.1	716;730
24338.8	28208.5	24516.8	26091.0	0.1	0.4	825;855;856
5122.8	5738.7	5885.4	5443.0	0.1	0.4	153
39969.9	41214.4	43385.9	40856.0	0.1	0.2	486
12330.7	12124.9	13674.4	14433.0	0.1	0.5	1271
73334.7	76506.6	78470.5	72510.0	0.1	0.3	487
17328.1	16884.4	19061.4	17481.0	0.1	0.3	1129;1121
10643.3	13826.5	10456.8	10423.0	0.1	0.7	47
41549.8	41311.2	44686.4	40060.0	0.1	0.3	29

Serinc1	0.768602	1.85E-17	71.872	LT(0.036)LT(0.769)S(0.195)DESTLI	3	-0.46772	3115.5	3208.8
Ncor1	0.995684	0.00256081	43.761	GS(0.004)RPGKS(0.996)PER	4	-0.16619	11390.4	12346.9
Arhgap23	0.727632	6.30E-31	71.207	GPEPLGS(0.023)AS(0.002)S(0.024)	4	0.59908	11703.3	12066.1
Slc9a6	0.510426	8.89E-15	57.051	LVLPMDDSEPALNS(0.51)LDDT(0.1	3	-3.5757	9763.8	9180.3
Shc3	0.933713	2.32E-20	110.44	AAS(0.021)VECIS(0.934)PVT(0.045	2	0.096188	15795.8	15368.9
Numa1	0.999988	4.86E-108	179.78	QAAS(1)PQEPSELEELRGK	3	-0.08151	74756.0	74427.9
Ankrd34a	0.83962	5.93E-18	73.455	APSLPAPPHS(0.16)GAPGS(0.84)PF	3	-0.05936	9623.1	9414.2
Phldb1	0.916599	0.0280988	46.022	KGS(0.917)FS(0.083)GR	3	0.46953	23661.6	21761.7
Srrm2	0.717812	1.27E-15	66.925	S(0.004)MLQT(0.996)PPDQNL(0.1	4	-0.18037	32660.3	31653.7
Piezo2	0.762832	4.02E-08	100.52	KRS(0.763)CS(0.064)S(0.08)S(0.10	3	0.83649	18379.2	18305.3
Map2	0.638407	2.90E-32	73.936	YTVPLPS(0.159)PVQDS(0.638)ENL	3	0.071145	15941.4	16597.4
Pitpnm2	0.81987	2.34E-58	98.84	VAS(0.18)S(0.82)VEQLNTIEDEVSQ	3	-0.42134	28586.1	26810.8
Sptan1	0.534626	2.76E-36	105.96	S(0.015)S(0.015)LS(0.435)S(0.535)	3	0.058329	3327.1	3657.8
Gnl1	0.757009	1.04E-18	69.765	REEQT(0.039)DT(0.757)S(0.195)D	4	1.2603	39549.3	48043.8
Zfand2b	0.991947	1.05E-08	121.01	TLPSSS(0.005)S(0.992)PS(0.002)R	2	-0.56575	36001.0	35136.4
Psd3	0.757778	2.57E-38	87.511	IGS(0.758)T(0.191)T(0.051)NPFLD	4	0.041563	2231.6	2110.1
Git1	0.9921	7.41E-08	56.081	AAQEFKHDS(0.992)FVPCS(0.008)E	4	-0.30712	6432.6	7321.9
Nfib	0.721154	1.02E-05	113.22	S(0.008)LS(0.721)S(0.267)PPS(0.0	2	-0.6282	13300.8	12105.6
Filip1l	0.688314	1.90E-17	94.188	S(0.2)NS(0.688)NS(0.073)S(0.028)	3	-1.4731	34229.9	31654.8
Sash1	0.916202	1.97E-07	59.372	AS(0.003)PAS(0.916)PVS(0.071)PS	2	-0.50546	5910.6	5990.9
Kank2	0.767147	1.81E-42	92.788	S(0.233)RS(0.767)ELCLDLPEAPDDI	3	0.43097	12269.1	12626.6
Adam19	0.787174	0.00196573	43.532	AAGS(0.787)S(0.213)PEAGAQUIER	2	0.37265	4935.2	4858.0
Map3k11	0.833923	6.14E-07	57.366	NVFEVGAGDS(0.834)PT(0.166)FPF	2	-0.032942	23028.3	23455.3
Zeb2	0.964882	1.42E-58	117.22	AYLQSITPQGY(0.965)DS(0.035)E	4	-0.55622	33266.2	31831.4
Evi5	0.961045	1.64E-08	100.04	LIETDS(0.039)KS(0.961)LR	3	0.76323	22453.4	20833.7
Arhgap44	0.987601	2.32E-06	74.789	S(0.006)KELS(0.988)PGS(0.007)GC	3	-0.30658	47472.2	49127.5
Clic6	0.999962	1.06E-47	86.191	LQEETGEEEEARPE(1)GLKGPCEEAIK	4	-0.43898	18685.7	18766.0
Tbc1d15	0.984276	2.26E-107	183.1	S(0.002)LS(0.014)QS(0.984)FENLL	4	-0.26705	51446.2	49852.6
Pphln1	0.506604	4.18E-05	48.623	DT(0.097)S(0.367)PS(0.507)S(0.00	3	0.54071	8504.2	10853.6
Cep170b	0.98332	4.14E-55	134.29	GHKHEDGT(0.016)QS(0.983)DS(0.	4	-0.61161	120770.7	126298.8
Vps13d	0.675301	0.00715309	48.467	SDFVPS(0.324)AS(0.675)IK	2	-0.63097	15510.8	14083.3
Map2k4	0.980161	1.09E-06	79.886	T(0.02)HS(0.98)IESSGK	3	0.83775	40157.5	39496.6
MAST1	1	0.00523449	66.962	GG(1)PEIKR	3	-0.055634	60120.6	63281.0
Nup107	0.998445	0.0609835	45.908	QPFT(0.998)PPS(0.002)R	2	1.1499	4510.2	3934.4

3174.3	2585.8	3857.9	3550.7	0.1	0.7	347
12060.3	12640.7	12334.3	12691.0	0.1	0.1	2111
11311.8	13333.7	12122.7	11457.0	0.1	0.4	1132
8707.0	9806.5	9302.5	9986.2	0.1	0.3	640
17659.2	15674.4	18832.7	16869.0	0.1	0.5	479
70668.8	77745.2	82474.7	71126.0	0.1	0.3	269
8905.9	8942.9	10794.4	9667.2	0.1	0.4	460
22865.3	22397.4	25302.3	24162.0	0.1	0.3	534;591
34729.7	33701.7	36761.3	33764.0	0.1	0.3	986
18731.3	19830.1	20385.5	18102.0	0.1	0.2	2169
15791.8	17919.4	16643.1	16299.0	0.1	0.2	971;885
28044.8	28705.6	29886.8	29219.0	0.1	0.1	397;373
3416.0	3658.5	3673.7	3613.5	0.1	0.1	2122
49005.5	42402.3	50645.2	50708.0	0.1	0.6	50
34105.8	36469.2	38193.3	36097.0	0.1	0.1	173
2192.8	2252.7	2437.8	2186.8	0.1	0.2	1018
6132.2	6337.3	7290.5	7302.2	0.1	0.5	679
11842.0	13274.3	11992.3	13936.0	0.1	0.4	264
30673.4	33621.4	31523.9	36480.0	0.1	0.4	809
6196.0	6346.7	6546.8	6154.3	0.1	0.1	1016
12043.2	12892.6	13673.3	12313.0	0.1	0.2	248
5425.6	5734.5	4812.9	5471.0	0.1	0.5	819
26296.7	23541.3	26268.3	26797.0	0.1	0.4	525
33207.2	33719.3	36716.5	33038.0	0.1	0.2	1058
21003.3	22011.3	24279.6	21380.0	0.1	0.3	13
48053.7	48854.7	54120.4	49286.0	0.1	0.2	516
21468.5	18379.2	21282.0	22358.0	0.1	0.5	303
47125.3	50866.5	52629.6	52736.0	0.1	0.1	205
8728.7	10023.3	9250.8	10290.0	0.1	0.6	152
119250.5	126605.4	131656.9	127330.0	0.1	0.1	388
13414.5	14649.3	16227.4	14397.0	0.1	0.4	2128
34804.2	39861.4	45122.4	35503.0	0.1	0.6	78
63451.6	66112.0	66593.6	63995.0	0.1	0.1	772
3942.5	4215.8	4326.4	4497.9	0.1	0.4	64

Srrm2	0.997022	0.000945634	96.009	VT(0.001)S(0.002)RT(0.997)PQRK	4	-0.31154	33170.8	31870.9
Tanc2	0.632582	0.000162333	57.973	QIAS(0.633)DS(0.93)PHAS(0.437)F	2	0.4256	3462.8	4093.2
Enah	0.835461	2.85E-07	55.66	T(0.004)NT(0.045)MNGS(0.835)KS	3	0.86518	30147.4	32467.6
Ppp4r3b	0.566859	0.0779196	48.157	T(0.217)S(0.217)S(0.567)GGFK	2	-0.27942	23613.9	20290.7
Mlh1	0.617921	0.0208468	56.81	T(0.618)DS(0.382)RDQK	3	-0.50808	15207.9	13006.1
Smg1	0.86177	0.0261227	40.496	S(0.138)IACS(0.862)PKK	3	-0.76116	45420.8	41686.1
Rapgef2	0.998779	3.10E-07	97.45	ILSLS(0.001)EEGS(0.999)LER	2	0.62789	7343.9	7869.2
Bap1	0.591613	3.14E-23	100.28	SANPT(0.005)RPS(0.592)S(0.396)F	3	-0.67368	14904.9	14415.7
Spp1	0.855413	3.49E-73	141.36	T(0.002)S(0.002)HES(0.141)S(0.85	4	0.41726	18258.7	17719.6
Pola2	0.636792	2.66E-14	66.017	S(0.637)PHQLLS(0.137)PS(0.096)S	3	1.4715	6615.6	7136.5
Sh3gl2	0.999392	0.0122965	47.302	AT(0.001)QKVS(0.999)EK	3	0.99853	8827.4	8144.7
RGD13099	1	6.14E-08	60.764	VGS(1)GDILMLPPS(1)PK	3	0.79921	91178.0	87396.7
Pcdh1	0.999915	1.20E-27	104.45	IHLPLNYPPGS(1)PDLGR	2	0.087624	31007.3	29591.5
Tanc2	0.999739	4.67E-12	104.74	EYPS(1)PPPSPLR	2	0.7702	50414.6	48924.6
Aplf	1	0.000440966	60.937	S(1)PVVNLDPK	3	-0.38559	72197.7	56888.2
Mapre3	0.804549	1.80E-12	80.787	T(0.805)S(0.188)PT(0.008)GPK	3	-0.22325	87357.8	82288.4
Mast2	0.994339	0.00277474	48.115	QAS(0.994)LLHT(0.005)S(0.001)R	3	0.0052836	5464.7	5151.2
Kif5a	1	0.00156113	59.367	RGHS(1)AQIAK	3	-0.61315	18875.3	23331.4
Kif5b	1	0.00156113	59.367	RGHS(1)AQIAK	3	-0.61315	18875.3	23331.4
Dock3	0.969796	2.00E-22	90.229	GNVLAS(0.001)HS(0.029)PMS(0.9	4	-0.35398	78051.3	74816.2
Neur14	1	1.82E-06	92.247	ALS(1)PEGALRR	3	-0.24956	9678.7	10153.7
Usp6nl	0.79659	9.47E-37	106.6	AAYPSS(0.003)Y(0.092)S(0.797)NF	3	-1.1075	35872.2	45301.5
Rapgef2	1	5.11E-12	69.188	DLPPFGINS(1)PQALKK	3	-0.83495	14842.9	14541.8
Spred1	1	1.10E-06	83.37	HVS(1)FQDEDEIVR	2	-2.5588	47509.2	47803.5
Mon1b	0.96596	1.76E-15	89.923	TAAS(0.001)DS(0.03)S(0.966)PT(0	3	0.078471	9261.2	8898.8
Luzp1	0.758985	1.27E-14	89.231	S(0.241)QENILQGFS(0.759)VPNK	2	0.16024	12736.6	12876.7
LOC10036	0.904035	0.030557	51.979	S(0.001)LES(0.904)INS(0.095)R	2	-0.23006	5196.5	5717.4
Tmpo	0.929807	6.54E-33	111.63	LSQSSHPESES(0.07)LS(0.93)PPR	3	-0.38525	10061.8	12160.4
Ddx59	0.630163	1.37E-16	59.352	EEEGS(0.002)LKPS(0.203)S(0.63)P	4	0.84796	9777.7	10761.6
Akap9	0.921011	2.56E-05	53.3	FOLDY(0.921)PRS(0.079)PLPLQNR	3	1.3756	4804.9	4725.1
Iws1	0.999794	0.00018603	70.806	MSSTGGQT(1)PR	2	-0.75896	7749.4	7960.3
Cbl	0.893583	0.000632826	78.113	ASS(0.011)S(0.095)S(0.894)LHK	3	-1.0107	12433.7	12332.6
Slc9a3r2	0.806869	7.97E-10	65.231	SVDPGS(0.002)PAS(0.807)LS(0.19	2	0.28901	8203.8	8975.2
Apc	0.977077	0.00244687	102.06	SELS(0.977)PIT(0.023)R	2	0.55537	7562.1	8174.0

29377.7	33548.8	34905.1	30944.0	0.1	0.4	918
2922.7	3937.1	3916.5	3177.8	0.1	0.7	472
31699.7	33458.6	33171.8	32660.0	0.1	0.1	720
22322.3	24606.1	24348.0	20768.0	0.1	0.5	737
15061.5	14830.8	15099.9	15630.0	0.1	0.4	265
41344.3	44319.6	48208.7	42710.0	0.1	0.3	3561
8658.7	8379.3	8392.3	8362.0	0.1	0.3	892;1249
14818.8	15069.4	15279.5	16124.0	0.1	0.1	518
20594.4	21421.7	17485.2	20657.0	0.1	0.5	213
7948.3	7775.1	7530.5	7543.0	0.1	0.4	141
6470.5	8073.7	8450.8	8159.0	0.1	0.6	18
88056.5	92767.3	97908.1	90074.0	0.1	0.1	1984
33026.3	32376.2	34960.7	31249.0	0.1	0.3	903
51925.8	51724.5	53736.8	53819.0	0.1	0.1	1606
56934.9	61865.0	60799.4	73214.0	0.1	0.6	131
87001.5	91698.1	93810.9	84742.0	0.1	0.2	146
5754.1	6016.9	5937.4	5283.6	0.1	0.4	1185
21792.2	25005.4	19683.4	22704.0	0.1	0.6	915
21792.2	25005.4	19683.4	22704.0	0.1	0.6	917
77777.4	81086.8	84826.8	76967.0	0.1	0.2	1658
8870.7	10529.4	9584.7	10112.0	0.1	0.3	258
38724.2	38933.1	41478.3	45849.0	0.1	0.6	541
14974.2	15491.8	16784.1	14437.0	0.1	0.3	877;1234
46631.3	51284.5	49059.3	49134.0	0.1	0.0	239
8237.7	9138.6	9199.4	9461.2	0.1	0.2	85
15128.6	13881.5	14585.9	14439.0	0.1	0.4	621
5832.6	5498.7	6234.7	5903.1	0.1	0.4	13
10309.1	11530.9	11772.2	10958.0	0.1	0.5	422
9174.4	9719.7	10996.3	10578.0	0.1	0.4	150
4771.6	5185.4	5020.1	4856.8	0.1	0.1	3704
7220.0	8968.1	7763.2	7418.4	0.1	0.5	671;670
11268.2	12590.1	13023.6	12338.0	0.1	0.2	525
8292.2	8587.6	9609.7	8629.4	0.1	0.3	186
7740.2	8952.6	8482.1	7290.9	0.1	0.5	2182



Trafd1	0.884986	2.15E-38	87.72	AMEGIPT(0.04)QDS(0.022)QPEDR	4	-0.79457	3928.9	4375.7
L1td1	1	0.00426998	54.343	EVKVES(1)PEVK	2	0.17557	18120.4	20387.3
Ei24	0.56548	1.57E-15	55.051	TVYLQS(0.002)ALS(0.179)S(0.565)	4	1.0558	11343.0	10574.7
Plekha6	0.988058	4.58E-05	92.19	QERPXS(0.988)AVFS(0.012)GEGK	3	-1.7049	25393.3	21797.9
Mylk2	0.698641	2.52E-08	69.331	IS(0.172)S(0.699)S(0.129)GALMAL	2	-1.9737	17577.7	16210.2
Rcsd1	0.783494	9.11E-27	87.208	AMVSPFHS(0.01)PPS(0.015)T(0.04	3	0.28253	42736.1	45471.5
Map1b	0.563899	8.01E-10	61.962	S(0.385)PDT(0.564)S(0.037)AY(0.C	3	-0.26307	25554.4	31754.6
Kcna4	0.797158	3.74E-16	79.69	QS(0.199)S(0.797)FPHCS(0.003)DI	3	1.9149	9688.0	9371.7
Alg3	1	0.00596902	90.906	SVQPS(1)RK	2	0.23502	23238.2	28152.3
Hnrnpm	1	9.66E-43	149.21	MGLAMGGAGGAS(1)FDR	2	-0.65369	44684.9	47906.7
Map4	0.801364	0.000159928	101.66	TTSAS(0.801)S(0.198)VKR	3	1.7561	54171.5	52162.7
Samd10	0.993609	0.0234776	47.743	S(0.006)KLS(0.994)PPR	3	-0.70557	7755.4	7584.6
Hbs1l	0.961636	7.49E-22	75.956	GPPGDDVSIAS(0.002)PNVPET(0.0:	3	-0.66906	13115.9	13288.0
Arhgap39	0.795059	3.75E-06	66.56	QT(0.001)PT(0.203)S(0.795)PCQQ	3	-3.0073	9953.7	10712.6
Aspscr1	0.827158	9.88E-92	118.86	S(0.081)KPPGS(0.827)PVS(0.034)S	4	0.17317	17606.3	18558.7
Sphkap	0.513732	4.71E-26	78.428	S(0.433)KENT(0.514)AENT(0.053),	3	0.22404	16629.5	14739.2
Ncor1	0.998632	4.89E-22	87.519	RDEGDPS(0.999)PHS(0.001)GVCKI	4	-1.3043	30179.6	31200.6
Akap2	0.914514	5.72E-46	87.792	S(0.005)VNVS(0.915)LT(0.081)QEE	3	1.82	13402.1	12907.4
Mbp	0.499963	9.91E-05	82.278	T(0.5)T(0.5)HYGSLPQK	3	0.50333	16269.3	13775.1
Mpz	0.967295	0.000127819	75.652	S(0.5)PS(0.5)RT(0.033)S(0.967)LK	1	0.37781	804975.2	756004.7
LOC102551	0.999573	1.06E-25	113.11	DGASGPES(1)PVQGPR	3	1.0097	13406.9	14476.0
Mzt2b	0.99591	3.30E-06	53.037	GGPILGNVT(0.004)IVAERGS(0.996	3	-0.63435	5229.1	4184.3
Epb41l3	0.994954	0.00520186	85.38	LST(0.005)S(0.995)PVR	2	0.21321	127938.7	120956.8
Dip2b	0.983978	2.65E-21	106.38	GTS(0.016)GS(0.984)LADVFANTR	3	-0.12823	43808.3	42474.7
RGD13062	1	0.000562155	70.321	VPS(1)PEAAPR	2	0.65646	20396.0	19355.1
Mta1	1	0.000806402	67.704	GGs(1)LPPVKR	3	-0.76321	89829.0	81194.7
Micall1	0.88971	1.02E-14	77.037	KAS(0.89)ES(0.084)S(0.008)ALT(0.	3	0.96374	14228.7	15057.3
Ldb2	0.716782	9.65E-52	110.89	KNS(0.717)T(0.179)S(0.046)S(0.04	4	-0.86887	26173.4	19766.4
Epn2	0.846351	0.00255709	47.037	AGGS(0.035)PAS(0.82)Y(0.846)HG	3	0.082027	2007.2	2247.1
Dmxl1	0.560215	0.0110091	60.064	NAS(0.44)S(0.56)KDR	3	1.445	21564.8	19054.5
Palm3	0.999326	1.48E-32	97.059	QEDPAS(0.001)KDPES(0.999)PEGC	3	-0.073492	16690.4	12120.9
Tbkbp1	0.994087	2.34E-06	44.158	S(0.994)PVPPS(0.006)CPAPQPRPP	3	0.8798	6284.2	6839.4
Pitpnm3	0.999955	4.80E-25	99.313	GS(1)PPLLDAPASPPQAPR	3	-0.2024	8432.0	8179.1
Kcnk2	0.999957	0.000286126	79.492	RLS(1)VEIYDK	3	-0.89748	3357.5	3563.7



5299.0	4423.9	4996.7	4907.1	0.1	0.6	415
20069.6	21229.2	20387.6	20078.0	0.1	0.3	336
10863.6	11650.8	11326.6	11549.0	0.1	0.1	317
26653.3	25839.2	27178.8	24758.0	0.1	0.5	1062;378
19278.5	18404.5	20336.3	17151.0	0.1	0.5	601
42535.6	46991.4	44184.2	46532.0	0.1	0.1	97
27969.2	29426.1	28711.3	31687.0	0.1	0.5	2030;1904
7827.0	9037.0	10280.5	9002.9	0.1	0.5	101
26324.3	29123.6	28560.6	24175.0	0.1	0.6	434
49644.3	53051.1	51468.0	45303.0	0.1	0.4	498
50313.9	54472.2	56653.1	53881.0	0.1	0.1	1917;841
6970.7	7276.7	8575.0	7650.5	0.1	0.4	10
13421.9	14099.3	14297.4	13556.0	0.1	0.0	207
10154.8	12700.1	10141.5	9625.5	0.1	0.6	364
18077.6	18708.1	19812.7	18619.0	0.1	0.1	116
18010.5	17999.7	17779.0	16238.0	0.1	0.5	313
32140.5	32906.4	33184.6	32427.0	0.1	0.1	2290
13855.3	14361.1	13888.1	14062.0	0.1	0.1	517
13113.2	16603.9	13887.0	14973.0	0.1	0.6	92;66;92;66
841152.3	895422.2	853525.9	781590.0	0.1	0.4	297
14170.4	14552.5	15647.1	14102.0	0.1	0.3	859
4729.4	4973.8	5477.9	4447.4	0.1	0.6	126
131781.4	129630.3	139468.7	131940.0	0.1	0.2	778;760;800;584
43686.5	46651.5	46758.5	43512.0	0.1	0.1	152
18249.0	19695.9	20546.8	20861.0	0.1	0.2	19;116
84525.1	90052.6	91124.3	88048.0	0.1	0.2	627
15396.9	14606.4	17038.5	15431.0	0.1	0.4	178
22622.6	24415.8	23534.7	24284.0	0.1	0.5	262
2277.4	2202.8	2523.1	2155.7	0.1	0.5	196
17910.5	19728.9	21573.8	20363.0	0.1	0.4	302
15719.4	15491.8	16167.5	15258.0	0.1	0.6	87
6421.2	6333.0	7335.7	6923.9	0.1	0.4	303
8210.6	8563.8	8471.0	9118.2	0.1	0.1	534
4746.8	3799.4	3974.3	4520.3	0.1	0.7	333

Dpysl5	0.98814	6.53E-31	111.66	EMGTPLADT(0.988)PT(0.011)RPV	3	0.44885	143550.9	154324.9
Cenpc	0.986839	1.40E-05	63.062	S(0.013)NS(0.987)EVGDEKDQK	3	0.18626	11140.8	10679.1
Arid1a	0.615493	1.55E-10	64.104	T(0.144)S(0.144)PS(0.089)KS(0.61	4	-0.25406	10155.4	10003.6
Stxbp1	1	0.0377694	59.908	DLS(1)QMLK	2	-0.10342	17949.8	15502.7
Ahnak2	0.95566	1.12E-19	65.248	MPS(0.956)FS(0.044)VS(0.001)AS(	2	-0.41228	27429.2	27091.6
Pacsin2	0.797455	2.12E-06	74.841	NVS(0.797)S(0.201)Y(0.002)EK	2	0.34877	31286.4	32440.2
Lipe	0.560077	2.25E-09	61.345	RS(0.432)S(0.56)QGVLMPLY(0.00	3	0.92252	34429.1	33625.9
Gng2	0.707335	0.000132146	49.708	EDPLLT(0.707)PVPAS(0.293)ENPFI	2	0.36667	5274.1	6722.7
Parp3	0.859922	2.08E-05	120.53	S(0.135)S(0.86)MQT(0.005)EGSK	2	0.30273	27030.9	23345.6
Tmx4	0.926612	1.29E-06	72.662	EGS(0.927)VS(0.073)PKDEEAR	2	-0.96352	5064.6	5785.0
Lbh	0.996288	4.10E-42	101.89	LPS(0.996)IVVEPT(0.004)EGEVESG	3	-0.22186	28697.1	29414.9
Ndrp1	0.936	0.00127154	108.26	S(0.011)HT(0.936)S(0.07)EGPRS(0	3	-0.38472	3670.5	3407.6
Vamp2	0.999998	4.01E-48	89.973	DQKLS(1)ELDDRADALQAGASQFET	4	0.57779	14962.2	15493.9
Sorbs1	0.95401	4.70E-15	83.214	RPS(0.004)S(0.004)S(0.006)AS(0.9	3	0.033688	97904.7	92213.2
Eea1	0.83241	2.77E-15	52.311	VGS(0.832)QGS(0.146)DLDS(0.015	4	-2.0909	11736.0	11562.6
Eif2b4	0.999358	5.42E-07	77.367	T(0.001)ELS(0.999)PRPGAAGR	2	0.12039	56622.5	56582.2
Stxbp5	0.838841	2.56E-14	119.77	S(0.069)S(0.089)S(0.839)VT(0.003	3	-0.843	51570.3	45889.4
Camkv	0.987086	2.44E-16	57.443	AAAT(0.987)PEPAVAQPDS(0.005)	4	0.77357	11664.2	12793.3
Senp3	0.999995	3.25E-60	140.93	NHLS(1)PQEGGATPQVSPCCR	3	-0.026631	21824.8	22626.1
Rem2	0.610371	0.00443896	61.03	S(0.61)RS(0.312)CHDLS(0.078)VL	2	-0.3943	17691.0	18127.6
Synpo	1	1.05E-12	70.563	AGLPPS(1)PALPR	2	-1.7607	29881.4	30139.9
Aven	0.974859	4.38E-05	114.24	QS(0.024)PS(0.975)EGS(0.001)QK	3	1.47	22133.7	20096.6
Zfp263	0.5	0.0012614	42.947	LEPMET(0.5)ERS(0.5)PGPR	3	1.3799	13385.4	14915.8
Zfp263	0.5	0.0012614	42.947	LEPMET(0.5)ERS(0.5)PGPR	3	1.3799	13385.4	14915.8
Fcho2	0.997633	1.03E-71	101.84	LSGINEIPRPFS(0.998)PPIT(0.001)S	5	-0.83632	27215.8	26966.6
Osbpl10	0.8464	5.21E-21	103.01	ATSAGS(0.131)S(0.846)PS(0.022)C	2	0.71852	13294.8	12694.6
Ncor2	0.905287	2.32E-09	93.478	IVGEDS(0.905)PS(0.095)R	2	-1.3255	17414.3	15950.2
Zfp638	0.973431	0.00235434	44.543	IS(0.027)PS(0.973)PELNK	3	1.7009	950.1	910.9
Elavl1	0.997395	5.25E-26	110.32	NMALLS(0.003)QLYHS(0.997)PAR	3	1.2698	4994.2	5123.9
Llgl1	0.781771	3.20E-17	96.208	NIILAPES(0.782)CEGS(0.172)PRS(C	4	1.5144	33442.7	36327.6
Thoc1	1	0.0380512	45.911	ENES(1)PDVR	2	0.80134	10389.4	14741.4
Atf6	0.999931	0.00456816	62.466	TEHGLT(1)PK	3	0.16009	13921.0	14835.8
Gpr161	0.567991	0.00497419	88.37	LFS(0.568)IS(0.432)NR	2	-0.33667	5325.2	4314.7
Crmp1	0.743094	1.93E-07	55.453	NLHQS(0.056)NFS(0.743)LS(0.201	3	-0.23575	19707.8	18937.1

149922.9	153466.4	160008.0	158350.0	0.1	0.1	514
11126.6	10616.3	12253.1	11845.0	0.1	0.3	673
10354.0	10597.7	11673.9	9880.2	0.1	0.4	1611
14762.3	17346.4	16325.7	17133.0	0.1	0.4	328;328
26760.8	28317.4	25833.4	31500.0	0.1	0.4	821;644
32539.7	34325.3	35504.6	31611.0	0.1	0.2	347
34607.3	36608.9	37717.8	33856.0	0.1	0.2	660
6962.3	6966.3	5791.7	7221.1	0.1	0.6	52
25870.8	26514.5	27311.3	26524.0	0.1	0.3	8
5632.4	6282.7	5157.4	5928.7	0.1	0.5	304
30388.1	32325.6	31440.6	29496.0	0.1	0.2	63
3569.0	3700.2	4212.6	3307.3	0.1	0.5	346
14462.1	15697.5	16681.5	14957.0	0.1	0.2	61
102086.4	101121.5	107110.2	99704.0	0.1	0.2	707;914;577
12801.3	12972.9	12883.6	12187.0	0.1	0.2	15
53387.5	57639.0	61752.7	56173.0	0.1	0.2	21
51095.4	54657.0	50213.4	51687.0	0.1	0.3	747;730
11932.5	13092.8	12572.6	12686.0	0.1	0.2	462
21373.8	22470.0	24638.7	22265.0	0.1	0.2	163
18552.5	18896.2	20109.7	18298.0	0.1	0.2	332
30388.1	32243.1	33099.1	29945.0	0.1	0.2	617
20396.4	21261.1	22364.6	22380.0	0.1	0.2	120
13235.6	12869.5	16666.6	14242.0	0.1	0.6	168
13235.6	12869.5	16666.6	14242.0	0.1	0.6	165
26839.6	27598.0	29884.6	27911.0	0.1	0.1	533
12748.0	14022.3	13694.7	13111.0	0.1	0.1	32
17793.4	18642.1	18553.8	16723.0	0.1	0.3	1221
1058.0	970.3	1033.1	1073.2	0.1	0.4	1520
4769.6	5242.4	5474.6	4974.5	0.1	0.2	202
35848.6	35423.1	40052.8	35848.0	0.1	0.3	983
13479.4	10622.1	14027.0	16047.0	0.1	0.8	402
13055.7	15094.7	14543.2	14435.0	0.1	0.2	149
4349.4	5232.1	5153.1	4360.5	0.1	0.6	359
19720.4	22072.9	19575.4	19873.0	0.1	0.3	540;654

Rps6ka1	0.945902	2.59E-41	110.38	KAYS(0.01)FCGT(0.946)VEY(0.044)	4	-1.7375	18124.0	17691.0
Fchsd2	0.983233	9.18E-13	68.639	AAQLVDIELS(0.983)PVS(0.017)ALF	3	1.6769	5904.1	5575.9
Garnl3	0.906881	3.82E-07	55.437	LEES(0.076)QGS(0.907)PKPET(0.0	3	0.87657	9223.0	9269.1
Sh3pxd2a	0.593478	0.0126447	53.089	T(0.188)S(0.188)T(0.593)LT(0.031	3	1.3304	12792.7	10929.7
LOC10255	0.499978	6.03E-15	112.08	GSHS(0.5)S(0.5)FDEAYFR	3	0.22324	4706.4	5485.1
Dlg5	0.522196	4.70E-05	73.632	LGS(0.522)S(0.169)S(0.309)NLQFK	2	0.62818	20003.6	20025.3
Map3k2	1	0.000288384	68.171	RLS(1)VVGPPNR	2	1.1183	21228.5	21654.2
Aldoa	1	0.00440613	60.301	S(1)KGGVVGIK	2	0.66794	18778.7	23203.0
Epn1	0.995425	1.04E-34	70.213	S(0.995)PGAFDMS(0.004)GVGGSL	3	1.0791	6815.9	6775.1
Gps1	0.991874	4.66E-20	66.017	NQIHVKS(0.992)PPREGS(0.007)QC	4	-0.48575	7944.8	10106.8
Chd6	0.977492	4.34E-05	48.423	T(0.002)S(0.002)ES(0.018)LES(0.9	3	1.7295	5086.7	5318.5
Map1a	1	1.17E-48	115.5	ADS(1)VEQQDGAALEK	2	0.70681	119601.9	112686.1
Scrib	0.929216	3.17E-63	112.34	T(0.038)LDPS(0.929)PS(0.032)PGF	3	0.29985	5727.8	4993.0
Arhgef11	0.998086	0.000513742	67.897	S(0.002)ES(0.998)LKGR	2	-0.35524	60612.0	59721.5
Hdac6	0.5	8.59E-15	77.746	GAVPHS(0.5)S(0.5)PNLAEVK	3	-0.36133	16423.2	17990.5
Oxr1	0.817423	1.52E-21	76.889	KS(0.156)QS(0.817)VDIT(0.026)AP	4	0.67787	27608.1	25221.4
Kank4	0.923761	2.78E-43	82.331	KIS(0.924)LGT(0.07)QEQS(0.005)C	4	0.95112	12873.8	12369.9
Ralgps2	0.904249	9.71E-05	43.206	KS(0.511)S(0.459)AAEGALLPQT(0.	3	-0.00024893	25567.5	25190.6
Larp4b	0.499931	0.0016708	41.227	LSSLIIGS(0.5)S(0.5)KER	3	0.27114	5772.2	4843.6
Larp4b	0.499931	0.0016708	41.227	LSSLIIGS(0.5)S(0.5)KER	3	0.27114	5772.2	4843.6
Zfp36l2	0.94383	3.18E-52	114.68	RHS(0.944)AS(0.056)NLHALAHPSF	5	0.82193	14011.6	13729.0
Flot1	0.673959	1.53E-10	57.434	DIHDDQDY(0.674)LHS(0.326)LGK	4	0.094352	3695.5	3456.8
Epb41l1	0.789354	5.92E-29	80.664	DLKGPS(0.21)S(0.789)QEDES(0.00	3	0.17185	12146.2	11467.1
Stip1	0.94833	0.000514114	45.885	ELIEQLQNKPS(0.948)DLGT(0.052)I	3	-1.4642	17389.3	17462.9
Dtna	0.82694	4.28E-07	57.173	S(0.01)S(0.011)PS(0.045)HT(0.827	3	0.27069	21765.2	22644.7
Hepacam	0.999113	1.18E-07	64.21	LKS(0.094)EADT(0.907)LPRS(0.999	3	0.25528	31029.9	33430.7
Esyt2	0.992486	4.94E-30	119.47	SSSS(0.001)LLAS(0.992)PS(0.007)F	3	0.57373	181478.1	180892.2
Sipa1l2	0.759316	0.00661061	49.448	EYGS(0.023)T(0.115)S(0.759)S(0.1	2	3.6327	5823.9	5999.2
Epb41l3	0.875608	1.87E-27	80.459	VVFLQQGT(0.085)S(0.876)PFLES(C	3	-0.52859	64225.8	61666.4
Pkp4	0.669915	2.18E-32	108.47	VASPS(0.006)QGQVGS(0.162)S(0.	4	0.15084	9463.6	9024.6
Pkp2	0.984245	3.70E-09	105.46	T(0.008)S(0.008)S(0.984)VPEYVYK	3	0.76508	26099.4	26001.3
Sh3pxd2b	0.977137	3.59E-05	50.957	KES(0.977)IIS(0.023)EEELLER	3	0.014381	8905.5	8579.8
Ablim3	0.95255	9.76E-12	102.87	S(0.008)S(0.01)T(0.953)PT(0.023)S	2	0.083355	39798.5	38523.6
Hecw1	0.948393	2.68E-07	79.885	S(0.052)GS(0.948)VHQMEQLNR	2	0.81686	17184.1	16765.2

17817.8	17957.9	20228.4	18347.0	0.1	0.2	209;202
5630.1	6197.7	6254.6	5583.8	0.1	0.3	321
8838.7	9855.7	9017.6	9937.5	0.1	0.2	927
13136.6	12416.3	11923.9	14515.0	0.1	0.6	464
5555.6	5699.9	5780.4	5119.8	0.1	0.5	117
21099.1	22312.7	21271.4	20858.0	0.1	0.1	1157
23717.0	22101.5	24828.9	23283.0	0.1	0.3	153
22598.1	20382.3	26080.3	21622.0	0.1	0.6	100
7352.4	7265.7	7223.3	7591.9	0.1	0.2	434
8758.6	9189.4	10613.5	8464.3	0.1	0.6	463
5622.2	5580.0	5980.7	5337.7	0.1	0.3	1634
120890.1	121578.5	127382.4	123420.0	0.1	0.1	1812
6627.4	6505.9	6119.6	5666.2	0.1	0.6	1587;1559;1563
55060.1	61714.3	66301.9	56918.0	0.1	0.4	656;645
19161.4	18236.2	19320.0	18934.0	0.1	0.3	42
23632.9	25094.5	30447.8	25081.0	0.1	0.6	15
13606.1	13750.6	13689.3	13525.0	0.1	0.1	100
23533.9	33305.7	22081.4	22950.0	0.1	0.7	326
4984.4	5034.0	5978.2	5437.8	0.1	0.5	561
4984.4	5034.0	5978.2	5437.8	0.1	0.5	562
14943.3	14752.7	16381.2	13875.0	0.1	0.4	57
3435.1	3840.5	3495.1	3828.6	0.1	0.2	160
12002.8	12836.5	12385.6	12336.0	0.1	0.1	1338;1330
16301.8	18969.9	18035.5	16938.0	0.1	0.3	164
24980.8	23230.0	25634.6	24312.0	0.1	0.3	592
35282.2	36043.5	35598.7	33543.0	0.1	0.3	291
182181.5	196980.8	188989.7	188300.0	0.1	0.0	673
6388.2	6178.9	6569.6	6456.8	0.1	0.2	197
64048.9	67316.4	69312.2	63680.0	0.1	0.1	840
8471.1	9162.3	10116.5	9152.8	0.1	0.3	336
28743.2	28401.0	28496.5	28364.0	0.1	0.2	82
10282.1	9820.6	10351.0	9113.2	0.1	0.5	528
37396.6	42119.7	42887.9	37036.0	0.1	0.3	421
18523.7	19503.4	18479.0	17359.0	0.1	0.3	862

Dap	0.674043	3.58E-26	74.876	DKDDQEWES(0.046)T(0.28)S(0.67	4	-0.55073	5259.4	4557.4
Aplf	0.538967	2.20E-19	57.932	S(0.001)QGCHPES(0.149)S(0.539)S	4	-1.4105	7795.2	7590.4
Tcea1	0.956239	1.66E-26	111.57	KKEPAIS(0.956)S(0.044)QNS(1)PE/	3	0.69153	12570.8	11681.0
Srgap3	0.777012	1.52E-15	63.701	NDLQS(0.777)PT(0.223)EHISDYGF	3	-1.104	4827.0	5217.8
Klf3	0.981208	2.02E-36	141.86	GS(0.981)PPS(0.019)AAGSPSSLK	2	-1.1039	43877.5	45202.8
Nhs12	0.890551	0.000208154	72.29	FPS(0.001)LT(0.109)S(0.891)PGLR	2	1.1491	19186.6	18718.9
LOC102551	0.984641	0.0699262	49.358	S(0.985)IHT(0.015)EEK	2	2.4865	3103.8	2481.9
Uhrf1bp1	0.993418	2.30E-33	94.72	TVS(0.006)QQS(0.993)FDGVSLDSC	3	-0.056605	11832.7	14291.7
Mink1	1	0.00225405	61.593	QQNS(1)PLAK	3	0.41827	56352.9	54016.5
Sphkap	0.911582	1.34E-21	80.752	LKAS(0.141)S(0.912)CES(0.945)IPE	3	0.52867	80799.3	79834.6
Ube4b	0.83023	0.000127631	53.946	HLLNS(0.83)PT(0.17)DPFNR	3	-1.7866	8364.3	7799.4
Akt3	0.509188	0.00145604	59.35	T(0.103)DGS(0.388)FIGY(0.509)K	2	0.69904	8418.3	9351.2
Pkp4	0.91437	0.0593264	52.591	VS(0.059)S(0.914)VPS(0.026)R	2	0.86262	7546.1	7446.5
Rftn2	0.689064	0.000655264	45.347	S(0.689)IGLDT(0.214)S(0.097)ECQ	2	-0.92008	9730.4	10109.9
Map4	0.705564	3.16E-15	85.469	AAS(0.078)S(0.108)IS(0.706)S(0.10	3	0.16625	25532.9	21845.1
Srrm2	0.999986	7.71E-33	135.36	CRS(1)PGMLEPLGSAR	3	-0.46277	92953.9	96102.9
Zmynd8	0.907226	2.83E-08	112.42	LNFDMT(0.093)AS(0.907)PK	2	0.87685	33105.2	30412.0
Nup214	0.707063	2.16E-05	45.916	AAPAS(0.043)GT(0.707)PT(0.177)I	4	0.93571	1834.7	1412.1
Eif4g3	0.5	6.50E-11	50.505	KPCGVAPPDGLVLS(0.5)S(0.5)PVLI	5	-1.3123	15279.4	15997.4
Eif4g3	0.5	6.50E-11	50.505	KPCGVAPPDGLVLS(0.5)S(0.5)PVLI	5	-1.3123	15279.4	15997.4
Ash1l	0.99978	0.0194939	50.966	STCRS(1)PK	3	1.3607	25309.9	21452.4
Tp53bp1	0.78373	2.10E-13	67.194	S(0.001)EDLPS(0.212)S(0.784)PQV	3	0.63707	22748.0	26083.5
Brsk2	0.57506	3.77E-23	92.098	S(0.002)MEVLS(0.137)VT(0.575)D	3	0.50434	25104.7	24382.2
Ahnak	0.999861	1.13E-14	113.19	VRGS(1)LGATGELK	2	1.5239	40453.3	40814.0
LOC10091	0.999978	0.00118536	61.419	YFFPPLDS(1)PR	2	1.0732	7478.1	7052.2
MAST1	0.998219	0.0191103	67.334	S(0.002)KPAS(0.998)PK	2	0.64463	47217.0	47587.5
Nol4l	0.981866	5.36E-08	58.123	TMPT(0.001)AQLS(0.982)PT(0.017	3	-0.50279	2371.5	2446.1
Dgkh	0.861993	0.000304726	78.903	KVS(0.862)T(0.125)S(0.013)GQIR	2	-0.40549	17915.2	16038.0
Rab12	0.584195	0.00082842	63.662	FNS(0.214)IT(0.098)S(0.584)AY(0.	2	0.69381	11025.0	11848.9
Ccdc6	0.993106	0.00158825	79.986	RS(0.133)S(0.874)S(0.993)PDKFK	3	-0.20357	183684.6	187495.7
Mast2	0.99438	7.58E-06	66.989	S(0.006)AEPPRS(0.994)PLLK	3	0.20704	25315.8	26265.6
Map1b	0.994871	4.13E-28	84.576	S(0.001)PS(0.003)LS(0.052)PS(0.6	3	0.6006	66967.8	69842.8
Smarca4	0.981967	8.71E-05	43.349	KKIPDPDS(0.982)DDVS(0.018)EVD	4	1.8817	11968.5	11602.1
Micall2	0.98218	4.51E-05	103.69	LS(0.018)S(0.982)PVPTQR	2	0.92734	25202.5	27747.6

5954.8	5229.3	5868.6	5535.7	0.1	0.6	51
8773.6	8249.1	8153.5	9077.4	0.1	0.4	350
12290.2	13477.8	13022.5	12040.0	0.1	0.3	61
4770.1	4646.0	5775.5	5203.6	0.1	0.5	813
46716.5	44126.0	48605.1	50492.0	0.1	0.3	71
17630.5	19309.8	19943.0	19321.0	0.1	0.1	364
3416.1	3187.0	3001.8	3305.4	0.1	0.6	293
13851.0	14751.6	13601.7	13809.0	0.1	0.4	1100
50895.2	57294.7	57318.9	55477.0	0.1	0.2	547
81499.4	83565.0	87671.5	84150.0	0.1	0.0	1107
8361.8	7475.4	9642.3	8750.3	0.1	0.5	1136
9397.4	9333.7	9703.6	9617.4	0.1	0.2	38
7829.7	8063.8	7838.1	8170.9	0.1	0.1	213
11009.5	10988.4	11159.8	10392.0	0.1	0.3	425
23862.9	23957.1	26725.7	24466.0	0.1	0.4	2032;956
95509.0	105685.2	95256.8	99235.0	0.1	0.2	2088
33340.3	34800.5	33722.1	33649.0	0.1	0.2	401
1411.4	1685.2	1552.7	1675.8	0.1	0.6	514
17244.0	17544.4	16830.1	16811.0	0.1	0.2	385
17244.0	17544.4	16830.1	16811.0	0.1	0.2	386
24552.8	24165.0	27892.7	23174.0	0.1	0.5	729
22313.8	25150.6	24121.4	25781.0	0.1	0.4	270
24657.1	25609.3	25930.6	26677.0	0.1	0.0	405
48368.8	44416.4	46108.8	46234.0	0.1	0.4	5159
7741.9	8706.3	7293.6	7496.2	0.1	0.4	365
47655.5	49883.2	52474.7	47931.0	0.1	0.1	1501
2466.2	2441.4	2510.1	2732.8	0.1	0.2	399
17167.4	18581.6	18050.5	17299.0	0.1	0.2	53
13086.6	11681.6	13758.8	12499.0	0.1	0.5	108
194201.3	193900.9	203566.0	199030.0	0.1	0.1	393
26493.6	26236.2	29808.8	26327.0	0.1	0.3	1343;1260;1177
74543.0	73037.3	77179.6	72770.0	0.1	0.2	1262;1136
11270.3	12220.6	12893.2	11645.0	0.1	0.2	695
27578.5	29547.1	27643.7	27771.0	0.1	0.2	144



Mark1	0.811982	2.00E-11	56.366	LGS(0.007)T(0.023)T(0.074)VGS(0	3	-1.1245	5733.7	5076.2
Rps6ka3	0.948174	1.88E-13	65.189	DS(0.948)PGIPPS(0.052)ANAHQLF	3	0.74005	68995.3	62624.0
Tbc1d4	0.579989	3.62E-05	92.445	LGS(0.42)VDS(0.58)FER	2	0.36776	31846.9	31025.1
Ppp1r3d	0.999238	1.09E-17	70.452	VFNAGDDPS(0.001)VPLHVL(0.99	3	-0.36026	5358.2	4938.6
Cic	0.804578	1.01E-26	80.752	VCPGLAGS(0.805)T(0.04)S(0.028)(	4	0.15355	14813.1	15374.4
LOC10036	1	0.00231139	40.676	DLLHPS(1)PEEEK	3	-0.56003	6319.7	7082.9
Clasp2	0.754775	2.99E-21	106.19	ASLLHS(0.001)VPLHS(0.245)S(0.75	3	0.84917	18163.3	18389.8
Gab1	0.693261	6.61E-13	66.732	QVEY(0.007)LDLDLES(0.062)GKS(C	4	0.43359	34976.5	33776.2
Uhrf1bp1l	0.589304	0.00618492	43.549	T(0.589)PS(0.384)VS(0.025)S(0.00	3	0.46852	36820.4	34873.1
Cep170b	0.992573	0.0524356	40.475	EPS(0.993)Y(0.002)FEIPT(0.005)K	2	-0.50586	13327.0	11967.3
Phldb2	0.810909	0.00022541	56.139	SGAAS(0.001)MPS(0.188)S(0.811)	3	1.3332	4484.4	4313.4
Arhgef40	0.639393	0.0435825	57.722	S(0.361)IS(0.639)AQQR	2	0.94574	21872.5	23492.6
Eif3a	0.999768	1.78E-05	102.05	RVPPPTLS(1)R	3	-0.23115	47644.0	52804.4
Ireb2	0.874694	1.07E-11	64.5	GQT(0.001)T(0.008)CRGS(0.875)C	3	0.34123	2007.2	1888.8
Nuak1	0.638882	2.71E-14	64.749	S(0.169)HS(0.639)T(0.192)GFIEGI\	4	0.36302	5568.6	5809.5
Prickle2	0.5	3.81E-25	108.96	T(0.5)VS(0.5)DLALQNAFGER	2	-0.26399	31087.2	31444.2
Ptpn12	1	1.59E-06	69.92	KLEQNLS(1)FEIK	3	1.7085	32116.5	31556.0
Sipa1l3	0.673678	2.93E-13	114.7	T(0.146)LS(0.674)DES(0.18)LCSGR	2	-0.84651	37289.1	34847.9
Palmd	0.854896	1.53E-42	131.3	S(0.001)GPQCS(0.855)S(0.145)PIC	2	-0.4183	15048.0	13827.7
Slc45a4	0.999329	2.73E-07	79.652	GS(0.999)PPMNPLS(0.001)HSK	3	-0.45952	10726.2	10144.4
Sipa1l1	0.952751	5.04E-06	67.136	VLPAPFRES(0.953)PS(0.047)GR	3	0.206	6413.6	6307.3
Atxn2l	0.874135	7.38E-18	65.924	GPHHLDNS(0.874)S(0.125)PGPGSI	4	1.2287	7939.7	7635.2
Rassf1	0.768624	0.0105008	51.064	RT(0.172)S(0.769)FY(0.059)LPK	3	-1.1555	7925.6	6975.6
Sash3	0.830466	0.000379156	43.592	KPS(0.83)NAS(0.166)DKEPT(0.004	4	0.0098185	17086.3	12933.7
Cep170b	0.693673	1.15E-42	96.504	GAS(0.694)PVT(0.231)PS(0.045)S(	3	-0.47305	36221.7	39037.0
Slc14a2	1	0.0630791	55.112	RES(1)ELPR	2	1.2413	8869.0	7148.2
MAST1	0.999965	3.54E-09	120.84	RFS(1)ALLEPSR	3	0.37884	11777.8	11338.8
Epn3	0.99863	6.86E-92	127.2	EARPCRT(0.999)PES(0.001)FLGPS/	6	1	9781.3	9935.5
Sym	0.740143	1.60E-20	76.807	T(0.049)VS(0.74)S(0.209)QAS(0.0(	3	0.10332	20170.6	18933.8
Dip2c	0.974813	3.01E-24	97.69	YRS(0.975)DVHT(0.025)EAVQAAL/	4	-1.1348	21593.5	20586.9
Pitpnm2	0.717619	3.60E-09	71.263	RGAS(0.979)PS(0.096)RHS(0.718)I	3	0.50109	28433.5	29145.0
Foxo1	0.999897	2.40E-05	107.09	AAS(1)MDNNSK	3	-0.4588	44430.9	37322.5
Afap1l2	0.724852	1.31E-33	98.684	AAT(0.087)PT(0.725)S(0.128)T(0.C	3	0.52295	48602.9	52136.4
Ahnak	0.843453	4.77E-16	60.288	GGQIGLQGPGLS(0.843)VS(0.156)(	3	-0.18807	42441.5	40800.8

5489.9	6080.9	5626.8	5489.9	0.1	0.3	468
63278.1	69540.6	71517.9	64575.0	0.1	0.3	340
31649.7	32151.8	34610.2	32968.0	0.1	0.1	419
4782.2	5173.9	5558.7	5177.4	0.1	0.3	113
13572.1	14669.1	15750.7	15751.0	0.1	0.3	14
7135.3	6465.6	7699.8	7504.3	0.1	0.5	11
19173.1	19202.0	20438.9	19157.0	0.1	0.1	1030;1232
41029.2	38835.2	37954.0	39044.0	0.1	0.4	638
33193.4	36824.5	35648.9	38201.0	0.1	0.2	441
13188.8	13350.2	14222.6	13034.0	0.1	0.3	252;238
3973.4	4136.4	4598.6	4740.9	0.1	0.4	248
21313.1	25823.8	20896.3	23638.0	0.1	0.5	1081
47305.2	56592.9	50871.7	48448.0	0.1	0.4	1310
2291.5	2295.4	2390.8	1843.0	0.1	0.6	178
5798.1	5952.4	5895.8	6277.0	0.1	0.1	412
32135.2	33622.5	34461.6	31813.0	0.1	0.1	754
29608.8	32259.6	33541.5	32637.0	0.1	0.1	315
39747.3	38619.6	41320.2	38135.0	0.1	0.3	1537
15368.1	16850.3	15911.0	13931.0	0.1	0.5	385
9482.2	10330.9	10911.9	10790.0	0.1	0.2	408
6386.3	6119.8	7088.7	6956.4	0.1	0.3	1273
7038.7	7882.9	7934.9	8048.1	0.1	0.2	388
4978.7	6693.3	7125.5	7162.2	0.1	0.7	133
16069.7	16301.4	16212.4	16130.0	0.1	0.5	7
37873.6	41782.0	40363.7	37256.0	0.1	0.3	562
7757.4	8908.0	9061.8	7122.3	0.1	0.6	84
11282.0	11782.8	12215.7	12307.0	0.1	0.0	801
10157.3	10522.5	11507.2	9501.3	0.1	0.4	466
19324.3	21371.1	20709.2	19589.0	0.1	0.2	420;420
21909.3	21410.7	24515.8	21718.0	0.1	0.3	124
27511.4	29759.4	29210.3	30840.0	0.1	0.1	321;297
41204.8	43390.1	44438.5	41951.0	0.1	0.4	250
54125.3	52460.4	56225.6	54774.0	0.1	0.2	808
42412.1	41653.3	45311.6	45664.0	0.1	0.2	5329

Fam65b	0.801656	4.73E-05	49.395	S(0.169)QS(0.802)FAGFS(0.029)GI	3	0.57053	4906.6	5690.8
Akt2	0.934067	3.42E-19	76.015	YFDDEFT(0.001)AQS(0.01)IT(0.05)	3	0.97134	3379.0	4198.0
Ndrp1	0.694734	4.46E-12	65.374	YFVQGMGY(0.695)MPS(0.07)AS(0	3	0.4142	4691.0	4521.7
Tsc2	0.722692	0.000132122	64.224	S(0.123)S(0.123)S(0.723)AS(0.028	3	-0.39347	14064.1	14801.8
Tns1	0.994861	9.37E-40	115.72	AINPT(0.002)MAAPGS(0.995)PS(0	4	-0.22953	211903.4	216772.3
Rims1	0.639243	1.29E-07	49.662	IPES(0.004)S(0.006)HPPLES(0.639)	4	0.74369	14169.0	14071.2
Srrm2	0.90838	5.30E-32	95.622	SGSVTNMQAECS(0.008)T(0.083)	3	-0.7537	54579.4	57106.5
LOC10369	1	2.65E-14	109.83	VVAGVAS(1)ALAHK	2	0.83894	31851.7	36966.0
Rps6kc1	0.563717	2.29E-13	64.589	KGVDLLLEGVQGES(0.564)S(0.426)	4	-0.73893	40468.8	41194.6
Akap13	0.922274	2.73E-38	107.56	DMTECS(0.002)T(0.03)PLPEDCS(0	3	-1.5008	8753.6	8864.1
Bckdk	0.524613	1.69E-60	168.05	S(0.365)T(0.525)S(0.109)AT(0.001	3	-0.19811	29306.5	30378.0
Zfhx3	0.999968	9.01E-07	51.827	EVS(1)PLLPKPPEEPEAESK	4	0.46596	6955.8	7229.4
Mast2	0.959178	0.00757493	80.676	S(0.959)LS(0.029)S(0.012)LNR	2	-0.27769	46433.4	39161.0
Larp1	1	0.000243002	54.898	HPVVAGGS(1)GEGR	2	-0.1638	7401.5	7828.1
Rapgef6	0.5	0.000924855	80.706	RS(0.5)S(0.5)LLNAK	3	-0.086389	7870.5	7378.0
Tacc2	0.77706	9.84E-07	40.849	MS(0.079)DS(0.777)PT(0.092)PCS	3	-1.3241	8458.2	9369.4
Itsn2	0.63922	5.40E-16	66.613	T(0.155)VS(0.639)PGS(0.202)VS(0	4	-0.84428	5431.7	7596.5
Ptprd	0.5	0.0633573	51.63	S(0.5)GGT(0.5)PIR	2	0.30902	6513.5	6703.9
Ptprd	0.5	0.0633573	51.63	S(0.5)GGT(0.5)PIR	2	0.30902	6513.5	6703.9
Brsk2	0.721491	8.31E-16	60.735	KLQVPT(0.034)PEEMS(0.721)NLT(	5	1.1996	48407.3	49887.7
Zfyve9	0.978841	4.56E-33	92.01	TDLGSSNSFS(0.011)HS(0.979)REEL	4	1.8552	12952.5	13012.7
Limch1	0.966949	1.22E-24	97.384	TSVPRESSVAAGT(0.014)GS(0.967)P	4	0.47413	11916.2	11577.9
Ubxn4	0.607773	3.05E-05	50.077	AT(0.13)S(0.608)T(0.152)EPS(0.08	3	0.33681	6141.9	6077.5
Bcar3	0.935881	4.74E-15	88.137	S(0.064)GS(0.936)QPACLDHVQDR	3	-0.42779	14900.1	13652.2
Cmtm4	0.982123	3.58E-17	97.235	T(0.018)ES(0.982)RDVDGRPEIQR	3	0.49003	30944.1	32771.4
Tab2	0.882772	4.89E-10	56.131	KLS(0.883)MGS(0.081)DDAAY(0.0	5	0.045404	43696.2	41044.4
Hepacam	0.825269	1.08E-48	120.41	STTEPGPPGY(0.312)S(0.827)VS(0.1	3	1.2877	28408.4	29512.5
Mtus1	0.759542	4.35E-07	68.494	NSGS(0.003)FS(0.201)S(0.76)PS(0	2	0.81464	12339.5	11334.4
Mtus1	0.85426	4.35E-07	68.494	NSGS(0.003)FS(0.201)S(0.76)PS(0	2	0.81464	12339.5	11334.4
Bpgm	0.744956	8.23E-07	41.446	S(0.008)Y(0.008)NVT(0.745)PPPIE	4	-0.82111	3279.4	3299.3
Ubr4	0.584484	3.43E-24	92.474	AAPPPPPPPPLES(0.584)S(0.416)F	3	0.45914	68826.0	81738.8
Ahsg	0.997149	2.51E-150	202.22	VLHAQCHST(0.003)PDS(0.997)AEI	2	0.14653	989470.7	985106.3
Cacna1a	0.952332	0.000210486	49.298	AWPS(0.048)S(0.952)PERAPGR	3	-0.58207	10912.9	11734.8
Reps2	0.525093	1.91E-14	80.316	LDDEEKQQET(0.525)PS(0.475)PR	3	0.15819	34860.8	32716.6

5888.5	5511.5	6441.1	5448.4	0.1	0.5	123
3921.1	3727.8	4063.1	4345.5	0.1	0.5	451
4260.4	4650.2	4892.4	4678.6	0.1	0.2	314
14866.7	14675.7	14990.9	16494.0	0.1	0.3	1282
222723.1	228802.6	234065.1	224700.0	0.1	0.0	1361
14353.5	17411.3	14254.6	13293.0	0.1	0.6	723
53457.8	56552.2	58040.2	59723.0	0.1	0.1	840
31501.7	37219.3	36293.3	32380.0	0.1	0.5	140;140;140
35916.8	41680.8	43596.4	38838.0	0.1	0.4	99
8277.8	9234.1	8673.1	9427.8	0.1	0.2	2345;1016
29209.5	30052.0	32600.1	31184.0	0.1	0.1	32
6459.3	7942.9	6509.3	7340.1	0.1	0.5	3441
36457.6	43392.3	43471.4	41977.0	0.1	0.5	1192;1112
7332.8	6993.8	8603.3	8220.7	0.1	0.5	915
8304.2	8174.7	8093.3	8595.3	0.1	0.2	1093
9250.5	8990.6	10080.3	9515.6	0.1	0.3	2455
6106.7	6478.8	6811.2	6910.9	0.1	0.6	843
6315.5	6446.9	7261.3	6912.9	0.1	0.2	187
6315.5	6446.9	7261.3	6912.9	0.1	0.2	190
46541.9	51616.7	51738.4	49553.0	0.1	0.1	666
12074.1	13727.5	13522.6	12909.0	0.1	0.1	310
11694.0	11601.3	13264.0	12284.0	0.1	0.3	364;355
5254.5	5704.6	6580.7	6162.5	0.1	0.4	446
15495.9	15344.4	15813.8	15346.0	0.1	0.2	226
32771.8	33511.4	34623.0	33733.0	0.1	0.1	194
43396.9	44560.5	46084.2	44639.0	0.1	0.1	524
30992.8	30651.5	32865.1	30356.0	0.1	0.2	335
13210.1	12369.0	13724.6	12848.0	0.1	0.4	1203
13210.1	12369.0	13724.6	12848.0	0.1	0.4	1207
3104.2	3603.7	3265.6	3353.9	0.1	0.2	122
72084.8	67804.8	87233.4	80037.0	0.1	0.6	619
1059904.3	1119209.0	1045742.9	1038900.0	0.1	0.2	138
11189.4	12280.0	13249.0	10197.0	0.1	0.5	763
33527.7	36908.0	34252.2	35595.0	0.1	0.1	45

Cd81	0.790213	1.36E-17	73.296	NSLCPSS(0.001)S(0.009)NS(0.79)F	3	1.098	6504.4	7012.5
Rptor	0.985068	7.83E-41	109.65	ILDTSSLT(0.015)QS(0.985)APAS(0.	3	0.069709	95830.6	98200.2
Phc3	0.999142	2.73E-06	73.951	ISQRDPS(0.999)PES(0.001)K	2	0.69071	64249.6	64232.0
Il16	0.891316	2.02E-08	79.875	S(0.004)AS(0.099)PET(0.891)PAS((	3	1.3644	39156.9	49244.9
Prkcdpb	0.681038	0.00762851	47.606	IQS(0.319)GLGALS(0.681)R	2	-0.035441	14507.8	14315.8
Plekhg3	0.998238	0.000300152	67.93	RES(0.998)LS(0.002)YIPK	3	-0.10642	4912.8	4808.2
Ybx3	1	6.45E-06	53.491	RPRPLNAVS(1)QDGK	4	4.2267	17177.0	18036.6
Lmbrd2	0.988297	1.90E-10	129.34	YGHNREDS(0.988)T(0.012)R	3	0.79792	23665.1	27931.8
Grasp	0.616863	0.00271167	62.466	S(0.617)LEEEES(0.383)QL	2	1.2958	18320.7	17009.9
Fam171a1	0.691392	1.48E-07	55.844	S(0.691)MEKEGY(0.183)QAPS(0.1:	3	0.68728	12841.6	12693.5
Epb41l3	0.975903	3.45E-15	88.427	RQS(0.024)PEEDDT(0.976)QKAPK	3	-0.9237	63944.3	65678.9
Bod1l1	0.79659	4.11E-18	74.364	RLS(0.797)ES(0.203)LHS(0.001)VD	4	-1.8019	20200.4	21128.8
Lrrc16a	0.748565	2.31E-07	48.286	LGNDVIS(0.001)QDPS(0.234)S(0.7	3	0.45909	4640.6	5366.5
Ank2	0.986319	1.88E-21	79.676	AEGFES(0.986)ES(0.014)EEGATKPI	4	0.40362	43190.5	39112.7
Ldb1	0.82131	1.94E-58	121.38	KMS(0.001)GGS(0.024)T(0.139)M:	3	-0.85968	18987.5	15970.0
Kctd10	0.879371	0.0318251	62.463	GAS(0.879)PS(0.118)S(0.002)K	2	-0.53361	21737.8	18229.6
Ccdc88a	0.95208	2.63E-29	78.128	MNAGS(0.952)PGS(0.048)EVVTLQ	3	-0.67344	13182.7	12466.4
Foxc1	0.785108	5.11E-33	81.113	GS(0.785)PQGS(0.215)AAELGSGLL	3	-0.10598	3992.5	4129.6
Sgsm1	0.810608	1.79E-10	87.824	CS(0.182)S(0.811)GAS(0.008)LDS:	3	0.62038	8064.2	8244.3
Dst	0.982296	8.89E-124	140.38	RGS(0.982)DAS(0.017)DFDISEIQS\	5	-0.26485	20165.8	20195.3
Nipbl	1	0.00387093	62.558	ARPET(1)PKQK	3	-0.29818	33594.2	35544.4
Bcl6	0.779077	7.13E-08	58.814	S(0.001)DCQPNS(0.779)PT(0.212)	3	-0.20303	4570.2	4182.9
Map3k4	0.829424	3.67E-21	102.08	HS(0.17)S(0.829)PT(0.001)EERDEF	4	0.046434	11932.8	14063.5
Rbm42	0.998125	0.000282928	65.842	S(0.002)HLDS(0.998)PEAR	3	0.81113	8114.2	6913.7
Dync1li2	0.849388	1.35E-60	157.85	T(0.001)GS(0.125)PGS(0.849)PS(0	2	-0.15548	173856.9	163144.1
Specc1l	0.539237	3.06E-49	80.136	DISASEGASPAS(0.001)LMAMGT(0	4	0.33521	3496.5	3189.5
Zfp703	0.97632	5.67E-05	48.354	DQEAKPS(0.976)PEPAAGS(0.024)F	3	0.76804	16467.3	15378.7
LOC10091	0.997251	5.59E-59	139.11	SESLIDAS(0.003)EDS(0.997)QLEAA	3	0.39429	31434.3	30189.3
Scamp1	0.808062	1.17E-53	97.469	NVPPGLDEY(0.046)NPFS(0.082)DS	5	0.24901	69354.3	70696.2
Foxk1	0.953886	5.93E-11	66.142	S(0.006)APAS(0.954)PT(0.071)HPC	3	-0.11645	51695.5	51720.6
Ncoa6	0.596934	0.0299648	42.869	T(0.597)PNRAS(0.403)PR	3	0.24745	5222.1	5285.9
Reps1	1	0.00127708	43.05	KAPGS(1)HDAAQPR	3	1.0963	6065.3	6100.6
Pfkfb3	0.984888	5.94E-17	96.153	RNS(0.985)VT(0.015)PLASPEPTK	3	-0.26154	19302.3	18048.6
LOC10091	0.932905	3.37E-08	60.621	SQVEDPLPPVFS(0.067)GT(0.933)P	3	1.7832	12072.3	11845.6

6741.3	7091.4	7553.9	6745.2	0.1	0.2	181
94970.3	102668.0	103363.5	99129.0	0.1	0.0	859
69982.1	71185.0	74470.6	63909.0	0.1	0.4	109
45004.5	45099.4	47720.3	48054.0	0.1	0.5	683
14650.5	14438.1	14478.0	16992.0	0.1	0.4	68
5178.1	6141.1	4512.8	5079.4	0.1	0.6	642
17491.0	18028.3	18750.4	18877.0	0.1	0.1	335
22553.4	26358.3	26133.7	25811.0	0.1	0.4	610
19550.0	19768.5	19262.3	18924.0	0.1	0.3	386
12647.9	13757.2	14838.1	11727.0	0.1	0.5	346
64305.4	64061.7	76114.2	64622.0	0.1	0.4	1050
20021.7	21771.5	22216.0	20802.0	0.1	0.1	632
4672.6	5039.5	5792.2	4671.4	0.1	0.5	1198
46309.8	45015.9	47406.1	43404.0	0.1	0.4	3411
17878.5	18490.3	18995.1	18315.0	0.1	0.3	272
20037.6	19777.3	21303.4	22293.0	0.1	0.4	28
14508.9	14176.3	14583.8	13653.0	0.1	0.3	1649
4346.2	4212.8	4610.2	4345.5	0.1	0.2	320
7670.3	8188.8	8686.6	8450.7	0.1	0.1	630
20303.8	20275.6	22055.7	21743.0	0.1	0.1	7433;7642
34249.5	35273.5	38090.7	35840.0	0.1	0.1	702
4416.6	4575.1	4767.1	4568.6	0.1	0.1	344
12042.2	14471.1	13189.2	12519.0	0.1	0.5	1031
8241.3	8076.1	8837.7	7666.1	0.1	0.5	133
152712.2	174959.6	177768.9	164570.0	0.1	0.3	446
3650.0	3373.8	3464.4	4080.1	0.1	0.5	982
16813.9	17926.0	17372.9	16104.0	0.1	0.3	256
27924.5	31469.8	32566.9	30561.0	0.1	0.2	228
71782.4	73224.3	76144.1	74413.0	0.1	0.0	45
52139.8	55403.9	54075.5	54851.0	0.1	0.0	406
5216.3	5378.9	5269.7	5963.0	0.1	0.2	1194
6026.1	6394.1	6327.5	6496.9	0.1	0.0	145
16767.0	19983.0	18311.2	18881.0	0.1	0.3	461
10716.7	12216.2	12636.7	11740.0	0.1	0.3	590



Rims2	0.885817	2.81E-10	85.163	S(0.02)T(0.02)S(0.886)IS(0.073)GC	2	-2.604	52223.9	47232.1
Mettl7a	0.999988	4.56E-11	66.152	ELFSNLQEFAGPS(1)GK	3	0.50792	3212.1	3402.5
Tns1	0.821678	1.16E-27	100.28	S(0.132)FS(0.822)APAT(0.046)HA\	4	0.38864	40251.7	43400.5
Larp4b	0.853694	0.0104522	79.986	T(0.854)S(0.146)DQDAK	2	-0.56175	8045.9	8563.3
Atp7a	0.9996	6.42E-07	89.992	ASINS(1)LLSDKR	3	0.0096412	10132.9	9189.0
Map6	1	3.46E-10	69.864	NQS(1)PVVPAR	2	-0.40608	41781.9	42466.0
Sipa1l3	1	4.46E-10	79.885	EVS(1)PAPAVAAQNK	2	1.8426	14633.0	14628.5
Coa5	0.948407	1.74E-06	43.241	EDLGACLLQS(0.052)ACVLQEGKS(C	4	1.6799	3421.9	3631.8
Sgip1	0.956034	5.14E-12	59.048	Y(0.043)NS(0.956)PELDEEGY(0.00	4	0.99472	24108.8	24867.1
Dab2ip	0.826482	1.91E-09	72.898	LGS(0.826)FS(0.171)T(0.002)AAEE	3	-1.6597	3039.8	2673.9
Msto1	0.999067	2.40E-48	119.95	TTEGEES(0.999)PGELCPDVLYR	3	1.1627	13944.8	14218.2
Creg2	0.671626	1.24E-17	132.31	ESGS(0.31)S(0.672)EAS(0.018)PGF	2	-0.31081	5560.3	6103.0
Mybbp1a	0.967813	0.00025584	110.44	S(0.968)S(0.031)QS(0.001)ALPK	2	-0.0035493	46550.3	41035.6
Cobl1	0.785913	2.14E-30	83.992	AS(0.04)PES(0.786)PS(0.174)EDSS	4	-0.70869	30074.6	33216.8
Frmd8	0.73566	1.81E-29	80.191	QLS(0.055)S(0.197)S(0.736)HGS(0	3	0.069931	8203.0	8906.8
Akap13	0.998537	2.75E-33	113.86	SSLMS(0.001)LS(0.999)EEHLEPDQ	3	-0.5014	20827.8	19491.1
Sipa1l2	0.554677	2.30E-07	56.719	EFMDT(0.555)PGRS(0.414)PS(0.0	3	-0.59655	13888.8	13624.8
Spast	0.991499	7.51E-16	91.317	KKDPLT(0.001)HAS(0.007)NS(0.99	4	-0.30949	10948.2	10331.0
Tex2	0.792246	0.00505087	43.672	HS(0.058)S(0.149)PS(0.792)GHLS(	3	1.7852	873.9	795.1
Zfp148	0.999762	0.0239845	55.046	SGMNS(1)PLR	2	-0.77856	21836.8	18087.0
Aak1	0.905436	2.88E-66	94.028	LGGS(0.905)AES(0.094)LIPGFQAT(	4	0.59652	12519.6	12161.5
Marcks	0.997701	4.46E-43	135.18	AEDGAAPSPSS(0.002)ET(0.998)PK	2	0.41254	590591.0	649680.7
Phactr2	0.999898	3.27E-15	89.344	KLS(1)LRPTVAELQAR	3	-0.98298	16984.9	16837.6
Srrm2	0.986362	0.00203102	118.81	T(0.986)S(0.014)PLLLDR	2	1.6768	74875.2	72348.1
Palmd	1	9.22E-07	129.74	QNEYEV(1)PR	2	-0.35466	15049.2	14333.4
Ahnak2	0.822181	5.26E-14	62.781	VEGS(0.178)S(0.822)ADPLVPGPLC	3	-0.42216	10888.9	11696.4
Hspa12b	0.995325	5.25E-38	88.541	TQESCGIAPLT(0.995)PS(0.005)QSF	3	0.25854	59467.0	64246.3
Depdc5	0.999999	9.47E-43	145.43	FHVGS(1)AESMLHVR	3	0.14217	11107.9	12137.4
Fam98a	0.993439	0.012926	58.955	RS(0.007)VLS(0.993)PK	3	0.68594	6381.3	6409.3
Fam102b	0.930652	6.73E-09	57.802	ILQS(0.004)QDFS(0.931)LDS(0.06)	3	0.28581	4632.4	4556.6
Farp2	0.587051	2.07E-08	111.72	QS(0.004)IS(0.587)FT(0.409)DGLR	2	-1.4615	16524.6	14911.5
Borcs6	0.973139	1.29E-104	139.75	S(0.973)LDGLS(0.027)GACGGGGS!	3	-0.52187	36041.6	40221.7
Prkag2	0.995618	1.56E-05	51.31	T(0.001)VFPFS(0.017)Y(0.03)QES(	3	-0.07983	15985.5	14958.6
Phf3	0.99514	1.05E-09	75.018	TCS(0.005)NS(0.995)PCRSTGK	4	-0.86838	36150.1	40290.8



49137.5	52139.2	54367.3	50489.0	0.1	0.2	1068
2789.1	3459.7	3172.8	3303.1	0.1	0.4	69
41067.5	40410.3	42249.9	49113.0	0.1	0.5	1201
9284.3	10151.5	8875.4	8332.0	0.1	0.5	2
10967.9	10185.4	11365.0	10454.0	0.1	0.4	1457
42715.6	43642.0	46318.2	44194.0	0.1	0.0	747
15605.5	15510.5	16315.0	15583.0	0.1	0.1	1358
3241.4	4051.5	3522.7	3304.3	0.1	0.5	37
22509.7	24214.5	27260.0	24063.0	0.1	0.3	106
2559.9	2931.7	2910.7	2900.3	0.1	0.3	846
13859.5	14088.3	15959.1	14360.0	0.1	0.3	41
6097.8	6467.0	6578.5	5724.3	0.1	0.4	112
42131.1	45991.5	43305.7	47788.0	0.1	0.3	1305
35572.9	31071.7	36806.2	36604.0	0.1	0.5	1146
7616.4	9316.9	8300.9	8514.0	0.1	0.4	448
20522.0	20527.4	22447.9	21324.0	0.1	0.2	1630;269
14292.8	13894.7	14318.8	15971.0	0.1	0.3	1645
10864.7	11888.4	11217.6	10867.0	0.1	0.2	210
699.5	648.2	915.8	939.3	0.1	0.7	735
23282.7	20638.5	24728.4	21438.0	0.1	0.6	665
11095.7	12504.3	13989.6	11320.0	0.1	0.5	732
618386.6	662296.7	654587.1	647640.0	0.1	0.1	143
16294.3	16838.2	18673.5	17460.0	0.1	0.2	499
76184.7	79440.2	79588.3	77107.0	0.1	0.0	2353
15189.2	16067.1	16441.1	14605.0	0.1	0.2	365
10574.2	11009.5	11594.8	12447.0	0.1	0.3	5865;7236
62961.9	66060.3	66201.4	65084.0	0.1	0.1	42
11884.6	11544.1	13326.0	12268.0	0.1	0.3	466
8888.1	8485.0	8393.4	6039.5	0.1	0.7	258
4834.1	5212.6	5146.7	4465.5	0.1	0.4	322
16681.9	16878.9	17320.6	16670.0	0.1	0.2	389
38429.3	40057.2	39885.0	41309.0	0.1	0.2	173
15132.8	16621.5	16571.5	15519.0	0.1	0.1	117
36748.2	41949.2	40922.6	36792.0	0.1	0.3	1510

Tecpr2	0.988481	5.01E-15	79.837	GSSVASSVAS(0.011)EQRS(0.988)R	3	0.13251	7203.4	7377.4
Dhx9	0.809884	6.18E-80	153.31	AENNSGVES(0.038)S(0.136)S(0.81	3	0.35831	12352.6	11910.3
Dlgap1	0.923532	0.0103062	47.187	AS(0.001)PDGS(0.076)QT(0.924)V	2	-0.3604	2281.8	2785.6
Dync1i1	0.999976	5.86E-53	127.07	SVSTPSEAGS(1)QDDLGPLTR	3	-0.43034	70473.0	76015.1
Spats2	0.821442	1.48E-15	86.944	AGS(0.179)VLENGVS(0.821)DFEPK	3	0.13852	13638.3	13494.2
Ppp1ca	0.999721	7.85E-27	84.166	YGQFSGLNPGGRPIT(1)PPR	3	-1.642	3164.5	3687.6
Trim32	0.999997	1.53E-18	99.915	EMDMSPEEVVPS(1)PR	3	-0.13502	48964.3	48934.5
Chd9	1	0.0105386	40.941	VKS(1)EPVS(1)PK	3	1.7086	9674.7	10181.0
Sym	0.985269	5.95E-66	146.6	VEFSTPFQVEEVDDVS(0.985)PS(0.0	3	-0.67906	437140.9	419624.8
Nefl	0.854323	5.81E-60	154.7	SAYSGLQS(0.011)S(0.854)S(0.135)	2	-0.27626	21597.0	15071.6
Tbc1d5	0.983903	3.58E-05	84.188	S(0.016)ES(0.984)MPVQLNK	3	0.21745	38762.1	35270.2
Aplp2	0.998282	7.88E-09	52.465	QYGTIS(0.001)HGIVEVDPMLT(0.9	3	2.4957	2894.3	3370.4
Tns1	0.904303	4.35E-101	135.34	VVPVHS(0.005)S(0.027)HS(0.904)	5	-0.16319	4521.3	5198.0
Dbnl	0.998391	0.00038767	66.989	ASGANY(0.002)S(0.998)FHK	3	-0.09713	27931.4	24308.7
Cobll1	0.893658	2.02E-27	104.45	VGDVEAERLS(0.894)GS(0.106)PAC	3	0.4399	12096.2	12361.1
Pnlsr	0.5	0.0137636	41.996	MEQQRS(0.5)QLS(0.5)HK	2	4.2149	57425.1	58347.1
Pnlsr	0.5	0.0137636	41.996	MEQQRS(0.5)QLS(0.5)HK	2	4.2149	57425.1	58347.1
Bcor	1	2.56E-06	82.59	KDGG(1)PPLLEK	3	1.3929	34424.3	36232.2
Rnf157	0.700033	6.79E-22	81.807	T(0.117)LS(0.7)PLDHLS(0.182)DCN	3	0.35443	23003.2	25684.3
Akt1	0.569789	0.000203805	44.998	RPHFPQFS(0.328)Y(0.11)S(0.57)AS	3	-0.79258	7993.0	8771.6
Akt1	0.576637	0.000203805	44.998	RPHFPQFS(0.328)Y(0.11)S(0.57)AS	3	-0.79258	7993.0	8771.6
Fam171a1	0.941216	1.66E-47	85.376	EELLSHKEEDKS(0.007)QT(0.024)S(	5	0.74396	6628.2	5992.2
Rictor	0.515401	3.56E-06	54.871	AQS(0.113)LKAPS(0.515)IAT(0.371	3	-1.8259	13658.6	10742.7
Ablim1	1	3.90E-08	95.195	GVS(1)MPNMLEPK	3	-0.065759	241064.4	255285.0
Tppp	1	6.88E-05	57.414	AANKT(1)PPKS(1)PGDPAK	4	-0.0035348	60699.0	66712.2
Cby1	0.636297	4.42E-08	90.388	S(0.035)AS(0.329)LS(0.636)NLHSL	3	-0.13428	6811.4	6747.2
Arfgef2	0.909972	1.27E-19	61.642	EGS(0.09)LKGHS(0.91)LAGEEFMGI	4	-0.73282	20142.0	19696.2
Vim	0.966123	1.36E-50	157.37	TYSLGSALRPS(0.966)T(0.033)S(0.0	3	0.51772	15378.4	9859.9
Pde4d	0.999691	3.12E-08	102.87	SDSDYDLS(1)PK	2	0.20154	72201.2	72626.7
Eml1	0.672308	4.58E-15	120.77	T(0.303)S(0.017)S(0.672)S(0.009)E	3	0.48233	16897.9	18548.8
Pcdh7	0.738243	5.70E-20	74.561	SSSPLPT(0.002)VQLHPQS(0.738)P'	4	-0.42775	42208.9	43870.0
Cep170b	0.778538	1.20E-09	88.311	S(0.001)QS(0.008)FT(0.212)HT(0.7	2	-0.43756	11195.6	10462.2
G3bp1	0.953836	6.12E-22	82.406	S(0.046)AS(0.954)PAPADVAPAQEI	3	-2.1426	45858.5	48779.8
Frmf6	0.995042	0.00017469	75.416	HS(0.005)LS(0.995)LDDIR	3	-0.41232	24837.5	24828.7

6237.4	6963.8	7889.3	7156.1	0.1	0.4	269
11119.1	11977.5	12852.6	12577.0	0.1	0.2	132
2567.0	2788.4	2523.1	2760.1	0.1	0.4	175
74725.1	74791.8	79601.1	79488.0	0.1	0.1	94
14029.9	14066.3	14264.3	15189.0	0.1	0.1	183
4001.9	3810.3	4055.0	3610.4	0.1	0.5	320
48106.9	52881.7	51857.0	49629.0	0.1	0.0	337
9319.9	11037.0	10453.9	9355.6	0.1	0.4	1568
442550.4	463677.0	463663.2	446440.0	0.1	0.1	775;775
17633.7	19955.5	17252.2	20208.0	0.1	0.7	431
34089.8	37026.8	40784.8	36511.0	0.1	0.3	483
3101.3	3306.9	3302.6	3293.6	0.1	0.3	726
4700.4	4534.0	5480.4	5232.3	0.1	0.5	748
27106.8	25349.7	26445.7	32103.0	0.1	0.6	141
11638.7	14266.5	12814.1	11086.0	0.1	0.5	592
62209.2	59974.2	63261.6	64956.0	0.1	0.2	261
62209.2	59974.2	63261.6	64956.0	0.1	0.2	264
34577.4	37731.9	37178.1	36364.0	0.1	0.0	423
25879.3	25599.4	27000.4	26248.0	0.1	0.2	376
7736.8	8954.4	8353.4	8600.5	0.1	0.3	475
7736.8	8954.4	8353.4	8600.5	0.1	0.3	477
7091.6	6704.0	7380.3	6759.8	0.1	0.4	323
11903.8	12887.1	13347.4	12156.0	0.1	0.5	1254
250850.9	260437.5	278200.1	251490.0	0.1	0.2	686;599
64815.4	66141.7	69426.6	67703.0	0.1	0.1	15
6859.0	7488.4	7336.8	6765.7	0.1	0.2	22
17921.1	19133.8	21617.6	20328.0	0.1	0.3	1035
12554.3	14186.2	14395.7	11384.0	0.1	0.7	47
71839.9	75944.5	78062.3	75121.0	0.1	0.0	139;130
15375.6	17659.9	17863.5	18222.0	0.1	0.4	103
44602.1	45332.6	47877.4	44990.0	0.1	0.1	1011
11161.7	11866.4	11541.4	11301.0	0.1	0.1	453
44526.5	53535.0	47241.5	46401.0	0.1	0.4	231
28511.1	27162.4	29102.4	26414.0	0.1	0.4	536

Akt1s1	0.666562	6.29E-12	47.286	AATATRPPGPPPAPQPPS(0.667)PA	3	-0.20396	8152.2	8302.4
Rictor	0.688268	9.27E-08	45.639	T(0.024)FT(0.063)EPS(0.688)VDFN	4	-0.068038	9264.4	8534.2
Arhgef11	1	0.000127897	87.216	APPS(1)LDGENR	2	-0.12378	64639.6	68993.7
Ppp1r1b	0.793008	9.84E-61	99.954	IAESHLQT(0.001)IS(0.011)NLS(0.7	4	1.3372	8926.8	9064.4
Tmem57	0.930871	1.32E-42	89.024	RLNNDLVGS(0.931)T(0.069)ENLLK	4	1.7387	33663.4	33133.4
Dab2ip	0.5	0.00364182	46.318	S(0.5)LS(0.5)MVDLQDAR	2	-0.99017	7974.6	8355.0
Dab2ip	0.5	0.00364182	46.318	S(0.5)LS(0.5)MVDLQDAR	2	-0.99017	7974.6	8355.0
Arhgap39	0.97893	2.65E-48	90.674	RPS(0.007)GS(0.007)QHS(0.979)PI	4	-1.5411	12628.1	10388.8
Uckl1	0.934793	4.97E-13	100.31	LLPPVGT(0.065)GRS(0.935)PR	2	-0.40879	14581.7	13637.9
Npr3	1	0.00227876	83.438	ELREDS(1)IR	2	0.15715	9707.2	10919.1
Cdc42bpb	0.651215	3.90E-07	62.759	T(0.151)S(0.151)S(0.651)AS(0.047	3	0.4702	19354.8	15670.5
Srrm1	0.999362	0.000370678	64.827	AAS(0.382)PS(0.619)PQS(0.999)VI	2	-0.51169	27851.5	26330.3
Larp1	0.72122	5.22E-59	96.793	T(0.017)AS(0.052)IS(0.721)S(0.18	4	0.71838	31492.7	29274.5
Mast2	0.949773	3.13E-42	130.56	S(0.012)LS(0.95)EEKEDHS(0.038)D	4	-0.37358	21876.1	19694.0
Arhgap27	0.560279	4.44E-14	79.462	S(0.56)DS(0.439)ENVY(0.001)EAIP	2	0.83623	23761.8	23535.4
Zc3hc1	0.748623	4.08E-09	52.97	S(0.019)WES(0.048)S(0.183)S(0.7	3	1.0507	6184.0	6333.0
LOC10023	0.623848	0.00979581	49.448	T(0.006)NS(0.624)DGPS(0.371)AK	2	-1.0615	4764.6	6002.6
Rims1	0.997319	7.25E-40	120.44	RAS(0.997)QS(0.002)SLESSGPPCI	3	-0.22473	53845.9	54494.7
Kazn	0.996719	0.0428744	46.819	MGFGS(0.997)IS(0.003)R	2	2.0766	4993.0	5234.5
Map2	0.993955	4.52E-09	97.203	T(0.994)PGT(0.006)PGTPSYPR	2	-0.17152	51909.0	52958.0
Med7	0.976359	8.41E-30	83.467	VKTEPMDT(0.002)DDNS(0.976)NC	3	0.23622	18373.2	18919.6
Camsap3	0.991224	1.11E-14	112.12	KFS(0.991)PS(0.009)QVPVQTR	3	-0.65316	52706.9	51766.7
Bsn	1	0.00373785	77.662	AAGAS(1)PLK	2	-0.24016	14647.3	17321.4
Arfgef1	0.736307	2.89E-16	67.01	LS(0.051)VS(0.203)S(0.736)NDT(0	3	-0.73054	11607.9	11264.2
Pard3	0.829801	2.62E-42	95.209	S(0.17)PGS(0.83)PAAPELPIETELDD	3	0.52245	11305.3	11717.2
Etfa	0.53349	2.19E-08	54.582	GT(0.533)S(0.466)FEAAAASGGAS	3	1.3907	10162.2	11480.3
Acap3	0.938837	7.59E-33	111.01	TASPS(0.001)T(0.005)S(0.055)S(0.	3	0.70991	5847.3	6939.5
Dido1	0.872018	5.55E-10	83.692	SILAKPS(0.016)S(0.112)S(0.872)PC	3	0.10103	21521.9	21805.6
Ankrd13d	0.997273	1.24E-21	73.809	GPES(0.999)PQKT(0.997)PPPPAPP	4	-0.86858	66850.9	59464.8
Wdr47	0.999871	1.50E-26	78.707	S(1)LNPALDGLTCGLTSHDKR	4	-0.86445	45839.4	42500.0
Kiaa1671	0.786454	1.81E-07	91.202	S(0.023)AS(0.786)S(0.156)S(0.035	3	2.0783	9662.4	8325.6
Frmd4a	0.759294	5.30E-70	119.87	RFPS(0.759)T(0.227)GS(0.014)CTE	4	0.51094	2283.1	2248.9
Gab1	0.650993	7.96E-07	57.414	VT(0.651)S(0.145)VS(0.101)GES(0	2	2.5995	26568.1	22410.0
Smarca4	0.99549	4.69E-08	54.828	KKIPDPDS(0.005)DDVS(0.995)EVD	4	0.060512	28365.5	29402.8

8820.0	9379.4	8176.1	9175.1	0.1	0.3	92
8909.1	9330.5	10137.5	8778.2	0.1	0.3	1085
64013.7	68751.9	73927.7	66355.0	0.1	0.2	1210;1199
9427.4	9456.2	10360.2	9182.0	0.1	0.2	97
32918.7	35082.1	37942.2	32437.0	0.1	0.3	254
7410.3	8158.2	8551.5	8398.2	0.1	0.2	717
7410.3	8158.2	8551.5	8398.2	0.1	0.2	719
12144.4	12350.3	12439.0	12398.0	0.1	0.4	249
13093.0	14075.1	15540.2	14078.0	0.1	0.3	19
9955.6	10378.7	9627.6	12338.0	0.1	0.5	527
16636.1	17761.0	20425.0	16455.0	0.1	0.6	970
25971.9	28859.6	28525.3	27392.0	0.1	0.1	677
27308.1	31021.1	32593.6	29541.0	0.1	0.3	718
22091.3	22169.7	23642.7	21525.0	0.1	0.3	825
23825.6	23827.3	25927.4	25475.0	0.1	0.1	195
6256.6	6870.9	6264.7	6723.0	0.1	0.1	358
4969.0	5736.8	5277.0	5631.9	0.1	0.5	85
55342.2	57012.0	58498.6	57635.0	0.1	0.0	1599
5110.0	5139.9	5730.6	5353.7	0.1	0.2	381
52534.8	56171.6	55435.9	54896.0	0.1	0.0	1700;1614
18538.6	19269.1	18671.3	21120.0	0.1	0.2	195
52564.6	56826.1	56698.0	52597.0	0.1	0.1	813;814
13744.5	21284.2	13144.3	13930.0	0.1	0.8	548
11049.9	11953.3	11473.0	12459.0	0.1	0.1	394
12070.9	12765.0	12129.1	12231.0	0.1	0.1	695;695
10382.1	10955.6	11968.8	10956.0	0.1	0.3	171
5655.0	7673.4	6031.3	5805.9	0.1	0.6	118
20730.7	22769.2	22801.7	22200.0	0.1	0.0	977
65123.1	68762.9	71265.7	62506.0	0.1	0.3	491
41905.4	48017.6	44484.4	45292.0	0.1	0.2	312
9445.9	9792.2	10735.6	8496.6	0.1	0.5	530
2253.2	2307.5	2339.2	2532.0	0.1	0.1	674
25736.7	26721.3	26706.5	25619.0	0.1	0.3	250
27975.6	30901.2	30709.6	29105.0	0.1	0.1	699

Spata13	0.891704	3.38E-06	126.71	S(0.892)IDS(0.106)LS(0.003)VLK	2	0.28535	85905.1	85152.4
Dab2	0.726812	3.20E-06	66.982	S(0.256)ADNS(0.727)LENPFS(0.01	3	-0.11195	14915.6	17230.3
Trim47	0.711585	1.11E-06	56.339	S(0.002)GALAS(0.712)PT(0.285)DF	2	0.28913	6155.8	5917.0
Tppp	1	6.88E-05	50.858	AANKT(1)PPKS(1)PGDPAK	4	-0.0035348	35273.5	39335.4
Arpp21	0.859384	8.58E-13	104.94	T(0.141)AS(0.859)FGGITVLTTR	3	-1.167	503.5	797.8
Ank3	0.815876	1.01E-42	81.721	T(0.016)PS(0.016)APQS(0.816)AES	4	-0.43481	11871.9	10991.1
Basp1	0.892185	7.04E-101	127.14	AEGAGT(0.107)EEEGT(0.892)QKE	4	0.26448	16117.9	14105.2
Trpv1	0.545625	0.0316724	62.558	T(0.019)LS(0.546)FS(0.436)LR	2	1.6145	2983.8	2914.2
Git1	0.51636	7.46E-70	116.99	KGVSASSVTFT(0.001)PS(0.001)S(0	3	1.4928	6149.1	5985.0
Epn1	0.96718	2.41E-198	190.44	T(0.967)PES(0.033)FLGPNAALVDL	4	-0.70714	64402.3	66482.9
Glcci1	0.811957	2.51E-05	50.305	Y(0.001)AS(0.173)S(0.812)PKPNN	4	-0.064874	3049.6	2811.8
Llgl1	1	0.0059185	67.334	S(1)LRQS(1)FR	3	0.53168	1894.7	1730.6
Ncoa5	0.728561	0.00335485	55.899	GPPGPES(0.729)QS(0.271)R	2	-0.34681	4740.7	4984.5
Sh3pxd2b	1	0.000525708	61.344	LRPAKS(1)QEK	4	-0.15046	47512.8	51353.2
Tmcc2	0.741754	1.39E-05	50.831	IQQLS(0.742)EGS(0.258)MFGHGLI	4	-0.663	3008.3	2349.7
Map2	0.820772	3.21E-17	73.294	ET(0.469)S(0.538)PET(0.821)S(0.1	3	0.18648	13129.0	11956.4
Irf2bp2	0.544178	2.10E-69	117.94	IPITPT(0.003)S(0.002)S(0.009)FVS	5	-0.18553	945.5	1068.2
Hsf1	1	7.62E-16	101.08	VKEEPPS(1)PPHS(1)PR	4	0.48787	76514.0	65766.6
Sync	0.980471	2.29E-49	118.32	DTHTEASFPLQDS(0.02)ES(0.98)PK	3	0.0047968	62308.0	62328.9
Zeb2	0.723852	1.81E-21	71.427	T(0.055)GS(0.18)S(0.724)PNS(0.0	3	-0.21748	13547.6	13774.0
Sgip1	0.888001	5.49E-08	92.495	RS(0.108)T(0.888)PT(0.004)PELTSI	3	-0.0061379	34405.2	39012.9
Tpd52	0.998732	1.01E-14	122.66	LQAFS(0.001)HS(0.999)FS(0.001)II	3	-0.99578	39441.9	37210.6
Rbmxrtl	0.998457	0.0273623	53.317	S(0.001)TPS(0.998)GPVR	2	0.027382	14265.6	16402.2
Trio	0.988166	9.10E-25	99.409	DSDDS(0.012)AAT(0.988)PQDETIE	3	0.53052	6718.5	6116.2
Rapgef2	0.967	2.24E-07	82.663	ILS(0.967)LS(0.033)EEGSLER	3	1.2064	12222.6	10962.5
Fam188b	0.905117	2.41E-119	179.06	S(0.002)IS(0.093)EDS(0.905)PLGY	3	-1.9074	11147.4	11223.6
Sh3d19	0.835138	4.08E-13	72.433	AFEGQT(0.133)S(0.835)T(0.032)EI	3	-1.6399	16871.6	17012.1
Flna	0.998071	1.93E-21	85.013	SGQSAAGAS(0.998)PAGGIDT(0.00	3	0.44799	13905.4	15228.5
Amer1	0.586069	1.87E-05	51.591	FYQQLPWGVS(0.586)S(0.414)LPR	3	-0.60979	2042.1	2151.7
Usp20	1	0.00387432	62.466	KFS(1)WGQQR	3	1.5216	11487.1	10132.1
Pi4ka	0.887429	3.35E-25	107.98	KT(0.013)S(0.071)S(0.887)VS(0.02	3	0.1549	12578.0	11677.8
Pfkm	1	0.0224494	40.039	KRS(1)GAAAV	3	0.25891	7707.7	9207.7
Limch1	0.805715	5.58E-36	100.76	S(0.03)HS(0.806)T(0.164)EPNVSSF	4	0.037299	25237.1	25091.9
Ctnna2	0.999697	3.06E-32	109.85	TSVQT(1)EDDQLIAGQSAR	2	1.5857	53699.2	71802.9

83891.7	95069.5	90664.8	84000.0	0.1	0.2	225
17764.6	18282.4	17641.2	16882.0	0.1	0.4	733
6070.9	6285.9	6883.6	6026.9	0.1	0.3	592
39336.4	39373.1	40530.5	40657.0	0.1	0.2	19
447.8	769.8	528.4	552.5	0.1	0.8	382
11749.4	12176.6	11888.7	12557.0	0.1	0.1	2134
14576.0	16034.1	14782.6	16584.0	0.1	0.3	36
2531.7	3311.8	2958.6	2649.0	0.1	0.5	774
6219.4	6242.3	6633.8	6544.3	0.1	0.1	585
68462.9	71979.2	69813.4	69145.0	0.1	0.1	469
3152.6	2984.7	3508.7	3044.7	0.1	0.4	289
1722.4	1742.2	2208.0	1708.4	0.1	0.6	657
4963.1	5277.8	5369.0	4895.7	0.1	0.2	161
50918.6	53841.9	56288.7	48365.0	0.1	0.3	672
2676.3	2865.9	3095.9	2539.8	0.1	0.6	17
12603.2	13183.0	13695.7	13003.0	0.1	0.1	1247;1161
1099.0	972.9	1175.0	1146.0	0.1	0.5	388;238
72768.3	74729.1	83201.4	69637.0	0.1	0.5	303
61918.5	77735.3	59784.2	59898.0	0.1	0.6	32
12736.3	13792.4	14965.3	13633.0	0.1	0.2	289
36456.5	37685.7	39109.2	39479.0	0.1	0.2	208
35381.2	40770.0	40779.5	37015.0	0.1	0.3	175
12817.2	15566.6	15232.5	15221.0	0.1	0.5	165
7056.1	6727.4	7980.8	6342.8	0.1	0.5	1785
11300.1	12985.0	11579.8	11932.0	0.1	0.3	886;1243
11858.0	12718.8	11850.2	11657.0	0.1	0.2	313
18469.4	18697.1	18767.5	17943.0	0.1	0.2	301
14050.1	15987.9	13726.7	15990.0	0.1	0.4	16
1755.1	2037.3	2148.5	2110.3	0.1	0.4	852
9418.6	10373.5	11211.1	11265.0	0.1	0.4	316
12068.8	13344.7	13248.0	11855.0	0.1	0.3	199
8963.8	9574.6	8853.2	8964.1	0.1	0.4	775
27342.1	24789.8	30298.2	27125.0	0.1	0.4	312;303
61113.6	51826.8	75090.4	70611.0	0.1	0.7	657;660



Klc2	0.919208	0.00179269	110.53	RS(0.081)S(0.919)EMLVR	2	-0.276	13841.0	12791.1
Reps2	0.536337	4.97E-09	51.628	S(0.536)FS(0.463)VERELQENNSNY	4	1.9377	4932.3	4495.9
Rtkn	0.99951	1.60E-17	71.309	FRLS(1)VLSLDPEDTELQR	3	-0.090519	5068.8	5051.7
Mylk	0.807602	3.66E-14	79.837	S(0.002)S(0.002)T(0.036)GS(0.808	2	1.7328	38795.5	37242.5
Caprin1	0.998988	3.67E-09	97.463	S(0.999)FMALS(0.001)QDIQK	3	-0.16939	4574.6	4563.9
Ppfia2	0.777564	0.000438283	75.115	CET(0.778)S(0.216)PPPT(0.006)PR	3	0.19413	8941.2	9293.3
Cobll1	0.998683	0.000477656	123.6	RSQS(0.999)FS(0.001)K	2	1.1406	29046.5	30490.9
Tmem230	0.58202	1.00E-09	64.104	LS(0.057)S(0.293)T(0.068)DDGY(0	3	1.5465	6417.8	7012.7
Med1	0.998557	1.03E-20	82.609	LPST(0.001)S(0.001)DDCPPIGT(0.9	3	0.93266	33417.7	35433.6
Fam21c	0.788934	0.0151663	63.073	HEQS(0.211)T(0.789)PGK	2	0.070413	4458.8	4620.9
Ptpn13	0.787075	9.92E-06	49.188	LS(0.197)CS(0.787)EWS(0.015)LY(i	3	1.6157	8204.7	7850.4
Brd9	0.55132	0.000175431	71.558	EQHPPGS(0.449)PS(0.551)R	3	2.0706	11856.3	14169.9
Mapk8ip3	0.702595	2.95E-07	49.851	MQQVGGGGQT(0.002)ES(0.168)S	3	-1.6877	8448.8	7091.3
Pak3	0.978135	6.14E-13	74.338	S(0.978)VVES(0.021)IAS(0.001)PA	3	-0.24725	6204.6	4403.7
Raf1	0.610152	7.55E-73	147.91	S(0.13)T(0.13)S(0.61)T(0.13)PNVH	3	0.55972	49363.8	48224.8
C5ar1	0.671581	0.0147362	52.255	S(0.079)T(0.079)MDT(0.672)S(0.1	2	-0.28229	3906.9	3636.4
Srgap3	0.649506	1.35E-48	119.72	S(0.148)S(0.148)S(0.65)S(0.043)S(	4	0.59185	10349.0	10470.6
Lman1	0.819998	8.70E-07	40.067	LVS(0.045)GVQHPGS(0.82)AGVY(C	4	-1.2224	4838.1	4751.3
Reep1	0.884557	1.73E-06	76.073	S(0.003)AS(0.109)ES(0.885)AGS(0	2	0.17901	7834.0	7684.5
Mtmr10	1	0.00441888	103.19	RNS(1)LILK	2	0.7074	25573.4	21874.7
Ppm1h	0.987648	1.40E-25	109.36	GGVGAPGS(0.001)PS(0.011)T(0.98	2	-0.37585	34522.1	32216.4
Fam120a	0.792971	0.000223019	83.573	T(0.207)GS(0.793)HAEPLAR	2	-0.3521	32221.4	31876.3
Map1a	0.963102	5.96E-17	92.856	GHWDDGT(0.037)NDS(0.963)DLEI	3	0.622	46258.1	45741.3
Aak1	0.999987	1.01E-13	63.532	AGQTQPNPGILPIQPALT(1)PR	3	-1.1878	25704.6	26915.0
Hepacam	0.826846	1.26E-100	132.53	STTEPGPPGY(0.312)S(0.827)VS(0.1	3	1.2877	35218.6	36757.6
Dtd1	0.755389	6.07E-24	97.08	S(0.002)AS(0.041)S(0.956)GAEGD'	2	-0.10284	48305.9	49805.4
Etl4	0.787133	1.29E-53	94.259	AAPTSS(0.001)S(0.003)S(0.014)S(C	3	-0.14292	3188.2	3048.3
Tanc2	0.999038	0.000239391	46.892	EY(0.012)PS(0.989)PPPS(0.999)PL	3	0.91676	22836.2	23297.4
Fam21c	0.999935	3.84E-70	106.11	VPLLFS(1)DEEDSEVPSGVKPVDLK	4	0.39345	129799.3	122119.5
Gatad2b	0.802368	5.15E-22	73.574	VS(0.186)S(0.802)PLPS(0.011)PS(C	3	-0.16689	65790.6	55902.1
Aftph	0.569027	9.55E-38	85.376	GLS(0.431)VEKQDLQT(0.569)LQQI	3	0.41027	23452.8	23627.5
Rap1gap	0.949007	1.19E-17	97.904	AAGIS(0.006)LIVPGKS(0.949)PT(0.	3	-1.7545	75849.6	86350.2
Fam126b	0.5035	0.0011055	120.45	TAS(0.001)AS(0.013)S(0.504)S(0.4	2	0.049323	24242.4	24144.2
Mtus1	0.5	9.63E-32	130.36	QLS(0.5)T(0.5)EQAALQESLEK	3	1.1371	27816.9	28763.3

9887.0	14314.9	12910.3	11430.0	0.1	0.6	557
4550.8	4828.9	5547.4	4420.7	0.1	0.5	118;244
5123.3	6009.2	5030.4	5096.3	0.1	0.4	30
38873.3	39824.0	36967.6	44845.0	0.1	0.4	1810
4039.8	4366.4	5024.4	4558.9	0.1	0.4	34
9590.4	9577.2	10609.2	9267.4	0.1	0.3	620
27149.4	31226.8	32511.4	28026.0	0.1	0.4	1138
6815.0	6637.0	8168.2	6626.3	0.1	0.5	29
33423.4	35745.4	37426.0	35095.0	0.1	0.1	790
4455.4	4628.4	4580.1	5119.6	0.1	0.2	427;427
8251.1	8565.8	9358.8	7806.1	0.1	0.4	931
12079.4	13533.9	13131.5	13674.0	0.1	0.4	560
7543.5	7743.3	8698.7	7995.1	0.1	0.4	201
5796.1	5073.7	6637.2	5655.3	0.1	0.7	205
49756.0	54823.1	51948.9	49214.0	0.1	0.2	259
4105.9	4192.4	3619.4	4520.6	0.1	0.5	344
9516.1	11833.4	10953.6	9328.3	0.1	0.5	1046
4317.7	5391.2	4345.9	4986.3	0.1	0.5	433
9118.3	8454.1	8480.4	9149.1	0.1	0.4	194
23623.3	22867.1	27335.9	25042.0	0.1	0.5	521
30261.4	34267.0	36242.0	32188.0	0.1	0.3	223
30828.8	34446.3	34409.3	31647.0	0.1	0.1	485
48102.7	51683.8	46503.1	50148.0	0.1	0.2	2315
24681.6	25732.5	27457.7	28654.0	0.1	0.2	389
36127.6	38272.0	42152.7	34035.0	0.1	0.4	333
47156.2	52573.7	52035.5	49202.0	0.1	0.1	205
3743.6	3579.4	3552.1	3435.6	0.1	0.4	1743
23563.7	23572.1	25308.7	24917.0	0.1	0.1	1610
134592.0	135152.0	142653.3	131450.0	0.1	0.2	720;686
62102.7	63760.3	69376.4	61481.0	0.1	0.4	333
23395.5	24853.6	28258.2	21514.0	0.1	0.5	320
74354.6	89421.2	81686.1	79378.0	0.1	0.4	582
22393.7	25185.8	25905.0	23858.0	0.1	0.2	452
26718.3	26920.4	29206.0	32080.0	0.1	0.4	1143

Phldb2	0.999633	2.53E-43	90.955	KGS(1)LQDVDIAGFGSLGHSASFLAP	3	-0.23159	15204.3	14809.4
Dlc1	0.999982	3.35E-14	111.81	QDIPGS(1)PDNSR	2	-0.38564	8820.8	8502.7
Smtn	0.93761	1.77E-07	66.387	S(0.031)T(0.031)S(0.938)FGVPNAI	3	0.8339	26836.5	25029.4
Akap9	0.939657	1.36E-05	46.892	S(0.001)RFDLDY(0.06)PRS(0.94)PL	4	-2.3747	1527.1	1958.4
Sdpr	1	0.0438245	60.91	IVS(1)VERR	2	2.2786	13115.9	13405.4
Map1a	0.856069	8.40E-84	125.59	DLSPPLNGS(0.856)T(0.145)VS(0.4)	4	-0.19154	56496.0	57724.0
Sipa1l1	0.968344	0.0046624	42.314	QNT(0.003)QS(0.029)DIGGS(0.96)	2	0.91832	2394.7	2561.1
Brsk2	0.848387	7.19E-19	63.095	KLQVPT(0.008)PEEMS(0.371)NLT(	4	-0.8271	76800.2	80024.3
Tbc1d10b	0.99982	8.41E-16	108.97	HGASAAPS(1)PPPR	2	-0.41616	74392.2	74441.0
Pag1	0.77397	2.07E-21	119.77	S(0.003)S(0.003)S(0.22)S(0.774)Cf	3	-0.12854	19056.6	16722.5
S1pr3	0.702728	1.91E-09	72.904	S(0.022)S(0.023)S(0.703)S(0.15)NI	3	-0.15964	6438.6	7016.9
Sphkap	0.813507	0.0330906	58.433	S(0.175)DS(0.814)CLY(0.012)R	2	0.14357	24613.3	24893.4
Ppfia1	0.999991	1.78E-29	116	GLASGSAET(1)LPANFR	3	-0.45505	10676.4	10589.8
Dock9	0.956115	4.97E-63	110.17	NADS(0.012)RGS(0.956)LIS(0.015)	4	0.37908	18391.1	19168.6
Gramd1a	0.650898	4.05E-14	138.51	S(0.343)S(0.651)PS(0.006)S(0.001	2	-0.29578	7792.5	6470.9
Klc1	0.579881	1.21E-07	66.022	VDS(0.412)PT(0.58)VT(0.005)T(0.(	3	2.546	17231.8	18770.4
Tsc22d3	0.989811	0.00140711	46.88	T(0.01)LAS(0.99)PEQLEK	3	0.33447	10017.6	10667.6
Triobp	0.875788	6.85E-65	147.35	QSLDYVELSPLT(0.001)PS(0.123)S(i	3	-0.39355	23093.9	21007.0
Atxn2l	0.816702	1.29E-17	137.58	S(0.035)T(0.009)S(0.817)T(0.134)f	2	0.073672	42195.8	39677.6
Cenpa	0.555442	0.000196852	57.106	S(0.445)S(0.555)GVGPQALHR	3	0.63864	7469.3	7982.9
Numa1	0.808092	1.38E-12	69.289	VS(0.148)S(0.808)ET(0.046)HQGPi	3	-1.5232	23634.1	19530.6
Stim1	0.997823	5.59E-108	186.17	DLTHS(0.002)DS(0.998)ESSLHTSDf	3	-0.72111	45039.2	43745.0
Shroom1	1	0.000896374	59.067	LCCFS(1)EPGK	3	0.74409	7408.6	6580.4
Tom1	0.995401	2.06E-29	81.974	KGLEFPMTDLDMLS(0.995)PIHT(0.)	4	-0.51396	31287.6	30489.8
Msl3	0.738445	0.000278465	54.343	LS(0.001)ES(0.018)S(0.11)S(0.738)	3	0.35077	23308.5	24031.2
Ncoa1	0.989794	9.57E-22	106.39	KGS(0.99)PCDT(0.01)LASSTEKR	4	-1.5296	21251.2	21195.7
Eif4g3	1	0.00892359	53.124	LVLS(1)GEKK	3	1.0275	7451.6	6839.4
Tead3	0.988305	2.23E-12	67.644	FS(0.012)PPS(0.988)PLPQAVFSTSF	3	0.81757	4019.4	3822.3
Zyx	0.93394	0.000239406	41.988	FS(0.934)PGAPS(0.064)GPGPQPS(	3	0.76913	12477.8	16093.9
Coro1a	0.999422	5.71E-28	109.23	RRAT(0.999)PEPSSTLSSDTVSR	3	-0.7565	74778.6	76246.5
Arhgap21	0.543926	3.05E-09	69.331	KDS(0.369)S(0.085)S(0.544)EVFS(c	4	2.2897	4301.3	4015.7
Sgip1	0.998671	2.35E-32	135.69	ASIGNIALS(0.999)PS(0.001)PVR	2	-0.79312	38613.0	40667.0
Ptrf	0.999893	0.000888478	80.24	TVRGS(1)LER	3	-0.30715	9776.9	10705.6
Fcho2	0.629494	2.65E-83	116.45	GPS(0.371)PVS(0.629)LGNQDTLP\	3	0.36413	7670.6	7236.5

16664.8	15747.0	16786.3	16896.0	0.1	0.2	555
8523.2	8998.6	9054.1	9317.4	0.1	0.0	129
26800.2	28329.5	27496.2	27482.0	0.1	0.1	798
1769.4	2037.5	2029.9	1497.7	0.1	0.7	3707
13229.2	12343.7	15141.6	14613.0	0.1	0.4	263
56226.9	57706.1	64519.4	58292.0	0.1	0.2	2287
2954.8	2926.8	2782.7	2668.4	0.1	0.4	1236
73098.3	80902.0	85256.4	77349.0	0.1	0.2	669
77429.3	79411.6	83077.4	77151.0	0.1	0.1	22
17574.0	19858.7	20207.0	16443.0	0.1	0.5	346
6275.1	7031.8	6737.8	7127.9	0.1	0.2	302
24724.2	25600.5	27158.5	25863.0	0.1	0.0	1315
10236.2	11295.5	11565.9	10505.0	0.1	0.1	1158
19350.9	19434.1	21686.0	19158.0	0.1	0.3	1252
7497.4	7593.7	8187.0	7268.4	0.1	0.4	12
16223.0	18448.5	19889.6	16979.0	0.1	0.4	462;462;462
10678.4	10785.0	12012.6	10423.0	0.1	0.3	167
22197.8	23135.5	23729.2	23360.0	0.1	0.1	1607
42319.5	43444.0	46254.1	41854.0	0.1	0.2	677
8225.8	7608.2	9123.7	8349.4	0.1	0.4	51
22682.2	24408.1	23089.1	22256.0	0.1	0.4	1972
42759.2	44778.3	49538.1	45033.0	0.1	0.2	521
7039.6	7645.2	7345.8	7285.6	0.1	0.2	258
30115.5	32792.0	32114.9	32440.0	0.1	0.0	160
23544.6	25177.0	25673.1	24242.0	0.1	0.0	311
19242.3	20618.7	23407.6	21325.0	0.1	0.3	22
7893.5	7685.0	8888.4	6928.1	0.1	0.5	278
3682.1	3979.4	3873.8	4354.9	0.1	0.3	148
13780.7	13926.6	16249.8	14695.0	0.1	0.5	272
73496.5	81074.7	78755.8	78047.0	0.1	0.0	418
3873.2	4195.0	4514.7	4205.6	0.1	0.2	929
38531.5	41163.8	43373.0	40284.0	0.1	0.1	177
9731.4	11831.2	9903.6	10277.0	0.1	0.4	129
7672.8	7159.3	7925.6	8839.4	0.1	0.4	581

Plekhf2	0.866413	7.13E-09	134.75	S(0.866)DS(0.084)YS(0.05)QSLK	2	-0.78194	22278.1	21366.8
Tagln3	1	8.41E-05	100.07	RGFS(1)EEQLR	3	-0.6382	114347.0	106696.9
Ankle2	0.926355	0.00018429	57.532	GICDY(0.063)LPS(0.926)PS(0.011)	3	-0.27652	6564.5	7195.3
Slc7a2	1	1.68E-06	80.632	NLS(1)LPFILHEK	3	-0.38388	12653.1	11440.8
Stag1	0.856748	0.00102292	45.654	GRPGRPPS(0.143)T(0.857)NK	4	0.52806	10718.7	11152.3
Apba1	0.983401	1.20E-47	142.23	SNSQENVEAS(0.983)HPS(0.017)QI	2	0.12664	14074.8	14581.3
Lgalsl	0.999079	1.98E-107	175.46	LDDGHLNNS(0.999)LGS(0.001)PV(	3	1.0839	78378.1	77829.4
Wnk2	0.937292	1.92E-08	97.69	AGS(0.937)LGPET(0.062)PS(0.001)	2	0.051112	32273.9	29849.2
Rrp8	0.550637	4.61E-22	125.14	ES(0.001)AS(0.443)PNS(0.551)S(0.	3	-0.87144	3775.2	3866.7
Ccdc120	0.998126	0.00181288	65.232	AVS(0.002)GGS(0.998)PER	2	-1.087	29357.8	29579.4
Cirbp	0.661414	8.26E-05	41.45	S(0.005)S(0.005)GGS(0.012)YRDS(	3	0.32055	2335.7	2894.8
Ednra	0.999863	0.00848056	52.725	SSHKDS(1)MN	3	-0.53549	13146.9	11703.0
Son	0.985188	1.37E-26	100.45	CVS(0.005)VQT(0.985)DPT(0.01)D	3	-0.17305	26813.8	25744.6
Zc3hav1	0.982601	3.15E-40	125.79	AS(0.017)QEFS(0.983)EDGNLDDIF	2	2.2833	16990.9	14401.4
Kctd12	1	0.000247288	46.415	LGAPQQPGPGPPPHS(1)R	3	-1.2007	6143.1	7672.0
Dpysl3	0.888453	3.45E-55	132.66	NLHQSGFS(0.109)LS(0.888)GT(0.0	3	-0.44281	58546.2	57567.2
Map1a	0.999364	1.95E-44	100.04	ESTFLDEGPDEQEIT(0.999)PLQHT((	3	0.60859	29064.4	27460.2
Ppp2r5d	0.995302	0.000925752	54.898	QS(0.009)S(0.995)S(0.996)RFNLSK	3	0.56478	32516.0	31969.6
Ppp2r5d	0.995999	0.000925752	54.898	QS(0.009)S(0.995)S(0.996)RFNLSK	3	0.56478	32516.0	31969.6
Zfpm1	0.609018	6.05E-09	51.473	GS(0.005)EGS(0.046)QS(0.609)PG	3	1.0773	3389.7	4465.4
Cct6a	0.573564	0.00873172	57.204	S(0.008)ET(0.034)DT(0.574)S(0.38	2	-0.26649	19955.9	20276.5
Pea15	1	1.11E-60	166.29	YKDIIRQPS(1)EEEEIK	3	-0.61754	1669154.9	1802998.9
Rasgrf1	0.999723	0.00022245	59.294	LLYGDAPKS(1)PR	3	0.55908	15120.8	14772.2
Patl1	0.642952	0.00092194	42.818	RS(0.643)T(0.645)S(0.652)PIIGS(0.	3	2.1194	11911.6	12320.5
Patl1	0.644799	1.58E-06	82.529	RS(0.643)T(0.645)S(0.652)PIIGS(0.	3	2.1194	11911.6	12320.5
Dennd5a	0.719357	2.93E-05	46.89	NGNIAGS(0.101)PLHS(0.719)Y(0.1	3	1.4319	6885.0	7386.2
RGD15604	0.857308	1.15E-12	68.481	VPQS(0.001)LT(0.042)T(0.857)AP/	3	-0.98123	5236.7	5097.5
Camk2g	1	5.97E-07	62.709	KS(1)DGGVK	2	-0.27771	176421.1	164526.3
Szt2	0.662369	6.39E-12	49.087	NHFQHPLPAQGGPLDLDIY(0.662)L	5	0.28351	16783.4	17985.0
LOC100911	0.999709	1.51E-10	64.405	TLNQLGT(1)PQDTPELR	3	2.1346	3292.7	3593.4
Armcx3	0.78507	1.68E-18	71.148	RAS(0.785)PNS(0.199)DDT(0.014)	3	1.4628	5771.6	6088.0
Ahnak	1	4.30E-94	141.43	LEGELKGPS(1)VDVDVPDVDLECPE/	4	1.2783	202159.2	205550.9
Ppp1r3d	0.918985	5.56E-05	62.528	S(0.024)LS(0.919)CLS(0.057)DMD(	3	-1.0514	2283.3	2573.8
Tns1	0.990535	3.81E-48	118.05	RAAS(0.991)DGQY(0.009)ENQSPE	3	-0.19751	32269.1	35908.6

22219.1	22598.7	23526.2	23662.0	0.1	0.0	224
109828.5	119642.6	116866.9	114090.0	0.1	0.1	163
6124.2	7250.5	7230.0	6589.8	0.1	0.4	267
13040.8	12926.7	13950.1	12474.0	0.1	0.3	645
11104.2	12759.5	12152.6	10031.0	0.1	0.5	46
12611.7	14462.3	15128.8	14140.0	0.1	0.3	568
81264.1	80729.3	86451.2	84467.0	0.1	0.1	22
31552.8	31996.7	34856.0	32416.0	0.1	0.2	1801
3487.7	3966.9	4157.8	3669.4	0.1	0.3	180
29258.5	31761.3	32710.1	28990.0	0.1	0.2	253
2541.7	2770.1	2976.8	2489.6	0.1	0.5	163
12218.9	12131.5	13162.5	13990.0	0.1	0.3	199
26566.0	28581.4	29060.7	26211.0	0.1	0.2	97
18026.5	16326.7	17866.7	18179.0	0.1	0.5	329
7027.6	7101.8	8044.5	6942.2	0.1	0.5	144
59668.9	59281.2	64024.6	62988.0	0.1	0.1	654
30294.4	29753.9	30642.3	31615.0	0.1	0.2	1945
37466.9	35034.8	35263.1	37753.0	0.1	0.4	158
37466.9	35034.8	35263.1	37753.0	0.1	0.4	159
3729.0	3852.9	3675.5	4748.9	0.1	0.6	532
19577.7	21673.6	20530.8	21187.0	0.1	0.0	204
1634864.2	1939229.0	1827701.6	1646100.0	0.1	0.4	116
14042.6	15401.6	17873.1	13295.0	0.1	0.6	712
12772.5	12396.5	14007.8	12819.0	0.1	0.2	177
12772.5	12396.5	14007.8	12819.0	0.1	0.2	178
7112.4	7038.4	8337.6	7290.3	0.1	0.4	459
6059.3	5817.2	5560.5	5999.1	0.1	0.4	105
153840.8	176576.5	174306.5	173590.0	0.1	0.2	346
17093.9	18227.4	18850.9	17896.0	0.1	0.1	2278
3895.1	3522.4	4288.7	3617.1	0.1	0.5	35
5611.2	5854.9	6669.2	5995.4	0.1	0.3	110
236850.9	212721.2	238959.5	231570.0	0.1	0.4	1995
2158.1	2543.1	2611.3	2281.9	0.1	0.4	25
33714.0	37550.4	34955.3	35503.0	0.1	0.2	1073



Erf	0.968431	8.87E-05	42.348	YLQAHT(0.003)QS(0.008)VY(0.01)	4	1.1949	9352.4	9054.7
Ppp3ca	0.892848	0.000732329	110.31	IT(0.107)S(0.893)FEEAK	3	-0.031156	68181.9	64286.9
Pdlim2	0.763047	6.28E-07	61.821	VLLHS(0.999)PGRPS(0.238)S(0.763)	3	0.32833	6791.6	5489.1
Rc3h1	0.970316	1.69E-29	82.765	LDHLS(0.001)S(0.005)S(0.023)APC	3	1.1215	17875.9	18070.6
Mtus2	0.910865	0.0237723	57.281	LHS(0.089)PGY(0.911)PK	3	-0.83165	3389.4	3822.1
RGD13115	0.999864	1.56E-05	57.802	S(1)LKS(0.997)LGPENS(0.002)ETEL	3	0.30092	8416.5	8256.1
Llgl1	0.937679	3.21E-07	56.424	LQES(0.938)PKLS(0.061)QANGT(0.061)	3	0.098644	25936.0	28858.7
Arfgap3	0.936154	5.23E-70	117.83	GGISHSVTS(0.001)DMQT(0.046)IE	4	0.035784	58230.2	59400.1
Pld1	0.894998	3.74E-15	57.347	VT(0.002)S(0.006)GQS(0.049)LGS(	3	-1.0181	1930.0	2094.4
H1f0	1	0.000398873	50.897	GDEPKRS(1)VAFK	4	1.3687	4784.3	5200.8
Dock5	0.999963	1.98E-66	127.53	NKPYESSQRNS(1)AEIAPPLPVR	4	-1.5204	23148.7	23726.3
Hecw1	0.865974	0.00200639	95.642	FS(0.008)S(0.866)VDS(0.126)AK	2	1.1809	32182.1	29559.7
Rapgef6	0.668545	0.000761175	52.579	GLIVY(0.006)CVT(0.669)S(0.325)P	3	-0.6064	4890.1	4759.2
Map3k4	0.969049	2.42E-07	54.09	MNT(0.006)PS(0.025)QS(0.969)PT	4	0.99292	14029.5	13583.1
Rapgef1	0.99226	1.18E-20	119.77	AVSGS(0.008)S(0.992)LPVGINR	2	0.86123	40448.5	41876.9
Ggnbp2	0.596839	2.58E-13	74.141	CVCDS(0.403)PAS(0.597)LHTADEK	3	-0.080942	6815.7	7739.8
Sh3bp2	0.999999	5.79E-05	97.749	S(1)PPDGQSF	2	0.22232	11219.3	10904.9
Prune2	0.697361	0.000239752	44.539	S(0.697)PIS(0.18)DLGQT(0.122)W	3	-0.27624	7529.0	6465.2
Mtcl1	0.571561	6.78E-06	64.275	QELGPGQET(0.002)GT(0.032)S(0.571)	3	-0.15135	10032.9	10070.3
Gab1	0.999577	3.65E-57	175.29	SSS(1)LEGFHNQLK	2	1.5918	65345.7	64232.0
Apba1	0.672162	1.14E-63	96.598	S(0.01)AS(0.157)T(0.672)ES(0.977)	3	-0.41459	14432.6	14672.3
Prkaa1	0.83189	2.47E-34	76.734	S(0.168)DS(0.832)DAEAQGK	2	0.11716	10347.2	9996.2
Med21	0.979191	0.00016304	79.492	SVTHS(0.014)QS(0.979)LPDS(0.001)	2	-3.1427	34515.0	38045.4
Tnks1bp1	1	7.79E-11	89.232	KEIPAS(1)PDR	2	1.183	73782.7	71519.9
Nf1	0.98225	4.86E-21	80.102	KS(0.001)MS(0.016)LDMGQPS(0.982)	3	-1.7212	72430.2	68736.0
Stard13	0.559227	4.36E-53	128.05	ALS(0.431)IES(0.559)LS(0.01)PTDS	3	-0.17645	17120.9	16765.2
Smpx	0.999978	7.60E-28	105.5	ESTPGTAEGAPAT(1)PEEK	3	0.34174	43964.6	46173.5
LOC68570	0.955955	5.61E-33	99.078	VNS(0.04)NS(0.956)LDLPS(0.003)S	4	0.73107	60860.0	55497.3
Slc43a1	0.812418	1.33E-57	105.35	T(0.187)PS(0.812)LEEGT(0.001)DC	4	-0.39742	8447.3	9041.3
Smpd3	0.875271	2.45E-26	79.69	DGDS(0.446)GS(0.538)LGS(0.017)	3	-0.70788	41561.3	45879.6
Nufip2	0.891333	1.05E-40	129.2	GADNDGS(0.077)GS(0.891)ES(0.077)	2	0.63521	22703.8	23997.2
Tmc8	0.632369	0.000317315	42.633	LLPELS(0.368)PEPES(0.632)PHFR	3	2.5602	3822.1	4125.4
Map1b	0.739556	6.28E-103	161.5	LGGDGS(0.254)PT(0.74)QVDVS(0.739)	3	1.3821	203876.6	222596.9
Jakmip1	0.999688	1.36E-11	100.58	RAS(1)ESLSASQR	2	0.25358	5016.4	4471.1



8432.5	9697.5	9479.9	9273.5	0.1	0.1	327
65658.6	70177.4	64607.0	75238.0	0.1	0.3	451
6356.3	6697.3	7291.4	5767.3	0.1	0.6	205
17859.4	19167.9	19154.4	18715.0	0.1	0.0	535
2713.3	3629.0	3401.6	3490.3	0.1	0.6	111
8725.6	8835.5	9649.0	8439.3	0.1	0.3	404
21999.8	25974.4	32175.8	23258.0	0.1	0.7	965
59716.8	65327.7	62464.4	60214.0	0.1	0.1	332
2453.5	2400.6	2109.7	2357.0	0.1	0.5	511
4209.1	4726.3	5696.1	4625.0	0.1	0.6	104
24710.3	24272.8	27219.4	24397.0	0.1	0.2	1832
31536.8	35261.4	32620.4	31005.0	0.1	0.3	709
4882.0	5157.6	5555.9	4691.6	0.1	0.3	1497
15071.1	15318.0	15494.3	14439.0	0.1	0.2	7
39354.5	43867.5	47951.1	37184.0	0.1	0.5	319
7473.1	7672.2	8245.4	7436.7	0.1	0.3	392
10296.3	12223.9	10693.9	11454.0	0.1	0.3	415
7655.5	7302.6	8253.4	7397.3	0.1	0.4	632
8385.7	9703.5	9943.5	10558.0	0.1	0.4	1460
70184.4	69494.4	76256.3	66046.0	0.1	0.3	419
15928.1	16297.0	15491.1	15958.0	0.1	0.2	84
10198.4	9660.1	10693.9	12028.0	0.1	0.4	508
33153.0	35020.5	38346.1	38716.0	0.1	0.3	140
74877.3	78187.3	80525.5	74735.0	0.1	0.1	173
71888.9	76691.4	76356.7	72846.0	0.1	0.1	2511
19385.0	19055.7	19050.7	18376.0	0.1	0.3	295
52032.2	47433.6	53121.2	50188.0	0.1	0.4	47
61852.5	65774.3	61568.8	61613.0	0.1	0.2	1087
8548.4	8727.1	9379.0	9501.4	0.1	0.2	309
47976.0	46769.2	48414.9	48401.0	0.1	0.2	299
22701.4	24523.6	23457.8	25608.0	0.1	0.1	214
4357.7	4197.6	4603.2	4247.0	0.1	0.3	664
201249.3	231244.5	236181.0	198180.0	0.1	0.4	1496;1370
4336.1	4295.2	5245.0	5117.7	0.1	0.5	747

Samd4a	0.970454	5.75E-32	90.556	GFGQS(0.017)NS(0.97)LPT(0.011),	3	0.13154	17335.6	19012.8
Ar	1	1.93E-26	113.01	QQHPEDGS(1)PQAHIR	3	-0.30606	2668.1	2397.6
Map1b	0.999998	5.49E-13	141.08	SDISPLT(1)PR	2	-0.48406	63382.6	58971.2
Pik3r6	0.708526	0.0240054	40.496	T(0.214)QDS(0.709)KS(0.078)PK	3	-2.2084	17866.3	16536.0
Epb41l3	0.893253	0.00487303	89.698	VVT(0.001)VS(0.106)S(0.893)K	2	0.57174	4892.0	5322.9
Akap12	0.649076	2.44E-11	51.264	QEQS(0.649)S(0.249)T(0.098)EIPL	4	0.44158	6928.3	6295.4
Gigyf2	0.964229	2.30E-31	91.355	ALSSGGSIT(0.002)S(0.034)PPLS(0.0	4	-2.3036	36778.7	32710.0
Tbcb	0.999596	1.44E-06	93.772	YEIS(1)PEAYERR	3	-0.016088	153128.1	137092.4
Syne1	0.992972	3.82E-05	105.17	QS(0.007)S(0.993)LQQQK	2	0.46664	32513.6	31548.4
Prx	1	2.36E-48	119.76	GQEGDAAS(1)KS(1)PVGEK	3	0.36263	1436224.6	1619814.1
Rictor	0.838697	0.0197384	70.028	ANS(0.161)FES(0.839)R	2	0.13926	5065.2	4249.3
Synm	0.978345	3.32E-65	147.87	QFT(0.022)QS(0.978)PGAEEENVSSL	3	-0.52632	111693.2	117797.7
Camk2b	0.817686	1.76E-16	60.23	RGS(0.145)GAPEAEGPLS(0.818)CP	3	-0.0093196	4739.7	4932.4
Ptprn2	0.721324	2.54E-05	41.911	INSVS(0.001)S(0.002)QLS(0.047)D	3	0.22597	4165.9	3788.7
Slk	0.997542	0.0303986	68.371	NT(0.002)RT(0.998)IQR	2	-0.22851	4359.4	5260.1
Apc	0.878512	1.54E-26	83.047	YSDEQLNS(0.115)GRQS(0.879)PS(	3	-0.013696	7951.6	8261.6
RGD15620	0.999675	2.92E-41	102.9	GLSTPNFPS(1)LELTLGQEQR	3	0.53286	12295.3	12366.6
Epb41l2	0.999925	2.85E-18	131.96	RET(1)KEVQTSELK	4	2.5095	64457.2	67349.5
Iws1	0.885554	0.000330787	44.998	IS(0.886)DS(0.829)ES(0.285)EELPK	3	0.62818	12626.9	14308.2
Iws1	0.829338	0.000330787	44.998	IS(0.886)DS(0.829)ES(0.285)EELPK	3	0.62818	12626.9	14308.2
Rere	0.742422	3.44E-06	49.708	S(0.008)S(0.008)GRNS(0.214)PS(0	3	0.11312	2488.2	2713.3
Sh3d19	0.929225	1.32E-13	107.79	S(0.029)S(0.042)S(0.929)QGPLSSIF	2	0.28128	26996.3	26750.5
Hsf1	1	7.62E-16	101.08	VKEEPPS(1)PPHS(1)PR	4	0.48787	67288.6	56872.8
Usp31	0.977509	3.45E-37	144.33	SSQVDS(0.003)GAPLS(0.978)PS(0.	3	0.13074	38406.7	37928.0
Ogn	0.99275	2.89E-58	107.01	YGT(0.007)DNS(0.993)EET(0.003)I	5	-2.771	302618.6	309110.6
Zdhhc23	1	0.00388454	77.14	VGLDS(1)PAK	2	-1.6299	15758.9	17238.0
Hnrnpm	0.989189	1.53E-57	101.75	GNFGGS(0.011)FAGS(0.989)FGGA	3	0.61977	38842.0	38950.3
LOC68570	0.987837	0.00577843	119.21	S(0.988)S(0.01)T(0.002)IVLR	2	-0.80215	7820.9	7791.5
Clip2	0.926078	9.56E-20	62.116	HS(0.014)S(0.037)PVGRPS(0.926)I	4	0.29229	11426.5	9387.4
Naa30	0.821395	6.37E-13	62.847	LLSSSLT(0.004)T(0.064)GCS(0.821	3	0.26095	3886.0	3850.8
Pat1	0.680879	1.58E-06	82.529	S(0.159)T(0.159)S(0.681)PIIGS(0.0	3	-0.46649	14865.6	14575.8
Pvrl1	0.838032	6.79E-70	119.52	AGPLGGS(0.157)S(0.838)Y(0.005)I	3	1.0118	13207.7	16022.6
Prkg2	0.914982	3.55E-06	47.499	T(0.058)WT(0.915)FCGT(0.019)PE	3	-1.0168	1506.4	1234.8
LOC10036	0.999666	1.50E-35	100.47	GPTSTSVDNIDGT(1)PVRDER	3	0.33033	30155.7	27913.2

19430.8	19479.2	19229.2	20438.0	0.1	0.2	384
2173.9	2662.8	2655.5	2358.7	0.1	0.5	75
66956.4	65256.2	72438.0	63052.0	0.1	0.4	1781;1655
16804.3	18522.2	18123.1	17657.0	0.1	0.1	570
5353.3	5665.9	5678.3	5165.2	0.1	0.2	912
7922.3	7008.0	7749.6	7666.9	0.1	0.5	235
36975.0	37362.3	37489.1	38051.0	0.1	0.2	30
147452.9	163498.0	161151.5	139500.0	0.1	0.4	110
33950.4	33943.7	35912.8	34086.0	0.1	0.1	452;6235
1545221.4	1952428.5	1476117.8	1451300.0	0.1	0.6	1323;1323
5254.8	5106.7	5318.3	5026.5	0.1	0.4	1320
121284.0	126825.4	119474.4	125730.0	0.1	0.1	652;652
5505.1	5921.0	4513.8	5662.5	0.1	0.6	433;418;409
4163.7	4290.6	4333.6	4229.7	0.1	0.1	693
3303.6	4617.7	4905.2	4185.1	0.1	0.7	107
7274.8	8038.5	8712.2	8164.1	0.1	0.3	939
12190.2	13757.2	13240.5	12094.0	0.1	0.2	907
70804.0	72068.3	74816.8	68042.0	0.1	0.2	189;189;189
12054.9	15722.8	12698.7	12940.0	0.1	0.5	183;183
12054.9	15722.8	12698.7	12940.0	0.1	0.5	185;185
2320.2	2748.7	2594.7	2636.0	0.1	0.3	347
28584.6	29076.3	28961.3	29304.0	0.1	0.0	51
63257.8	65932.7	73319.7	59576.0	0.1	0.5	307
37677.7	42513.4	40750.6	37691.0	0.1	0.2	1060
322629.1	272889.0	344210.2	374160.0	0.1	0.6	47
15900.4	17142.9	16623.8	18109.0	0.1	0.2	246
38429.3	42700.4	40767.7	39833.0	0.1	0.1	517
8134.1	8329.2	8826.0	8037.9	0.1	0.1	731
11329.9	10961.2	12165.4	10976.0	0.1	0.4	24
4173.3	4215.8	4236.5	4183.6	0.1	0.1	196
15960.0	15542.4	16741.4	15886.0	0.1	0.2	179
14860.3	15296.0	13067.4	18416.0	0.1	0.6	396
1560.9	1534.6	1409.8	1620.1	0.1	0.5	609
31786.0	33167.1	32556.2	29612.0	0.1	0.3	698

Shroom4	0.999997	0.00213128	111.86	RDS(1)LQASR	2	-0.0045396	6045.5	5872.4
Cacna1b	0.710746	9.94E-06	74.587	SSS(0.001)VS(0.07)S(0.711)VNS(0.	2	0.74002	9669.8	9803.1
Psen1	0.917379	8.75E-27	81.696	AAVQELS(0.065)GS(0.917)ILT(0.01	3	-0.67779	3887.9	4186.3
Ahnak	0.930928	6.00E-26	73.672	TPTVDVT(0.004)VPEAELS(0.931)V	3	-1.2887	37251.0	38620.2
Cyb561	0.778081	3.97E-12	105.2	TLTEGDS(0.778)PS(0.222)PQ	2	-0.13579	43027.1	48276.3
Ncoa5	0.998373	9.50E-11	66.261	SCT(0.001)VNIMFGT(0.998)PQEHF	3	-1.5476	7385.4	7798.8
Cep170b	0.885239	0.000102487	90.913	VVQT(0.013)S(0.885)PS(0.102)AR	2	0.52968	12004.3	12023.3
Ttbk2	0.667409	3.40E-71	175.39	VLGSSNS(0.333)DS(0.667)DLFSR	2	0.0017734	20417.5	17443.1
Eif3a	0.940463	1.43E-10	88.768	T(0.017)LS(0.94)FGS(0.042)DLNYA	3	-1.4157	2032.8	1720.3
Camk2b	0.538243	1.18E-17	55.314	RSGGTPEAEGLPPVGPPPCPS(0.448	6	1.3733	2704.0	2872.8
Sptbn4	1	0.0160401	51.359	QPPT(1)PLLGR	2	0.58565	16979.0	16762.0
Phldb1	0.845351	4.90E-05	47.499	KPAAT(0.02)S(0.134)PLS(0.845)PV	3	1.953	23765.3	25622.8
Mapt	0.999967	5.21E-21	78.674	STPTAEDVT(1)APLVEER	3	0.60966	6896.3	6773.0
Efcc1	0.958135	1.14E-15	94.007	S(0.042)RDT(0.958)DEEEQLFR	3	0.49506	11642.3	12770.3
Ttbk2	1	0.00351711	46.797	DGDAS(1)QDLGPR	2	1.2005	6335.5	6774.9
Zfp703	0.954992	3.35E-05	74.611	GGG(0.955)PHHS(0.045)DCK	4	0.012082	31548.8	31806.1
Tns1	0.988743	1.27E-14	83.53	TVGT(0.012)NT(0.989)PPS(0.999)I	2	0.1104	129954.4	127922.2
Crtc2	0.776861	2.14E-13	65.207	HGSGPNIILT(0.008)GDS(0.211)S(0	3	-0.73877	12427.7	10503.7
Afap1	0.898691	0.000413857	84.352	T(0.032)AS(0.899)NAEQY(0.069)K	2	-0.75203	34322.9	27560.0
Samd14	0.997084	4.44E-111	149.3	YRPLHNAASHEGLAAT(0.001)S(0.0	3	-3.2183	29565.3	33791.6
Ank3	0.995957	0.0115928	75.692	TIS(0.004)S(0.996)PIR	2	0.27316	29481.8	27666.4
Slc8a3	0.959335	3.70E-15	87.088	GIS(0.959)ALLS(0.041)PEVTDR	3	0.28807	6610.9	6969.1
Top1	1	0.0187007	51.787	LNy(1)LDPR	2	-0.38083	7478.6	7122.5
Gramd3	0.565807	8.39E-24	94.09	S(0.434)S(0.566)FDGSNLLSDK	3	-0.3242	15707.6	13538.1
Arhgap22	0.994045	0.0522201	45.598	AS(0.006)S(0.994)GDRLK	2	1.6493	14126.1	15557.5
Kidins220	0.87109	1.94E-09	71.98	VCKS(0.871)PEHS(0.129)AEPIR	4	0.82741	23446.9	25472.6
Vim	0.623068	3.45E-32	134.35	S(0.267)LYS(0.623)S(0.106)S(0.00	2	-0.23447	40020.4	30100.4
Sgpp1	0.999253	2.06E-06	41.256	LCGVEVPLGS(0.999)PAAGEDAET(C	3	-1.813	10961.8	10416.4
Itpr3	0.73366	1.28E-37	84.993	KQS(0.005)VFGAS(0.242)S(0.734)I	2	-1.4464	6524.1	7119.6
Prrc2a	0.999872	1.25E-28	106.86	FS(1)REEFPTLQAAGDQDK	4	-0.54116	30908.3	28564.8
Parp8	0.964372	1.47E-05	63.29	RS(0.009)PS(0.964)Y(0.027)PPPGC	3	-1.0285	35803.0	36541.5
Mier1	0.857209	8.20E-63	109.44	INS(0.013)S(0.055)GKES(0.857)PG	5	-0.97775	20515.3	19389.1
Arfgef1	0.999906	1.17E-48	119.76	QLDAISQKS(1)VDIHDSAQPR	4	0.81055	32739.1	33154.3
Fsd1l	0.957258	1.21E-18	76.301	SENGMT(0.03)GS(0.957)AS(0.011)	3	-0.57677	12030.6	12068.3

5673.8	6210.3	6550.8	5904.0	0.1	0.2	166
9209.8	10482.5	10041.8	9909.6	0.1	0.1	774
4072.9	4288.6	4081.5	4519.3	0.1	0.2	368
41475.3	41339.8	43566.5	39621.0	0.1	0.2	4701
44707.5	50280.3	47810.1	46245.0	0.1	0.2	246
7749.2	8637.4	8229.2	7470.5	0.1	0.3	273
12363.7	13670.3	12959.4	11989.0	0.1	0.2	847
15555.5	20110.6	18255.6	18320.0	0.1	0.5	1034
1610.3	1944.5	1873.2	1874.1	0.1	0.4	492
2470.4	2932.8	2909.8	2697.5	0.1	0.3	524;509;500
15149.9	17518.0	16867.5	17500.0	0.1	0.2	2122
25629.1	30674.6	23451.4	25487.0	0.1	0.5	223;280
6831.4	6663.4	7833.6	7259.7	0.1	0.3	65;65
13503.9	12800.2	13285.4	14156.0	0.1	0.3	354
7235.5	6789.8	7980.1	6824.6	0.1	0.4	682
34958.6	34777.4	34936.1	34637.0	0.1	0.1	227
133740.3	140640.8	142706.7	132320.0	0.1	0.1	1341
11596.1	11315.3	13230.9	12102.0	0.1	0.4	599
35872.0	32419.1	37590.6	33750.0	0.1	0.5	549
37502.0	32589.6	38867.6	35599.0	0.1	0.5	140
28661.2	32202.4	30414.7	28465.0	0.1	0.2	1578
6875.7	6908.1	7155.2	7649.5	0.1	0.2	629
8362.5	8342.9	8354.4	7678.4	0.1	0.3	725
14614.3	15969.2	15557.3	15031.0	0.1	0.3	72
15059.4	16092.4	16800.2	14603.0	0.1	0.3	322
24395.2	27434.1	25641.0	24750.0	0.1	0.2	1499
35627.2	36286.6	40555.0	35413.0	0.1	0.5	54
10843.4	10950.1	11315.9	11939.0	0.1	0.1	35
7577.1	6810.8	7646.9	8069.7	0.1	0.4	940
30589.3	32356.4	32585.1	30667.0	0.1	0.1	166
34478.4	39257.6	38513.9	35630.0	0.1	0.2	291
23094.2	21942.0	22338.9	22600.0	0.1	0.3	425
29925.0	32705.1	38768.3	30253.0	0.1	0.5	1566
11778.1	12031.4	13742.8	12315.0	0.1	0.2	465;487

Pard3	0.941842	0.00136147	91.313	QNTT(0.058)GS(0.942)PK	3	1.5576	45795.3	40945.6
Bclaf1	0.96146	6.02E-41	127.59	SSSSSAS(0.001)PS(0.032)S(0.961)F	3	0.41045	54486.4	66151.6
RGD13065	0.999998	7.21E-05	87.713	DSTEEKS(1)PR	3	-0.37492	14505.4	16262.9
Cap1	0.535027	0.0420457	51.346	PQT(0.535)S(0.41)PS(0.055)PK	2	1.0833	17047.0	15310.7
Plekhf2	0.951464	8.89E-06	118.77	S(0.006)DS(0.042)YS(0.951)QSLK	3	-0.2375	79601.8	76789.5
Map7	0.982314	0.00106105	101.38	TLS(0.982)PS(0.017)NLK	2	0.46894	14235.8	12311.8
Numa1	0.715037	3.49E-13	62.617	TQPDGT(0.184)S(0.715)VPGEPAS(	3	0.6426	15200.7	16089.5
Zdhhc5	0.519369	8.31E-05	48.616	GDS(0.402)LKEPT(0.519)S(0.057)l	3	-1.1454	14363.4	10994.4
Dclk2	0.8584	0.00193208	104.43	S(0.029)KS(0.113)PAS(0.858)VK	3	1.4716	78642.9	72250.5
Arhgef2	0.998518	7.55E-49	121.25	S(0.999)LPAGDALY(0.001)LSFNPP(	3	1.066	13923.3	12843.8
Dtnb	0.994935	2.42E-33	112.14	AQAT(0.004)GS(0.995)PHT(0.001)	3	0.72378	6985.2	7051.4
Tnik	0.999812	1.15E-09	126.48	TTSIS(1)PALAR	2	0.21184	65255.1	66498.3
Nedd4l	0.998934	4.78E-53	92.788	S(0.03)LS(0.668)S(0.203)PT(0.099)	4	1.1133	61807.0	60805.3
Smg9	0.957605	3.98E-05	50.158	DGS(0.958)EDPS(0.04)T(0.003)NV	3	-0.40193	13090.8	12629.9
Sec16a	1	0.00332171	45.28	DAQDHR5(1)LER	2	0.76678	9035.7	8886.3
Dclk1	0.949132	2.27E-30	128.72	ISQHGGS(0.949)S(0.046)T(0.004)S	2	-0.21564	127676.3	123216.4
Psd3	0.998886	7.06E-21	102.07	S(0.001)PDRPLS(0.999)VEVPTEEK	3	0.69022	26749.4	26199.8
Ckmt1b	0.959861	0.00662547	45.28	IRS(0.96)GY(0.04)FDER	3	0.67178	4493.7	4807.0
Phldb2	0.99748	5.06E-07	64.275	GS(0.997)KNDELLGDLT(0.003)R	3	0.63806	12042.5	10670.9
Phf2	0.82811	0.00191524	42.633	RPS(0.938)AS(0.828)S(0.233)PNN	3	-1.7001	3773.2	3953.5
Tjp1	0.999547	0.00300072	103.55	SAS(1)LENKK	2	-0.55781	55552.6	54920.3
Cobll1	0.729705	1.51E-05	46.461	T(0.73)VS(0.205)S(0.061)PVGT(0.0	4	0.042762	3642.1	3860.9
Wiz	0.609092	3.92E-07	62.088	KAPLTLAGS(0.39)PT(0.609)PK	4	-0.68649	2884.9	2818.7
Agap1	0.855033	0.00216184	83.278	ADS(0.855)IGS(0.145)GR	2	0.32384	23405.1	23633.0
lqsec1	0.643542	0.000140852	44.998	S(0.069)LS(0.282)ES(0.644)Y(0.00	3	0.86959	2361.0	2513.4
Sec16a	0.605278	1.50E-15	85.982	RS(0.605)S(0.339)LS(0.048)S(0.00	4	-1.1444	6221.1	6638.3
Zbtb20	0.898292	6.54E-39	89.707	IVSQNVGDVFPGIQDS(0.898)GQDT	3	0.86916	10686.4	10790.2
Ice1	0.998029	1.23E-14	117.03	KS(0.998)PQT(0.002)TQPGASR	3	0.69273	15273.5	13103.7
Synpo	1	1.90E-37	140.22	VAS(1)EEEEVPLVVYLK	3	0.020379	69411.6	64341.7
Clip2	0.960869	3.14E-150	152.44	QPAAEGSGSDAHSVESLT(0.018)AC	4	-0.34132	14512.5	13393.3
Uba1	0.996062	7.08E-64	122.53	IHVSDQELQS(0.001)ANAS(0.996)V	4	-1.1724	15224.6	15334.9
Eif3b	0.991508	1.88E-17	59.37	AKPAAQS(0.992)EEET(0.007)AASP	4	1.1905	12622.1	12080.3
Trim46	0.664901	5.71E-40	83.585	EVLGQQGYIGHGGDPS(0.006)S(0.0	4	0.40731	17903.3	19479.0
Tnks1bp1	0.98402	6.36E-26	78.378	RAS(0.984)VS(0.008)T(0.008)NQN	3	-0.0081233	5105.5	4899.7

44342.3	48149.6	47980.0	43040.0	0.1	0.3	187;187
41294.3	61052.2	59602.5	51269.0	0.1	0.7	759
15056.2	15272.9	16316.1	17063.0	0.1	0.3	200
16601.0	17337.6	16177.1	18465.0	0.1	0.3	306
73760.5	82508.0	79501.8	82346.0	0.1	0.1	228
11977.2	14153.2	14249.3	12500.0	0.1	0.4	336
15927.0	15398.3	18084.7	16649.0	0.1	0.3	1730
13999.0	13601.0	14856.3	13329.0	0.1	0.5	385
78161.8	79925.3	83029.4	80242.0	0.1	0.1	319
13478.4	14922.1	13225.5	14585.0	0.1	0.2	1078
7777.0	6682.8	8588.3	7891.0	0.1	0.5	494
64698.3	72744.7	70172.5	65679.0	0.1	0.1	596
58052.8	63275.2	65249.3	63310.0	0.1	0.0	452
12494.6	14365.5	14333.7	11881.0	0.1	0.4	53
7382.3	9097.9	10743.1	7030.2	0.1	0.7	1060
122646.8	136681.0	130951.6	129050.0	0.1	0.1	45
28550.5	29384.3	29276.6	27889.0	0.1	0.1	447
4216.7	5374.7	4487.6	4492.8	0.1	0.5	152
11969.8	12276.7	12336.4	12220.0	0.1	0.2	579
4563.8	4155.8	4298.9	4598.0	0.1	0.4	942
62752.1	57040.6	60694.7	66233.0	0.1	0.4	1423
3710.7	3982.8	3999.5	3926.9	0.1	0.0	841
3292.0	2877.1	3546.1	3130.5	0.1	0.5	309
23237.9	25608.2	25069.3	23959.0	0.1	0.0	828
2620.7	2451.5	2806.3	2702.5	0.1	0.3	109;108
5870.6	6442.9	6971.5	6478.1	0.1	0.2	1371
11245.8	11427.5	11599.1	11727.0	0.1	0.0	134
13413.4	16319.0	14284.6	13782.0	0.1	0.4	955
69745.8	72182.7	77287.5	66670.0	0.1	0.3	19
14248.1	15243.2	14626.5	14903.0	0.1	0.1	171
14586.7	16052.8	16443.2	15455.0	0.1	0.1	820
12076.2	12130.4	13038.5	13895.0	0.1	0.2	68
17293.0	21417.3	17844.2	18811.0	0.1	0.4	56
4836.8	5141.2	5684.9	4938.2	0.1	0.3	883



Sympk	0.999839	3.94E-16	54.926	RLS(1)VQGGQAISVVGSQSTMSPLEE	4	-2.189	7898.6	5458.8
LOC10036	0.51094	1.33E-63	112.35	TPPTAALSAPPPLIS(0.244)T(0.244)	3	0.80625	6951.9	7099.2
Crtc2	0.561496	2.56E-33	83.879	QFS(0.391)PT(0.561)MS(0.046)PT	4	2.4426	39351.3	35077.1
Aff4	0.994045	1.43E-17	76.341	NSYSNS(0.005)QAPS(0.994)PGLGS	2	0.16419	8958.7	8052.9
Prph	0.955759	2.65E-15	81.606	TTVPEVEPPQDS(0.956)HS(0.044)R	3	-0.57817	17264.0	21354.7
Clcn6	0.879682	5.13E-12	53.197	YTPY(0.003)PNLY(0.053)PDQS(0.8	3	-0.7238	7712.3	7381.9
Eif4g3	0.777559	9.71E-15	122.45	T(0.008)S(0.057)S(0.778)PT(0.107	2	-0.011104	140080.2	145110.9
Trio	0.5	0.000502158	49.3	EAFPPS(0.5)S(0.5)PLQK	3	0.40092	4487.1	4210.3
Clk3	0.886886	4.57E-11	91.781	YRS(0.887)PEPDPY(0.111)LS(0.001	3	0.33192	21579.1	24169.4
Arhgap31	0.948452	3.15E-11	91.313	QS(0.047)HS(0.948)LDS(0.005)K	3	-1.178	35373.7	7105.3
Trmt6	0.979834	8.86E-18	71.545	SCASALDS(0.02)PKT(0.98)EPPAAK	4	2.1602	22371.1	22418.7
Eif4b	0.997183	9.62E-37	156.67	ARPAT(0.003)DS(0.997)FDDYPPR	2	-0.020624	277142.9	269884.9
Zfp423	0.897499	0.0045738	46.352	T(0.1)HS(0.897)S(0.548)S(0.454)KI	2	-1.316	7227.6	6442.1
Zfp423	0.548344	0.0045738	46.352	T(0.1)HS(0.897)S(0.548)S(0.454)KI	2	-1.316	7227.6	6442.1
Ralgapb	0.681597	7.07E-23	65.624	GS(0.078)QMS(0.682)T(0.217)DT(	3	0.82014	2890.3	2187.9
Fkbp15	0.802823	2.28E-33	92.886	HS(0.001)QDS(0.002)QHCS(0.195)	4	-0.045938	59139.0	62429.8
Ski	0.997242	0.000392813	43.717	VVNS(0.997)PPCT(0.002)T(0.001)\	3	0.32227	22089.6	22897.0
Hectd1	1	0.000133859	45.82	QFS(1)ALVPAFDPRPGR	3	-0.70422	4191.1	4536.7
Map4	0.830834	1.02E-26	66.43	EVTVPLEAAGPLVS(0.001)DMT(0.0	4	0.063048	14115.4	14190.8
Etl4	0.53134	0.000347897	45.207	S(0.019)IS(0.445)PS(0.531)PS(0.0	3	3.1991	1506.1	1339.1
Supt20	0.623631	2.76E-15	86.367	S(0.624)PT(0.376)PPPPSSKPSLSR	3	-0.06334	9328.7	9758.4
Bud13	1	8.10E-05	84.734	HGT(1)PEPS(1)PPRR	4	1.2201	42063.4	43231.6
Bud13	1	8.10E-05	84.734	HGT(1)PEPS(1)PPRR	4	1.2201	42063.4	43231.6
Fgd5	0.862998	0.0305916	63.227	S(0.137)FS(0.863)VEGR	2	0.50375	9595.3	9767.5
Bicc1	0.572061	8.01E-06	52.19	LLS(0.422)DT(0.572)ELS(0.004)AT(	3	1.833	15687.3	14206.1
Neur11	0.621	5.21E-13	61.417	GGPSLPCS(0.027)PAS(0.06)T(0.05	3	1.0141	14618.7	21477.6
Tmem151i	0.499976	5.26E-06	43.035	LFGAS(0.5)S(0.5)PPPGAVPNGPPLS	3	1.2809	11920.4	12744.0
Tmem151i	0.499976	5.26E-06	43.035	LFGAS(0.5)S(0.5)PPPGAVPNGPPLS	3	1.2809	11920.4	12744.0
Mfap2	0.999702	2.31E-10	61.345	CGVIANS(1)GLCQSVAASCAR	3	-0.3889	15651.5	18269.1
Ccdc93	0.772788	2.62E-26	79.942	LT(0.045)AS(0.773)S(0.183)VGQIV	3	1.3657	5269.5	5696.8
Itpkb	0.99892	4.84E-05	68.676	ARS(0.999)PS(0.001)PCPFR	3	0.40623	7448.4	7215.1
Cnp	1	0.000126747	51.942	GGG(1)QGEEVGELPR	2	1.9874	5411.1	6659.5
Sorbs1	0.876406	3.61E-37	139.46	YSFS(0.001)EDT(0.118)KS(0.876)P	3	0.18359	100536.9	94867.8
Sorbs1	0.876406	3.61E-37	139.46	YSFS(0.001)EDT(0.118)KS(0.876)P	3	0.18359	100536.9	94867.8

7374.9	7701.1	7718.3	6601.3	0.1	0.6	612
7447.1	6901.3	7889.9	8043.5	0.1	0.3	785
39178.8	38699.9	41388.6	40582.0	0.1	0.2	435
9531.8	9737.1	9197.6	9259.1	0.1	0.3	1010
17582.6	23010.1	18280.2	18406.0	0.1	0.6	467
8540.0	8092.5	8394.1	8617.9	0.1	0.3	726
141608.0	151057.5	152484.8	149820.0	0.1	0.0	305
4781.4	4989.6	4831.2	4496.9	0.1	0.3	2442
19863.0	26918.2	24090.4	18689.0	0.1	0.6	9
36450.1	8230.0	66824.4	8790.6	0.1	0.9	944
24596.4	25199.0	24545.7	23964.0	0.1	0.2	480
282524.0	290444.4	306326.8	284460.0	0.1	0.1	207
6180.4	6970.8	7555.7	6560.3	0.1	0.4	225
6180.4	6970.8	7555.7	6560.3	0.1	0.4	226
2791.7	2649.0	2691.3	3020.1	0.1	0.5	436
60913.5	62012.4	63804.5	68040.0	0.1	0.1	1157
20032.3	22242.3	25676.3	21154.0	0.1	0.4	488
3908.1	4431.6	5195.3	3796.9	0.1	0.6	1654
15021.0	15767.9	16458.2	13803.0	0.1	0.3	465;465
1798.0	1460.1	1803.6	1669.2	0.1	0.6	213
9756.1	9907.2	10463.2	10272.0	0.1	0.1	488
44932.2	45651.6	46402.7	46298.0	0.1	0.0	148
44932.2	45651.6	46402.7	46298.0	0.1	0.0	144
9950.7	10626.5	9420.5	11096.0	0.1	0.3	607
14625.0	15183.8	17333.4	14780.0	0.1	0.4	602
19932.2	26292.3	15701.6	17535.0	0.1	0.8	449
11162.8	13038.9	12937.0	12090.0	0.1	0.2	64
11162.8	13038.9	12937.0	12090.0	0.1	0.2	65
16526.4	16805.2	20559.6	16235.0	0.1	0.5	168
5746.7	5441.4	6251.2	6065.3	0.1	0.3	273
7434.5	7525.4	8207.4	7747.0	0.1	0.1	179
6199.5	5475.7	6983.7	6953.2	0.1	0.6	358
93121.0	100767.3	103291.9	102510.0	0.1	0.1	684;472;735
93121.0	100767.3	103291.9	102510.0	0.1	0.1	426

Cep170	0.997574	9.36E-22	73.676	KPLS(0.001)T(0.002)PGFHNS(0.99)	4	-0.48462	46358.3	46686.9
Scap	0.608957	1.79E-15	52.056	VYQEEGLAAVHMS(0.279)ALRPPS(	6	0.98765	9921.3	7880.2
Sphkap	0.999999	8.59E-15	77.746	GPALLVQES(1)VDYQR	2	2.0418	37064.9	34903.8
Syn1	0.999486	1.09E-11	100.52	VS(0.001)GAS(0.999)PGGQQR	2	-0.26237	20885.0	23059.3
Ncor1	0.625493	4.33E-12	59.046	S(0.001)HIPS(0.027)EPY(0.347)EPI	4	0.044332	19754.4	19793.8
Hsp90b1	0.966594	0.000928252	74.611	S(0.006)GT(0.028)S(0.967)EFLNK	2	0.070167	8084.5	9985.9
Bach1	0.829899	2.16E-05	50.874	EDS(0.001)S(0.002)S(0.018)LAS(0.	3	-0.4464	5188.9	5781.0
Ccdc88a	0.872803	7.90E-31	69.726	QLVNNKDT(0.012)T(0.031)S(0.084	4	-0.53284	7297.6	6259.2
Arfgap2	0.814484	1.15E-11	101.97	VSNQS(0.185)FT(0.814)EIER	2	0.097723	28800.8	26538.8
Gigyf1	1	9.55E-12	101.45	S(1)IEEGDGAFGR	2	0.81738	31360.3	28111.7
Eepd1	0.586857	0.000448075	44.391	GNS(0.007)AQHS(0.819)PS(0.587)	2	0.99987	6556.2	7346.5
Eva1b	0.638195	2.18E-05	40.044	TGQPDLLGS(0.004)GT(0.009)LGPC	3	-0.20053	3730.7	5052.6
Map4	0.559765	1.22E-07	54.047	NT(0.037)T(0.394)PT(0.56)GAT(0.1	3	0.14129	5079.3	4954.5
Ciapi1	0.821675	1.22E-14	80.585	KS(0.822)S(0.316)S(0.812)VKPVVL	4	-0.16732	129727.7	121549.1
Dab2ip	0.995712	0.000517139	123.01	RQMS(0.996)LT(0.004)EK	3	0.10414	58962.5	63150.5
Dnajb2	0.671501	0.0120212	62.536	VS(0.065)PS(0.672)S(0.264)EEK	2	-0.16069	26966.5	29485.1
Rbm33	0.969954	4.66E-14	63.376	VLHVKPMDEET(0.97)PHS(0.03)F	4	-0.64919	18176.4	19511.9
Nfic	0.803189	1.79E-08	54.582	T(0.002)EMDKS(0.033)PFNS(0.803	3	0.78252	13299.6	14367.4
Vps13d	0.608253	1.16E-36	106.75	S(0.392)LPS(0.608)HMEEAPNVFQI	4	0.067393	1979.3	2372.1
Cdc5l	0.74267	6.48E-13	63.138	GGLNT(0.998)PLHES(0.013)DFS(0.	3	-0.14502	8228.4	8873.4
Cdc5l	0.997735	6.48E-13	63.138	GGLNT(0.998)PLHES(0.013)DFS(0.	3	-0.14502	8228.4	8873.4
Tsc1	0.52395	1.96E-05	49.537	QT(0.001)S(0.002)LET(0.14)S(0.03	4	0.40639	1683.9	1180.9
Pygo2	0.794168	1.33E-14	83.37	GGGT(0.206)PDANS(0.794)LAPPG	2	0.097474	14479.1	15986.4
Mlip	0.961613	1.31E-05	82.85	S(0.962)PS(0.037)AS(0.002)YIPVR	2	-2.826	12926.3	12679.2
Irf2bp2	0.5233	1.38E-33	83.395	IPIT(0.001)PT(0.006)S(0.027)S(0.1	4	-0.046693	5724.3	5591.9
Map1b	0.899725	0.000229244	40.137	ELEAERS(0.9)LMS(0.619)S(0.475)F	3	-0.38575	16713.0	17737.1
Tesk2	0.78472	0.0248782	51.286	S(0.134)QS(0.785)DIFS(0.081)R	2	-0.1906	3358.5	2867.1
Snx5	0.999433	2.47E-07	54.898	NNVS(0.001)LLQS(0.999)CIDLFK	3	2.0491	4777.0	5236.5
Fam129a	0.922686	0.000906453	62.237	RPEs(0.923)S(0.077)AVPGSLR	2	-0.17123	8059.9	8949.1
A1i3	0.991451	0.000582359	43.761	GMY(0.009)ES(0.991)LPVAVK	3	-0.063109	3078.2	3358.9
Sh2b1	0.998163	3.65E-09	58.812	AWVS(0.001)DIQECLS(0.998)PGPC	3	-1.7176	7272.5	8003.3
Zscan12	0.923599	0.00743329	42.396	MAS(0.033)T(0.924)NDT(0.044)K	2	2.1311	14661.6	12660.6
Add2	0.806498	0.0419805	48.442	FRT(0.194)PS(0.806)FLK	2	0.50392	10509.1	10349.2
Ank2	0.994823	1.44E-09	87.083	SPGAPS(0.005)IRT(0.995)PEK	3	0.035691	84992.7	89913.0

43062.6	49048.3	50895.2	44677.0	0.1	0.3	630
9298.2	10113.5	8845.0	9836.7	0.1	0.5	934
39568.5	37751.7	42145.2	38620.0	0.1	0.3	1394
20012.1	23338.9	23395.8	21226.0	0.1	0.3	579
18509.9	20906.9	21061.9	19726.0	0.1	0.1	2126
8447.9	9198.4	9658.5	9323.5	0.1	0.4	172
6175.6	6449.8	5686.3	6084.9	0.1	0.4	385
6891.9	7524.9	7379.8	6826.8	0.1	0.3	1539
28297.1	30688.9	29873.9	28321.0	0.1	0.1	241
29400.1	30935.3	32689.8	30823.0	0.1	0.2	137
6242.1	6540.0	7894.8	6974.6	0.1	0.5	113
4345.5	4915.4	4772.3	4265.4	0.1	0.6	156
5238.8	5952.0	4875.7	5403.9	0.1	0.4	1926;850
127427.0	143060.8	122466.6	136960.0	0.1	0.3	181
55898.0	63225.7	68549.2	57419.0	0.1	0.4	867
26625.6	29130.2	29887.8	29283.0	0.1	0.1	295
17772.1	20145.8	19417.3	19387.0	0.1	0.1	991
13834.0	15344.4	14101.8	14666.0	0.1	0.1	337
2049.9	2239.4	2201.2	2363.5	0.1	0.4	1728
7958.6	8947.0	9078.0	8613.1	0.1	0.2	393
7958.6	8947.0	9078.0	8613.1	0.1	0.2	385
1927.1	1910.8	1571.7	1611.2	0.1	0.7	584
16011.2	16393.8	15787.1	17223.0	0.1	0.2	269
13513.5	13993.7	14292.0	13298.0	0.1	0.1	239
6372.6	5860.5	5955.0	6988.7	0.1	0.4	383;233
18677.0	19700.3	18092.1	18687.0	0.1	0.2	821;695
2538.3	3004.5	3271.5	3040.9	0.1	0.5	369
4572.0	5203.0	4525.9	5777.1	0.1	0.5	215
8304.2	8906.6	8416.3	9588.0	0.1	0.3	702
3403.1	3409.2	3643.5	3408.6	0.1	0.2	705
8097.8	7670.7	8436.3	8742.3	0.1	0.3	410
14158.7	13584.5	14311.3	16205.0	0.1	0.4	5
9572.1	9759.3	11865.2	10729.0	0.1	0.4	712;660;755
86770.5	93330.5	93326.8	91572.0	0.1	0.0	1931

Fam83h	0.99999	1.64E-22	77.401	RGEDEVSFAPQENGQPES(1)PR	3	1.0646	8864.7	10038.5
Ptpn21	0.672386	1.29E-06	55.437	T(0.002)FS(0.008)AGS(0.672)QS(0	2	1.6134	13621.6	12463.1
Amfr	0.752394	4.11E-07	54.951	FLNKS(0.247)S(0.752)EDDGAS(0.0	3	0.066667	11562.0	12832.8
Hepacam	1	1.29E-150	178.7	S(1)PGLPIR	2	0.1742	104253.3	107306.8
Usp31	0.960201	2.60E-07	80.245	SQESMS(0.001)S(0.038)PS(0.96)P	3	-0.75025	14559.0	14738.1
Prkaa1	0.934701	3.34E-47	116.35	SIDDEIT(0.012)EAKS(0.686)GT(0.3	3	0.90185	77006.5	78257.2
Csdc2	1	0.00904817	66.056	AS(1)AGPVFK	2	0.78972	13755.2	13386.7
Dact3	0.931706	9.18E-06	73.877	GPAPS(0.932)PS(0.068)APPR	2	-0.30654	14173.8	14530.8
Mdh2	0.956165	3.79E-39	122.01	AGAGS(0.006)AT(0.956)LS(0.038)I	2	-0.19354	57862.8	56746.7
Mapk8ip3	0.57272	0.000205179	42.289	ERPT(0.427)S(0.573)LNVFPLADGM	3	0.26587	6829.9	6118.3
Cdk12	0.891236	5.89E-05	48.216	T(0.047)QLS(0.891)VT(0.061)AAIP	3	0.32173	3519.1	4231.8
Mark4	0.817957	3.06E-26	79.143	VPPAS(0.818)PS(0.079)S(0.102)HS	3	-1.7831	37327.3	42241.1
Sptbn1	0.558271	2.55E-65	147.87	AQT(0.069)LPT(0.558)S(0.35)VVT(	3	-0.22914	26912.8	26804.2
Med1	0.852208	1.40E-08	61.477	CQT(0.852)PPGVAT(0.148)PPIPK	3	0.64937	7024.9	7683.9
Pelp1	0.499923	1.24E-59	98.267	AGSGEDPVLAPS(0.5)GT(0.5)PPPSI	4	0.03887	27214.6	27893.4
Ncor2	0.997632	1.26E-17	74.296	RS(0.998)PEPS(0.002)K	2	-0.018261	81791.6	79351.9
Mug1	0.982378	3.04E-20	110.57	DT(0.982)EELT(0.013)YS(0.005)VP	2	-1.2059	32817.8	34595.6
Ablim1	0.539075	3.93E-102	159.5	LRPT(0.113)RT(0.539)S(0.346)S(0.	4	0.036474	19297.6	20453.1
Kcnh2	0.999994	6.73E-53	128.21	RLS(1)LPGQLGALTSQPLHR	4	-0.41011	6516.7	6714.4
Ranbp3	0.999999	2.13E-81	174.2	VLS(1)PPKLNEANS DTSR	3	-0.74809	70885.7	64839.7
Rasgrp1	0.569136	1.12E-38	82.364	S(0.569)KS(0.427)PAVS(0.002)T(0.	4	0.9039	7769.1	7309.0
Rims1	0.957653	5.33E-33	110.4	RAS(0.959)QS(0.082)S(0.958)LES(	3	-0.52625	42916.2	44375.7
Osbp18	0.93982	1.88E-30	84.249	DVLGPSTVVANS(0.94)EEPQHLT(0.	3	0.54468	19325.0	16466.9
Map7d1	1	1.11E-20	109.35	RKPGAGGS(1)PALVR	2	0.45351	212237.3	209258.4
Sntb1	0.920049	4.08E-13	65.184	LGS GSADPLS(0.016)S(0.064)QPFSI	3	1.2251	8079.3	8716.5
Rabep1	0.987431	9.12E-17	55.084	AMT(0.987)PEQEET(0.001)AS(0.0	4	0.60724	3044.7	2815.1
Slc8a1	0.815294	8.93E-59	119.76	GMIIEHEGDRPAS(0.815)KT(0.185)	5	-0.36473	24764.8	23319.3
Tbc1d10b	0.748313	1.09E-18	70.072	QQPPLGPS(0.04)S(0.169)S(0.748)I	3	-0.18281	14693.8	11360.7
Syn1	0.722535	5.48E-39	83.567	S(0.213)QS(0.723)LT(0.064)NAFNI	5	-0.20464	18628.5	18342.6
Plcl1	0.949898	6.01E-12	103.83	T(0.019)VS(0.95)FS(0.027)S(0.004	3	-0.75034	71430.8	68420.1
Wasf2	0.546267	5.86E-22	71.696	T(0.105)S(0.122)MVS(0.546)PS(0.	4	1.3202	14120.1	14266.5
Slc52a3	0.972658	2.96E-22	85.937	DTEDT(0.025)GS(0.973)VGAPVS(0	3	0.62352	19172.3	21711.2
Ankrd50	0.999865	4.43E-06	125.42	SLSNNS(1)LK	2	0.20241	32015.1	28845.6
Mff	0.783694	0.000105948	62.813	NDS(0.004)IVT(0.213)PS(0.784)PP	3	3.42	3428.6	3788.4

10038.8	10588.4	9531.4	10653.0	0.1	0.3	1030
11505.6	12977.3	13900.9	13090.0	0.1	0.3	673
12596.8	12752.9	13676.5	12903.0	0.1	0.2	563
107901.5	115429.8	119228.6	105020.0	0.1	0.2	342
14219.4	15963.7	15417.3	14892.0	0.1	0.1	846
74030.9	82307.8	81018.2	80494.0	0.1	0.0	490
11473.6	13695.6	13538.6	13828.0	0.1	0.3	65
15435.2	15682.1	16232.7	15022.0	0.1	0.1	481
58643.7	65400.3	62583.0	56249.0	0.1	0.3	248
6067.3	7070.3	6947.7	6202.6	0.1	0.3	216
3848.9	3925.2	4163.2	4246.6	0.1	0.3	610;609;610
42028.9	41408.0	40884.2	47018.0	0.1	0.4	543
26100.8	30363.3	27247.2	27274.0	0.1	0.2	2317
7180.8	7502.8	7850.4	7925.9	0.1	0.1	1035
26743.8	28615.5	29914.5	28519.0	0.1	0.0	755
85015.9	85891.5	89612.2	86293.0	0.1	0.1	2162
41027.0	39055.2	33810.8	42464.0	0.1	0.6	651
18425.8	20452.7	22306.9	19114.0	0.1	0.3	378;279
6361.7	6768.6	7184.6	6885.0	0.1	0.1	1141
67444.0	70641.6	77547.2	67898.0	0.1	0.3	257
7520.3	7776.7	8119.7	8139.0	0.1	0.1	595
45081.2	45708.8	48271.7	46810.0	0.1	0.0	1602
17909.4	19514.4	19296.5	18306.0	0.1	0.3	19
194627.2	242288.1	215876.8	197150.0	0.1	0.4	369
8557.9	9413.1	9020.4	8533.0	0.1	0.2	237
2646.6	3247.7	2876.1	2923.9	0.1	0.3	480
21613.3	24751.3	24498.7	24884.0	0.1	0.2	282
13712.6	14352.3	15250.6	12696.0	0.1	0.5	641
17156.7	19673.9	18466.2	19434.0	0.1	0.1	664
75240.4	71989.1	79183.3	77636.0	0.1	0.2	96
13160.0	14287.4	14832.8	15077.0	0.1	0.1	296
19260.4	26950.1	18083.6	18948.0	0.1	0.7	269
33330.7	31901.0	35293.0	33009.0	0.1	0.3	1183
3081.6	3451.0	3704.7	3800.3	0.1	0.4	151



Nipbl	0.984993	6.24E-34	90.946	NAAS(0.004)FPLRS(0.985)PQPVC5	4	-0.21743	10208.3	10795.6
Slc24a2	0.85246	6.18E-22	123.18	GG5(0.139)S(0.852)AS(0.009)LHN:	3	-0.26801	13235.2	13483.3
RGD13075	0.99357	1.37E-07	57.366	NCS(0.994)EEKCPAAS(0.006)ILK	3	0.47704	19835.5	20419.1
Cdr2l	1	0.0592725	56.258	RGMS(1)ILR	2	0.40218	4979.2	5057.5
Ndr91	0.600494	4.91E-33	108.71	LNIT(0.382)PS(0.6)S(0.018)GATGN	3	-0.93394	13100.4	11503.3
Ifitm3	0.566933	2.85E-10	60.218	IKEEYEVSELGAPHGS(0.567)AS(0.4	3	0.02149	11479.9	10592.5
Sorbs1	0.999643	1.24E-55	136.64	ETPS(0.012)S(0.1)S(0.669)PVS(0.2	4	-0.23017	134474.6	131037.4
Ppp1r12b	0.699905	3.41E-05	50.87	KT(0.293)GS(0.7)HNMLS(0.007)EV	3	-0.022482	12140.3	12375.4
Sipa1l3	0.615479	5.46E-25	69.016	AVS(0.001)LFS(0.06)LNDPALS(0.6:	5	1.811	10550.8	11624.0
Plekha4	0.994898	0.00125477	110.38	QQS(0.005)S(0.995)PLLR	2	-0.44477	44352.2	43754.8
Bcl9l	0.521163	6.47E-32	90.308	SPTLSQVHS(0.015)PLVT(0.349)S(0	3	1.8273	6534.9	8224.7
Tbc1d9b	0.992998	0.000207105	56.569	ISDFLQKT(0.993)PS(0.007)K	4	-0.64379	18969.6	19058.9
Gramd1b	0.921991	2.96E-14	69.331	S(0.006)RS(0.07)PT(0.002)PQNQD	3	-0.37535	8215.4	9054.2
Ddhd1	1	0.00474754	47.869	S(1)RPGGCAAR	3	-1.4393	1934.4	1944.0
Nf1	0.999606	1.51E-08	109.15	KS(1)FDHLISDTK	4	-1.5224	149729.0	138507.4
Csnk1g3	0.776255	1.16E-26	80.702	QLTPVGVAVQQDPALS(0.776)S(0.2	3	-0.3226	17147.2	16961.6
Dnttip1	0.999409	1.68E-10	63.691	QAEEES(0.001)HRGS(0.999)PIPK	4	-0.6742	14109.4	12294.2
Rbmx	0.957741	0.06337	43.297	S(0.958)APS(0.042)GPVR	2	0.23345	8318.1	7941.6
Ahnak	1	1.14E-36	106.35	GPS(1)VDVEVPDVLCEPEAK	4	0.6818	164017.3	170076.6
Fam63a	0.99635	5.03E-05	103.43	APS(0.004)S(0.996)PGR	2	1.3701	13584.6	17126.1
Plec	0.974166	1.26E-21	81.316	RRS(0.974)PHVQT(0.026)MQGPLC	4	-1.0038	18863.4	18395.3
Med24	0.842005	8.55E-33	98.543	LLS(0.842)S(0.158)NEDDASILSSPTI	3	-2.4963	17657.6	16697.2
Map2	0.986218	3.99E-07	85.28	KEPS(0.003)T(0.01)VS(0.986)RDEV	3	0.094512	36426.8	36950.7
Ank3	0.998983	7.84E-15	79.346	ALSTTT(0.001)AMPFS(0.999)PLR	3	0.82699	1664.0	1816.9
LOC10035	1	0.0180988	52.268	IEGVY(1)AR	2	1.363	8426.5	8910.1
Map3k10	0.991365	1.53E-21	82.01	GS(0.007)DGAS(0.991)PPAS(0.001	3	0.064145	31415.2	31309.2
Chgb	1	0.000151255	61.56	RPLS(1)EERK	3	2.2976	27028.5	29856.9
LOC10091	0.999997	5.76E-05	88.282	QYS(1)QHGLDQK	3	-0.47463	43863.2	41278.0
Gpsm1	0.999974	2.46E-26	80.236	VDLAS(1)PDQEASGLPDR	3	-0.36759	29520.0	33934.2
Stx1a	0.565385	2.33E-06	47.931	T(0.053)AKDS(0.565)DDDDVT(0.	3	-0.26119	8838.0	10225.5
Caskin1	0.999939	1.91E-59	144.91	RRAS(1)DLASVDTGSAGSVK	4	0.19771	120424.8	110887.1
Ctdp1	1	6.60E-06	92.151	DNS(1)PAVFPDR	2	0.052231	13349.7	13746.5
Rdh14	0.976817	0.00720982	45.28	RFS(0.977)GS(0.021)S(0.002)GQR	3	-0.35115	9099.8	11247.8
Prkag2	0.936767	1.10E-16	106.42	LPLAS(0.937)PT(0.063)HHAPLR	3	-1.0311	5165.9	4618.8



10652.8	11429.7	11074.4	11174.0	0.1	0.0	274
13979.8	16975.7	13453.2	12870.0	0.1	0.5	335
19264.7	20969.6	21808.9	20545.0	0.1	0.1	150
4804.8	5409.1	5210.3	5170.9	0.1	0.0	301
11534.3	12573.6	13204.2	12671.0	0.1	0.2	377
11820.7	11642.0	12868.6	11552.0	0.1	0.3	38
136795.8	137759.0	144822.6	145480.0	0.1	0.0	123;123;123;93
11052.0	12623.1	12649.5	12572.0	0.1	0.1	278
11966.6	15195.9	11314.8	9816.6	0.1	0.7	1671
46419.5	47417.1	48732.3	46994.0	0.1	0.0	578;506;578
7595.6	9706.9	7136.7	6943.7	0.1	0.7	893
18180.9	19847.7	21738.4	18226.0	0.1	0.3	397
8517.0	9376.7	9452.5	8610.2	0.1	0.2	34
1528.7	2058.8	1978.7	1716.2	0.1	0.5	133
144876.5	154929.3	158843.2	147120.0	0.1	0.1	2524
18452.4	16942.7	20490.2	18500.0	0.1	0.4	345
12858.7	14855.0	15208.9	11718.0	0.1	0.5	120
8129.2	8266.9	9056.1	8631.5	0.1	0.1	165
181106.2	172627.7	193467.3	182180.0	0.1	0.2	1928
13246.3	16344.3	15772.1	14665.0	0.1	0.5	441
18716.4	20513.1	19655.6	19403.0	0.1	0.0	114
16233.7	18001.9	19266.6	16572.0	0.1	0.3	860
36844.1	40181.5	39260.9	37865.0	0.1	0.0	1542;1456
1830.0	2002.3	1788.8	1861.4	0.1	0.2	1775
8575.7	8692.3	9207.1	9679.2	0.1	0.2	34
30938.5	34197.7	34150.7	31338.0	0.1	0.1	502
27056.8	34749.9	27107.2	27484.0	0.1	0.5	299
33625.7	46684.5	39857.2	39864.0	0.1	0.5	283
32860.2	31433.5	34526.8	36549.0	0.1	0.4	653
9587.1	11527.6	9468.0	9498.3	0.1	0.5	14
117185.1	128024.3	130224.9	112670.0	0.1	0.3	917
13014.2	14329.2	14895.8	13467.0	0.1	0.1	739
9807.6	10498.8	10755.9	10842.0	0.1	0.4	26
4812.3	5178.8	5276.9	5081.1	0.1	0.1	218

Adam22	0.923819	2.34E-15	57.144	KPGDGDS(0.924)FY(0.012)S(0.046	4	-0.82902	20846.8	18902.0
Plekhg5	0.958549	2.57E-13	74.147	S(0.038)LS(0.959)ELCLIT(0.004)M/	3	-0.21378	4920.2	4437.6
Cacna1b	1	1.58E-13	109	GLS(1)EHNALLQK	2	-0.26936	31418.8	33843.1
Phc3	0.701777	0.000264507	72.374	KGGG(0.702)PGLES(0.298)R	2	-0.24497	12415.8	10370.8
Keap1	0.846466	0.00386725	74.649	AEVT(0.846)PS(0.154)QDGNR	2	-0.17562	6018.1	6327.3
Mafk	0.997645	2.52E-08	53.359	EAGENAPVLS(0.998)DDELVS(0.00:	3	0.064433	7595.2	7800.5
Slc39a6	0.614468	6.20E-24	95.414	KQLS(0.614)KYES(0.385)QLS(0.00:	4	-1.1674	26193.6	24117.9
Dnajc6	0.839348	9.71E-12	92.676	AT(0.039)T(0.839)S(0.124)AS(0.02	3	4.135	9175.3	9629.5
Tril	0.989701	5.42E-15	79.92	FMDSSGGGT(0.01)GGG(0.99)LRR	3	1.8335	7423.5	7386.1
Prr5	1	0.00373936	78.556	S(1)GDILAK	2	1.3015	42303.1	41437.1
Dpysl5	0.894382	5.01E-46	100.85	DLHES(0.001)S(0.002)FS(0.047)LSI	4	0.29722	48982.2	48445.2
Crybg3	0.984642	7.82E-15	79.393	TSDCS(0.015)AS(0.985)PPTSASR	3	-0.74871	7517.9	6951.0
Dusp15	0.690235	5.36E-53	94.671	QGPGTSAPS(0.001)AT(0.042)T(0.€	3	-0.38601	12820.1	12643.0
Lima1	0.999834	0.000829252	44.312	FGS(1)RPEAVTQCR	3	-0.010075	19792.5	20707.6
Mark3	0.562195	5.11E-19	73.294	VRPS(0.562)S(0.403)DLS(0.026)NS	4	0.15551	9849.9	9040.0
Pdpk1	0.991421	1.50E-30	84.68	ANS(0.991)FVGT(0.008)AQYVSPEL	3	0.52712	33414.1	39438.5
Phf8	0.958163	4.10E-15	86.497	VAS(0.958)IET(0.042)GLAAAAAK	3	0.68478	4077.1	4163.3
Clstn3	0.999989	0.000670851	64.374	IIES(1)PPHRY	3	2.0981	3667.5	3528.7
Ttc1	0.988051	8.09E-19	71.853	VT(0.009)DS(0.988)QET(0.003)ES/	3	0.13266	15138.7	15076.0
Cgnl1	0.998865	1.88E-05	68.044	GKHS(0.999)PIS(0.001)TLAK	3	1.4663	5546.8	6004.5
Sf3b2	0.929255	2.69E-22	76.118	KIEEAMDGS(0.07)ET(0.929)PQLFT	5	0.69449	28642.2	30065.3
LOC69015	0.992696	5.18E-10	69.979	NSATCHS(0.007)EDS(0.993)DLEID	2	-0.13943	8079.6	8192.7
Evi5l	0.904158	1.09E-18	70.072	GPPTFEDPLAFDGLS(0.904)LT(0.09	3	-1.4225	9193.7	8767.7
Dab2ip	0.99574	0.00182194	62.338	S(0.996)LPGS(0.004)LSEK	2	1.1341	9998.4	10570.0
Phka1	0.879201	2.96E-58	103.52	S(0.879)VRPT(0.11)DS(0.01)NVSP/	4	-0.1883	11022.7	13346.2
RGD13054	0.999956	2.92E-19	72.99	LQFTASVSHPPPEARPLS(1)R	4	-0.17855	7139.0	7532.6
Prickle2	0.994583	8.86E-08	58.123	MHQS(0.995)FDFDGGIAS(0.004)Si	3	2.1903	5236.1	5653.4
Baz2a	0.781409	7.50E-10	60.307	LSGDSEEIPQS(0.781)PT(0.218)GLC	4	-0.83814	6504.6	6751.3
Clint1	0.977954	8.98E-70	115.54	ASPDQNAS(0.002)T(0.01)HT(0.97	5	-1.0529	42123.1	46340.3
Brsk1	0.604356	7.59E-43	90.388	AS(0.332)PT(0.604)GT(0.058)PGT(	3	0.61262	9650.4	12639.7
Brsk1	0.893296	7.59E-43	90.388	AS(0.332)PT(0.604)GT(0.058)PGT(	3	0.61262	9650.4	12639.7
Fam21c	0.499911	6.43E-32	75.343	T(0.5)S(0.5)LLFEDDTDSGSSLFSLPP'	4	-1.569	10466.0	10461.4
Fam21c	0.499911	6.43E-32	75.343	T(0.5)S(0.5)LLFEDDTDSGSSLFSLPP'	4	-1.569	10466.0	10461.4
Slc5a3	0.952048	2.60E-33	96.317	S(0.046)EDS(0.952)IKGLQPEDVNLI	3	0.2078	29907.6	27402.0

18557.8	20635.2	22046.1	19380.0	0.1	0.3	784
4285.2	4601.9	5183.5	4736.5	0.1	0.3	930
34341.1	34284.6	37249.7	34487.0	0.1	0.2	2248;2247
11809.0	12879.4	12348.2	11598.0	0.1	0.4	117
5931.8	6097.5	6409.3	6948.6	0.1	0.2	43
8065.0	8952.1	7972.6	8048.8	0.1	0.2	25
27908.5	25631.3	30180.6	27454.0	0.1	0.4	457
9645.1	10089.7	10693.9	9501.6	0.1	0.2	620;590
6961.3	7956.6	7566.2	7652.7	0.1	0.1	798
41666.9	44229.4	46077.8	43195.0	0.1	0.0	241
48938.4	53271.0	53722.9	48821.0	0.1	0.1	536
6930.4	7540.6	7986.2	7254.3	0.1	0.2	647
11992.1	14092.7	13030.0	12752.0	0.1	0.2	188
20905.3	22121.3	21807.8	21443.0	0.1	0.0	132
9430.2	9927.8	10151.7	10070.0	0.1	0.1	390
35229.0	44072.1	34130.3	36863.0	0.1	0.5	244
3919.3	4150.6	4379.0	4416.0	0.1	0.1	766;806
3779.1	4116.4	3597.8	3970.5	0.1	0.2	952
14292.8	15932.9	16237.0	15215.0	0.1	0.1	23
6817.0	6352.9	6873.5	6329.6	0.1	0.4	438
29276.6	30971.6	32787.1	29916.0	0.1	0.1	762
8788.2	9454.8	8230.9	8995.9	0.1	0.3	295
8097.8	9396.8	9623.4	8727.3	0.1	0.2	680
11298.0	11609.0	11780.7	10542.0	0.1	0.3	25
11532.2	12636.3	12868.6	12724.0	0.1	0.3	914
6596.7	7569.2	7790.4	7287.9	0.1	0.2	491
5187.3	5434.9	6047.2	5637.1	0.1	0.2	645
6223.6	6736.5	6764.5	7242.2	0.1	0.1	1388
41076.0	43650.8	50258.3	44037.0	0.1	0.4	323
10848.7	11148.1	11930.3	12213.0	0.1	0.5	439
10848.7	11148.1	11930.3	12213.0	0.1	0.5	445
10840.2	10700.0	11975.2	11156.0	0.1	0.2	681;647
10840.2	10700.0	11975.2	11156.0	0.1	0.2	680;646
28654.8	30228.0	33853.6	27468.0	0.1	0.4	594

Fcho2	0.993767	3.20E-13	142.29	NS(0.006)S(0.994)NEELTK	2	-0.57986	74004.6	60715.3
Gtf2i	0.521445	1.95E-52	124.2	S(0.479)S(0.521)EPPPPPVPEPTN,	3	0.25644	24096.9	25818.1
Rtn4	0.798071	9.07E-06	71.513	KAQIIT(0.049)EKT(0.798)S(0.152)F	3	-0.20965	141356.4	121231.0
Itpkb	0.78011	2.14E-09	72.207	S(0.78)QDGDHPS(0.22)CQEK	3	-0.48206	5277.0	6277.5
Ptpn13	0.99984	3.89E-12	58.693	SSSQVPFKDND(1)LHK	4	-0.92492	19741.2	19937.5
Arhgef11	0.995062	6.46E-09	47.499	SSSQS(0.001)T(0.003)FHIPLS(0.99	4	-0.31091	1190.8	1715.6
Map1s	0.998483	1.54E-23	94.188	KPPPPAS(0.998)PGS(0.001)SDSSA	4	0.39745	13879.2	13374.7
Tanc2	0.939827	4.50E-42	121.03	DSAYIS(0.008)S(0.051)S(0.94)PLG!	3	0.29444	14737.9	14141.4
LOC10091	0.874447	0.00654656	51.726	EQY(0.126)VPPRS(0.874)PK	3	-0.24227	38258.8	38034.4
Gigyf1	1	0.00598431	62.466	KKT(1)EEEEK	3	0.67476	20289.9	17615.4
Tpd52	0.660119	0.00308394	41.088	NS(0.66)PT(0.615)FKS(0.725)FEEK	3	0.528	38976.8	35553.2
Dctn6	0.970839	0.000487879	110.88	GSS(0.029)T(0.971)PVKN	2	-0.42192	74337.3	77672.5
Mbp	1	2.53E-33	133.93	T(1)QDENPVVHFFK	3	1.0489	33118.3	29685.8
Tns1	0.8451	5.74E-30	128.74	SHPGGGPT(0.002)VS(0.153)S(0.84	2	0.15148	29861.1	28548.3
Gab1	0.857455	2.63E-21	104.21	VT(0.12)S(0.857)VS(0.023)GESGLY	3	1.211	12829.7	12940.3
Sipa1	0.848979	8.97E-05	75.764	T(0.151)LS(0.849)LRNS(0.553)IS(0	3	0.36783	20615.5	18143.0
Sipa1	0.553301	8.97E-05	75.764	T(0.151)LS(0.849)LRNS(0.553)IS(0	3	0.36783	20615.5	18143.0
Fxr2	0.833025	4.59E-78	124.69	TGGPAY(0.001)GPS(0.158)S(0.833	3	0.56508	21619.7	21159.5
Tiam1	0.699355	0.0505251	55.112	AVS(0.301)APS(0.699)K	2	-1.6903	19257.0	19968.2
Anxa2	0.813389	0.0109135	42.976	S(0.01)LY(0.176)Y(0.813)FIQQDTK	3	-0.39663	4856.4	5865.8
Ctnnd2	0.531155	1.32E-14	79.492	GGG(0.469)APEGAAY(0.531)AAPR	2	-0.73191	11550.5	9206.6
Ppp1r12a	0.743459	2.37E-13	113.37	RLGS(0.251)T(0.743)S(0.005)DIEEI	3	0.23304	12454.0	10410.1
LOC65295	1	3.78E-46	103.88	QGS(1)LHVGDEILEINGTDVTGR	3	1.6042	23996.7	22457.1
Hnrnpl	0.928454	0.0226816	46.796	FS(0.072)T(0.928)PEQAAK	2	0.15036	6943.1	7220.6
Ctnn	0.919435	1.45E-32	70.946	AS(0.003)AGHAVS(0.919)IT(0.078	4	0.70538	12580.4	12481.8
LOC68003	0.796584	0.000125445	87.155	S(0.797)S(0.118)VAAAET(0.085)EF	2	0.1499	19055.4	17535.3
Tjap1	0.931896	5.81E-15	78.78	KDS(0.932)LT(0.068)QAQEQGTLLS	3	0.78737	29017.9	34038.4
Rere	0.993094	2.23E-14	77.644	VASDT(0.003)EDT(0.993)DRAT(0.0	3	1.0526	24684.9	29477.4
Gpx1	0.985839	1.75E-15	85.937	LS(0.986)AVAQS(0.01)T(0.005)VY/	2	1.3839	11604.4	12337.0
Ndr4	0.646346	6.78E-09	75.911	LSGGAVPS(0.003)AS(0.35)MT(0.6	2	-0.57231	12302.5	13077.4
Clint1	1	6.82E-05	84.605	S(1)QNADMVQK	3	0.57309	6633.0	7152.7
Dst	0.689008	6.49E-15	69.27	RFPASGLY(0.006)PS(0.208)GS(0.6	3	-0.25732	15317.6	14067.9
RGD13091	0.999397	1.52E-06	83.226	GRDYCS(0.001)EEEDIT(0.999)	2	0.51151	12977.5	18068.4
Foxk1	0.969352	1.75E-05	52.318	S(0.006)APAS(0.954)PT(0.071)HPC	3	-0.11645	14395.6	15220.8

76524.3	73145.1	78378.6	73445.0	0.1	0.4	449
26580.9	28028.1	26004.4	27434.0	0.1	0.2	242
132601.2	142851.8	151939.8	126080.0	0.1	0.4	487
7278.3	6429.7	6162.2	7465.5	0.1	0.6	525
20726.5	21427.2	21543.9	21362.0	0.1	0.0	1067
1505.9	1475.3	1573.5	1650.5	0.1	0.6	598
13517.8	14680.1	13894.5	14849.0	0.1	0.1	574
13456.0	14382.0	16146.1	14561.0	0.1	0.2	1534
37240.1	40476.3	41312.7	39130.0	0.1	0.0	719
20172.8	21198.4	20613.1	20045.0	0.1	0.2	877
35273.7	40479.6	37105.5	39364.0	0.1	0.2	193
71632.3	85408.6	75735.9	77052.0	0.1	0.2	186
31401.6	31714.0	33144.0	35480.0	0.1	0.2	104;78;104;78
28203.4	31123.4	31425.6	29704.0	0.1	0.1	648
13420.9	14333.6	13684.0	13727.0	0.1	0.0	251
20464.5	21987.1	21832.4	19263.0	0.1	0.3	906
20464.5	21987.1	21832.4	19263.0	0.1	0.3	910
18854.8	23213.5	21509.7	20928.0	0.1	0.3	449
17363.2	18644.3	21286.3	20349.0	0.1	0.3	1439
4724.3	4896.4	5917.8	5639.9	0.1	0.5	317
10761.4	11252.6	11398.2	10924.0	0.1	0.4	275
13812.7	12460.3	12803.4	13806.0	0.1	0.5	508
24156.7	24190.3	25210.4	25819.0	0.1	0.1	111
7183.9	7707.1	7436.1	7598.7	0.1	0.0	484
14503.6	14983.7	14330.5	12836.0	0.1	0.4	11;11
16939.5	20514.2	18551.7	17961.0	0.1	0.3	720
30453.0	31589.7	35637.1	32391.0	0.1	0.4	490
23406.2	27711.3	29380.2	25546.0	0.1	0.5	393
12151.8	12767.2	12778.8	12906.0	0.1	0.0	7
13849.9	14185.1	13941.5	13668.0	0.1	0.1	308
7612.7	7124.5	8319.1	7354.1	0.1	0.4	472
15459.7	16776.6	15736.8	15265.0	0.1	0.2	7056;7228
16593.5	14980.4	19407.6	16369.0	0.1	0.6	121
14929.5	15305.9	16478.5	15678.0	0.1	0.1	414

Mrpl44	1	0.000103985	67.252	LLRS(1)PPPPVR	3	-0.16381	2514.6	2428.8
Prkce	0.584503	6.41E-05	42.618	VLADLGVT(0.002)PDKIT(0.414)NSI	3	0.58596	11573.0	12274.5
Mtmr3	0.950024	2.70E-08	96.707	LESQYLT(0.001)S(0.049)S(0.95)LR	2	-1.6889	41445.6	35888.9
Gys1	0.574315	1.28E-10	63.998	YPRPASVPPS(0.008)PS(0.574)LS(0	3	0.90993	13138.6	12744.0
Map1a	0.838054	1.23E-07	86.497	QEAT(0.838)PRS(0.159)PCS(0.003	3	-1.131	78416.3	81239.7
RGD13100	0.996344	8.83E-13	97.904	S(0.004)QS(0.996)WLSSIGPTHR	3	0.58792	7939.4	8043.5
Prx	0.993114	1.03E-14	131.32	LNIQS(0.007)LS(0.993)PVKK	3	1.0041	180058.8	198903.6
Ppip5k1	0.913526	1.67E-08	60.549	ALQT(0.086)S(0.914)PQPVEGTGLF	3	0.69492	5014.7	5082.7
Mcrs1	0.525829	2.19E-05	44.341	APS(0.526)T(0.469)PVPPS(0.005)F	3	0.051906	9966.5	9917.4
Pitpnm1	0.99842	5.67E-40	83.826	RGS(0.998)MNNEMLS(0.002)PEVC	4	0.80147	8724.7	8970.6
Mob1a	0.999981	3.41E-13	103.83	HAEAT(1)LGSGNLR	3	0.13557	26954.6	23692.3
Rbl2	0.997102	0.00601691	93.992	DS(0.003)S(0.997)PVMR	2	0.86256	8262.9	7937.2
Ebag9	0.997965	4.03E-11	52.898	IEGGT(0.001)GNAAAQQNS(0.998)	3	2.3281	10961.0	11345.4
LOC10368	0.997637	1.73E-05	49.188	SHKDDS(0.002)EIDFS(0.998)ALCPH	4	-0.091085	6011.1	5420.6
Usp39	1	0.0617807	55.503	VDS(1)EDRR	2	-1.1592	7287.0	8417.2
RGD13118	1	0.00100624	78.816	EAS(1)PRPCR	3	0.13644	11109.1	11536.3
Camsap2	0.775234	4.35E-33	112.91	S(0.096)S(0.096)S(0.775)MS(0.03	3	0.15094	19790.1	17528.7
Hspa12a	0.705565	2.98E-16	104.09	ETAPTS(0.001)AYS(0.706)S(0.294)	2	0.46034	66276.0	66430.3
Wwc3	0.731089	0.00102376	80.623	S(0.002)QT(0.731)FS(0.267)PGAR	2	0.36429	10205.8	9621.6
Pcnx13	0.5	0.000380385	42.639	KGLGGPDGEPAS(0.5)GS(0.5)PK	3	1.2221	8549.0	10020.3
Pcnx13	0.5	0.000380385	42.639	KGLGGPDGEPAS(0.5)GS(0.5)PK	3	1.2221	8549.0	10020.3
Clasp2	0.843666	3.09E-38	94.548	VLNT(0.156)GS(0.844)DVEEAVAD/	4	-0.002112	94893.2	87326.5
LOC10255	0.877856	8.05E-26	112.08	LKGS(0.001)HS(0.121)S(0.878)FDE	3	0.2024	45821.6	45833.5
Csnk2b	0.972334	2.76E-30	84.327	IHPMAYQLQLQAAS(0.028)NFKS(0	6	2.4891	57786.5	54094.4
LOC69138	0.94297	3.37E-09	97.273	SAGS(0.021)PS(0.036)S(0.943)DQI	2	-1.2463	4410.3	3971.9
LOC68570	0.899861	0.000896897	81.017	RS(0.056)S(0.9)T(0.044)IVLR	2	0.27254	20949.4	20483.8
Map4	0.849996	0.00102019	119.22	SKVGS(0.15)T(0.85)JENMK	2	-0.30307	112565.1	104625.9
F11r	0.536255	1.97E-07	56.081	VIY(0.001)S(0.536)QPS(0.927)ARS	3	0.38915	21124.7	19306.8
Disp2	1	0.00458704	74.841	APEAS(1)PER	2	0.1485	5135.9	5422.5
Arhgap23	0.812882	2.20E-29	82.177	AS(0.176)S(0.813)AAS(0.011)LPSG	3	0.22995	10986.5	12524.6
Ahnak	0.999659	8.50E-36	102.15	GPSFNMAS(1)PESDFGVSLK	3	-0.25274	49255.3	50250.8
Shroom2	0.94547	2.61E-12	65.16	VENALNNLDDS(0.945)PS(0.055)PC	3	2.089	11907.7	12616.7
Dph1	0.989274	1.42E-18	76.176	GHS(0.989)PVPACEGCS(0.011)CAI	3	-0.19683	23962.1	23139.4
LOC10369	0.986109	5.30E-34	114.75	VNGLPS(0.986)PT(0.014)HSAHCSF	3	-1.1557	123311.1	121636.9

2191.9	2582.5	2451.1	2569.0	0.1	0.2	53
11503.5	12702.3	13744.9	11219.0	0.1	0.4	316
41791.5	41075.8	42528.8	43331.0	0.1	0.3	1064
11884.6	14000.3	13478.8	12765.0	0.1	0.2	647
68962.2	75510.0	94968.2	73142.0	0.1	0.6	1395
8423.0	8572.6	8506.8	8928.6	0.1	0.1	1171
211054.6	230991.5	196288.5	201480.0	0.1	0.4	133;133
4714.1	6118.7	5094.8	4570.7	0.1	0.5	704
10125.9	10651.0	10510.9	10819.0	0.1	0.0	102
8651.1	9113.4	9793.2	9170.2	0.1	0.1	593
21999.8	27209.7	25896.4	24313.0	0.1	0.4	35
7820.2	8266.2	7543.1	9789.2	0.1	0.5	960
10830.6	11295.5	11938.9	12080.0	0.1	0.1	86
6274.4	6213.5	6640.1	6016.9	0.1	0.3	145
6753.4	8076.8	7057.1	8800.8	0.1	0.5	96
10256.9	11733.3	11230.4	12103.0	0.1	0.2	158
17823.2	20233.8	19426.9	19109.0	0.1	0.2	391
64589.7	71401.7	71819.3	67059.0	0.1	0.1	23
9431.2	10255.9	10584.6	10344.0	0.1	0.1	943
10583.3	10529.8	10236.0	10306.0	0.1	0.4	1943
10583.3	10529.8	10236.0	10306.0	0.1	0.4	1945
93532.0	97283.7	101902.7	94728.0	0.1	0.1	815
43063.7	47682.2	51185.9	44726.0	0.1	0.2	118
54516.1	61189.7	63720.0	52452.0	0.1	0.4	209
4775.0	4859.3	4279.3	4885.7	0.1	0.4	190
20210.1	21500.9	21782.2	22423.0	0.1	0.0	732
132239.2	121501.5	132501.2	118460.0	0.1	0.5	1992;916
20627.4	21566.9	22491.7	21027.0	0.1	0.1	282
4917.0	5758.9	5620.0	5117.2	0.1	0.2	6
10392.9	12277.8	12043.6	11820.0	0.1	0.3	1242
54805.6	51827.9	60186.0	52484.0	0.1	0.3	5240
13530.5	12424.0	14559.2	13584.0	0.1	0.3	1353
22306.4	24862.4	25642.1	23488.0	0.1	0.1	418
122614.8	132017.2	133687.4	126140.0	0.1	0.0	32



Wdr7	0.602823	5.56E-09	49.095	S(0.198)S(0.198)S(0.603)QIPEGFG	3	0.70174	10069.7	9169.2
Cd2ap	0.925463	1.15E-08	92.269	T(0.004)RT(0.052)S(0.925)S(0.017	3	-0.86247	19133.0	16165.2
Myh11	1	1.40E-17	99.092	GQLS(1)DDEKFLFVDK	3	-1.6982	256080.2	246114.8
Fam193a	0.899021	6.89E-07	97.163	LILAS(0.101)S(0.899)PQPK	2	1.4249	10717.1	10342.3
Rnf216	0.998972	1.07E-05	92.039	QTADNT(0.001)VS(0.999)PR	2	0.71157	5403.2	5205.6
Foxk2	0.979234	8.33E-43	97.49	FAQS(0.002)APGS(0.979)PLS(0.01	3	0.80245	5171.8	4618.5
Otud5	0.783269	4.24E-13	47.319	QAPGVGAVGGAS(0.108)PEREEVG	4	1.2383	4132.3	4633.4
Abi1	0.991266	1.03E-21	86.73	TNPPT(0.008)QKPPS(0.991)PPVSG	3	-0.46429	137671.0	130434.1
Akap13	0.662967	7.87E-31	69.756	GS(0.229)S(0.663)FS(0.108)LASSP	4	-0.0071712	7379.1	6025.7
Wipf1	0.99895	0.0733074	47.603	S(0.001)GMDS(0.999)PR	2	-0.17826	5210.7	5163.4
Larp4b	1	0.000715685	71.085	RPS(1)PPAAGK	3	0.16597	155644.7	176032.9
Prkar1b	0.717122	2.22E-84	136.16	QKS(0.717)NS(0.163)QCDS(0.12)H	5	0.052929	34480.4	33035.8
Lrp12	0.957471	5.12E-20	103.01	EVSSVEAPS(0.043)VS(0.957)PAR	2	0.38775	12500.5	11439.7
Atp2b1	0.799326	4.36E-06	55.261	S(0.1)S(0.1)IHNfmt(0.799)HPEFR	3	0.80858	24090.9	28152.3
Cobll1	0.511781	1.24E-40	124.08	T(0.394)VS(0.512)S(0.094)PVGTEM	3	-0.74809	17057.7	14923.5
Farp2	0.754918	6.36E-07	64.798	T(0.092)S(0.092)LHT(0.755)LT(0.0	2	-1.3771	23585.2	23580.4
Mprp	0.966951	0.00013763	45.237	MDIDRS(0.967)PGLLGT(0.033)PDL	3	0.30458	9760.4	9356.7
Ttf2	0.593165	2.78E-06	56.746	MEKDPS(0.406)S(0.593)DLVVT(0.(	3	0.23622	19886.7	20830.4
LOC68570	0.654273	1.01E-17	133.48	S(0.004)GYMS(0.341)DS(0.654)DL	2	-0.19984	52844.0	46887.6
Dixdc1	0.95102	3.10E-10	94.547	T(0.004)DET(0.044)GS(0.951)PLSR	2	0.21378	7112.5	7315.1
R3hdm1	1	0.00384186	56.258	AHS(1)PPQWK	3	-0.06161	9979.1	9827.6
Mpz	0.797942	2.45E-24	131.82	KDEQS(0.798)S(0.202)ELRPAVK	3	-0.11893	133270.0	121527.2
Hdgfrp3	0.988062	0.0115479	57.785	KKS(0.988)Y(0.007)T(0.002)S(0.00	3	-0.19359	38783.6	38680.5
Fosl2	0.999352	0.000158748	51.591	RS(0.999)PPTSLQSLR	3	1.3057	9252.8	11255.4
Llgl1	0.972253	0.000943458	72.243	S(0.009)PS(0.019)S(0.972)AHSK	3	-0.029507	13161.2	12705.6
Dact3	0.999646	3.35E-79	128.03	S(1)LGDASPSVPESVGAR	3	0.90697	38345.8	41643.3
LOC10036	0.852358	1.23E-18	71.263	SSS(0.002)DT(0.028)S(0.118)T(0.8	3	-0.51686	11914.4	13053.3
Nf1	1	0.000116538	78.903	TCAPGAS(1)LRK	3	0.62882	23353.9	20350.0
Lipe	0.499997	2.74E-11	57.902	RS(0.5)VS(0.5)EAALAQPEGLLGTDS	3	1.2847	9702.2	9723.8
Rtn4	0.856317	1.57E-86	155.17	DLAEFSELEY(0.069)S(0.856)EMGS	3	0.48921	248840.6	239708.8
Cbx4	0.539549	0.000342633	45.614	EAPS(0.46)PT(0.54)CPDLGAK	3	0.097983	7280.7	7220.6
Rb1cc1	0.517981	5.05E-07	53.21	S(0.482)VEHVAPDVT(0.518)DAEQ	3	0.84003	8368.8	9623.5
Gas2l1	0.999942	0.0033547	52.126	S(1)PAAPRPSR	3	-0.094628	16375.5	20111.9
Mta1	0.949838	2.77E-08	60.55	SAPVINNGS(0.95)PT(0.05)ILGK	3	1.6701	3767.2	4140.0

9401.5	9655.6	10735.6	10142.0	0.1	0.2	1152
17623.0	20055.6	18278.1	18087.0	0.1	0.3	232
220721.6	252693.7	214209.7	303850.0	0.1	0.6	8
10727.3	11715.7	12018.0	10157.0	0.1	0.3	1356
5755.9	5754.8	6097.5	5596.0	0.1	0.2	160
4849.7	5261.4	5564.1	4783.9	0.1	0.3	239
4416.9	4899.1	4463.6	4693.0	0.1	0.2	248
137541.1	141432.8	156203.7	134880.0	0.1	0.3	183;178
6268.3	6891.2	7108.8	6976.2	0.1	0.4	770
5202.5	5621.8	5863.2	5123.5	0.1	0.2	393
151466.6	189710.0	162433.9	163010.0	0.1	0.4	719
34934.1	36425.2	37775.5	35038.0	0.1	0.1	49
12906.7	14401.8	12209.3	12678.0	0.1	0.4	700
27605.1	27915.9	30068.4	27157.0	0.1	0.3	1175
15630.0	16403.7	17284.2	17081.0	0.1	0.2	843
25812.2	24854.7	27457.7	25507.0	0.1	0.2	378
10405.4	10036.1	10664.1	10781.0	0.1	0.2	717;740
20498.6	21846.3	22377.4	21054.0	0.1	0.0	183
47808.8	54536.0	54270.0	48528.0	0.1	0.3	673
6518.2	7584.9	7818.3	6933.3	0.1	0.3	50
10176.7	10526.0	11403.5	10045.0	0.1	0.2	716
139872.7	132325.2	143903.6	144650.0	0.1	0.3	283
36833.4	38301.7	43173.2	40414.0	0.1	0.2	148
11983.6	10618.2	12731.8	11300.0	0.1	0.5	116
12646.9	12657.2	13071.7	15343.0	0.1	0.4	993
38024.8	41516.9	45391.7	38945.0	0.1	0.3	165
12139.0	13319.4	13192.4	13060.0	0.1	0.1	1263
21889.0	22305.0	24421.7	23224.0	0.1	0.2	659
10035.4	10738.8	10810.4	9870.6	0.1	0.1	563
256238.0	258215.5	277003.2	259120.0	0.1	0.1	286
7702.3	8367.3	7510.1	7803.6	0.1	0.2	184;184
7907.0	10063.1	9669.8	7889.7	0.1	0.5	270
15921.7	18936.9	16552.2	20408.0	0.1	0.5	482
3637.6	4295.9	3631.1	4386.3	0.1	0.4	576

Fam120a	0.563435	5.22E-15	84.859	APS(0.437)HS(0.563)ESALNNSDK	3	0.56991	7684.3	6700.0
Tp53bp1	0.985141	1.13E-07	45.558	LVS(0.985)PET(0.012)EAS(0.001)E	4	-0.4385	8206.0	8391.9
Prx	0.610878	7.49E-12	131.32	LNIQS(0.611)LS(0.389)PVKK	4	-2.448	72529.2	72687.1
Srgap3	1	2.12E-38	112.17	S(1)LEAEALAEDIEK	2	0.89663	29147.9	26673.7
Mtss1l	0.999486	2.31E-58	106.88	AGS(0.999)EECVFYTDEVASPLAPDI	3	-0.54188	27995.8	27393.3
Klhdc7a	1	2.06E-29	81.97	KVS(1)LLQIAENPELQLQPEGFR	4	0.22299	17242.6	16084.1
Madd	0.9805	8.38E-07	70.373	LAS(0.014)DS(0.981)DAES(0.005)E	2	0.20207	9520.4	8645.3
Atxn2l	0.528156	2.23E-28	54.352	RPPGGT(0.528)S(0.452)PPNGGLP(	5	-1.5933	1556.6	1176.7
Aspscr1	0.677381	1.20E-16	92.236	S(0.008)S(0.002)T(0.049)S(0.264)F	3	-0.52995	57297.5	47485.4
LOC10036	0.894915	0.00042922	44.391	GS(0.006)EPGS(0.056)ERS(0.895)F	3	0.37955	6662.5	7187.0
Crtc1	1	0.00861699	65.535	RPLS(1)VDK	3	-0.42193	8327.0	6350.3
Arhgap12	0.912825	1.90E-33	95.666	THQDS(0.085)ES(0.913)GDELS(0.0	3	0.16852	5876.9	5372.1
Acsbg1	0.999997	1.81E-17	89.484	ESPSHGLELS(1)APEK	3	0.63469	10823.4	12159.3
LOC10036	0.954041	8.61E-11	66.826	S(0.954)YPLNT(0.041)T(0.002)S(0.	3	0.91545	8184.3	7997.3
Acin1	0.63277	8.23E-33	96.848	GLS(0.059)PLS(0.602)S(0.633)T(0.	3	-0.29239	33280.5	32355.7
Ttbk2	0.959953	3.51E-10	65.022	S(0.96)VEDGFLS(0.039)PIVS(0.001	3	1.0345	21840.3	23459.7
Mga	0.72136	2.01E-13	69.255	T(0.001)VNAS(0.002)QS(0.243)AS	3	0.84976	9779.6	9517.4
Rap1gap	1	3.34E-51	110.25	RES(1)PPAGQK	2	0.21237	48358.4	49139.6
Mpp6	0.980368	0.00668359	57.175	NIS(0.98)GS(0.01)VT(0.01)LK	2	0.92638	2712.3	2214.1
Ank3	0.999999	3.37E-05	91.093	SISDVAS(1)PIR	2	-1.1096	8869.7	7037.8
Rap1gap2	0.998087	1.85E-13	103.14	LHS(0.002)GS(0.998)EGQGDSR	3	0.0092145	13906.6	15646.4
Mcrs1	0.93088	1.54E-06	50.752	APS(0.015)T(0.053)PVPPS(0.931)F	3	0.5358	10336.8	10206.9
Pi4ka	0.960752	4.49E-08	58.693	YLT(0.039)AS(0.961)QLVPPDNQD	3	-0.51007	6457.5	6897.7
Sorbs1	0.713152	1.55E-46	83.898	FFSELEFGRPS(0.018)S(0.035)AVS(	6	0.10136	13987.7	14495.7
Arhgap28	0.877364	7.73E-05	89.301	GLS(0.877)DDDY(0.123)LEK	2	1.0706	29171.7	29612.3
Tpcn1	0.754143	9.27E-11	62.804	GSAPSPAAQQT(0.246)PGS(0.754)I	3	1.0605	3649.2	4254.6
Aak1	0.836687	1.72E-27	103.02	S(0.837)T(0.163)QLLHAAAEEASLS	3	-1.3967	16269.3	17844.6
Mysm1	0.997496	2.01E-13	102.73	HS(0.003)PS(0.997)PEPCEGQK	3	-0.17544	34451.7	37235.9
Srrm2	0.742569	0.00441749	60.342	S(0.807)RT(0.391)S(0.743)PVT(0.0	3	-0.082236	7652.4	9715.2
Tfeb	0.581773	7.77E-33	82.885	VHGLPT(0.133)T(0.582)S(0.15)PS(	4	-1.0287	3269.1	3318.4
Cdc42ep4	1	6.01E-14	107.65	NAMS(1)LPQLNEK	3	0.77136	83901.4	80848.1
Syn1	0.910796	4.05E-13	106.32	QAS(0.089)IS(0.911)GPAPPK	2	-0.1631	102948.5	92598.3
Tln1	0.986284	0.000520863	44.391	DPPRWS(0.986)VLGHS(0.014)R	3	-0.47257	7765.8	8696.1
Dync1li1	1	0.00548731	75.043	VPGGS(1)PRT(1)PNR	3	-1.0547	39811.6	44946.1

8277.1	6923.8	9378.5	7868.0	0.1	0.6	1076
9067.0	9133.7	9045.1	9195.5	0.1	0.1	952
84188.7	81307.9	80160.0	83219.0	0.1	0.3	131;131
31533.6	32935.0	30166.7	30073.0	0.1	0.3	930
30537.1	29704.4	32139.5	29809.0	0.1	0.2	575;586
17345.1	16742.5	18065.4	19241.0	0.1	0.2	322
10057.6	10321.0	10894.8	8888.5	0.1	0.4	819
1536.0	1670.1	1690.3	1193.4	0.1	0.7	31
53030.9	51572.7	60109.1	56653.0	0.1	0.4	213
7219.7	7841.7	6886.4	7745.8	0.1	0.3	903
8149.5	8044.7	9017.4	7287.1	0.1	0.6	120
5750.1	6151.4	5819.4	6162.1	0.1	0.1	213
12327.5	11893.9	12621.8	13151.0	0.1	0.3	61
8825.9	8959.1	8344.1	9373.8	0.1	0.2	1334
31987.2	34889.6	35267.4	33985.0	0.1	0.0	377;483;483
23529.7	24193.6	24972.1	24261.0	0.1	0.1	964
8484.7	9466.6	10823.2	9347.8	0.1	0.4	603
47741.7	50040.5	54553.2	50351.0	0.1	0.1	605;613
2473.4	2485.5	2677.0	2731.9	0.1	0.4	198
7417.1	8953.0	8296.6	7634.7	0.1	0.5	1568
14423.8	15961.5	14793.2	16163.0	0.1	0.2	553
10243.2	10907.1	11046.6	10893.0	0.1	0.0	108
6794.3	6778.1	7255.9	7463.7	0.1	0.1	1363
15523.5	14476.6	16560.8	15914.0	0.1	0.3	847
29716.3	32726.0	31640.4	30058.0	0.1	0.1	221
4285.2	4237.3	4216.0	4551.7	0.1	0.3	809
21371.6	18696.0	19977.2	20527.0	0.1	0.5	653
34121.8	37672.5	36048.6	39174.0	0.1	0.2	308
8751.5	8978.2	9656.1	9234.0	0.1	0.4	1931
3381.0	3438.3	3652.9	3545.1	0.1	0.0	331
85944.3	89835.9	94464.9	83191.0	0.1	0.2	116
96720.6	99476.0	114259.4	98121.0	0.1	0.3	568
7612.5	8049.0	9710.0	7929.5	0.1	0.5	1631
36253.2	43842.2	42528.8	42755.0	0.1	0.3	405

Smap2	0.820505	8.72E-33	110.34	DLDLLAS(0.821)VPS(0.171)PS(0.00	3	-0.21592	20611.9	18515.9
Nes	0.832863	1.18E-92	170.27	ESQEFS(0.004)RS(0.163)S(0.833)E	3	-0.80911	10801.5	8495.1
Tmem88	0.690293	0.00200517	64.64	QIPVS(0.038)S(0.272)S(0.69)PR	2	0.84636	20319.7	23048.4
Bin2	0.999494	8.67E-07	91.62	ASS(0.999)EGAEQSKR	2	0.92078	30306.0	30409.8
Phlpp2	0.995586	4.72E-05	67.879	ES(0.001)ENS(0.996)PT(0.003)LPK	3	0.036414	11289.5	11936.6
Git2	0.724428	3.21E-51	109.41	SALVT(0.003)S(0.019)S(0.115)S(0.	3	1.4703	3655.0	3705.7
Epg5	0.933885	2.35E-06	77.746	VPAEGS(0.066)EGT(0.934)PER	2	0.38397	4794.0	5313.2
Reep2	0.740216	1.86E-25	71.299	S(0.213)FS(0.74)MQDLT(0.046)LIR	4	0.067015	18363.7	19226.7
Map2	0.885896	2.24E-22	143.81	LAS(0.886)VS(0.114)ADAEVAR	2	0.93868	84100.6	85751.3
Stx12	0.894739	4.49E-11	66.201	ELGSLPLPLS(0.105)AS(0.895)EQR	3	0.28874	3698.3	4263.7
Ncoa7	0.959647	1.93E-10	62.813	ES(0.004)T(0.037)LS(0.96)IHEDLDI	4	1.6632	8779.9	8728.7
Irs2	0.998634	5.71E-09	131.83	RT(0.001)YS(0.999)LTPPAR	3	-0.62524	11538.1	11529.7
Hectd1	0.985271	3.79E-114	200.63	S(0.006)S(0.009)S(0.985)DNNTNT	2	-1.1954	13701.5	11608.6
Prpf6	0.994727	1.55E-27	103.13	LSQVSDSVS(0.005)GQT(0.995)VVI	3	-0.31308	33819.6	35453.4
Fam110b	0.981574	0.00170852	72.321	VLGS(0.982)PT(0.018)LK	3	-0.0039446	44402.3	46709.9
Frmd4a	0.621584	2.78E-48	116.09	AAGALGSAS(0.017)S(0.622)GS(0.3	3	-0.38178	7083.3	7281.4
LOC68570	0.630873	1.54E-70	121.7	RQNS(0.631)S(0.153)DS(0.216)ISS	4	0.6119	30777.1	30454.7
Pdap1	0.830149	8.75E-24	97.256	QYT(0.17)S(0.83)PEEIDAQLQAEK	3	-0.0018206	26911.6	26316.1
Myo9a	0.769705	3.09E-05	110.8	AMS(0.77)QGEIT(0.23)K	2	-0.35965	33996.1	29321.6
Bcr	0.982062	6.63E-15	82.865	GRGS(0.982)PAS(0.018)GALEPTK	4	0.50667	34043.8	32071.6
Golga3	0.672725	3.61E-33	76.415	AESASLAGDS(0.008)VS(0.031)EAD	4	0.86074	8063.5	7359.1
Scrib	0.950224	1.28E-42	85.184	VLA AVPS(0.011)AGS(0.039)LQRPF	4	0.34836	52215.5	48964.1
Ngef	0.957952	0.0227102	60.045	FVS(0.958)FT(0.042)SR	2	3.7617	3508.7	3315.9
Gmpr	0.955264	0.000327664	77.26	S(0.955)RS(0.045)EVDLER	3	1.1089	5736.3	5740.6
Rb1	0.999603	0.00112538	57.095	TAATPINGS(1)PR	2	-0.19799	5416.3	6866.7
Fam129b	0.998864	3.29E-86	107.52	QVVS(0.999)VVQDEES(0.001)GLPI	4	0.4671	18193.1	20043.9
Klc4	0.962475	0.00201382	94.309	S(0.962)S(0.038)ELLVR	2	-0.99209	14389.7	15144.0
Agfg1	0.583479	5.41E-41	90.363	SLLGES(0.001)APALHLNKG(0.967	3	-0.14357	38837.2	33700.5
Camkk1	1	3.95E-66	96.284	KFS(1)LQER	3	0.077561	40518.9	34658.1
Wdr44	1	1.13E-11	100.31	AGNES(1)PVQELR	2	-0.071829	11836.7	9680.3
Akap12	0.967812	1.13E-43	135.49	HPEGIVSEVEMLS(0.032)S(0.968)Q	3	-1.2251	65411.3	68168.9
Lpp	0.984746	1.27E-46	101.38	APPGSS(0.001)S(0.001)S(0.007)IA:	4	0.37413	45015.3	46492.7
Plcl1	0.574998	2.54E-10	85.362	KKT(0.169)VS(0.879)FS(0.575)S(0.	4	0.38976	28341.6	28802.8
Ranbp2	1	6.56E-05	57.434	LLLDIPLQT(1)PHK	3	1.0046	3010.3	2481.6

22391.6	22538.2	22441.5	20667.0	0.1	0.3	216
10077.7	10894.4	10916.2	9534.5	0.1	0.5	1006
23877.8	23550.1	24398.2	23811.0	0.1	0.2	147
34662.6	35650.8	34101.5	32032.0	0.1	0.3	338
11388.5	11999.5	12368.5	12572.0	0.1	0.0	1217
3289.7	3638.3	4536.2	3191.5	0.1	0.6	543
4658.8	5281.5	5578.7	4898.1	0.1	0.3	1376
18429.0	20916.8	20635.5	18234.0	0.1	0.2	152
90775.6	90762.1	97653.7	89744.0	0.1	0.1	907;821
4002.3	4588.8	3920.7	4259.8	0.1	0.3	94
8088.9	8544.6	9031.2	9746.8	0.1	0.2	415
11362.9	12991.6	11998.7	11761.0	0.1	0.1	574
11547.1	13180.8	13945.8	12217.0	0.1	0.4	1453
32156.4	39961.5	34589.9	33721.0	0.1	0.4	266
46448.2	48481.8	50132.2	48229.0	0.1	0.0	95
7864.2	7827.6	8565.6	7336.2	0.1	0.3	831
28924.2	32624.8	33691.1	29926.0	0.1	0.2	1448
28167.2	28152.4	31032.3	27705.0	0.1	0.2	19
31771.0	36044.6	34468.0	30997.0	0.1	0.3	1802
23522.2	30548.1	32686.6	32457.0	0.1	0.6	406
7696.4	7852.6	8508.5	8319.4	0.1	0.1	272
54261.6	52588.0	59807.7	53551.0	0.1	0.3	1269
3316.9	3750.4	3462.0	3614.6	0.1	0.1	512
4667.6	6929.1	4961.6	5346.3	0.1	0.6	26
7067.7	6140.6	7019.1	7500.8	0.1	0.5	242
21002.2	19115.1	21484.0	22652.0	0.1	0.4	626
16298.6	16353.1	16397.3	16186.0	0.1	0.1	565
36968.6	40522.5	39621.0	36780.0	0.1	0.3	179
35157.7	40019.8	36930.2	40858.0	0.1	0.3	74
11279.9	11308.7	11237.9	12473.0	0.1	0.4	50;50
71580.1	71864.8	73720.4	73479.0	0.1	0.1	491
48506.2	48828.3	48696.0	51979.0	0.1	0.1	152
32977.3	30165.3	34526.8	31539.0	0.1	0.4	98
2213.2	2777.3	2715.9	2734.4	0.1	0.5	2028



Zc3h14	0.97421	0.00687418	56.548	RPS(0.974)LPPS(0.026)K	3	0.08158	12250.0	12307.4
Map1b	0.9999	2.79E-123	138.84	SSHLPTEVTEKPVAVPV(1)FEFTEAI	5	-0.35881	26049.3	24448.0
Dopey2	0.581294	1.18E-26	112.82	S(0.001)S(0.001)ES(0.046)LS(0.58)	4	1.0719	51820.7	46709.9
Nes	0.988227	0.00501549	85.744	RFS(0.012)S(0.988)LGK	2	0.050148	65026.1	61734.4
Dennd4a	0.954599	0.0131139	64.927	S(0.004)IS(0.012)T(0.955)PS(0.02)	2	-0.44864	7276.1	8486.8
RGD13091	0.980443	4.83E-15	85.421	ANMHIS(0.02)ES(0.98)QQEFFR	3	0.28077	32114.1	34638.4
Cacng4	1	0.00240352	85.355	DAS(1)PVGLK	2	0.84213	43049.8	51492.5
Dcp1a	0.54999	2.41E-22	62.646	QKS(0.138)PLLNPVPELS(0.55)HS	4	0.39528	18137.1	17358.7
Cd2ap	0.841836	1.78E-61	184.24	T(0.035)S(0.007)S(0.842)S(0.116)E	3	0.62519	117104.4	113344.2
Pdlim5	0.513935	1.71E-05	61.657	VPRPFGS(0.001)VS(0.485)S(0.514)	3	0.43129	17320.1	13126.8
Inpp5f	1	3.14E-14	73.435	VQKS(1)PAEPEVVNEIQQNELK	3	0.64046	17116.1	15736.3
Plekha6	1	1.63E-12	69.805	MLS(1)VQALAEANAVK	3	0.51468	8082.4	8277.0
Elmsan1	1	5.45E-21	102.89	RRAS(1)QEANLLTLAQK	3	-0.1811	27249.1	25650.3
Baiap2	0.790766	1.30E-57	101.45	S(0.011)S(0.011)S(0.187)T(0.791)C	3	-0.18007	45373.1	42966.2
Anks1a	0.557529	3.47E-33	109.72	IMS(0.558)S(0.442)IGEGIDFSQEQC	3	0.35502	28168.7	28507.7
Tbc1d4	0.829931	3.19E-15	120.84	S(0.001)LT(0.085)S(0.83)S(0.085)L	3	-0.74263	1719.2	1920.3
Smg6	0.997019	0.000151309	40.968	GILAT(0.003)LAPQAGS(0.997)REN	4	-0.69487	1322.1	1260.4
Irf9	0.816749	1.47E-07	67.685	S(0.006)IS(0.817)S(0.19)VS(0.988)	2	0.089766	23966.9	23893.0
Map1a	0.762658	1.98E-18	71.148	NEPT(0.172)T(0.763)PS(0.065)WL	4	-0.67958	7112.7	6710.9
Cdk17	1	8.25E-05	99.752	RLS(1)LPADIR	2	-0.85296	11856.5	12944.7
Wipi2	0.9546	0.00285359	57.175	GAY(0.002)VPS(0.027)S(0.955)PT(	2	-0.29999	12712.8	13891.3
Pgm5	0.954497	2.00E-19	65.184	AAGGIILT(0.046)AS(0.954)HCPGG	3	-0.10328	24482.1	23809.6
Gnas	0.783992	1.28E-06	71.279	AAPVT(0.784)PT(0.194)EPAT(0.02	2	-0.045021	12383.6	12237.2
Ahnak2	0.624195	2.28E-18	99.392	T(0.009)VS(0.367)PS(0.624)QPFGE	3	-0.039086	13034.8	13750.9
Mybbp1a	0.789625	3.61E-05	106.29	S(0.151)S(0.79)QS(0.06)ALPK	2	1.9271	42086.1	37935.7
Med1	0.986001	0.000218462	44.238	LAS(0.001)PMKPVPGT(0.986)PPS(	3	0.6079	8034.4	8279.3
Abhd4	1	0.0202823	57.225	S(1)NPLAVLR	2	-1.2609	4103.4	4363.5
Itgb4	0.871292	2.19E-53	129.46	TLTTS(0.002)GS(0.108)LS(0.871)T(	3	0.0040937	9356.0	8864.9
Clcn6	0.667545	3.21E-07	77.42	LS(0.668)Y(0.332)AEMAEDYPR	3	0.79851	1841.4	2125.2
Fga	0.676222	1.10E-09	53.453	QPS(0.289)QCKET(0.035)DWPFCS	4	-0.06174	12906.0	12510.3
Tbcel	0.97245	0.01303	40.724	Y(0.003)S(0.024)PENFPY(0.972)R	2	-0.72444	8005.1	9690.7
Dnm1	0.921561	2.91E-31	65.508	GPAPGPPPAGS(0.922)ALGGAPPVF	6	-0.31109	4791.8	6006.9
Rab3gap2	0.987118	1.73E-27	80.786	S(0.987)PPEVS(0.013)EVETDLGAV	3	-1.3526	7884.1	8192.4
Vim	0.978473	9.86E-30	118.5	MFGGS(0.978)GT(0.021)SSRPSSNI	3	1.0698	21651.9	20993.9



11715.3	13528.4	12993.6	12211.0	0.1	0.1	343
26123.1	26413.3	28315.9	27089.0	0.1	0.1	1229
48088.8	53019.2	53031.5	50517.0	0.1	0.1	713
61326.6	60237.1	76779.9	63840.0	0.1	0.5	630
7669.9	10414.9	7513.0	7096.7	0.1	0.7	1197
34970.3	35144.8	39131.6	34359.0	0.1	0.3	95
43057.3	61836.4	40956.8	44161.0	0.1	0.7	259
17166.3	19480.3	17966.0	18798.0	0.1	0.1	383
112788.2	121897.5	119410.3	125290.0	0.1	0.0	233
16185.8	16313.5	18535.6	14958.0	0.1	0.6	137
18668.5	18150.4	19994.3	16884.0	0.1	0.4	1101
8796.2	8764.6	9278.0	8826.8	0.1	0.1	580
28758.1	27649.7	31220.4	28355.0	0.1	0.3	456
51496.7	51172.3	46865.4	51333.0	0.1	0.3	456
31084.4	31288.4	32727.2	29732.0	0.1	0.2	133
1939.7	1967.3	2129.8	1862.7	0.1	0.3	397
1159.0	1429.7	1307.6	1259.4	0.1	0.3	82
26470.2	21521.8	33053.2	24828.0	0.1	0.7	136
7247.9	7012.9	7654.6	7843.2	0.1	0.2	2039
12224.2	12761.7	13628.4	13166.0	0.1	0.1	146;119
13879.7	12884.9	15794.6	14572.0	0.1	0.4	395
23877.8	24610.5	24147.1	28347.0	0.1	0.3	122
13164.3	13101.6	13514.1	13755.0	0.1	0.1	539
13302.7	13107.1	15661.0	14066.0	0.1	0.3	5517;6888
40442.6	42637.7	42190.1	43888.0	0.1	0.1	1306
7313.5	8630.4	9036.0	7579.2	0.1	0.4	1201
4299.8	4492.5	4612.5	4536.4	0.1	0.0	177
9066.0	9997.5	10030.8	9128.3	0.1	0.1	1797
2078.4	2385.8	1975.9	2097.5	0.1	0.4	774
12282.8	13114.8	13508.7	13660.0	0.1	0.0	57
7752.1	8361.8	9341.4	9490.0	0.1	0.5	24
7496.0	5876.9	6950.6	6722.6	0.1	0.6	807
9023.2	8430.8	9822.0	8569.3	0.1	0.4	706
20271.8	23534.7	23534.7	20169.0	0.1	0.3	18

RGD13055	0.997812	9.49E-07	95.981	S(0.002)YQGS(0.998)QDLSK	3	0.82031	31926.8	32136.3
Srrm2	0.885255	2.73E-78	125.59	VGIFSSQS(0.014)VS(0.145)S(0.84)	4	-0.45848	3101.0	3121.5
Reep1	0.994534	1.48E-82	186.39	S(0.004)FS(0.995)MQDLT(0.001)T	2	-0.73016	469402.9	468272.9
Plcb3	0.822238	7.25E-10	80.387	HRPSTGVPDS(0.178)S(0.822)VR	2	-0.040624	19650.6	21190.2
Scrib	1	9.75E-14	115.68	RVS(1)LVGADDLRK	3	0.74646	30588.7	31296.1
Tex2	0.543311	3.54E-22	142.92	S(0.022)LS(0.543)T(0.132)DT(0.05	3	0.58143	12661.5	11519.8
Pard3b	0.950138	5.88E-15	82.265	RS(0.049)DS(0.95)PGKDFGPT(0.00	4	-0.019815	28088.8	27984.5
Epb41l2	0.802125	1.44E-70	122.13	ASQPGPTAES(0.039)QS(0.802)S(0	4	-0.40202	86101.9	91472.8
Spag9	0.992922	2.69E-10	48.597	ERPISLGIFPLPAGDGLLT(0.993)PDT	4	-0.1773	2429.6	2275.5
Ube2m	0.926987	3.06E-07	56.121	KEEESAGGT(0.01)KGS(0.927)S(0.0	3	-0.098392	9289.1	8493.4
Prph	0.999937	1.31E-223	290.61	LLGSGS(1)PSSSAR	1	-0.67471	416686.4	432743.9
Spag9	0.985775	3.19E-26	78.078	SHTSLKDELS(0.002)DIS(0.986)QGC	4	0.26475	22482.0	22829.0
Kcna4	0.878817	5.72E-05	43.241	QS(0.484)S(0.437)FPHCS(0.081)DI	3	0.72434	6799.2	7644.6
Tbcb	0.558118	8.01E-59	96.052	AQQEAEAAQRLS(0.433)EEEEQAS(	4	-0.034122	19525.4	17434.4
Creb1	0.930264	4.90E-31	138.05	KILNDLS(0.07)S(0.93)DAPGVPR	3	1.3056	65368.4	61067.4
Ahnak2	0.901053	3.95E-25	69.578	QDIADGCT(0.001)ET(0.022)PT(0.0	4	-0.029477	17657.6	17714.1
Sars	0.752896	1.54E-05	67.519	LEAVS(0.109)S(0.753)LFS(0.138)PI	3	0.89338	3549.8	4093.4
Zc3h4	0.834981	0.0365233	59.116	S(0.165)T(0.835)PPGPPNTR	2	0.60444	6302.0	5732.9
Osbp17	0.710751	1.91E-31	85.062	IPS(0.711)APVIPT(0.289)HQASVTT	4	1.6459	4945.8	5087.7
C2cd5	0.507373	1.65E-25	70.994	LT(0.001)QNFS(0.05)VS(0.507)VP1	4	1.0722	5893.3	5338.9
Camsap1	0.996758	2.84E-43	150.39	SVHREES(0.997)CS(0.003)DSGTK	4	0.0092676	49477.1	40212.9
Ppfbp2	1	0.000126875	81.676	GGLRAT(1)AGPR	3	-0.36876	9207.1	8676.5
Ptpn12	0.953111	1.75E-05	62.338	S(0.023)ES(0.953)AVEHT(0.024)DI	3	-0.69626	5576.1	5478.7
Eif2ak4	1	9.54E-18	71.279	AAAILHGGG(1)PDFVGNKG	3	0.046136	4200.3	4019.8
Tom1l2	0.999745	5.82E-79	125.35	AAETVPDLPS(1)PPTEAPAPASNTSN	3	-0.54918	45356.4	46995.1
Txlng	0.995326	8.41E-24	85.387	KHS(0.995)LEGDEGS(0.005)DFVTM	3	0.12774	17675.5	15288.8
Cobll1	0.676762	1.79E-32	92.913	TGSLQLSGSTSVGT(0.015)S(0.677)!	3	-0.74069	52169.0	53022.7
Ythdc1	0.952971	0.00458289	60.754	MES(0.953)IDT(0.047)KR	3	-0.79389	60818.3	56224.6
Fnta	0.999999	0.00555339	64.654	ESDIPAS(1)V	2	1.3334	5128.5	4637.8
Epb41l3	0.878631	0.00454717	89.609	RLS(0.042)T(0.879)S(0.079)PVR	2	-0.53456	55390.4	58885.7
Hectd4	0.999762	1.51E-31	87.352	TQCPVFAEVGCS(1)PCGTSDQK	3	-0.30807	18226.5	23125.2
Zfp516	0.558868	1.26E-54	84.889	QEAS(0.559)T(0.44)PERVDFPSSM!	5	0.77826	7063.8	7169.9
Apbb2	1	0.00531656	42.976	CLVARPPS(1)QK	3	-0.27525	22529.7	23842.5
Shf	1	0.000891727	63.662	NCLS(1)PGREEK	2	0.32312	26831.7	26939.1

31660.3	34968.8	33590.7	33738.0	0.1	0.0	338
2865.0	3042.4	3338.9	3330.5	0.1	0.2	1372
492620.5	520808.9	513141.4	494650.0	0.1	0.0	152
18809.0	21203.9	21548.1	20998.0	0.1	0.1	481
30873.6	33346.4	34927.6	30861.0	0.1	0.2	1387;1359;1338
10524.1	12557.1	14215.1	10320.0	0.1	0.6	222
26730.0	28373.5	31650.0	28476.0	0.1	0.2	672
92774.0	101587.9	89978.7	97381.0	0.1	0.2	57;57;57
2251.7	2435.6	2459.1	2540.8	0.1	0.1	74;217
8654.5	8251.3	9651.6	10353.0	0.1	0.4	23
382749.4	509039.3	418619.9	389310.0	0.1	0.5	56
20793.5	23371.9	23577.5	23706.0	0.1	0.1	111
7270.2	7306.8	7997.4	7905.6	0.1	0.2	113
17212.1	20557.1	18654.2	18692.0	0.1	0.3	157
66620.0	69957.4	70893.8	65509.0	0.1	0.1	45
17485.7	19262.5	19048.6	18190.0	0.1	0.0	204;204
4058.7	4108.3	4106.5	4293.8	0.1	0.2	437
6558.0	6842.7	6154.9	6877.2	0.1	0.3	940
4602.2	5337.3	5948.5	4359.2	0.1	0.5	203
4962.4	5836.7	5502.3	5972.4	0.1	0.3	301
42813.5	48201.3	49125.6	44315.0	0.1	0.4	1371
8882.5	10034.2	8979.5	9598.9	0.1	0.1	383
5283.8	5717.2	6420.3	5328.5	0.1	0.3	301
3783.7	4150.3	4329.7	4352.1	0.1	0.1	230
48948.0	47761.4	55064.0	48228.0	0.1	0.3	500;459
17789.1	19166.8	17361.2	17729.0	0.1	0.3	82
56773.1	53676.9	60748.1	58722.0	0.1	0.2	384
58146.5	60732.1	66957.0	59597.0	0.1	0.2	54
5038.0	5590.2	5258.6	4978.2	0.1	0.2	376
51291.3	55110.2	68737.3	53162.0	0.1	0.5	777;759;799;583
20242.0	19365.9	23071.0	23414.0	0.1	0.5	1109
7683.0	7711.8	7903.9	7815.7	0.1	0.1	673
21681.4	24189.2	25874.0	22698.0	0.1	0.2	450
28190.7	30065.2	29867.5	27701.0	0.1	0.1	139

Agfg1	0.942027	7.49E-39	107.78	APVGS(0.006)VVS(0.942)VPS(0.05	4	0.58607	22164.8	19140.1
Ssh1	0.826989	0.000213477	55.011	S(0.173)GS(0.827)LPQVEELEK	2	-0.42328	9597.6	8143.2
Josd2	0.769718	0.00468984	53.567	S(0.228)PS(0.77)VY(0.002)HER	3	0.056807	5919.7	4998.6
Dync1li1	0.993126	1.95E-31	71.098	TGSPGGPGVGGG(0.993)PGGGAAC	4	0.54289	15653.9	14163.4
RGD13051	0.99957	7.79E-05	82.202	AGRHS(1)IATTR	3	-0.46935	6506.8	7494.5
Prx	0.998594	1.80E-106	179.79	TVPTGDLLLRPGT(0.999)VS(0.001)	4	0.82426	204806.9	188482.9
Thoc2	0.861828	7.08E-07	62.237	S(0.006)DES(0.862)GAEET(0.129)[	3	-1.3797	12395.5	11481.4
LOC10090	0.935058	7.56E-21	100.67	RIDFT(0.065)PVS(0.935)PAPS(0.9€	3	0.85402	21205.8	20116.3
LOC10090	0.968992	7.56E-21	100.67	RIDFT(0.065)PVS(0.935)PAPS(0.9€	3	0.85402	21205.8	20116.3
Kiaa1671	1	7.96E-33	98.443	AHS(1)VEDPADQAPEAKPVR	4	0.34275	8831.6	8850.0
F11r	0.999999	1.97E-07	119.34	VIYSQPS(1)AR	2	0.041096	60937.6	64673.0
Bcas3	0.780815	2.06E-13	65.365	LS(0.005)S(0.018)QDS(0.781)Y(0.1	3	0.099824	13452.2	14262.1
Ppp2r5b	0.925055	1.49E-05	105.35	RS(0.001)HS(0.925)S(0.068)S(0.00	2	-0.13771	15397.5	16282.6
Ehbp1l1	0.800891	4.04E-26	110.32	S(0.199)S(0.801)VNGEAGVPPPR	2	0.1373	44200.7	46471.9
Hspb1	0.986672	6.59E-13	74.141	AQIGGPES(0.013)EQS(0.987)GAK	2	-1.1069	11884.9	11232.4
Dffa	1	2.72E-26	79.143	GAS(1)APDPDDVGPLKPCLLR	3	-4.4023	67789.5	63467.5
Lsr	0.997376	3.99E-27	78.736	ARS(0.997)VDALDDINRPGS(0.002)	3	-0.37917	30321.5	34738.2
Osbp	0.700062	8.15E-31	72.755	T(0.004)GS(0.003)NIS(0.004)GAS(i	4	0.66235	8290.7	8325.6
LOC10036	0.680678	1.81E-08	106.26	DTAQDGS(0.681)T(0.319)IK	2	-0.62132	12592.3	12439.0
Sec14l2	0.765965	2.21E-08	109.95	LNQQGT(0.234)VT(0.766)PK	2	0.10401	37804.4	33866.1
Fam122a	0.99598	3.75E-06	122.18	RNS(0.996)T(0.004)TFPSR	2	0.48711	19631.5	19612.8
Synj1	0.996066	6.16E-14	68.445	VS(0.001)AGRLT(0.996)PES(0.003)	3	3.6888	21612.5	22495.5
Sox2	0.733365	5.85E-28	103.99	S(0.001)EAS(0.133)S(0.733)S(0.13	3	-0.76901	8466.2	8720.3
Med1	0.878187	1.81E-92	129.72	ALGAADLLEHHS(0.004)GS(0.116)C	4	0.81929	13919.8	13455.9
Esyt1	0.977963	1.38E-39	92.147	SPEEGAGPEPS(0.012)GQS(0.978)F	3	-0.57437	4351.8	4867.1
Ubr4	0.726019	2.86E-08	41.575	T(0.231)VPS(0.726)PPIS(0.041)PQ	4	0.11882	5543.5	5001.8
Kcna1	1	6.19E-149	189.75	TVMSGENADEAS(1)AAPGHPQDGS	3	0.15745	41347.8	56855.3
Dnajb1	1	5.70E-05	94.767	GAS(1)DDEIKR	2	-0.25967	40230.3	42875.1
Usp6nl	0.999547	6.67E-06	104.82	GYGSSGS(1)PK	3	0.18826	103962.3	105295.0
Raph1	0.700828	0.00236452	115.06	HGS(0.701)LS(0.296)S(0.004)SR	2	-0.91982	19961.9	17660.3
Golph3	0.626494	0.0269669	65.474	S(0.374)S(0.626)GLVQR	2	-0.38733	11762.1	11405.7
Nipbl	0.980578	3.73E-05	50.305	S(0.019)IPENHPET(0.981)PKNK	4	-0.47799	14524.5	13702.7
Mapre2	0.942458	1.06E-26	82.635	PGSTPSRPS(0.057)S(0.942)AKR	3	-0.022638	42934.1	41052.0
Plekha4	0.5	0.00177762	64.757	QQS(0.5)S(0.5)PLLRL	3	-0.30443	4021.8	3715.1

26203.0	23678.8	22513.1	25988.0	0.1	0.5	362
9040.0	9433.6	9388.6	9812.4	0.1	0.2	444
5302.3	6059.2	6179.2	5105.3	0.1	0.4	13
14919.9	16702.9	16013.6	15118.0	0.1	0.2	467
5810.6	7825.0	7117.3	6241.4	0.1	0.5	116
193126.1	187543.1	225676.2	213810.0	0.1	0.3	111;111
11112.7	11825.7	13569.6	12018.0	0.1	0.3	1222
19401.0	22173.0	22400.9	20356.0	0.1	0.2	115
19401.0	22173.0	22400.9	20356.0	0.1	0.2	119
9370.2	9202.3	10746.3	8977.4	0.1	0.3	229
64093.6	62595.4	70872.5	69379.0	0.1	0.2	285
14392.9	14625.1	14519.7	15880.0	0.1	0.1	503
12451.0	14900.1	17978.9	14310.0	0.1	0.6	46
43532.1	49133.0	47767.3	46605.0	0.1	0.1	1427;667
11675.9	11497.9	12883.6	12824.0	0.1	0.2	203
68114.7	73259.5	71926.1	68011.0	0.1	0.1	8;8
31657.1	40860.2	30515.1	32049.0	0.1	0.6	368
8622.1	9136.4	8781.2	9071.3	0.1	0.0	264
11714.3	11926.9	15241.0	12127.0	0.1	0.5	1500
33697.0	34515.6	35535.6	42629.0	0.1	0.4	347
20723.3	21546.0	21727.7	20857.0	0.1	0.0	61
23400.8	24826.1	23831.8	23539.0	0.1	0.1	1201
8470.2	9046.6	9164.0	9227.8	0.1	0.0	252
13430.5	14836.3	14845.6	13959.0	0.1	0.0	940
3882.3	4831.8	4743.3	4436.4	0.1	0.4	17
5332.4	5335.4	5218.1	6427.8	0.1	0.4	208
53676.1	41243.0	58584.1	62610.0	0.1	0.7	13
40486.2	45425.0	41979.5	44779.0	0.1	0.1	16
102044.9	106509.1	116995.1	109440.0	0.1	0.1	622
16670.2	18921.5	19945.2	19201.0	0.1	0.3	1198
12825.7	13423.9	13126.2	11947.0	0.1	0.2	9
14109.7	14922.1	16199.6	14160.0	0.1	0.2	599
47430.9	48477.4	43350.6	48735.0	0.1	0.3	222
4394.4	5089.7	4320.5	3565.5	0.1	0.6	577;505;577

Tacc2	0.803679	0.000433135	50.088	RKS(0.804)T(0.187)ES(0.009)VPPS	4	1.2751	3933.1	3531.4
Ttbk2	0.735301	0.00025027	45.138	S(0.134)KS(0.91)PPS(0.735)HS(0.1	3	-0.11268	5102.6	3911.5
Zfp652	1	0.00331573	59.84	RKS(1)AELPK	4	0.2506	59374.0	66433.5
Arhgap35	0.999049	1.99E-129	205.98	TSFS(0.001)VGS(0.999)DDELGPIR	3	0.26349	101287.1	90650.1
Fam53c	0.713618	2.56E-08	113.95	S(0.285)LS(0.714)VPVDLS(0.002)R	2	0.2965	9945.9	8523.4
Abcc10	0.99904	1.23E-19	65.881	LEEYS(0.001)CDIPQEPHGQPPQS(0	4	-0.16765	10059.7	10725.5
Mark1	0.987199	0.0436513	45.661	RNT(0.987)Y(0.013)VCER	3	-0.16142	10406.2	10833.0
Map2	0.999717	0.0363631	60.436	SSVAS(1)PR	2	-0.6202	11355.9	10702.2
Notch2	0.658762	0.0162046	55.112	DS(0.341)S(0.659)NHKR	3	-0.35804	8600.1	10206.2
Pi16	0.816489	8.31E-26	79.69	AELPVS(0.816)S(0.184)EALVPVLP	3	0.83146	21672.2	19487.8
Arfgef2	1	0.000175899	62.338	VNS(1)ENGEAHR	3	1.1889	1396.6	1766.6
Adm	0.808099	7.32E-70	117.83	TVESSQEQT(0.191)HS(0.808)APAS	4	-0.10126	3354.4	3900.2
Mast2	0.962366	2.32E-10	62.469	LS(0.962)PHPEAS(0.038)QNLLPK	3	-0.2875	9827.1	9857.6
Proser2	0.9767	0.0715809	49.669	GGG(0.023)LES(0.977)R	2	0.024865	6741.0	6649.8
Ahsg	0.998424	7.62E-87	160.36	HAFSPVAS(0.002)VES(0.998)AS(1)	3	0.64216	581240.4	592981.2
LOC10369	0.810543	0.0555414	53.493	S(0.06)T(0.108)S(0.811)LES(0.021)	2	-0.20481	8137.8	7496.2
Vim	0.912066	8.69E-13	93.336	MFGGS(0.039)GT(0.912)S(0.039)S	3	-0.053102	56700.0	54226.0
Nes	1	1.37E-69	137.03	S(1)PEEEDQEACRPLQK	4	0.37054	108801.0	90758.7
LOC10255	0.999999	6.43E-07	87.138	NGS(1)PPPGAPASR	2	0.62562	4258.8	4118.5
Cic	0.831537	0.00199792	83.862	HLS(0.832)AS(0.143)T(0.025)PK	2	0.56209	16730.9	15886.6
Map2	0.97084	7.02E-15	122.96	S(0.971)S(0.029)DNPQGLSEGR	2	-0.3168	14449.3	14350.9
Setd5	0.941132	0.0134581	48.423	T(0.015)PS(0.044)S(0.941)PHK	3	0.17455	19670.9	19086.3
Pde4dip	0.651595	4.33E-12	69.261	S(0.108)S(0.108)S(0.652)IS(0.133)	3	1.0552	6421.3	5493.3
Sorbs1	0.95401	0.000656475	83.214	RPS(0.004)S(0.004)S(0.006)AS(0.9	3	0.033688	9564.5	9487.9
Ppp1r21	0.99953	8.05E-21	121.32	SGESSQLS(1)QEQQ	2	0.5219	28060.2	28826.9
Cpsf6	1	0.00813174	50.786	DHS(1)RS(1)REK	3	0.11927	17636.2	17630.7
Cpsf6	1	0.00813174	50.786	DHS(1)RS(1)REK	3	0.11927	17636.2	17630.7
RGD15611	0.931253	0.00264966	58.172	FS(0.001)S(0.035)AS(0.033)S(0.93	2	-0.0015789	11665.7	11853.3
Nckipsd	0.61604	6.03E-43	82.169	G TSAASAS(0.007)VMT(0.083)PS(0	5	0.26423	10036.4	10555.0
Tp53bp1	0.810648	2.22E-12	67.646	NFTDDLGLS(0.811)MT(0.187)GDS	3	0.3381	9404.8	9195.9
Zfp91	0.991898	2.40E-07	44.167	S(0.361)S(0.4)PS(0.247)NRPPDGH	5	0.36834	15370.1	13232.1
Tab3	0.635605	2.35E-26	75.416	APADIHESQAAAT(0.022)EEHLS(0.6	5	-0.30622	17148.3	14985.0
Arhgap31	0.499909	7.17E-14	67.76	HRPS(0.5)S(0.5)LNLDSAIPIADLFR	4	0.023242	1535.8	686.2
Zfp513	0.925843	5.72E-07	44.292	DSEGDSQGARPGLPY(0.009)GLS(0.	3	1.1549	22222.0	23670.3

3916.9	3871.4	4622.7	3680.0	0.1	0.5	1962
5330.7	4754.4	5491.7	5098.2	0.1	0.5	1122
51904.5	86383.1	52793.1	50922.0	0.1	0.8	215
95466.4	100914.7	106796.0	99730.0	0.1	0.2	1179
9291.9	10588.7	10141.0	8966.9	0.1	0.4	85
10618.8	10754.4	11419.5	11421.0	0.1	0.1	1235
10363.8	11475.9	11847.0	10485.0	0.1	0.2	504
9025.7	11646.4	10992.1	10614.0	0.1	0.4	1874;1788
9145.9	9324.1	8302.6	12276.0	0.1	0.6	1722
19962.0	21164.3	22829.4	21394.0	0.1	0.2	393
1569.6	1677.1	1591.2	1794.8	0.1	0.4	265
3713.6	3498.8	4046.4	4188.8	0.1	0.4	169
9540.9	9929.9	10142.6	11194.0	0.1	0.2	1468
6088.3	6831.2	7029.5	6978.9	0.1	0.1	34
773451.8	720902.6	718171.4	644710.0	0.1	0.5	316
7309.2	8250.1	8023.4	8273.4	0.1	0.1	1223
56129.0	62902.3	61003.5	54827.0	0.1	0.2	20
131845.3	120665.6	111993.9	121920.0	0.1	0.6	685
4691.9	4770.9	4675.1	4537.2	0.1	0.2	62
15231.8	16907.5	17027.8	17261.0	0.1	0.1	661
15170.1	15912.0	15430.1	15704.0	0.1	0.0	179
18284.2	21351.3	19949.4	19731.0	0.1	0.1	1141
6399.1	6992.2	6569.3	6033.6	0.1	0.4	1657
10699.7	11051.3	10148.3	10636.0	0.1	0.2	919
26464.9	30727.4	28836.3	29626.0	0.1	0.1	55
15502.3	18841.2	17851.7	17632.0	0.1	0.2	486
15502.3	18841.2	17851.7	17632.0	0.1	0.2	488
11178.7	12683.6	12492.4	11952.0	0.1	0.1	353
11371.4	10628.5	10962.1	12612.0	0.1	0.4	64
11181.9	11116.2	10913.0	9842.4	0.1	0.4	509
16649.9	15351.0	15793.5	17283.0	0.1	0.4	103
16210.2	17448.7	18023.7	16264.0	0.1	0.2	670
1721.3	841.1	2409.0	970.0	0.1	0.9	1095
22113.7	23706.3	23703.6	25370.0	0.1	0.1	85



Plekha4	1	1.59E-06	74.987	FGHQGRS(1)PAK	2	0.90705	168454.0	166906.6
Ank2	0.999656	0.019762	57.532	S(1)PGAPSIR	2	0.11696	12965.6	14171.0
Mef2d	1	1.30E-05	88.796	RAS(1)EELDGLFR	2	0.038347	11922.6	11084.3
Caskin2	0.794315	7.15E-08	60.489	LPSAPT(0.015)LLRPS(0.794)FS(0.1	3	-0.021963	3182.4	2921.9
Ppfia3	1	1.37E-26	102.45	RGS(1)ALGPDEAGGELER	3	2.3603	18503.2	20260.0
Spata13	0.661524	3.53E-09	98.592	SKS(0.069)IDS(0.662)LS(0.269)VLK	3	-1.4659	23528.0	21519.3
Msh3	0.770651	2.86E-13	116.19	SSVS(0.771)PT(0.229)EPAEK	2	0.78801	12648.4	11256.5
Tp53bp1	0.947942	5.27E-29	78.645	CS(0.003)DS(0.049)QS(0.948)LEG/	3	-0.42775	8474.1	8330.3
RGD15611	1	7.63E-55	144.95	LQLERPVS(1)PEAQADLQR	3	-0.59863	140760.0	139867.6
Oxr1	0.994392	4.31E-40	122.29	TFVS(0.001)QAS(0.994)AT(0.005)I	3	0.30124	6153.9	7015.8
Clasp1	0.999276	5.14E-07	97.957	SMSTT(0.001)GS(0.999)LQR	2	-0.18796	8338.1	7599.6
Tln1	0.5	0.00101397	59.227	KDEGT(0.5)GT(0.5)LRK	3	1.0692	12817.7	9985.8
Tln1	0.5	0.00101397	59.227	KDEGT(0.5)GT(0.5)LRK	3	1.0692	12817.7	9985.8
Ahnak	0.997172	9.29E-135	179.67	GHYEVT(0.003)GS(0.997)DDEAGK	3	-0.39053	1190318.0	1159987.4
Fbn2	0.711074	2.36E-10	48.286	GQYLS(0.003)VDS(0.275)EAEDDEN	4	0.30233	6417.9	7269.9
Vps45	0.98097	9.39E-11	65.423	GS(0.003)DLFS(0.981)PKDAVAIT(0	3	-0.49508	9210.6	9030.2
Map1a	0.999311	4.02E-21	112.03	S(0.999)APCGS(0.001)LAFSGDR	2	-0.054137	19833.1	17141.5
Ahnak2	0.506114	3.07E-37	104.81	GDLKT(0.494)PDVS(0.506)IQLPSAI	4	-0.49727	14604.4	16034.7
Pacs1	0.990375	3.03E-32	93.876	ADLQGS(0.003)AS(0.99)PS(0.007)I	4	-0.32769	78530.8	79078.8
Zdhhc8	0.984731	0.0390439	48.423	S(0.985)PS(0.008)Y(0.002)S(0.004	2	1.2616	27729.8	30947.3
Plcb3	0.999893	2.64E-40	124.69	TSLEPQKS(1)LGEEGLNR	3	-0.39833	131814.9	115603.9
Kank4	0.930102	4.63E-10	61.039	QS(0.062)Y(0.008)PS(0.93)PEEPAL	3	1.6774	18840.8	18138.6
Map4k4	0.556234	8.47E-05	66.267	S(0.007)HS(0.433)FS(0.556)DPS(0.	3	-1.5836	19567.1	19988.0
RGD15635	0.689568	0.000309644	80.69	T(0.02)ES(0.145)PT(0.145)FQVS(0	2	-0.70237	10463.5	10246.5
Scd2	0.985359	0.0404771	42.031	TGEES(0.014)CKS(0.985)G	2	0.5887	6224.5	6198.1
Pald1	0.936687	2.94E-12	66.536	MGRS(0.937)DAT(0.063)PEHYLV(	3	1.8217	17032.7	20243.6
Rnf6	0.57868	7.63E-05	49.595	EHGQQRPS(0.579)S(0.421)PVAR	3	0.40069	2141.2	2000.3
Nadk	0.700211	0.000872749	47.639	S(0.03)LS(0.7)AS(0.06)PALGS(0.15	2	-0.1251	12056.8	10424.0
Dzank1	0.826571	0.00260337	62.799	S(0.827)LT(0.104)S(0.065)T(0.004	2	-0.64781	6328.1	7645.3
Rhbdf2	0.848168	0.00617988	69.65	S(0.848)IS(0.093)S(0.037)T(0.022)	2	0.1271	7907.9	8443.1
Dpysl3	0.835335	6.42E-68	117.9	GMYDGPVFDLT(0.28)T(0.832)T(0.	3	0.68609	231856.9	243153.1
Eif4b	0.640944	9.27E-24	92.551	S(0.003)QS(0.103)S(0.592)DT(0.30	3	0.14943	41210.7	45350.8
Ahnak2	0.880151	0.00274181	48.284	LPS(0.12)LHWS(0.88)PK	3	-0.52962	1841.0	1637.7
Tbc1d1	0.609565	1.44E-06	80.632	LNPS(0.001)AS(0.39)S(0.61)PNFFK	2	0.49401	7518.5	8206.1

165221.8	176444.5	196085.5	163210.0	0.1	0.3	668
13647.6	14584.4	15268.8	13796.0	0.1	0.2	1923
11672.7	11419.8	12713.7	12983.0	0.1	0.2	121
2950.4	2929.6	3636.2	3125.2	0.1	0.4	366
17968.0	20325.1	20685.7	19707.0	0.1	0.2	17
20582.7	25470.7	23000.4	21771.0	0.1	0.3	228
14032.0	13907.9	12977.6	13719.0	0.1	0.4	39
8315.8	8846.8	8947.1	9093.4	0.1	0.0	787
137317.5	149000.5	161311.8	137050.0	0.1	0.2	926
7076.2	7511.7	7830.1	6329.5	0.1	0.4	575
8582.8	9039.7	8921.7	8286.5	0.1	0.2	594;594
9933.4	11422.0	12512.8	11109.0	0.1	0.5	142
9933.4	11422.0	12512.8	11109.0	0.1	0.5	144
1339106.7	1301912.3	1390305.7	1257300.0	0.1	0.3	5522
8784.9	7313.7	8167.6	8575.8	0.1	0.5	2751
8018.6	8615.7	11318.0	8177.7	0.1	0.6	441
19615.0	19807.0	19000.5	21776.0	0.1	0.3	2395
18808.0	18252.7	18464.0	16221.0	0.1	0.5	1032;855
79420.2	89470.7	82515.3	81779.0	0.1	0.1	493
33345.7	37087.3	30772.7	30660.0	0.1	0.5	679
119197.3	133392.1	130299.7	128810.0	0.1	0.2	537
19617.1	19587.0	21495.8	19510.0	0.1	0.2	470
19744.9	20722.1	22661.7	20108.0	0.1	0.1	584;615;615
9481.7	11448.4	10628.3	10250.0	0.1	0.2	407
6070.1	6877.3	6175.3	6748.2	0.1	0.1	357
20908.5	20734.2	19217.4	22351.0	0.1	0.4	87
1903.6	2273.7	2037.4	2161.9	0.1	0.2	182
10933.9	11991.8	12016.9	11773.0	0.1	0.2	80
6703.2	7388.4	7154.5	7598.5	0.1	0.3	212
8098.0	8783.0	8580.5	8817.7	0.1	0.0	355
214291.1	245676.0	261539.9	230920.0	0.1	0.3	622
47142.3	47833.9	49076.4	46267.0	0.1	0.2	506
1622.3	1673.9	1690.1	2098.5	0.1	0.5	5355;6726
7680.6	8557.6	8496.7	8009.7	0.1	0.1	438

Spata33	0.973732	4.05E-13	65.207	AS(0.974)NET(0.026)LISYGIPDSDE	3	0.63364	3059.6	3834.2
Myo9a	0.787049	0.000403549	51.463	IS(0.148)S(0.787)PS(0.051)T(0.012)	3	-0.15457	21213.0	20548.5
LOC10036	1	2.40E-06	83.204	TGPVAVAS(1)LRR	3	0.59039	4039.6	3723.5
Gigyf1	0.975728	0.00426998	54.343	S(0.024)QS(0.976)WDDRGER	2	-0.83065	3142.8	3563.4
Add1	0.971069	2.40E-30	128.59	GDDASEEGQNGS(0.971)S(0.029)P	2	-0.51172	68612.5	67215.7
LOC69138	0.634763	0.000699834	49.448	S(0.002)AGS(0.224)PS(0.635)S(0.1	2	0.068729	3403.4	2423.3
Rnf1112	0.982214	3.41E-08	57.045	S(0.001)PT(0.004)S(0.013)DDIS(0.!	3	1.0819	6082.9	7939.5
Slc9a1	0.790323	2.17E-07	45.042	SKEPSS(0.001)PGT(0.006)DDVFT(C	4	0.090128	33121.9	34987.2
Pawr	1	0.000323012	44.998	GDEEEPDS(1)APEKGR	3	-0.38907	6199.8	7261.2
LOC69138	0.999816	1.65E-88	141.98	S(1)VEDVRPHHVDTNSQSACFDVID	4	-0.5473	89170.7	88619.7
Plcb3	0.809868	3.33E-07	66.022	HRPSTGVPDS(0.81)S(0.19)VR	3	0.69468	11733.7	13429.5
Rfx3	0.952484	5.82E-30	118.55	AS(0.952)PAT(0.048)IEMAIETLQK	3	1.6123	4615.0	3993.1
Ccdc91	0.724042	4.26E-43	91.655	LSPAS(0.004)PELILDHDRS(0.212)S	4	1.8688	3276.8	3065.9
Gjc3	0.996141	3.72E-29	118.31	DTT(0.004)DDLS(0.996)VVETKEPF	3	0.22656	339794.4	351813.5
Pirt	0.504984	0.000281762	41.115	DLLPS(0.017)QT(0.309)AS(0.505)S	3	-1.5425	3277.4	3936.3
Ldb3	0.865341	1.62E-31	86.987	DPSLDTNS(0.005)S(0.022)LAT(0.0:	3	-0.5689	7068.2	7638.4
Prkar2b	0.969393	1.66E-21	85.203	TWGDAGAAAGGGT(0.969)PS(0.03	2	-1.1155	27509.2	25061.2
Hnrnpm	1	0.0059463	70.412	MGANS(1)LER	2	-0.019536	19537.3	18303.1
Pex5l	0.768388	0.0384988	63.076	KSES(0.046)S(0.186)S(0.768)K	2	-1.048	3025.9	3178.7
Ckmt1b	0.994366	2.91E-24	98.062	LGYILT(0.006)CPS(0.994)NLGTGLR	3	-0.74076	3696.1	4584.8
Dlg2	0.930108	9.77E-05	49.216	T(0.006)S(0.006)LPPIS(0.072)PGR	3	0.64449	14313.3	12049.6
Shank3	0.970856	0.000761274	45.82	GDQPAAS(0.971)PGPT(0.029)LR	2	-1.2241	10699.8	10542.8
Sptan1	0.740364	6.02E-09	96.247	LGES(0.257)QT(0.74)LQQFS(0.002	2	0.56346	27779.9	24940.6
Ppm1b	0.999998	2.16E-20	115.8	HTESGPAELDS(1)PK	2	-0.14592	44919.9	47125.7
Gramd1b	0.91581	1.74E-26	81.144	GSDHS(0.013)S(0.057)DKS(0.916)I	3	0.75959	19496.7	18774.8
RGD13075	0.723869	2.73E-17	96.78	APS(0.724)PS(0.276)ESSASCTSK	3	-0.53586	10863.6	11699.7
Cep170b	1	1.89E-09	74.89	RKPVAPPPS(1)PAAR	3	-0.39825	13981.8	15572.9
Hmbox1	0.806731	0.00138984	42.257	ENS(0.037)DRLS(0.807)T(0.118)S(I	3	-1.6984	15396.3	14424.4
Prkag2	0.82745	3.06E-10	91.093	IYAS(0.007)S(0.165)S(0.827)PPDT	2	-0.32296	27570.0	29263.5
Dapk2	0.65957	5.80E-28	148.57	NCES(0.34)DT(0.66)EENIAR	2	-0.653	23169.0	19993.5
Trpm7	0.90188	1.83E-07	56.882	KPS(0.094)VVNT(0.902)LS(0.002)S	3	-1.0309	5483.2	5027.7
Anks1a	0.999926	1.54E-10	64.454	RRHDS(1)LHDPGTTSR	4	-0.20649	7851.4	7308.3
Spg20	0.744637	6.13E-07	58.712	QSS(0.001)S(0.004)S(0.014)GS(0.2	2	0.48819	4821.9	4434.6
Rbm14	0.99024	0.00693611	82.645	T(0.01)RLS(0.99)PPR	2	-0.41789	84417.9	80692.3

3721.9	3911.9	3623.3	3833.0	0.1	0.4	91
21742.1	22083.9	21641.1	24283.0	0.1	0.2	1359
4190.8	3880.5	4933.4	3987.9	0.1	0.5	1878
2821.7	3008.2	3656.2	3539.9	0.1	0.5	157
68651.3	74348.5	68657.2	76001.0	0.1	0.1	464;464
3385.8	2905.1	4262.7	2699.3	0.1	0.7	189
6629.1	9185.0	6177.8	6757.4	0.1	0.7	14
32450.3	38065.2	33238.0	36411.0	0.1	0.2	784
7252.8	7176.1	7081.4	7930.3	0.1	0.3	124
91521.9	96102.4	98583.5	93791.0	0.1	0.0	869
13107.9	13216.0	12782.0	14998.0	0.1	0.3	480
4646.2	5116.9	4129.6	4952.1	0.1	0.4	155
2837.5	3525.7	3458.8	2849.8	0.1	0.4	27
383856.7	384435.9	372860.5	394830.0	0.1	0.2	249
4071.0	4252.6	3953.6	3883.2	0.1	0.4	27
7133.4	7165.1	8107.5	8125.0	0.1	0.2	166
26042.2	28861.8	28943.2	26415.0	0.1	0.2	69
17319.6	20278.9	18854.1	19962.0	0.1	0.2	455
3773.5	3286.0	3998.3	3405.7	0.1	0.5	108
4073.7	4552.5	4377.0	4306.6	0.1	0.3	319
14001.1	13698.9	15355.3	14190.0	0.1	0.3	327
11644.0	11556.2	11617.2	12061.0	0.1	0.1	387
28831.6	30683.4	29882.5	26809.0	0.1	0.3	1532
48353.9	46591.0	52746.1	51091.0	0.1	0.2	463
17133.3	19618.9	21372.9	18374.0	0.1	0.3	47
11757.9	11976.4	12952.0	11847.0	0.1	0.1	15;15
15719.4	15206.9	16680.5	16624.0	0.1	0.2	1103
14526.0	17545.5	15417.3	14557.0	0.1	0.3	126
30324.2	29361.2	31743.0	32290.0	0.1	0.2	196
24007.7	21531.7	23597.8	26847.0	0.1	0.5	346
6135.1	5635.9	6250.3	5951.1	0.1	0.3	1296
6170.2	7139.7	9518.2	6198.7	0.1	0.7	344
4764.2	4399.9	5349.6	5274.6	0.1	0.4	378
88054.4	89611.5	94692.5	86981.0	0.1	0.1	582

Dnmbp	0.956877	1.93E-30	126.77	S(0.957)LHS(0.039)EVLGY(0.005)P	2	1.0172	24414.1	24115.7
LOC69138	0.87701	0.000627954	69.346	S(0.005)LPT(0.877)PT(0.118)DER	2	-0.43295	16753.6	15095.7
Pip5k1c	0.938755	9.23E-43	91.1	GALLAVKPLGPT(0.009)AAFS(0.939)	4	1.7486	28475.2	25266.3
Tfap4	0.799122	5.86E-05	62.162	FIQELS(0.001)GS(0.2)S(0.799)PK	3	-1.8914	2990.8	3307.3
Akap12	0.835343	7.65E-60	140.45	EMCVSGGDHT(0.14)QLT(0.835)DL	3	-0.52645	111414.2	114057.2
Ahnak	1	0.000792088	42.314	IS(1)MPDVDLELKGPK	3	0.49875	4817.6	4559.1
Psip1	0.972325	3.65E-94	152.23	QVDTEEAGVVT(0.972)AAT(0.025),	4	-0.16299	74361.2	68513.3
Rab11fip1	0.90444	0.00355524	80.834	RLS(0.904)DS(0.087)S(0.002)T(0.0	2	-0.47777	47721.5	47388.9
Synm	0.998776	0.0366259	52.49	S(0.001)VAS(0.999)DEKK	2	-0.27605	6581.7	6224.2
Pds5a	0.99208	1.81E-101	158.65	SAGTETGSNINASS(0.001)ELS(0.99	3	-0.91104	9022.0	8895.1
Rab11a	0.900385	1.49E-10	50.413	ENDMS(0.9)PS(0.1)NNVVPIHVPPT	5	-0.32768	5641.5	4872.9
Akap10	0.999903	6.35E-05	86.288	ASIAVHS(1)PQK	3	-0.27586	26634.9	26615.5
Dtna	0.998408	1.60E-09	73.834	S(0.998)APDVS(0.002)FTIDANK	3	-0.022426	2864.6	2892.1
Kif7	1	1.36E-06	86.729	AGVRPGS(1)PPDR	3	1.2828	13563.2	12249.2
Cep170	0.710829	2.84E-06	63.185	S(0.024)KT(0.711)S(0.228)PVAS(0.	2	0.30805	6107.4	5920.8
Fry	0.5309	1.13E-45	102.39	S(0.449)T(0.531)GQLNVS(0.019)P	3	1.2595	21205.8	22083.1
Sipa111	0.941	2.15E-14	120.21	T(0.016)LS(0.941)DES(0.043)IYSSC	2	-0.77736	24045.6	25852.1
Ssfa2	0.999503	4.47E-07	88.768	ASVALTPTAPS(1)R	2	1.2284	11582.3	11296.0
Pom121	0.671733	0.00130714	46.88	S(0.672)QT(0.328)PERPAKK	4	-0.97037	16314.7	16233.2
Srgap3	0.583633	0.000288127	41.31	MAT(0.017)FGS(0.584)AGS(0.387)	4	1.2186	9526.8	10342.4
Ralgapa1	1	0.0667003	54.982	NMT(1)LAGR	2	0.13791	6048.9	6647.6
Ahnak	0.858563	1.77E-50	156.1	LS(0.017)S(0.859)S(0.118)S(0.005)	2	-0.41079	144839.0	140306.4
Armc9	0.999938	3.77E-09	120.63	RPAS(1)PASSTR	3	0.070464	12524.3	11425.5
Grip1	0.605133	1.17E-31	76.573	KLPIPS(0.223)HS(0.605)S(0.172)DI	6	-0.2731	16034.4	18085.9
Apc	0.893065	1.08E-30	89.272	S(0.062)GRS(0.893)PT(0.012)GNTI	3	-0.9123	44683.7	42283.9
Pank2	0.917098	1.18E-06	52.359	RRAS(0.917)S(0.083)AAPSESGPAE	3	-0.4025	5562.3	5686.1
Dusp16	0.999907	5.84E-05	75.088	S(1)WHEESPFEK	3	0.17131	7847.4	7964.0
Ppp1r9a	0.790926	2.58E-10	58.693	NLPSAPNPLPPS(0.791)PET(0.204)(	4	0.17372	1372.2	1577.9
Svil	0.999965	1.97E-26	109.04	ATGGLHS(1)PEVEQSLK	3	-0.50456	24037.3	26979.7
Nemf	0.999575	1.03E-20	102.29	ESAVHS(1)EADQNTSK	3	2.2963	4697.0	5278.7
LOC100911	0.815569	7.47E-13	72.433	GS(0.13)S(0.816)VES(0.05)LPPT(0.	3	2.1486	18178.8	18000.4
Dock7	0.999699	2.68E-13	103.79	SAVRPAS(1)LNLNR	2	0.55447	18222.9	14929.0
Matr3	0.999991	5.52E-18	107.73	RRT(1)EEGPTLSYGR	4	-0.11228	18095.3	16599.6
Ubxn6	0.99452	6.85E-21	110.32	GPTS(0.005)QDS(0.995)IRNQVR	3	0.072677	15130.3	19734.6

26184.9	27451.7	25788.5	26824.0	0.1	0.1	1469
16908.6	17230.9	17222.3	17798.0	0.1	0.1	897
28290.7	28741.9	30136.8	29034.0	0.1	0.2	475
3277.6	3209.4	3823.0	3229.9	0.1	0.4	64
128534.2	127716.3	127585.4	124090.0	0.1	0.2	466
4685.6	5271.7	5396.2	4403.1	0.1	0.4	4543
67250.2	78373.2	83477.1	63349.0	0.1	0.5	166
46511.0	57043.9	48062.3	46678.0	0.1	0.4	386
6750.0	7273.9	6943.9	6741.6	0.1	0.1	1535;1233
9699.1	9843.3	10264.2	9491.4	0.1	0.1	1145
5645.6	5126.9	6287.6	5906.6	0.1	0.4	190
23380.6	29179.7	27795.4	25162.0	0.1	0.3	37
2806.8	3126.1	3089.8	2963.1	0.1	0.0	475
13090.8	13788.0	14047.3	13865.0	0.1	0.1	655
6861.7	6648.8	6500.9	7098.6	0.1	0.3	1130
19949.3	23551.2	21769.3	22467.0	0.1	0.1	1955
26600.1	26532.1	26917.0	28553.0	0.1	0.1	1603
11274.6	12600.0	11480.4	12531.0	0.1	0.1	1157
16969.3	17356.3	18636.1	17090.0	0.1	0.1	419
10757.1	10753.3	11695.2	10384.0	0.1	0.2	895
5661.8	5744.5	7546.1	6390.2	0.1	0.5	610
155129.0	153939.4	171976.9	146080.0	0.1	0.3	5545
11074.4	11742.1	13779.1	12027.0	0.1	0.3	801
17526.1	19285.6	18559.1	17524.0	0.1	0.2	771
41622.2	45579.0	51400.7	40878.0	0.1	0.4	2573
5197.6	5868.5	6400.1	5362.8	0.1	0.3	42
8741.3	8458.7	8818.4	9045.6	0.1	0.1	608
1360.8	1374.2	1391.2	1856.4	0.1	0.6	1111
24779.5	26201.0	26631.7	28432.0	0.1	0.2	1082;714
5992.6	5414.9	5883.7	5821.7	0.1	0.4	842
19478.7	20047.9	20905.9	18720.0	0.1	0.2	375
15834.4	16273.9	18559.1	17688.0	0.1	0.4	888
16670.2	18628.9	17522.6	18920.0	0.1	0.1	150
18372.5	20499.9	18296.3	18283.0	0.1	0.5	161



Fhod3	1	0.00156959	73.841	RHS(1)IQNIK	3	-0.10087	8302.4	7115.0
RGD13071	0.981902	1.87E-06	40.086	GS(0.004)IY(0.001)HS(0.982)VEGP	4	0.83163	2243.8	3580.0
Gpr158	0.836893	6.56E-07	41.086	QTSSS(0.001)VDIIPGS(0.025)CIS(0	4	-1.1329	10144.6	10949.6
Map1b	0.976823	5.69E-30	119.45	DLTT(0.002)S(0.02)S(0.977)VEKDN	4	0.15201	87225.4	82262.0
Cdk14	1	2.63E-10	88.561	VHS(1)ENNACINFK	3	0.87424	64430.9	62552.7
Rab11fip5	1	6.06E-07	74.424	RGS(1)VGEK	3	-0.53982	36095.3	35045.3
Sept9	0.999349	8.54E-33	110.44	S(0.999)FEVEEIEPPNS(0.001)TPPR	3	-0.020483	106272.5	105754.7
Sorbs2	1	4.81E-15	135.56	S(1)EPAVGPPR	2	-0.097757	149514.3	154708.9
Synrg	0.994692	1.39E-114	115.53	ADDKYEALREEGS(0.995)PGALS(0.(	4	0.31251	84376.1	82015.2
Lmod1	0.960095	0.00263393	101.38	EMS(0.04)VDES(0.96)K	2	-0.46739	25594.9	19988.0
Pex5l	0.92905	1.97E-27	104.18	RMS(0.929)KS(0.07)PVDS(0.001)S	3	0.28102	46484.7	44262.7
Ahnak	1	2.14E-07	43.164	MEGPGVDIDS(1)PDVNIEGPEGK	3	-1.4594	8515.7	8518.4
Fndc3b	0.997796	2.82E-08	115.12	LNS(0.998)PPS(0.002)TIYK	2	0.39687	21637.6	19026.0
Fnip1	0.997931	2.19E-22	87.647	SAS(0.002)FFAVHS(0.998)NPMDM	3	-0.83991	3689.9	3261.3
Arl2	0.999957	1.84E-09	52.359	QDLPGALS(1)CNAIQEALDSIR	3	1.9246	2940.7	2789.8
Wwc2	0.700787	0.00147655	66.267	S(0.031)QT(0.268)FS(0.701)PGER	2	0.31996	52686.6	54756.9
Zdhhc5	0.777081	7.02E-12	62.648	S(0.005)EPS(0.072)LEPES(0.072)FF	3	0.56878	62222.1	57952.2
Tbc1d10a	0.5	4.73E-56	135.3	AILDAEPGPRPALQPS(0.5)PS(0.5)IF	3	0.11351	21308.4	20676.8
Prpf40a	0.903849	3.76E-07	69.258	S(0.003)DS(0.046)PES(0.904)DT(0	2	1.2704	16736.9	17788.7
Fgf13	0.998912	4.28E-10	124.38	S(0.999)VS(0.001)GVLNGGK	2	0.32576	41617.4	37489.3
Mapt	0.999901	4.60E-25	99.663	IGS(1)LDNITHVPGGGNK	4	-0.99447	18317.2	19072.1
H2afx	0.99919	0.00288858	80.688	ASQAS(0.999)QEY(0.001)	2	-0.19308	12198.7	12196.6
Hspb1	0.999728	4.68E-13	74.987	AQIGGPES(1)EQSGAK	3	-1.1605	15075.5	14584.6
Atf2	0.815036	2.03E-38	77.445	IEEPS(0.001)VVET(0.091)T(0.091)I	4	0.8068	7571.7	7497.5
Ssbp3	0.988014	5.65E-16	69.639	NS(0.682)PNNIS(0.259)GIS(0.07)N	2	-0.15483	5223.6	5168.4
Mprp	0.776858	4.59E-07	64.249	S(0.185)KS(0.777)LKEGLT(0.038)V	3	1.6903	106859.3	111665.9
Caap1	0.499996	4.24E-08	58.246	SVNEILGLVES(0.5)S(0.5)PKEPK	3	0.83646	17225.9	17060.3
Ccdc177	0.507546	5.01E-19	70.959	S(0.034)FS(0.442)LGDLS(0.508)HS	3	-1.2076	29842.0	27234.2
Atxn2	0.763789	1.57E-08	120.55	AS(0.01)ET(0.764)S(0.221)PS(0.00	3	-0.19626	64113.7	60041.8
Ptk2	0.781455	7.35E-48	87.948	QATVSWDSGGSDAPPKPS(0.219)	4	0.3667	39991.7	36562.4
Ppp1r12b	0.920924	3.05E-09	59.359	NRKS(0.921)QS(0.347)DS(0.359)P	4	-0.0896	38683.4	43608.9
Enah	0.581703	3.30E-10	49.967	KVS(0.39)RVEDGS(0.582)FPS(0.01	3	-0.73869	10419.8	12041.9
Hn1	0.556955	4.77E-10	63.447	S(0.006)NS(0.086)S(0.091)EAS(0.5	2	-0.71236	13781.4	12579.4
Nsrp1	0.847447	5.83E-24	93.804	ES(0.153)S(0.847)PRPRPEDLLDQ	3	-1.3802	9761.7	11198.4



8235.2	8707.0	8079.2	8573.4	0.1	0.3	367
2542.9	3076.6	3358.3	2535.8	0.1	0.7	1436
10703.9	11281.2	11458.0	11355.0	0.1	0.0	735
84580.5	91558.4	95015.3	85842.0	0.1	0.1	1848;1722
60189.5	68387.8	65722.7	66582.0	0.1	0.0	95
34609.4	38343.5	38502.2	36543.0	0.1	0.0	477;477
115598.8	115825.8	121216.3	114250.0	0.1	0.1	12
149656.7	169503.8	159805.0	157370.0	0.1	0.1	354
91379.3	96545.7	91438.5	88419.0	0.1	0.2	815
22934.5	25470.7	20277.5	27722.0	0.1	0.6	89
44112.4	49584.0	50421.8	44608.0	0.1	0.2	421
8336.0	7912.1	9441.3	9852.0	0.1	0.4	4123
23484.9	23390.6	22266.3	23133.0	0.1	0.3	208
3849.9	3545.1	4034.7	4002.9	0.1	0.3	238
2714.5	2725.3	3302.5	3028.3	0.1	0.3	134
50395.9	57928.3	57214.1	54125.0	0.1	0.1	824
64825.0	66726.9	69742.9	61931.0	0.1	0.2	409
21187.4	20779.3	24428.1	22546.0	0.1	0.2	409
16379.5	18148.2	17290.7	19158.0	0.1	0.1	805
37677.7	44348.2	38549.2	42357.0	0.1	0.3	175
21695.3	20870.6	22282.3	20219.0	0.1	0.3	570;685
11651.4	12611.0	13281.1	12771.0	0.1	0.0	140
13276.1	14486.5	16648.4	14918.0	0.1	0.3	200
9133.4	8562.4	8330.0	9067.3	0.1	0.4	118
5377.5	6135.5	5407.2	5371.7	0.1	0.2	299
92995.4	108857.5	130684.5	94598.0	0.1	0.6	2383
17495.3	17729.2	19044.3	18769.0	0.1	0.0	308
25923.0	29742.9	31973.8	27314.0	0.1	0.3	304
55108.0	63419.3	67612.0	61268.0	0.1	0.2	542
39300.2	43136.0	41492.2	39651.0	0.1	0.1	722
41594.5	43111.8	47689.3	42095.0	0.1	0.3	17
12310.5	12468.0	13419.0	11415.0	0.1	0.4	625
16380.6	14825.3	14102.9	16927.0	0.1	0.5	86
10801.9	11134.9	11702.7	11239.0	0.1	0.2	447

Dhx57	0.928963	3.03E-05	51.643	VPLQT(0.005)LHMT(0.929)S(0.066)	3	-1.0282	4736.2	5270.1
Nacad	0.940772	2.92E-10	87.088	QRVS(0.793)LS(0.266)PHS(0.941)F	3	-0.13451	55793.5	58831.9
Apc	0.992377	7.70E-53	124.08	T(0.001)EHNS(0.992)PS(0.007)SEA	4	-1.9183	20272.0	18386.5
Pacs2	0.738991	0.0236509	47.603	T(0.261)RS(0.739)LGGK	3	0.92558	5336.9	4718.2
Eno1	1	0.0186561	43.308	S(1)FRNPLAK	3	0.63528	2471.4	2187.5
Esyt2	0.845708	7.80E-31	126.63	S(0.002)S(0.002)S(0.096)S(0.846)I	3	0.34162	107750.2	103134.1
Map1b	0.911948	4.40E-15	81.807	EDT(0.015)KMS(0.912)IS(0.073)EC	3	1.0884	28856.9	30766.3
Prx	1	0.0088159	78.516	FAIS(1)LPR	2	0.094446	40943.5	42741.3
Crybg3	0.653648	7.72E-25	99.409	KAS(0.273)LDS(0.654)PT(0.06)T(0.	3	-1.6438	20654.8	15917.3
Arhgap31	0.996101	0.00114818	89.382	LS(0.002)T(0.996)PQES(0.001)PR	2	1.145	74515.0	77417.0
Rptor	0.839443	0.00073912	68.536	SVS(0.16)S(0.839)YGNIR	2	1.7789	12680.6	12426.9
Dst	0.991473	7.59E-09	104.81	RPS(0.991)S(0.009)GNASYR	3	-0.46846	8795.8	9179.3
Rrbp1	0.99888	5.88E-13	138.99	KS(0.001)EGS(0.999)PNQGK	4	-0.16875	420789.2	427039.9
Map2	0.499999	2.52E-12	67.418	GLS(0.5)S(0.5)VPEVAEVETTTK	3	-1.4403	5175.0	6763.0
Ncor1	0.945562	5.95E-15	83.37	S(0.946)PGS(0.048)IS(0.006)YLPSF	3	-0.17445	17460.8	16189.4
Ahnak2	0.990154	1.78E-111	153.39	QPEDQSTDAET(0.99)PT(0.01)QAA	3	0.082296	279051.2	282707.9
Flna	0.99958	3.77E-167	168.75	RAPS(1)VANVGSHCDLSLK	3	-1.7583	219131.0	221489.0
Ap2a1	0.933527	0.004434	109.11	ES(0.066)S(0.934)ILAK	2	0.38351	22838.6	22806.0
Mex3c	0.962174	2.52E-06	73.632	RGS(0.962)QPS(0.035)T(0.003)PR	3	0.81022	5861.8	5487.6
Spata13	0.866731	0.000444489	66.56	T(0.004)S(0.004)S(0.124)S(0.867)\	2	1.0891	5146.4	4580.7
Kif5a	0.914608	5.31E-48	106.39	PVRPGHY(0.004)PAS(0.915)S(0.07	3	-0.18518	18353.0	17947.7
Epb41l3	0.98016	0.00408908	79.311	RLS(0.98)T(0.019)SPVR	2	-0.42815	18225.3	18099.1
Ina	1	0.00862234	66.56	GANES(1)LER	2	0.10662	7628.0	7479.6
RGD15620	0.653929	4.01E-06	47.223	RTEQS(0.048)QLPKPGT(0.654)S(0.	4	-0.073094	10564.5	11516.5
Tmem123	0.999908	0.013187	41.227	YRS(1)IDEHDAII	2	1.0532	6704.4	7741.8
Socs4	0.996579	0.0137146	54.722	S(0.003)RS(0.997)ADRK	2	0.68222	15689.7	16579.9
Snca	0.999942	1.01E-07	58.564	T(1)VEGAGNIAAATGFVK	3	0.23578	3003.9	2723.5
Palm	0.866521	0.00528019	72.582	S(0.867)LEES(0.131)IT(0.002)R	2	-0.2732	7934.4	6989.9
Stk38	0.553863	2.98E-20	67.367	QLAFS(0.44)T(0.554)VGT(0.006)PI	4	1.0128	5638.0	5154.6
Tdrkh	1	0.0296092	45.368	KQPIS(1)VR	3	0.16976	7384.0	7877.4
Bod111	1	0.00311816	82.645	ALS(1)ENEK	3	0.10312	38822.9	39654.6
Clip2	0.999952	1.40E-29	116.6	RYS(1)LIDPASAPELLR	3	-0.38652	9435.3	9643.0
Ring1	0.999317	4.60E-24	99.414	TPQEAIMDGT(0.001)EIAVS(0.999)	3	-0.44519	15655.1	15214.2
Mtmr4	0.737331	1.05E-15	88.565	T(0.117)S(0.145)S(0.737)DPNLNN	3	-0.87232	4731.2	4384.6

4777.7	5347.7	5253.2	5261.5	0.1	0.1	108
52594.4	61226.0	61682.1	56512.0	0.1	0.2	1162
19375.4	19974.2	22025.8	20268.0	0.1	0.2	1109
4824.0	5298.4	5404.2	5262.0	0.1	0.1	359
1965.8	2075.2	2764.3	2268.5	0.1	0.6	427
115726.6	114791.8	117561.5	118100.0	0.1	0.1	669
31995.7	30547.0	32818.1	34942.0	0.1	0.2	1513;1387
42071.5	38002.5	52649.9	44285.0	0.1	0.5	903;903
20055.7	19312.0	20666.5	20785.0	0.1	0.4	1120
81371.7	80309.2	84874.9	85162.0	0.1	0.1	615
11013.7	12420.7	13622.0	12718.0	0.1	0.2	722
8920.3	9913.8	9183.7	9763.6	0.1	0.1	140
420778.4	443921.7	476764.8	440700.0	0.1	0.1	615
6363.0	7090.1	6661.3	5888.4	0.1	0.5	1105;1019
18745.2	17871.0	21034.1	17324.0	0.1	0.4	2159
288294.4	305106.8	307598.5	299550.0	0.1	0.0	544;544
236446.3	243047.1	224671.7	258900.0	0.1	0.2	2144
23643.6	24225.5	26023.6	24111.0	0.1	0.1	611;610
5582.8	6455.2	5907.2	5809.2	0.1	0.1	342
5012.7	4754.7	5784.8	5279.4	0.1	0.4	342
19157.2	21143.4	19524.1	18851.0	0.1	0.2	930
18444.9	19231.7	19487.8	20061.0	0.1	0.0	776;758;798;582
7621.5	8196.5	8556.4	7641.1	0.1	0.1	335
10214.6	10917.9	13192.4	10551.0	0.1	0.4	972
7767.0	11162.4	6482.4	6196.0	0.1	0.8	186
14002.2	16251.9	18437.3	14974.0	0.1	0.4	20
3382.4	3277.7	3280.6	3219.4	0.1	0.3	81
8083.7	9015.3	7775.1	7905.0	0.1	0.3	83
4523.6	5155.3	5743.4	5540.9	0.1	0.4	21
8601.1	8315.5	9251.1	8046.3	0.1	0.3	219
41650.9	42965.5	43134.7	42840.0	0.1	0.0	1242
9073.9	9874.3	10376.7	9966.5	0.1	0.0	939
15353.2	15453.3	18628.6	15532.0	0.1	0.3	38
4711.1	4823.8	5305.5	4712.4	0.1	0.2	629

Hadh	0.731544	3.53E-10	82.925	S(0.114)MS(0.732)S(0.149)S(0.005	3	0.44116	24359.3	24588.4
Ppp1r3d	0.996682	0.000330633	71.153	S(0.004)LPT(0.997)S(1)PERR	3	0.308	17567.0	19720.3
Rab10	0.955725	6.80E-05	68.557	FHT(0.956)IT(0.043)T(0.001)SYR	3	-0.92834	3003.5	3737.4
Prrc2b	0.766577	1.04E-51	124.66	NIISAVSLS(0.011)AS(0.767)PT(0.2	2	-0.92205	9835.3	10707.1
Cetn2	0.992834	0.000825405	80.17	TNMAS(0.007)S(0.993)AQR	2	-0.18095	11874.7	11739.2
RGD13075	0.985426	1.59E-110	141.17	SLSFPILNPALS(0.002)QS(0.012)NC	3	-1.1236	8067.4	8295.3
Apc	0.810787	8.05E-48	116.74	TPAS(0.007)KS(0.811)PS(0.182)EG	3	0.31807	12981.1	14168.8
Rbbp6	0.558321	0.00979433	54.259	S(0.09)NS(0.558)S(0.351)PPRDK	2	-0.1219	3020.5	2680.8
Prkacb	0.76842	0.0135699	41.117	GS(0.232)EVES(0.768)VK	3	-0.31036	21511.2	28104.1
Hivep3	0.902805	1.47E-09	60.621	VLS(0.05)PAGS(0.903)LELT(0.045)	3	0.27432	7202.6	7166.3
Cep170	0.954248	1.59E-06	54.281	LGEAS(0.954)DS(0.046)ELADADK	3	0.093454	15328.3	13845.3
Tmsb4x	0.993952	2.34E-06	61.78	KT(0.006)ET(0.994)QEK	3	0.62891	35009.9	37323.6
Ppfibp1	0.886486	2.19E-13	67.11	GSQGTSPFQMS(0.064)PPS(0.886)	3	-1.1478	17293.9	18013.5
Sowahc	1	2.05E-20	76.78	FCMGES(1)PPLEAALPQQLPR	3	1.0667	8888.8	9600.0
Dmxl1	0.531486	2.66E-06	47.155	ISEAIWLPEEHY(0.245)S(0.047)S(0.	3	-1.9111	6067.5	6029.9
Nf1	0.973917	1.90E-05	120.86	HGS(0.974)AS(0.026)QVQK	2	-0.20988	95756.7	85304.9
Col4a3bp	0.807765	3.87E-30	80.102	S(0.008)PS(0.01)MS(0.175)S(0.808	3	-0.28187	57778.2	59710.6
Dzank1	0.997223	2.82E-13	66.467	LPT(0.001)HQAQS(0.997)PGFAHIT	3	-0.60967	60789.7	62056.9
Caskin1	0.827857	1.68E-15	54.997	T(0.085)GS(0.077)EPS(0.828)PPQ	3	0.95153	9270.5	8623.9
Nefm	0.67897	4.99E-07	56.768	FSTFSGS(0.001)IT(0.035)GPLY(0.6	3	0.30717	4112.7	4800.3
Trim3	0.588604	0.000853418	50.088	RPS(0.411)S(0.589)MYSTGGK	3	0.24171	7159.4	6529.5
Lrrfip2	0.620057	2.03E-14	77.08	NSASAT(0.004)T(0.114)PLS(0.793)	2	0.47586	3670.4	4088.2
Smarca4	0.965675	1.88E-59	165.24	DSEAGS(0.004)S(0.029)T(0.966)PT	2	0.56019	23021.1	20013.2
LOC100911	0.573252	1.38E-119	177.69	S(0.01)S(0.01)S(0.388)GS(0.573)EI	3	-0.23005	10587.2	10316.3
Dennd4b	0.999613	3.21E-06	75.483	S(1)LREPSSPIGR	3	-0.091129	4533.1	4715.3
Fam171a1	0.999997	5.44E-07	76.82	EYHKS(1)VEIFPLK	3	4.398	12754.5	13394.4
Epb4.1	0.96991	1.19E-15	89.859	S(0.03)QVS(0.97)EEEGREVESER	3	-0.63364	11305.9	12780.2
Ssh2	0.855735	3.13E-10	91.518	EMT(0.001)T(0.143)S(0.856)ADQI	2	1.3137	13653.8	12975.4
Tnik	0.772125	6.60E-09	57.046	S(0.001)QGPALT(0.009)AS(0.218)	3	1.1491	19926.1	20822.7
Pak4	1	1.70E-05	116.84	RES(1)PPPPAR	3	0.31373	24429.7	23961.0
Smcr8	0.935904	1.08E-07	57.366	VAS(0.936)PANVGT(0.063)LHT(0.0	3	1.0043	4128.2	5173.1
Syt4	0.885663	1.05E-12	99.752	AGS(0.013)S(0.084)S(0.017)DLEN	2	-0.53175	11442.7	12125.3
Csf1	0.571896	1.56E-19	69.704	TLDSSVGRPEGS(0.572)S(0.428)LA	3	0.94639	5604.9	6495.9
Aatk	0.995462	3.21E-06	53.453	MPS(0.995)LLS(0.005)EAFCDLDR	3	-0.35503	1174.6	1192.8

23455.1	25019.7	27464.1	25234.0	0.1	0.1	13
17480.4	20413.1	19313.6	19065.0	0.1	0.2	57
3475.3	3416.4	3914.1	3636.6	0.1	0.4	73
10856.2	10475.0	11232.5	11999.0	0.1	0.2	226
10957.3	12115.0	11777.5	13220.0	0.1	0.2	19
7181.8	7929.2	8519.1	8827.6	0.1	0.3	500;345
13133.4	15068.3	15447.2	12731.0	0.1	0.3	2159
2639.7	3001.0	2862.0	3091.5	0.1	0.2	1498
23137.9	26887.4	21699.9	29519.0	0.1	0.6	15
7148.6	7793.3	8096.9	7210.6	0.1	0.1	1409
15236.1	16038.5	14942.8	16698.0	0.1	0.2	1164
39191.6	34745.5	48544.2	36448.0	0.1	0.6	23
17553.8	18229.6	19653.4	18871.0	0.1	0.0	559
11272.4	10002.4	11228.2	10723.0	0.1	0.4	82
5732.5	5979.9	6714.7	6448.8	0.1	0.1	918
83458.3	97320.0	92265.6	94425.0	0.1	0.2	2798
58294.5	67362.6	61818.9	59566.0	0.1	0.1	380
59103.6	68090.8	64477.7	62804.0	0.1	0.1	201
9104.7	10199.3	10209.3	8583.6	0.1	0.3	358
4734.7	4983.1	5098.1	4574.1	0.1	0.3	422
7351.0	7678.3	7954.9	6960.3	0.1	0.3	455
3907.1	4201.8	4537.1	3788.2	0.1	0.3	91
23293.3	24720.5	24766.9	21740.0	0.1	0.3	1390
11282.0	10621.4	11791.4	12151.0	0.1	0.2	380
4152.6	4789.2	5053.3	4549.0	0.1	0.2	910
14099.1	13122.5	16401.5	13699.0	0.1	0.4	335
12350.9	12656.1	12999.0	13476.0	0.1	0.1	95
13600.8	14636.1	14257.8	14311.0	0.1	0.0	487
19010.2	23615.0	19961.2	20602.0	0.1	0.3	526
23754.3	25838.1	25806.7	25836.0	0.1	0.0	104
4872.2	4788.5	5354.5	5078.8	0.1	0.4	788
11048.9	13341.4	12072.5	11764.0	0.1	0.2	122
6403.0	5591.8	7345.1	6936.3	0.1	0.5	552
1234.5	1360.3	1169.7	1338.6	0.1	0.2	1155

Dtnb	0.998032	8.83E-26	108.77	SVLDS(0.998)PS(0.002)RLDEEHR	4	-0.60665	5656.4	5320.0
Limch1	0.854461	3.16E-26	78.95	SQMFEGVAT(0.146)VHGS(0.854)P	3	-1.1069	15717.1	17116.3
Arpp21	0.616672	7.50E-07	87.727	AWS(0.022)S(0.299)T(0.617)DS(0.	2	0.010234	9083.2	11338.8
Kif1a	0.999178	0.00787869	78.939	KT(0.001)PS(0.999)PVR	2	0.16174	18374.4	20894.0
LOC68307	0.999972	0.00363622	81.915	S(1)PFASTR	2	0.40557	21634.0	21046.5
Tns1	0.689959	1.70E-49	80.436	QS(0.23)S(0.69)AS(0.078)GYQAPS	5	1.007	6216.2	6734.9
Pdzd2	0.756311	3.97E-46	103.02	KHS(0.006)LPQLLDS(0.756)T(0.06	4	-0.23545	20045.4	17422.3
Cd47	1	1.90E-24	133.86	KAVEEPLNAFKES(1)K	4	0.28588	70247.6	66805.4
Hnrnpa1	0.718639	0.00352476	55.467	S(0.719)GS(0.281)GNFGGGR	2	-0.33521	22331.7	25067.8
Mycbp2	0.816117	1.60E-08	70.197	S(0.025)LS(0.816)PNHNT(0.159)LC	2	-1.4623	5354.8	5886.5
Inpp5f	1	0.0713873	49.715	AVS(1)PFAK	2	-1.2363	3183.1	2835.0
Map1a	1	0.00521807	58.743	EARS(1)ELAK	3	0.85241	7712.7	7901.7
Arhgef11	0.524503	5.88E-21	106.39	QPS(0.525)DT(0.354)S(0.121)ET(0	2	0.34588	19192.6	18894.4
Ncoa1	0.991933	1.20E-17	69.765	INPS(0.001)VNPGIS(0.992)PAHGV	3	1.3938	4420.1	4648.8
Fbf1	0.882632	0.0100919	64.82	ASQVS(0.117)S(0.883)PK	2	-0.51517	12873.8	13035.7
Dhx15	1	0.0527544	58.981	FT(1)DILVR	2	0.67719	7337.7	8253.3
Ppfia1	0.993413	6.33E-12	64.522	QAQS(0.993)PAGVS(0.005)S(0.00	3	-1.0076	6572.0	7643.1
Scaf1	1	0.00855016	46.282	S(1)AS(1)PGPPPAR	2	0.50626	7323.9	7992.1
Tpd52	1	8.98E-22	109	S(1)FEEKVENLK	4	-0.7391	376850.9	362311.0
Synj1	0.539655	1.06E-15	64.27	S(0.036)RS(0.54)S(0.416)QS(0.009	3	0.022446	5043.8	5511.8
Clasp2	0.984917	8.38E-31	129.82	S(0.015)RS(0.985)DIDVNAAAGAK	2	-0.086407	138672.8	136039.4
Tmem131	1	0.00151704	66.692	AAS(1)LPGK	2	-3.3664	16965.9	17781.0
Wdr20	0.524125	0.00329386	42.718	NHS(0.348)MGHIS(0.524)S(0.128)	3	-0.031417	21250.0	19461.5
Bag3	0.998678	5.28E-05	68.563	ATS(0.001)PFRS(0.999)PVR	2	0.28476	52475.5	53374.8
Ythdf3	0.887502	5.38E-22	87.411	GS(0.888)VGIGGS(0.112)AVPPPII	3	1.2992	10444.1	11310.3
Plec	1	2.27E-08	113.69	QIT(1)VEELVR	2	3.4319	133401.2	119267.5
Map4	0.958957	0.0193784	51.059	T(0.003)S(0.003)T(0.036)S(0.959)T	3	-0.07859	22595.3	22598.6
Dync1li1	0.671131	0.00277458	40.622	KPAS(0.002)VS(0.014)PT(0.17)T(0.	3	1.2304	7337.5	7626.3
Aes	0.999997	5.95E-33	110.6	NGHDGDTHQEDDGEKS(1)D	4	0.055319	21734.2	19774.1
Wnk2	0.804642	0.0142752	43.761	KGT(0.805)FT(0.195)DDLHK	3	-0.69941	12288.2	11017.4
Dennd4a	0.594038	4.36E-07	43.306	EGSQET(0.001)LAHS(0.051)S(0.16	4	1.651	4069.1	3923.3
Lmo7	0.557694	1.35E-17	98.227	S(0.558)RS(0.345)T(0.092)T(0.005	4	-0.97455	11353.5	11880.7
Kcnb1	1	0.000246748	45.614	VQDNHLS(1)PNKWK	4	-0.80667	10324.1	9782.1
Ciapin1	0.70904	1.22E-14	80.585	KS(0.709)S(0.709)S(0.582)VKPVVE	3	-0.47091	27653.5	26565.1

5199.5	5259.3	5810.5	6304.6	0.1	0.3	364;364
16571.2	19416.5	17167.8	16481.0	0.1	0.3	444;435
8755.6	10462.6	9807.1	11070.0	0.1	0.5	364
17505.9	19485.8	20822.5	20673.0	0.1	0.3	1556
21472.8	23637.0	24463.4	20807.0	0.1	0.2	32
6241.6	7076.6	7211.5	6327.1	0.1	0.2	1493
16693.6	18008.5	21738.4	18430.0	0.1	0.4	499
73616.8	69530.7	81178.5	75582.0	0.1	0.3	299
22951.6	25393.7	25635.7	24539.0	0.1	0.1	197
5547.4	6915.4	6147.9	4970.4	0.1	0.5	2864
3129.1	2764.4	4146.7	2914.7	0.1	0.6	1067
6913.8	7956.4	8247.5	7995.6	0.1	0.2	588
18255.4	19469.3	20925.1	20128.0	0.1	0.1	35;74
5193.2	5308.7	5173.5	4838.1	0.1	0.3	395
14324.8	15379.6	14238.6	13602.0	0.1	0.2	345
7554.5	7772.4	8154.0	8937.5	0.1	0.3	147
5983.7	7260.8	7376.5	7061.2	0.1	0.4	150
7972.8	8212.6	8452.0	8353.5	0.1	0.1	493
358475.6	397217.4	413511.8	368430.0	0.1	0.1	198
5122.2	6356.7	6113.6	4372.9	0.1	0.6	1273
145760.1	150012.5	150945.9	150770.0	0.1	0.0	370;603
16688.3	18003.0	19901.4	17355.0	0.1	0.2	1574
19299.8	22203.8	19482.4	22787.0	0.1	0.3	427
49729.4	57670.9	55266.0	54213.0	0.1	0.1	271
10275.9	11753.1	12013.7	10646.0	0.1	0.2	257
118036.9	140145.9	132672.1	125470.0	0.1	0.2	4033;3919;3890
18927.2	21805.6	25992.6	21094.0	0.1	0.5	1763;687
7918.6	8176.6	8394.2	8015.4	0.1	0.0	513
22080.7	21177.5	24656.8	22490.0	0.1	0.3	196
11349.1	11435.2	14459.8	11341.0	0.1	0.5	1972;2488
4232.2	4380.1	4707.9	4047.4	0.1	0.2	1306
13690.2	12751.8	14105.0	12819.0	0.1	0.3	1157;1140
9386.2	10605.5	11287.0	9797.6	0.1	0.2	480
30744.7	33392.6	25830.2	32072.0	0.1	0.5	182



Parp3	0.930575	0.00677796	47.894	KS(0.006)S(0.056)MQT(0.931)EGS	3	0.12348	11173.0	7736.1
Ttc9b	0.950437	3.06E-70	162.44	CSLQREDS(0.95)DS(0.046)GT(0.00	3	-0.11829	40144.4	44304.4
Inpp5d	0.650562	4.41E-08	57.708	GEGPPT(0.33)PPS(0.651)QPPLS(0.	4	1.1227	15278.2	12023.3
Efnb1	0.811706	4.92E-10	78.401	AAALS(0.022)LS(0.812)T(0.166)LA	3	-1.6435	12589.9	12102.3
Wac	1	0.000206261	53.756	MRDAADPS(1)PPNK	3	0.24227	59413.3	54766.8
Atp2b1	1	2.33E-101	154.77	IEDS(1)EPHIPLIDDTDAEDDAPTKR	4	0.54876	101964.6	97080.3
Eps8l2	0.992605	0.000109942	65.179	YWGPAS(0.993)PT(0.007)HK	3	1.0205	9632.1	9484.7
Rnft1	0.828954	0.0101776	53.211	EYS(0.016)ES(0.829)PS(0.146)S(0.	2	2.5155	4264.8	5109.6
Apc	0.981011	1.58E-25	85.45	KS(0.011)S(0.981)ADS(0.005)T(0.C	3	-0.68889	10660.0	10225.9
Cdh19	0.980803	2.83E-09	70.117	QS(0.981)LQVGPDS(0.019)AIFR	3	-0.20292	11703.9	10860.6
Sssca1	0.669562	5.11E-20	58.981	EHQLAS(0.005)T(0.029)T(0.033)EF	5	-0.065671	11089.4	11191.8
Dync1li1	0.639203	8.72E-05	41.703	KPAS(0.058)VS(0.639)PT(0.25)T(0.	2	0.12284	6410.8	6212.0
Xpc	0.994399	1.12E-29	81.807	KPS(0.003)CS(0.002)EGEEAKQEIQ:	5	-0.33523	12730.7	12754.9
LOC10255	0.993727	3.55E-13	102.9	HSAPS(0.006)S(0.994)PNAAKR	3	0.33285	74433.9	69763.8
Ahsg	0.920032	2.83E-41	119.5	VLHAQCHS(0.044)T(0.92)PDS(0.0:	5	-0.19365	249508.5	259431.3
RGD15629	0.999971	1.68E-189	219.3	TSEPEAETNAGNS(1)PVTTNRK	3	0.12685	62145.8	62064.5
Ephb1	0.996983	2.15E-21	79.676	TVATIT(0.003)AVPS(0.997)QPLLDf	3	0.82252	4707.6	4271.5
Exoc3l2	1	0.00753337	83.358	RAS(1)LAER	2	-0.99952	15069.5	13931.9
S100a13	0.922116	0.00126168	62.287	KGS(0.922)LS(0.067)T(0.011)NEFK	2	-0.21608	21880.9	23729.6
Kcnb1	1	0.0347352	52.132	T(1)PPRS(1)PEK	3	0.39088	19268.9	17860.0
Ptpn13	0.787375	0.00797175	46.985	EGS(0.014)LS(0.11)S(0.787)QDS(0	2	-0.039779	12176.1	13386.7
Nab1	0.901376	8.18E-59	94.807	QS(0.012)S(0.052)GEQS(0.901)PD	3	-1.1314	10628.3	9836.3
Cdk16	0.805215	0.000186191	44.391	GPLS(0.195)S(0.805)APEIVHEDMK	3	0.8128	6487.8	6934.1
Elavl2	0.617286	1.24E-14	107.69	VSYARPS(0.617)S(0.38)AS(0.003)II	3	-0.25941	7634.8	8667.2
Sqstm1	0.954878	1.17E-59	144.75	LIFPNPFGHLS(0.041)DS(0.955)FS(	3	-0.30988	27160.9	26662.7
Ulk1	0.998386	1.09E-49	92.135	NRT(0.998)LPDLS(0.002)EAGPFQC	4	0.38956	7380.2	6384.0
Psip1	0.937847	4.09E-64	115.06	QVDTEEAGVVT(0.001)AAT(0.018).	5	0.26604	53370.0	54487.1
Aes	0.737135	3.23E-15	55.884	FT(0.018)T(0.056)S(0.189)DS(0.73	4	-0.24073	10366.9	10365.7
Eif4b	0.707274	8.60E-22	77.469	S(0.044)QS(0.707)S(0.241)DT(0.0	4	0.14215	36738.1	39363.9
Kank1	1	1.03E-09	95.183	QLLPPPS(1)PQLPR	2	1.487	10532.2	11207.2
Slc38a1	0.999847	0.00455441	46.955	FISDRES(1)RR	3	-0.073039	10208.0	10505.7
Ank3	0.999983	1.80E-30	159.77	RQS(1)FTSLALR	2	-0.56694	39159.2	37627.5
Smpx	0.799565	3.51E-36	104.23	RKES(0.1)T(0.1)PGT(0.8)AEGAPAT	4	-0.469	33956.8	39560.2
Clasp2	0.999963	1.26E-06	94.547	MVSQSQPGS(1)R	2	-0.57836	33670.5	30732.3

10268.3	11112.9	10077.0	10162.0	0.1	0.5	11
35717.7	44352.6	43233.1	41542.0	0.1	0.3	226
13521.0	14960.6	14639.4	14267.0	0.1	0.4	966
14795.3	13804.5	14262.1	14366.0	0.1	0.3	282
63279.1	62896.8	68213.7	59591.0	0.1	0.3	53
112628.5	113328.8	120767.4	100840.0	0.1	0.4	1184
8926.4	10792.7	9675.9	9667.7	0.1	0.2	528
4918.6	4948.9	4833.3	5577.9	0.1	0.4	55
12128.4	11316.4	12000.9	12164.0	0.1	0.3	2692
10784.8	12161.2	13120.8	10560.0	0.1	0.4	683
12224.2	11944.5	11796.8	13344.0	0.1	0.2	115
5610.1	6316.7	6319.7	6959.9	0.1	0.2	510
13329.3	14960.6	12895.3	13864.0	0.1	0.2	409
74884.8	79758.1	81709.6	74015.0	0.1	0.1	97
269003.1	316227.4	257404.3	262560.0	0.1	0.4	135
64269.2	66613.6	72479.7	63499.0	0.1	0.2	556
4064.1	4395.5	4989.3	4635.8	0.1	0.3	899
12341.3	16003.3	14308.1	14130.0	0.1	0.4	143
23003.7	25236.4	23905.6	24617.0	0.1	0.1	32
18705.8	19043.6	19812.7	21165.0	0.1	0.1	732
12603.2	14083.9	12034.0	14910.0	0.1	0.4	1236
12295.6	13014.7	10696.1	11506.0	0.1	0.5	404
6431.1	8224.3	6422.4	6695.1	0.1	0.4	65
6631.7	8305.9	9154.6	7193.0	0.1	0.5	118;138
27121.8	26969.9	29931.6	30116.0	0.1	0.1	175
7238.5	7534.6	7760.2	7283.6	0.1	0.2	659
48326.2	56171.6	64183.8	47547.0	0.1	0.5	176
10010.9	11614.5	11864.1	9573.2	0.1	0.4	25
39384.3	41956.9	42372.8	39830.0	0.1	0.1	497
10543.8	11733.3	12462.5	10514.0	0.1	0.3	173
10453.4	10393.6	12896.4	10220.0	0.1	0.4	49
37833.1	40312.4	43811.2	39113.0	0.1	0.1	1458
37862.9	42082.3	44477.0	33196.0	0.1	0.5	40
32101.1	33730.3	36424.7	33608.0	0.1	0.1	678

Dpysl5	0.809097	1.60E-42	93.371	DLHES(0.001)S(0.005)FS(0.006)LSI	5	0.86623	6145.4	6691.6
Tpd52l2	0.987641	0.00116857	67.214	HS(0.012)IS(0.988)MPVMR	2	-0.52587	8023.9	5874.2
LOC69138	0.929439	0.000471694	54.276	S(0.929)FS(0.055)S(0.016)QRPGVI	3	1.6129	8145.6	8810.5
Dip2c	0.999581	3.95E-08	94.63	RAPVT(1)PSSASR	3	-0.12223	17285.5	15551.0
Atp11c	0.638224	0.000498988	66.023	RAS(0.362)DS(0.638)LSAR	3	-0.44727	10078.7	11435.3
Akap12	0.719033	0.000216149	92.538	LFS(0.719)S(0.216)S(0.065)GLKK	2	0.30245	10681.0	9453.2
Rtn3	0.972747	1.53E-27	101.89	QQADKS(0.973)PCT(0.025)T(0.002)	3	0.94024	26923.5	23359.9
Lrch3	1	2.48E-31	129.43	RIS(1)HEGSPVKPIAVR	4	0.0019661	25272.9	24924.1
Apc2	0.93183	2.20E-29	115.63	GS(0.066)S(0.932)PEDS(0.002)PAC	3	0.083743	8563.1	9505.0
Tln1	0.747179	1.56E-11	53.679	S(0.062)NT(0.19)S(0.747)PEELGPL	3	-0.0097595	6342.7	4863.3
Tns1	0.903922	2.36E-12	70.837	QQERS(0.904)PLQS(0.026)LACS(0.	3	3.1753	56641.5	50032.5
F11r	0.666431	1.47E-07	59.606	VIY(0.02)S(0.13)QPS(0.184)ARS(0.	4	0.054481	27890.8	26420.3
Ank3	0.775837	0.00536515	84.522	S(0.215)VVS(0.776)PT(0.01)K	2	0.55332	24013.4	19751.0
RGD13075	0.663454	8.92E-15	84.653	APS(0.334)PS(0.663)ES(0.002)SAS	2	1.4985	20413.9	19632.6
Syn2	0.978908	1.34E-47	152	S(0.001)QS(0.021)LT(0.979)NAFSF	3	-1.1631	7836.0	8309.3
Spn	0.718063	0.0224068	42.031	S(0.141)S(0.141)S(0.718)PRGEAQI	2	0.32965	3554.2	3390.6
Ank3	0.513838	4.58E-06	69.045	S(0.02)AS(0.564)LRS(0.746)FS(0.5	2	0.1649	49406.7	43992.9
Akap6	0.948544	2.66E-10	99.344	S(0.019)LS(0.949)KDS(0.016)S(0.0	3	0.61187	85125.1	82975.0
Bod11l	1	0.00317995	65.933	RELS(1)PPGAR	3	0.27858	29150.3	27877.0
Jph3	0.958762	0.0276546	45.158	T(0.041)RGS(0.959)GHK	3	0.11385	7093.1	6366.3
Myh9l1	0.698544	0.032028	40.994	EVS(0.301)S(0.699)LKNK	3	-0.89457	10999.4	11889.5
Vim	0.999934	2.34E-33	126.43	ETNLES(1)LPLVDTHSKR	4	-0.42418	65101.2	56473.6
Zbtb4	0.838717	5.87E-54	98.632	TLTYTAKPVGGVS(0.072)GS(0.072)	4	1.0235	8104.0	8429.6
Camsap2	0.955939	2.99E-40	122.18	S(0.044)KS(0.956)LADIK	2	0.32322	226454.1	192651.2
Hbs1l	0.983335	8.41E-06	82.069	SS(0.001)QS(0.016)ES(0.983)EIVPI	2	-0.081066	14068.8	13674.1
Palm	0.989835	1.94E-10	65.949	S(0.003)T(0.003)PVRS(0.99)PGGS(	3	-0.66513	44650.3	52886.7
Shroom3	0.923237	7.76E-05	46.324	GGG(0.923)PPCHLLS(0.077)PAK	3	-0.74544	12538.6	13449.3
Kif3a	0.998372	4.87E-16	104.2	S(0.998)AKPET(0.002)VIDSLLQ	3	-0.11953	24043.2	24533.6
Eif4b	0.725059	1.57E-43	134.32	S(0.002)QS(0.102)S(0.725)DT(0.17	3	-0.46148	118914.9	127680.9
Epb4l12	0.982948	8.04E-05	46.156	GS(0.017)DPS(0.983)GADAHKEK	4	0.53451	6856.0	7420.4
Afap1l2	0.6105	5.67E-43	89.201	ISFPANCPDT(0.023)MAS(0.611)VF	4	-0.61287	49095.5	42436.3
RGD15620	0.987377	8.91E-07	55.437	QVLGES(0.987)EDGQT(0.013)DDP	3	1.0665	14664.0	13063.2
Kif1b	0.96194	0.0034332	107.69	S(0.019)S(0.019)S(0.962)MDQK	2	0.22264	22740.8	21533.5
Camlg	1	0.000966744	42.242	GAQLGDKLDS(1)FIK	3	0.63758	5183.7	4665.5

6392.6	6540.5	7392.5	6744.1	0.1	0.2	538
7006.0	8345.5	7706.0	6426.9	0.1	0.6	154;157
9097.9	8665.6	10114.3	9237.5	0.1	0.3	1528
16234.7	16980.1	18713.0	17076.0	0.1	0.2	102
10648.5	10689.4	11370.4	12527.0	0.1	0.3	1107
9646.4	10987.6	10961.1	10077.0	0.1	0.2	507
29507.6	25137.4	34040.6	26631.0	0.1	0.6	321
30078.3	30042.1	29750.0	26545.0	0.1	0.4	411;411
9057.8	9423.7	9519.9	10231.0	0.1	0.1	2150
6352.4	5773.6	6022.6	7089.0	0.1	0.5	1878
58323.2	58110.9	60565.4	58790.0	0.1	0.2	855
26892.9	28457.1	31382.9	27501.0	0.1	0.2	288
24596.4	25236.4	25804.5	22488.0	0.1	0.4	1679
20542.3	21073.0	22113.4	21983.0	0.1	0.0	17;17
8894.2	8760.3	9296.9	8875.7	0.1	0.1	548
3307.1	3495.6	4207.6	3323.9	0.1	0.4	1852
43293.7	50481.6	49155.5	47393.0	0.1	0.2	926
93919.5	94894.6	98213.7	88733.0	0.1	0.2	1323
29651.3	32218.9	32881.1	28136.0	0.1	0.2	3017
6395.9	6837.7	7619.2	6900.7	0.1	0.2	561
9961.2	10899.7	13593.2	10843.0	0.1	0.5	1916
61161.6	67901.6	68223.3	60443.0	0.1	0.3	430
7815.7	9048.6	9263.2	7881.0	0.1	0.3	559
211161.1	233917.4	227599.8	216500.0	0.1	0.2	816
14397.2	15518.2	15960.2	13856.0	0.1	0.2	149
52974.5	54582.2	54512.6	52829.0	0.1	0.2	157
13470.9	12636.3	15461.1	14355.0	0.1	0.3	88
25861.2	26787.3	27513.3	25785.0	0.1	0.1	687
129630.8	131214.2	141028.9	132530.0	0.1	0.1	498
7921.3	7166.7	9137.4	7577.9	0.1	0.5	18;18;18
48849.0	52867.4	53318.9	44847.0	0.1	0.4	664
15090.2	14333.6	16670.8	15063.0	0.1	0.3	526
24273.8	24454.3	25537.4	23761.0	0.1	0.1	1587
4535.1	4937.9	5215.5	5323.2	0.1	0.2	114;115

Inpp5d	0.999992	2.14E-06	77.42	SPAVLQLQHS(1)K	3	0.031625	15469.1	13320.9
Rims2	1	0.0174811	55.908	RADS(1)LRK	2	0.20704	19301.1	17127.2
Ap3d1	1	0.00233586	81.923	MVKGS(1)IDR	2	-0.29897	133293.9	130631.6
Fam120a	0.999999	9.52E-54	128.4	SQGAIQGRPPYAAS(1)AEEVAK	3	-1.6732	29399.5	26977.5
Fam110b	0.983914	7.57E-09	78.326	VYPT(0.005)PGRGS(0.984)PQES(0	3	-0.73203	38140.7	38201.2
Med14	0.968751	1.21E-14	50.865	LPGMS(0.969)PANPS(0.37)LHS(0.6	4	1.7846	9677.6	9941.7
Med14	0.66018	1.21E-14	50.865	LPGMS(0.969)PANPS(0.37)LHS(0.6	4	1.7846	9677.6	9941.7
Prrc2b	0.775383	1.71E-12	95.854	ALS(0.112)LS(0.775)S(0.112)ADS(C	3	-0.12958	34054.6	33045.7
Bcas1	1	0.00587891	91.853	LGLS(1)FRK	2	0.034652	13375.9	13055.5
Pik3c2a	0.854566	8.19E-07	50.752	S(0.005)T(0.005)GT(0.016)S(0.06)	3	-0.38095	6360.6	5597.8
Klc1	0.525071	3.27E-20	101.05	ACKVDS(0.137)PT(0.33)VT(0.525)~	3	0.23409	110634.1	118905.6
Kank4	0.993583	5.61E-07	52.666	QVEAGS(0.994)LEDAGS(0.006)GRI	3	-0.25975	22558.3	23585.9
Atrx	0.896208	2.92E-59	121.94	QTESNPAVS(0.104)NS(0.896)DEEC	4	-0.34405	5765.3	5943.6
Zc3h13	0.996265	7.95E-09	101.72	LRS(0.996)PS(0.004)NDSAHR	3	0.71594	9778.8	9631.0
Tnip1	0.99976	0.000217579	56.404	YLQDQLS(1)PLMR	3	-0.094657	1846.7	1930.6
Ptdss1	0.822915	4.13E-49	122.22	GS(0.002)EDS(0.997)PPKHS(0.001	4	0.41698	6836.3	7725.4
Plekha2	1	0.00677746	49.418	S(1)EPQHPK	3	-0.12415	15184.0	13742.1
Map1b	0.99494	8.46E-63	109.25	LGGDGSPTQVDVS(0.004)QFGS(0.9	4	1.4957	63086.8	55035.5
LOC68570	0.804059	1.21E-22	90.348	KLEYDS(0.004)GS(0.024)LKMEPGT	4	1.8188	64917.5	58468.9
Itgb4	0.989124	5.39E-14	115.35	T(0.008)DHS(0.989)QS(0.003)GTLI	3	0.85426	9055.8	8830.4
Rasgrf1	0.573107	1.06E-27	104.84	FSSPPPLAIGT(0.268)S(0.159)S(0.5	3	0.70209	3835.7	3576.6
RGD13117	0.77075	1.58E-19	74.428	FAAGHDAEGS(0.771)QS(0.229)HV	5	0.22508	30465.8	26648.4
Dcp1b	0.830296	4.26E-42	108.37	ACHGAGAGS(0.83)S(0.17)PVTLSSC	3	0.081764	7481.4	6076.7
Cbl	0.982301	7.89E-06	59.198	EFVVIS(0.003)S(0.015)PAHVAT(0.9	2	-0.54435	31530.9	32962.3
Hecw1	0.619444	3.82E-38	80.538	S(0.619)RPCS(0.33)LPVS(0.049)ELI	3	0.76914	5871.8	5610.9
Ank2	0.972552	1.64E-08	109.72	EIS(0.025)S(0.973)PS(0.002)SPVK	2	-1.7677	15373.6	16227.8
Rtkn	0.561605	0.0316331	62.582	LS(0.255)S(0.562)S(0.183)LGR	2	0.23818	9627.7	9438.6
Mink1	0.999999	1.72E-53	123.32	SDSVLPASHGHLQAGS(1)LER	3	0.43089	39990.5	43991.8
Zfp667	0.958331	1.51E-53	95.622	TSDS(0.002)CPS(0.039)LS(0.958)P	4	-0.16021	6021.1	6695.2
Tns1	0.929757	2.20E-14	64.862	S(0.93)GY(0.008)IPS(0.054)GDT(0.	3	0.39478	16287.2	13933.0
Cgn1	1	7.36E-52	162.26	RQDS(1)AGPILDGAR	3	0.81772	72816.7	67994.5
Ptpn21	0.980873	1.89E-07	45.137	NLNIGS(0.001)S(0.001)Y(0.003)AY	4	-0.45198	3265.4	3128.1
Limk1	0.891201	8.09E-42	109.23	S(0.002)CS(0.044)IDT(0.891)S(0.0	3	0.65192	24092.1	24872.5
Usp6nl	0.711139	1.28E-07	60.938	RPY(0.001)GS(0.054)S(0.001)LS(0.	2	-0.53396	8974.2	9192.0

15123.2	16129.8	15431.2	15688.0	0.1	0.2	1160
13971.3	18639.9	18866.9	16726.0	0.1	0.5	261
131302.3	147339.6	155028.2	122930.0	0.1	0.4	9
28268.4	29728.6	31921.5	29436.0	0.1	0.1	1022
37769.2	40328.9	44407.5	38058.0	0.1	0.2	172
8551.0	9775.6	10361.6	10179.0	0.1	0.2	1133
8551.0	9775.6	10361.6	10179.0	0.1	0.2	1141
32407.7	36484.6	34791.8	35812.0	0.1	0.0	417
9998.1	12986.1	14908.7	11314.0	0.1	0.6	346
6536.9	5983.8	7314.5	6608.0	0.1	0.4	1554
98770.0	113042.9	139981.7	100340.0	0.1	0.6	464;464;464
23491.3	22505.2	27219.4	25227.0	0.1	0.3	144
5948.6	6336.2	5611.4	7058.7	0.1	0.3	666
8693.4	9837.2	10439.4	9974.0	0.1	0.1	1271
2075.7	2173.7	2050.1	2076.6	0.1	0.1	364
6658.2	7506.5	7805.3	7530.6	0.1	0.2	454
14670.8	15253.1	16543.7	15135.0	0.1	0.1	401
56350.4	55819.7	67786.2	64213.0	0.1	0.4	1505;1379
50882.4	64268.4	65117.8	58215.0	0.1	0.4	777
9328.8	9741.6	10450.2	9106.0	0.1	0.2	1432
3526.5	3971.5	4018.6	3786.0	0.1	0.1	731
27327.2	29231.4	31478.0	30197.0	0.1	0.2	26
6542.4	7040.0	7394.4	7206.5	0.1	0.3	146
32848.5	36307.5	35265.2	33235.0	0.1	0.1	914
5771.9	6443.2	6061.3	6073.7	0.1	0.0	524
19278.5	17667.6	16564.0	20555.0	0.1	0.5	2856
9549.3	9498.4	9986.5	11328.0	0.1	0.3	219
43761.0	44715.6	49014.4	43824.0	0.1	0.2	739
5469.4	6271.1	7216.4	6094.9	0.1	0.4	241
13877.6	15300.4	17846.4	14339.0	0.1	0.4	949
73317.6	75566.1	76159.0	78855.0	0.1	0.1	283
3431.6	3665.9	3512.7	3401.9	0.1	0.1	492
23738.3	24933.9	27495.1	25865.0	0.1	0.1	267
8761.9	9752.5	10259.1	8987.5	0.1	0.2	588



Irs2	0.978983	5.60E-08	100.09	VT(0.02)S(0.979)PT(0.001)SGLKR	2	0.14614	34243.0	32535.6
Osbpl8	0.997722	3.54E-39	90.694	DVLGPSTVVANS(0.002)EEPQHLT(C	4	1.0319	10575.8	11274.1
Lrrc16b	0.912686	2.25E-06	42.254	S(0.079)HDHEET(0.913)DDELGT(0	4	0.18284	13393.8	12792.2
Atxn10	0.908709	0.000651362	41.621	DS(0.005)T(0.019)NIFS(0.909)PS(C	3	1.6875	7996.9	7532.1
Vcpip1	0.999077	1.02E-09	97.2	S(0.999)RESSPSHGLLK	3	-0.56877	28701.8	29129.7
Mast2	1	0.00255902	98.156	QLS(1)QDDCK	2	-0.31492	20319.7	19984.7
Prph	0.851627	4.00E-14	145.75	SSIS(0.126)S(0.852)T(0.021)S(0.00	2	-0.036753	40437.8	34320.3
Fam212a	0.989085	0.00106413	77.744	FS(0.011)VS(0.989)DLPVR	2	0.43144	6328.4	6693.3
Ahctf1	0.937463	0.0107454	79.596	S(0.063)LT(0.937)PPFR	2	-0.57458	19434.7	19301.3
Kcnj11	0.721081	0.0123255	51.276	FS(0.001)IS(0.08)PDS(0.721)LS(0.1	2	0.73946	3497.2	3019.1
Sorbs2	0.994281	2.90E-33	98.957	SSILQHERPVS(0.994)VY(0.006)QSS	4	-1.5862	37447.7	35213.2
Foxk1	0.989355	7.99E-11	66.142	S(0.989)APAS(0.916)PT(0.094)HPC	3	0.34915	24248.4	22747.8
Med24	0.529573	4.33E-18	72.167	LLSSNEDDAS(0.011)ILS(0.53)S(0.3	2	3.4032	12952.5	10498.0
Sh3pxd2a	0.701818	0.00406309	47.33	RT(0.383)S(0.608)PAS(0.308)S(0.7	2	0.3486	7011.4	7860.6
Svil	0.938055	1.61E-26	78.708	KGLAS(0.938)PT(0.062)AITPISSPLC	4	-1.3445	15959.2	15397.4
Tbc1d31	0.974448	0.00106816	57.434	DLT(0.026)AS(0.974)QEAIK	2	0.93083	8304.6	7517.3
Clasp2	0.987817	0.000945414	46.352	S(0.012)QEDMS(0.988)EPLKR	3	-0.46468	23302.6	19457.1
Tex2	0.984066	8.18E-10	94.781	HSSPSGHLS(0.016)HS(0.984)R	4	0.16341	2542.0	2625.9
Pcf11	0.981907	0.00979401	43.549	RLS(0.982)PIS(0.016)GS(0.002)R	3	0.58954	1938.2	1925.4
Synpo	0.71044	2.00E-06	42.791	SGPAAAEET(0.007)VPEWAS(0.282	4	1.3546	6525.5	6187.0
Nadk2	0.859495	3.30E-15	59.339	LKPVIGVNT(0.859)DPERS(0.141)Ei	4	-0.67913	2264.5	2231.8
Mybbp1a	0.99732	6.36E-17	95.873	DIPSDS(0.002)QS(0.997)PISTKR	3	1.0886	21693.6	21461.1
Iqsec1	0.999981	4.74E-12	133.98	SLGGQQGS(1)PK	3	0.54423	119434.9	109228.6
Iqsec2	1	1.35E-26	79.69	GELHRDPLGARDS(1)PGR	3	0.7634	35806.6	37813.9
Syne2	0.531238	1.82E-06	51.473	T(0.531)NS(0.425)MS(0.044)FLPA'	4	1.202	8575.1	8736.3
Esam	0.696953	8.18E-26	75.718	AAPPRPGTFTPTPS(0.002)VS(0.002	4	-0.59193	10538.3	11806.1
Bud13	1	0.0165441	59.225	HDT(1)PDAS(1)PPR	2	0.030073	4289.6	3746.1
Map2	0.716365	4.30E-30	71.727	AGKS(0.716)GT(0.097)S(0.108)T(0	3	0.060623	17228.3	19391.3
Mllt6	0.94396	0.000297436	62.298	ARAPS(0.944)PGDY(0.056)K	3	-0.90623	13101.6	11791.8
Trak1	0.750966	4.11E-36	105.06	NES(0.018)S(0.113)S(0.751)S(0.11	3	-0.045297	11976.9	11275.2
Gpr156	0.999949	0.000568876	86.923	RGS(1)LEGSK	3	1.9685	10051.1	9650.4
Hepacam	0.999999	1.18E-07	94.692	SEADT(1)LPR	2	-0.41418	77645.8	87126.8
Ttbk1	0.999857	3.07E-06	76.073	RRES(1)DPTGPQR	3	-0.16935	2840.2	2743.1
Lrrc59	0.971317	0.00479879	47.712	EY(0.029)DAQKAS(0.971)K	3	-0.41643	41617.4	44583.0



31222.8	35198.7	39508.8	30831.0	0.1	0.4	1092
10430.9	12722.1	11761.5	10280.0	0.1	0.3	26
12226.3	13095.0	14102.9	14169.0	0.1	0.1	800
8411.7	7996.7	8486.7	9298.9	0.1	0.3	352
29338.3	31399.4	31871.2	30607.0	0.1	0.0	993
21981.7	22149.9	22528.1	22403.0	0.1	0.1	41
36376.7	42241.8	41138.5	36310.0	0.1	0.3	20
6853.2	7227.3	6756.5	7421.6	0.1	0.1	127
21614.4	21992.6	20194.2	22812.0	0.1	0.2	1224
3393.9	3741.6	3459.3	3472.6	0.1	0.2	301
35754.9	39990.1	40151.1	36627.0	0.1	0.1	325
23981.1	26169.1	25067.2	25211.0	0.1	0.0	402
9902.8	11334.0	11200.5	13391.0	0.1	0.5	870
6867.5	7608.5	7852.7	7955.1	0.1	0.2	545
16401.9	18041.5	17593.1	15808.0	0.1	0.2	1187;777
7232.1	9025.1	8101.7	7706.0	0.1	0.3	753
25548.2	23457.7	25120.6	25001.0	0.1	0.4	977;1179
2917.7	2791.5	3314.7	2603.3	0.1	0.4	741
1872.4	2052.0	2112.9	2013.9	0.1	0.0	800
6404.8	6820.0	7362.8	6410.7	0.1	0.2	452
1969.7	2306.6	2280.6	2378.2	0.1	0.2	116
18711.1	20998.2	24442.0	21204.0	0.1	0.3	1166
114481.0	124020.5	126912.1	118720.0	0.1	0.1	416;415
35305.7	38652.6	41187.7	37506.0	0.1	0.1	82
8513.7	9301.6	10387.6	8132.5	0.1	0.4	4103
11582.2	12050.1	12178.3	12324.0	0.1	0.1	348
3688.3	3859.8	4562.8	4209.0	0.1	0.3	131
15576.8	19840.0	21810.0	14588.0	0.1	0.6	1675;1589
12319.0	13392.0	13930.8	12771.0	0.1	0.1	416
11170.2	12253.6	12632.4	12202.0	0.1	0.0	98
9848.2	10977.8	11309.5	9551.2	0.1	0.2	653
81688.9	101861.8	83235.6	80457.0	0.1	0.4	287
2675.3	2797.4	3431.8	2669.2	0.1	0.4	655
51589.4	54312.7	45738.0	48426.0	0.1	0.4	209

Abcc5	0.999438	0.000674131	64.827	EYIIPS(0.999)PGYR	2	0.55887	19766.3	17895.1
C2cd2l	0.994162	2.07E-106	169.6	EAGLS(0.006)QS(0.994)HDDLNTT	3	-0.83334	149681.3	140734.2
Pcyt1a	0.977769	2.93E-23	145.92	TSPS(0.002)S(0.016)S(0.978)PAS(C	2	-0.37329	21276.2	19934.2
Dgkb	0.5	0.00612596	42.599	FPHS(0.5)S(0.5)PNVK	3	0.17048	1784.7	1805.6
Ulk2	0.954064	1.29E-34	84.529	AVLFT(0.04)VGS(0.954)PPHS(0.00	4	-1.1425	3855.5	4338.5
Lamtor1	0.795025	2.42E-09	71.354	TDEQALLS(0.205)S(0.795)ILAK	3	0.2848	7896.5	7780.4
Sphkap	0.993403	4.81E-13	77.027	AS(0.001)S(0.005)CES(0.993)IPEEI	3	-0.21464	61631.7	60238.2
Nacad	0.992322	9.70E-22	74.029	SETS(0.001)QPQLMNS(0.992)AGE	3	-1.0696	10881.4	11257.6
Smpd3	0.53754	6.66E-19	71.308	DGDS(0.446)GS(0.538)LGS(0.017)	3	-0.70788	31029.9	34709.7
Eif4enif1	0.705192	2.21E-12	106.39	APS(0.705)PPMS(0.295)QVFR	2	-0.22312	31956.7	28355.2
Bcr	0.996831	8.17E-09	127.03	VS(0.997)PS(0.003)PTTYR	2	-0.52794	9725.6	10529.9
Prx	0.999429	2.36E-48	119.76	GQEGDAASKS(0.001)PVGES(0.99	3	-0.10758	800502.6	922329.9
Itpkb	0.838732	5.87E-07	77.42	CGS(0.839)PT(0.161)PMEIDKR	3	-0.55652	23770.1	21158.4
Lsm11	0.867894	0.0426526	44.246	AGS(0.868)PAS(0.119)PPS(0.013)F	2	-0.43735	10385.0	12100.1
Cep170b	0.639081	0.00388774	40.676	VS(0.155)S(0.639)AT(0.206)FRPVI	3	-0.1056	17685.1	13472.3
Dock11	0.499913	1.16E-10	50.972	REDS(0.5)RGS(0.5)LIPEGATGFDP	5	0.91701	5243.5	6039.3
Mbp	0.963394	8.76E-10	126.5	RGS(0.002)GKDS(0.963)HT(0.035)	4	-1.0273	228899.0	177645.4
Wwtr1	0.535661	1.44E-32	95.122	SVT(0.004)NS(0.099)S(0.536)S(0.3	3	-0.51802	8107.5	8453.0
Camta1	0.525722	7.23E-09	46.558	EAS(0.469)PPT(0.526)PET(0.004)A	4	1.0269	8422.1	7650.3
Tmbim1	0.750185	9.24E-08	61.211	AGS(0.25)DS(0.75)FGPGEWDDR	2	-0.0013742	8737.3	8675.8
Ssh3	0.88303	2.37E-12	96.208	QAS(0.117)VDDS(0.883)REEGKA	3	-0.70214	28558.7	27905.5
Srgap1	1	5.66E-09	110.31	GLNDS(1)PERR	2	-0.27452	94901.5	94339.1
Cul9	0.819307	6.34E-06	52.451	T(0.181)MS(0.819)PQEVEGLMEQT	3	-0.74233	2741.1	3112.7
Epb41l3	0.775321	3.37E-69	136.88	QS(0.225)S(0.775)GEKLMGSEILS	4	0.64841	4330.7	4088.5
Irf2bp2	0.928427	2.00E-25	111.01	NSS(0.001)S(0.032)PPS(0.928)PS(C	2	0.95835	16877.6	17355.4
Baiap2	0.834723	3.58E-33	79.917	S(0.053)S(0.053)S(0.835)T(0.06)GI	3	2.2281	20818.2	22713.8
Crybg3	0.681924	1.72E-07	71.279	S(0.087)DS(0.682)LPLET(0.23)QT(C	3	0.3773	11109.2	13341.8
Arhgef2	1	0.000883763	49.724	QHS(1)LLQEELRR	3	0.81018	6291.4	6197.8
Dock10	0.814842	0.00015583	58.079	DMS(0.007)QS(0.815)PT(0.136)S(C	2	0.68574	10563.3	11217.1
Cbx3	0.992006	3.65E-21	125.97	KSLS(0.006)DS(0.992)ES(0.002)DD	4	0.69617	161095.2	178928.7
Clasp1	1	7.77E-35	133.93	S(1)QEDLNEPIKR	3	-0.24468	179426.7	166774.9
Ank2	0.999155	4.28E-05	104.07	HTPVS(0.999)PS(0.001)GK	3	-0.42428	53843.5	54624.2
Camk2g	0.756485	1.46E-69	137.85	QS(0.241)S(0.756)APAS(0.003)PA/	3	-0.063826	127139.6	124785.0
Fyb	0.694666	0.0686317	50.372	GS(0.695)PGLS(0.305)K	2	-0.079046	18002.3	18290.0

16879.9	20932.2	18207.6	19632.0	0.1	0.3	14
145685.6	155226.3	170523.5	144180.0	0.1	0.2	663;662
20251.6	23064.0	22472.5	20694.0	0.1	0.1	347
1941.9	2070.5	1993.0	1898.2	0.1	0.1	88
3399.7	3960.1	4160.6	4373.0	0.1	0.4	684
8369.0	8690.5	9229.6	7993.3	0.1	0.2	56
61273.3	64018.8	70494.2	62855.0	0.1	0.1	1110
12200.8	13430.5	11979.5	11598.0	0.1	0.3	984
34728.6	35854.3	35986.6	36438.0	0.1	0.1	289
29159.5	33610.4	33275.4	29544.0	0.1	0.2	564
7718.7	9403.3	10766.6	9979.9	0.1	0.5	287
845496.1	1056555.3	864415.4	847150.0	0.1	0.4	1329;1329
22667.3	24403.7	25516.0	22936.0	0.1	0.2	274
8232.3	10959.4	13572.8	8576.0	0.1	0.7	15
13752.0	16797.5	15475.0	16133.0	0.1	0.5	631
5774.5	5719.7	6493.5	6172.3	0.1	0.2	1240
203900.2	224072.8	229908.0	204030.0	0.1	0.4	61;61
9163.8	8670.9	9939.9	9118.2	0.1	0.2	290
8493.1	9244.7	9171.5	8063.7	0.1	0.2	1314
10600.0	9991.5	10220.1	9985.4	0.1	0.3	21
29090.3	30325.9	32815.9	29083.0	0.1	0.1	646
92533.4	104089.2	101992.4	97662.0	0.1	0.0	843
2744.0	3164.9	3218.4	2885.0	0.1	0.2	1991
3753.8	4550.3	4852.6	3719.8	0.1	0.4	804;786;1123
18387.4	18700.4	20210.2	17815.0	0.1	0.2	444;294
23145.3	24001.1	23476.0	24403.0	0.1	0.1	455
12168.9	11889.5	13351.6	14237.0	0.1	0.4	789
5521.0	6109.8	6759.8	6546.3	0.1	0.2	1004
11204.3	11464.9	11931.4	12163.0	0.1	0.0	758
134762.4	167930.8	194835.2	149080.0	0.1	0.5	97
181436.3	189457.1	197848.7	181520.0	0.1	0.1	1197;1130
55723.4	60742.0	60771.6	55495.0	0.1	0.1	1891
112181.3	131544.2	140302.3	120690.0	0.1	0.3	321;321;321;321
18382.1	20524.1	20062.7	18357.0	0.1	0.1	278

Cbx3	0.715635	6.46E-10	81.92	SLSDS(0.027)ES(0.146)DDS(0.716)	3	-0.18978	42294.8	49842.7
Pnpla6	0.833473	1.79E-07	77.776	VVS(0.833)T(0.137)S(0.029)GT(0.0	2	0.57666	8289.5	7942.1
Magi3	0.964517	0.0334393	40.728	T(0.035)RS(0.965)PEKR	3	-0.084704	12344.2	11458.4
Mapre3	0.649857	0.00556971	93.467	T(0.348)S(0.65)PT(0.002)GPK	2	-0.38979	91819.6	88732.7
Mapre3	0.649857	1.80E-12	93.467	T(0.348)S(0.65)PT(0.002)GPK	2	-0.38979	91819.6	88732.7
Napb	0.999976	0.0416906	58.433	ASHS(1)FLR	2	0.60005	20143.2	21080.5
Flna	0.991814	1.39E-09	85.473	RLT(0.992)VS(0.008)SLQESGLK	3	-0.17666	11606.2	11066.8
Srsf4	0.955995	1.20E-11	63.302	S(0.042)VS(0.956)KEREHAT(0.002	3	0.22542	4363.7	5476.1
Eif4b	0.999845	0.0115876	75.696	AFGS(1)GYR	2	0.34657	18492.5	16565.6
Lad1	0.860293	0.00293969	61.765	S(0.004)T(0.004)T(0.131)S(0.86)LI	2	0.7521	4401.5	4435.8
Add2	0.794493	1.77E-13	109.83	S(0.09)PS(0.794)T(0.116)ESQLASK	3	0.60403	32886.9	26440.0
Plec	1	7.27E-05	77.185	S(1)IQEELQHRLR	3	-0.60992	1375.0	1253.9
Pdlim3	0.500467	2.51E-05	45.424	S(0.429)T(0.5)PS(0.061)S(0.008)VS	3	-0.07522	3604.5	5299.1
Atxn1	0.996386	4.84E-12	133.88	EAS(0.996)PS(0.003)T(0.001)LNDK	2	1.4017	25751.1	25106.2
Plekha6	0.942007	6.61E-05	100.31	S(0.942)PS(0.035)QGS(0.023)YSR	2	-1.0827	4295.9	4057.3
Mark2	0.861224	5.88E-14	62.002	VPVAS(0.139)PS(0.861)AHNISSSSC	3	0.24361	44661.1	48139.2
RGD15600	0.804554	1.66E-08	54.768	LLPEGEET(0.195)VES(0.805)DDDR	3	0.021222	63435.0	65619.6
Rab12	0.931865	2.95E-48	89.145	S(0.003)ELS(0.044)NS(0.932)ILS(0.	4	-0.69466	7051.7	8809.8
Hepacam	0.98801	0.000121478	77.279	S(0.012)PARS(0.988)PATGR	2	-0.96623	38879.0	46617.8
Srrm2	1	1.26E-20	101.05	TPAAAAAMNLS(1)PR	3	0.024889	18694.1	17751.4
lqsec2	0.970133	1.35E-10	72.607	GALS(0.004)S(0.026)S(0.97)LR	2	0.39136	15489.3	13188.2
Vps26b	0.967549	0.000703509	50.874	T(0.031)PGQLS(0.968)DNNS(0.001	2	-0.028013	8069.1	7916.2
Prune2	1	3.01E-59	141.91	NLSLTCFVGEEPAS(1)PERLK	3	0.64903	158841.1	160226.3
Eif4h	1	0.0515974	45.433	GMGGS(1)REPR	2	-1.5589	8630.1	7865.2
Nek9	0.999551	8.78E-21	110.55	TFDAT(1)NPLNLCVK	3	-0.13604	42936.5	37128.4
Rnf123	0.5	0.0180795	74.165	LT(0.5)S(0.5)DAEK	2	1.1401	27710.7	25075.5
Rnf123	0.5	0.0180795	74.165	LT(0.5)S(0.5)DAEK	2	1.1401	27710.7	25075.5
R3hdm2	0.976623	6.82E-15	116.9	AS(0.019)S(0.977)FS(0.004)GISILT	3	0.87396	24652.7	24056.4
Dbi	0.781588	6.35E-12	63.691	TQPTDEEMLFYI(0.782)S(0.218)HFI	4	-1.1659	33287.7	34196.3
Arhgef6	0.832794	4.45E-22	125.33	S(0.833)T(0.167)AALEEDAQILK	2	-1.2963	54981.3	52644.2
Tubb5	0.941583	0.000404835	43.696	ISVY(0.003)Y(0.018)NEAT(0.942)G	3	0.51313	19137.7	17351.0
Ppfibp2	0.704266	5.25E-08	49.125	T(0.209)QS(0.704)GNFNT(0.078)D	3	0.14576	12997.8	13042.3
Zfp800	0.868345	8.77E-08	45.791	RDS(0.868)IT(0.13)PDIAT(0.002)KI	5	-1.0466	3418.7	2820.1
Twf1	1	0.0010006	43.77	QS(1)FAKPK	3	-0.1072	65778.7	55675.0

42521.8	49813.9	48285.6	47078.0	0.1	0.2	102
7799.1	9156.4	7897.0	8854.6	0.1	0.2	345
12111.4	11796.0	13922.3	13003.0	0.1	0.2	1351
92677.1	97049.4	101692.2	95847.0	0.1	0.0	162
92677.1	97049.4	101692.2	95847.0	0.1	0.0	147
20245.2	23158.6	21944.6	21171.0	0.1	0.1	26
10880.6	11419.8	11219.7	13538.0	0.1	0.3	2328
3441.1	3873.5	6111.4	4334.8	0.1	0.7	406
17684.8	19536.4	18069.7	19263.0	0.1	0.1	283
4401.0	4565.3	5191.7	4517.4	0.1	0.2	514
19717.2	19328.5	33269.0	32633.0	0.1	0.7	532
1550.8	1750.9	1323.3	1432.6	0.1	0.5	1557;1443;1414
7242.4	6012.7	5776.6	5620.6	0.1	0.7	148
26375.4	29876.0	25597.2	27805.0	0.1	0.2	380
3187.2	4323.8	3506.5	4613.6	0.1	0.6	588
44519.1	52712.3	47238.3	48125.0	0.1	0.2	568
64201.1	76538.5	70292.2	61564.0	0.1	0.3	138
7864.3	8400.6	8460.5	8723.5	0.1	0.3	219
38963.8	47260.9	46769.2	40183.0	0.1	0.4	360
18495.0	20518.6	20295.7	18432.0	0.1	0.1	2228
15723.7	15949.4	15383.1	16549.0	0.1	0.3	1143
7618.5	8359.9	8648.6	8445.4	0.1	0.0	330
156449.1	168898.8	186724.1	157180.0	0.1	0.2	348
8323.6	8841.1	9272.1	8652.8	0.1	0.1	141
43664.2	44053.4	42528.8	46856.0	0.1	0.3	253
25849.5	28061.1	28098.9	28648.0	0.1	0.1	19
25849.5	28061.1	28098.9	28648.0	0.1	0.1	18
23778.8	26924.8	26346.3	24907.0	0.1	0.0	363
34683.9	35152.5	40506.9	34530.0	0.1	0.2	29
57409.8	60370.2	60508.8	57116.0	0.1	0.1	495;622;666;624
17342.0	18694.9	22875.4	16491.0	0.1	0.5	55
12473.3	13390.9	14535.7	13614.0	0.1	0.1	362
2312.7	2981.6	3301.3	2941.1	0.1	0.5	318
62707.4	61388.8	69346.4	67910.0	0.1	0.3	322

Ripk2	0.753946	0.0418985	47.228	MMS(0.001)LS(0.245)QS(0.754)R	2	0.37403	8187.0	7513.4
Epm2aip1	0.674173	1.83E-08	46.399	EVLDPDHVGVLEGIDLS(0.674)PEIT(0	3	3.0659	3645.9	3218.6
Ip6k1	0.835996	0.00540464	57.204	MRS(0.836)ES(0.164)KDR	3	0.14883	23058.1	23889.7
Ell	0.606198	4.28E-33	98.562	KLCQPQSATT(0.008)DS(0.606)S(0.	5	0.076852	38311.2	42803.8
Snx19	1	2.39E-05	51.771	IAPALS(1)IAEAQDK	3	0.66123	4812.7	4926.6
Itgb4	0.996388	0.00430449	104.2	DY(0.002)HS(0.996)LT(0.002)R	3	0.56307	65821.6	61460.1
Parp3	0.99964	0.0178798	43.03	QGTGEEGS(1)FR	2	0.08166	3603.0	4339.2
Pigb	0.958234	9.14E-10	128.71	S(0.958)T(0.042)QYVIAQEK	2	-0.39399	103995.7	94324.8
Suz12	0.982658	0.0171205	44.543	EKDT(0.98)S(0.983)NET(0.037)R	2	1.5931	15884.1	14244.5
Suz12	0.980165	0.0171205	44.543	EKDT(0.98)S(0.983)NET(0.037)R	2	1.5931	15884.1	14244.5
Ahnak	0.65608	6.84E-11	41.563	MGGGS(0.656)T(0.24)EIHAQMPS(	4	-1.6623	4276.6	4875.8
Atxn1l	0.679051	8.67E-15	109.99	RES(0.249)EPLDS(0.679)T(0.069)S	3	-1.0982	24754.1	24672.9
Dpysl2	0.961084	1.06E-83	168.12	NLHQS(0.01)GFS(0.029)LS(0.961)C	2	0.11339	77186.6	78279.1
Gphn	0.99882	1.92E-06	93.623	LS(0.007)T(0.032)AS(0.962)CPT(0.	3	0.0087626	43838.1	45376.1
Itgav	0.532478	0.00181089	42.633	EQLQPHENGEGNS(0.532)ET(0.468	2	-0.65056	2322.7	2276.2
Golga3	1	2.93E-08	114.7	VFKEEGS(1)PDR	2	0.09312	82956.8	73117.1
Cap1	0.765614	0.000175678	50.534	PQT(0.077)S(0.766)PS(0.112)PKPA	3	1.2303	23777.3	23212.9
Rftn1	0.660065	4.80E-36	101.75	FVSVVPQYQT(0.006)S(0.034)VS(0.	3	0.62635	5271.3	5050.3
Flna	0.951479	1.23E-07	49.871	LVS(0.037)NHS(0.951)LHET(0.005)	4	1.7266	4576.4	4458.7
Pcm1	0.581363	5.05E-06	87.447	KAS(0.408)AQAS(0.581)LAS(0.011	3	-1.0598	46929.6	45247.7
Tbc1d14	0.898906	0.000212667	57.175	S(0.003)LS(0.087)VPDY(0.899)GPT	3	-0.25176	4045.7	3186.6
Mark2	0.846071	5.16E-33	112.44	NS(0.001)AT(0.153)S(0.846)ADEQ	3	0.38813	9120.2	11083.2
Nefm	0.997552	0.00148131	89.317	S(0.998)IELES(0.002)VR	2	0.12829	41760.5	46416.0
Rps27a	0.960464	0.0001636	79.07	T(0.025)LS(0.96)DY(0.015)NIQK	3	-0.68634	13149.3	14818.2
Prkag2	0.891837	3.35E-09	73.138	KVDS(0.892)PFS(0.072)S(0.024)GS	3	-1.4383	52505.3	49042.0
RGD13071	0.769508	0.016282	47.712	S(0.77)LDQDS(0.119)PS(0.111)K	2	0.77535	8794.5	9232.1
Sh3kbp1	0.801605	3.80E-06	54.281	T(0.198)NS(0.802)LNRPGVLPPR	3	0.34043	15410.6	18281.2
Wdr60	0.998609	2.34E-06	82.651	AAQS(0.001)GS(0.999)PKEEK	3	-0.78797	43389.7	44336.2
Ank3	0.784938	4.58E-06	69.045	S(0.25)AS(0.785)LRS(0.922)FS(0.0	3	0.68084	59459.8	54207.3
Ppp3cc	1	0.00040987	90.827	IRS(1)FEAR	3	0.062841	12196.3	13194.8
Akap11	0.989016	1.56E-09	45.767	KPES(0.989)PY(0.011)AHLCGAPDS	4	0.45598	12085.4	11058.0
Plekho2	0.994926	4.24E-19	147.62	SS(0.005)S(0.995)LGDLLR	2	0.37152	64816.2	60870.0
Pdlim5	0.928356	0	234.98	KANSTPEPSQQS(0.065)AS(0.928)F	5	0.37608	26298.6	23321.5
Acin1	0.997487	1.99E-74	161.53	GLSPLSSTADT(0.003)KAES(0.997)F	3	-1.0967	103630.7	104620.4

7903.8	8972.2	8021.7	8467.1	0.1	0.1	178
2566.7	3422.4	3550.5	3200.2	0.1	0.5	147
22264.9	25899.7	25868.7	22891.0	0.1	0.2	197
41351.8	41249.6	46644.2	44214.0	0.1	0.2	166
5281.2	6122.9	5288.3	4792.0	0.1	0.4	635
62744.7	66823.7	74833.9	63335.0	0.1	0.2	1425
4413.5	4486.6	4648.9	4193.5	0.1	0.3	26
100207.3	110337.0	112880.9	98833.0	0.1	0.2	29
17591.1	16675.4	17563.2	17243.0	0.1	0.3	312
17591.1	16675.4	17563.2	17243.0	0.1	0.3	311
4926.5	4530.2	5649.6	5009.2	0.1	0.4	4947
23793.7	27889.5	23828.6	27277.0	0.1	0.2	279
74392.9	82065.8	87701.5	78225.0	0.1	0.1	542;643
45849.9	48449.9	48731.2	48542.0	0.1	0.0	286
3221.2	2746.2	2740.9	2950.4	0.1	0.5	1026
84763.6	87436.9	89111.0	83310.0	0.1	0.2	60
24878.6	26005.2	25102.4	26438.0	0.1	0.0	307
5591.4	5867.8	5958.8	5343.9	0.1	0.2	174
4225.7	4618.5	4391.1	5299.4	0.1	0.3	2518
45332.5	50426.6	50947.6	47006.0	0.1	0.1	1284
3432.5	3757.0	3730.5	4020.4	0.1	0.4	67
9476.1	10389.9	11635.4	10001.0	0.1	0.4	43
42364.2	50465.1	43819.7	46581.0	0.1	0.2	326
15221.2	15824.0	15329.7	15451.0	0.1	0.2	57
50424.6	55847.2	57566.8	50580.0	0.1	0.2	65
9795.6	9564.9	10212.6	10247.0	0.1	0.1	3851
16066.5	22069.6	15741.1	15887.0	0.1	0.6	360
43455.5	48050.6	48823.1	44700.0	0.1	0.1	29
53250.2	61437.1	60757.7	57950.0	0.1	0.1	921
13268.6	13432.7	14013.1	14279.0	0.1	0.1	433
11344.8	12226.1	12745.7	12252.0	0.1	0.1	486
63213.1	66539.9	72724.4	64620.0	0.1	0.1	394
24911.6	27016.1	28617.2	24811.0	0.1	0.2	318
105145.1	111579.9	120511.0	106180.0	0.1	0.1	385;491;491



Nr3c2	0.948269	1.60E-11	93.106	S(0.003)S(0.001)VS(0.047)S(0.948	2	-0.81929	7493.5	5411.1
Csnk1e	0.747247	6.96E-13	76.526	GAPANVS(0.747)S(0.15)S(0.103)D	2	0.54259	16255.0	16091.7
Dnm1l	0.927692	0.00661198	50.088	ELPS(0.072)AVS(0.928)RDK	2	-0.20057	32413.4	31069.0
Map2k6	0.953275	5.87E-27	82.635	EAFEQPQT(0.002)S(0.002)S(0.042	4	0.95231	8675.1	10218.2
Uqcc1	0.999978	5.38E-17	96.208	LSTARDS(1)PQPVEEK	3	0.25457	21086.6	24740.9
Shb	0.934243	3.21E-07	55.851	S(0.006)S(0.055)S(0.934)ERRPAT((	3	-1.0169	6966.4	6200.1
Pragmin	0.993871	5.12E-32	96.489	AAS(0.001)S(0.004)PDGFFWT(0.9	3	0.24764	7122.3	6383.7
Zfp219	0.943398	3.42E-23	76.799	APS(0.004)GET(0.053)PPS(0.943)F	3	0.60798	17580.1	17959.8
Inpp5j	0.78572	1.24E-05	78.287	FPSLALRPS(0.214)S(0.786)R	3	-1.7511	34557.9	35722.1
Nf1	0.976841	5.44E-36	104.18	SSSGLAT(0.01)Y(0.013)S(0.977)PP	3	-0.37888	34729.6	40713.1
Tns1	0.990311	3.60E-92	125.39	HPGAHQGNLVSSLHGNAVIS(0.99)F	5	-0.92262	33370.0	38466.6
Rtn3	0.679943	2.56E-15	86.8	VLPEKS(0.68)DS(0.215)LPS(0.105)	3	0.59049	21030.5	19787.2
Dpysl3	0.999995	4.30E-19	77.939	EES(1)REPVPEPKPAGVEIR	4	-1.7473	42672.9	36941.9
Cpeb2	1	8.53E-70	117.04	RS(1)PVS(1)PQLQQQHAAAAAFLI	4	-0.11873	77904.6	84071.9
Myh11	1	9.09E-212	214.24	VIENTDGS(1)EEEMDAR	3	0.19063	455579.7	451742.4
Camk1d	0.802232	4.47E-20	67.911	LQLGS(0.185)S(0.802)LDS(0.005)S	3	0.66677	37861.6	35785.7
Matr3	0.989829	5.79E-05	97.749	SFQQS(0.01)S(0.99)LGR	2	0.18165	30103.2	29244.8
Rbbp6	0.997703	8.91E-06	65.374	NLQPLMRS(0.998)PIS(0.002)R	3	-1.937	12926.3	12237.2
LOC68844	0.999026	6.76E-20	76.21	LSS(0.001)FDLS(0.999)PVNHEDQP	3	1.3323	11189.1	11663.5
Marcks	1	1.85E-17	99.092	VNGDAS(1)PAAAEPGAK	2	0.084388	32575.7	41769.4
Chmp7	0.632458	0.000174283	44.788	LSLS(0.003)EGGLVPS(0.182)S(0.18	3	1.7914	9951.8	10512.6
Cacng5	0.567282	6.02E-27	83.992	LS(0.415)NCS(0.567)DY(0.004)S(0.	3	0.84838	7535.1	6624.3
Hcn2	0.987821	4.43E-54	131.56	DS(0.012)AS(0.988)PGAASGLDPLC	3	0.234	53708.7	60033.1
Nhsl2	0.743326	2.32E-07	58.712	AT(0.151)T(0.743)PS(0.104)QLS(0.	3	-0.60632	3139.8	3583.9
Epb41l2	0.799863	8.40E-85	122.13	ASQPGPTAESQS(0.2)S(0.8)PHRR	3	0.36833	95651.7	91633.0
Cd40	0.996052	4.01E-09	52.054	RQS(0.996)NPGCAFPS(0.004)IECG	3	1.1303	19860.5	20502.4
Arhgap39	1	1.52E-19	100.43	AFS(1)EDEALAQQDSK	3	0.65811	33125.5	35048.6
LOC10369	1	0.00013189	47.774	GPS(1)PEHHKPLCK	4	1.0865	10657.5	9462.4
Apc	0.931882	0.002296	68.536	EAPS(0.068)PT(0.932)LRR	2	-0.020455	19637.5	22724.8
Tns1	0.787687	7.87E-67	94.389	QVMGPSGPGFHGNVVS(0.002)GH	6	0.23826	14301.4	16239.8
Deptor	0.804898	5.32E-35	156.08	STS(0.001)FMS(0.805)VS(0.19)PS(	3	0.69725	36160.8	36379.2
Sepp1	0.968238	1.42E-06	67.952	T(0.025)T(0.007)EPS(0.968)EEHNF	4	0.99616	10002.5	9378.3
Svil	0.662731	1.48E-10	64.298	KPS(0.663)VDNS(0.319)AS(0.018)	4	0.84799	5650.2	5521.8
Frdm6	0.998893	5.03E-05	90.412	ASGSS(0.001)AGS(0.999)MK	2	1.6359	36289.7	33827.8

5601.7	6251.1	6527.6	7196.5	0.1	0.5	299
16525.4	17454.2	17892.3	17406.0	0.1	0.0	389
35293.9	35408.8	35078.2	36133.0	0.1	0.1	542
9776.3	9896.8	10743.1	10307.0	0.1	0.2	28
21046.9	27062.3	23141.5	21987.0	0.1	0.4	58
6874.2	7139.7	7402.2	7092.8	0.1	0.1	163
7276.1	8038.3	6820.0	7576.9	0.1	0.3	805
18976.2	21641.7	18838.1	18373.0	0.1	0.3	657
33283.9	36746.4	40029.3	35032.0	0.1	0.2	891
36261.7	46539.3	37437.8	36621.0	0.1	0.5	866
39004.2	38192.8	41165.2	40308.0	0.1	0.2	1446
19260.4	21073.0	22825.2	20964.0	0.1	0.1	462
49484.6	48359.7	44194.8	46826.0	0.1	0.4	94
84688.0	84757.4	94317.4	87236.0	0.1	0.1	238
412804.3	493969.9	417455.1	513850.0	0.1	0.3	1954
37154.9	40243.1	39911.7	39473.0	0.1	0.0	327
28759.2	30382.0	36872.5	27872.0	0.1	0.4	9
11794.1	13496.5	13922.3	12484.0	0.1	0.1	361
11704.7	11257.0	13321.7	12734.0	0.1	0.2	98
36845.1	52397.7	31482.2	36182.0	0.1	0.7	46
9369.3	10469.3	12901.7	8843.1	0.1	0.6	441
6878.4	7747.0	7712.5	7259.2	0.1	0.1	225
53634.5	71729.5	54489.1	54532.0	0.1	0.5	842
3250.2	3723.9	3580.2	3467.1	0.1	0.2	708
97122.0	97645.6	112517.5	96981.0	0.1	0.2	58;58;58
20896.8	21775.9	22636.0	21747.0	0.1	0.0	234
35203.5	39229.0	38451.9	33965.0	0.1	0.2	599
11524.7	11415.4	10804.0	11957.0	0.1	0.3	273
18781.3	20949.8	23909.8	21177.0	0.1	0.3	2350
15862.1	16035.2	17650.8	16432.0	0.1	0.2	1395
35521.8	36042.4	41069.1	39601.0	0.1	0.1	162
11340.6	11490.2	11061.5	10630.0	0.1	0.3	201
5793.1	5683.5	6115.4	6525.1	0.1	0.2	820;452
35971.1	36522.0	39911.7	38154.0	0.1	0.1	367

RGD13117	0.659566	1.54E-19	63.625	S(0.174)AS(0.66)PDDDLGS(0.083)!	4	-1.0737	17890.2	17865.5
Esyt2	0.669849	2.48E-26	110.85	S(0.02)S(0.02)S(0.67)S(0.251)LLAS	3	1.6347	74065.4	79091.9
Phyhipl	0.786939	4.99E-54	99.29	DGNKS(0.787)QDS(0.213)GIAEME	5	-0.36676	30730.6	24995.4
Srrm2	1	0.00652198	88.37	ALPQT(1)PR	2	-0.13525	12900.0	12086.9
Usp32	0.938545	1.37E-06	81.992	LSS(0.061)S(0.939)KENLDASR	2	-0.54596	11294.9	11127.1
Map1b	0.5	1.63E-44	164.64	MSISEGT(0.5)VS(0.5)DK	2	-0.23456	48661.3	53667.7
RGD13054	0.669948	1.59E-13	109.07	SQS(0.67)FS(0.33)HQQPSR	2	-0.29519	10265.7	9844.5
Madd	0.570369	1.48E-12	53.878	AS(0.208)S(0.57)PNS(0.045)T(0.04	4	-0.62558	2158.0	1648.9
Tbc1d17	0.656437	2.09E-05	50.493	FLQDPYST(0.001)T(0.003)FS(0.261	3	1.0519	2653.4	2715.9
Prox1	0.994707	3.86E-05	58.98	DRAS(0.995)PES(0.005)LDLTR	3	1.2198	10181.2	10689.7
Ppp1cb	0.999944	2.04E-44	138.46	YQYGGLNSGRPV(1)PPR	3	-0.26812	17663.6	18164.9
Rltpr	0.733994	2.25E-20	67.641	T(0.051)HS(0.734)VS(0.214)ADPS(	4	-2.3042	22813.6	22520.8
Srsf2	0.883665	2.91E-07	78.516	T(0.113)S(0.884)PDT(0.003)LR	2	-0.89504	23223.9	23164.6
Prx	1	3.03E-05	110.08	VVKGS(1)PEAK	3	0.42732	836616.9	899064.3
Eppk1	1	0.000513217	60.364	QVS(1)AGDLFR	2	0.46935	17834.1	17568.2
Tbc1d1	0.67238	0.00519152	41.743	S(0.009)LT(0.262)ES(0.672)LES(0.0	2	-0.12559	3401.5	3182.7
Ndrp2	0.598003	5.57E-43	91.079	T(0.05)LS(0.598)QS(0.189)S(0.068	2	0.71932	2097.0	1371.7
RGD13051	0.943149	1.18E-21	85.166	VGDT(0.057)EKPEPERS(0.943)PPN	3	-0.75879	76698.8	81755.3
Nfkb1	0.905429	1.10E-134	193.76	KLS(0.093)FS(0.905)ES(0.001)LTGI	5	-0.26343	42702.7	40492.6
Acly	0.917073	2.49E-21	118.21	T(0.002)AS(0.006)FS(0.076)ES(0.9	4	0.97781	27128.7	20852.4
Map1a	0.78945	4.98E-24	68.657	ATVSPST(0.004)DET(0.195)PAGT((	4	-0.54492	3639.8	3144.0
Pcf11	0.65996	0.00274253	65.719	S(0.028)MS(0.312)PT(0.66)LAPK	2	-0.51919	26744.6	24326.3
Tm9sf2	0.937298	0.000616097	63.754	DACVIS(0.937)S(0.063)EFHER	3	-1.7748	5798.3	6050.4
Vps18	0.582394	9.41E-26	79.88	GQPAS(0.001)LLAY(0.582)LEQAG/	3	0.040928	7366.7	7129.1
Agfg1	0.999997	2.03E-54	126.59	GTPTQS(1)PVVGR	3	0.5133	109578.6	106619.0
Fam53c	0.999189	3.59E-17	97.083	RFS(0.999)LS(0.994)PS(0.007)LGPI	3	-0.17953	10383.7	11393.7
Cacna1h	0.49998	1.54E-13	75.319	S(0.5)S(0.5)PNLDVAHALLDSR	3	0.65574	3390.4	3617.4
Cacna1h	0.49998	1.54E-13	75.319	S(0.5)S(0.5)PNLDVAHALLDSR	3	0.65574	3390.4	3617.4
Dennd4a	0.986861	0.00173534	94.409	T(0.013)PS(0.987)IDLQR	2	0.93797	25934.8	28978.3
Clasp1	0.999988	1.72E-108	129.89	SGNMIQSANDKNFDEDS(1)VDGN	4	-1.0007	75113.8	64562.2
Stk4	0.967954	0.014746	73.499	NVS(0.032)GS(0.968)LK	2	0.71606	29168.2	30769.6
Psd3	1	8.03E-14	111.31	HPAGFET(1)PPER	3	0.58434	19112.7	18412.8
Vipas39	0.907626	6.62E-65	149	T(0.089)RPGS(0.908)FQS(0.003)LS	4	0.26902	61964.5	54810.6
Topbp1	0.77128	0.000125344	48.568	KEPS(0.183)FHLDT(0.771)PS(0.046	4	1.2888	5308.3	4780.4

16142.1	18714.7	19269.8	18071.0	0.1	0.1	17
75756.7	86495.3	79288.0	81479.0	0.1	0.1	668
26184.9	29359.0	31596.6	27523.0	0.1	0.4	38
11349.1	12568.1	14034.5	12647.0	0.1	0.2	1451
12146.5	13144.5	12509.5	11687.0	0.1	0.2	1250
66040.8	45047.7	72127.1	64707.0	0.1	0.7	1518;1392
10336.3	10320.0	11767.9	10802.0	0.1	0.1	517
2072.1	1869.4	2233.0	2248.5	0.1	0.5	829
2557.5	2674.0	2980.4	2908.6	0.1	0.1	226
10411.6	11108.5	10518.6	12169.0	0.1	0.2	511
18805.8	20762.8	19857.5	18405.0	0.1	0.1	316
22581.1	24618.2	24282.8	24474.0	0.1	0.0	1228
21472.8	24794.2	27141.4	21382.0	0.1	0.4	26
831400.2	1085429.2	904735.3	783420.0	0.1	0.5	381;381
19692.7	20078.7	20043.5	19405.0	0.1	0.1	1537
2790.6	3326.8	3494.8	3308.5	0.1	0.3	276
2400.0	2368.3	2254.6	1718.6	0.1	0.7	336
78177.7	85385.5	94841.1	75481.0	0.1	0.3	261
43784.5	46394.1	47602.7	43220.0	0.1	0.1	943
22204.2	25162.7	28534.9	22146.0	0.1	0.5	459
2973.0	3336.7	4228.4	2978.3	0.1	0.6	1500
23325.2	26186.7	28108.5	26102.0	0.1	0.2	514
6346.9	6683.0	6256.4	6724.4	0.1	0.1	197
6823.0	8138.2	7977.0	6924.3	0.1	0.2	682
107326.6	112294.9	119463.7	117890.0	0.1	0.0	181
10608.9	10986.4	12567.3	11449.0	0.1	0.2	195
3956.7	4103.4	3672.7	4074.4	0.1	0.2	1087
3956.7	4103.4	3672.7	4074.4	0.1	0.2	1088
28878.4	31672.2	29303.3	29588.0	0.1	0.1	1225
73493.3	74723.6	81001.1	74676.0	0.1	0.2	246;246
29501.2	28831.0	33799.1	34039.0	0.1	0.2	418
17783.8	19349.4	21520.4	18911.0	0.1	0.2	568
52998.9	61411.8	63871.8	58216.0	0.1	0.2	119
4914.4	5842.4	5853.2	4520.5	0.1	0.4	828

Il33	1	1.04E-07	57.525	GDVS(1)PPDQAFFVLHK	3	1.9678	5012.4	5163.1
Bag3	0.971041	2.50E-13	104.9	S(0.029)GT(0.971)PVHCPS(1)PIR	3	0.041969	73427.3	73746.7
Apc2	0.549674	2.07E-11	53.522	S(0.55)RT(0.439)PPAPPGQPEAS(0	4	1.3799	5554.8	6059.5
Nacad	0.976491	2.92E-10	87.088	QRVS(0.976)LS(0.021)PHS(0.003)/	4	-0.43207	58039.4	60973.1
Stk10	0.98539	0.00435107	57.164	S(0.015)RPLS(0.985)VDAR	2	0.57006	12964.4	11287.3
Ylpm1	0.83317	1.05E-25	75.193	VFS(0.167)S(0.833)EQGLGESSALS	3	2.0262	7957.2	6726.1
Specc1l	0.729229	1.01E-23	132.64	RS(0.236)S(0.729)T(0.033)S(0.002	4	0.29405	24993.8	24045.5
Eif3a	1	0.00670337	67.081	DRES(1)LRR	2	-1.2939	10090.3	10320.2
Ppm1h	0.986999	1.23E-08	118.28	VGTIT(0.001)S(0.012)T(0.987)PNR	2	-0.13407	48048.3	48381.6
Phldb1	0.992891	0.00184514	94.909	VLTT(0.007)S(0.993)PSR	2	0.3758	12786.7	12045.2
Nfatc4	1	6.44E-29	80.664	RGS(1)LGEEGPEPPPPPLPLVR	4	0.90988	11191.5	11433.1
Dock6	0.812714	1.69E-56	170.98	T(0.813)S(0.187)ISQGPSTAAR	2	0.30933	18345.8	14952.0
Dync1li2	0.672282	1.54E-41	108.5	KT(0.046)GS(0.672)PGS(0.269)PS(	3	-0.55557	18870.6	15263.6
RGD13071	0.735405	8.86E-07	45.489	QPS(0.735)T(0.24)APQPVKEDIAT((	3	0.51607	10307.6	9349.6
Cdc42ep4	0.999931	0.000165522	82.85	ADTRDGS(1)PK	3	-0.068513	75305.8	74744.9
Dok4	0.550095	2.60E-08	61.127	GT(0.001)EHY(0.022)S(0.411)Y(0.5	3	-1.1719	13675.3	13805.8
Katnb1	0.642581	4.72E-05	57.288	RS(0.205)PS(0.643)S(0.152)EDDKI	3	-0.014384	13343.7	13573.2
Ptpn11	0.880352	5.32E-23	66.925	YSLVDQT(0.022)S(0.074)GDQS(0.8	4	0.86334	6025.9	6421.7
Otud7a	0.997869	1.94E-16	60.381	RPEAEGAPGPERS(0.998)PGPPAA	5	-0.8105	19638.7	22052.4
Ppp1r12c	0.879923	1.87E-45	164.6	T(0.004)GS(0.88)S(0.116)GALGPSF	2	0.45854	26261.6	27054.3
Rem1	0.600297	2.31E-05	66.331	LGQS(0.6)AS(0.4)LNPPPIR	2	0.39899	8246.3	7997.9
Cdk18	1	0.000169649	83.182	RLS(1)LPMDIR	3	-0.37412	646.8	395.9
Sorbs1	0.951665	1.11E-29	116.39	YS(0.014)FS(0.952)EDT(0.034)K	3	-0.35237	109160.0	100796.6
Sorbs1	0.951665	1.11E-29	116.39	YS(0.014)FS(0.952)EDT(0.034)K	3	-0.35237	109160.0	100796.6
Ankrd17	0.999748	0.0065662	96.948	LTVAS(1)PK	3	0.55804	84075.6	75071.8
Lmod1	0.969331	6.64E-05	55.546	GS(0.001)PKPS(0.03)PQPS(0.969)F	4	0.72971	84129.2	92013.6
Lad1	0.544197	5.00E-16	67.217	ALPGKS(0.413)PPS(0.544)S(0.033)	4	0.14687	11652.7	11086.5
Tbc1d14	0.967167	0.00406226	40.983	KQS(0.967)ES(0.033)EIIPER	3	-0.75094	13194.6	11319.1
Arhgap17	0.693037	6.67E-12	46.76	ADSNSVGGPVPS(0.013)S(0.013)S(	6	-0.39797	3368.1	3255.2
Skiv2l2	0.829582	0.0141248	40.83	LQS(0.83)EPAS(0.129)S(0.042)GK	3	0.7693	16284.8	14178.7
Acin1	1	0.0128875	46.462	GAES(1)EREK	3	3.3408	4865.4	4803.1
Pfkfb2	0.990767	7.37E-08	56.428	NYS(0.991)VGS(0.009)RPLKPLSPLF	4	-0.41709	25697.5	25919.0
Tle3	0.99513	0.00190043	87.696	S(0.003)S(0.001)T(0.995)PGLK	2	0.60437	64454.8	65445.2
Sf3b1	0.995605	0.000678657	41.513	VLPPPAGY(0.004)VPIRT(0.996)PAI	3	-0.20634	1512.6	1509.4

5465.6	6104.7	5747.6	5053.6	0.1	0.3	208
73842.5	80239.9	86518.5	72139.0	0.1	0.2	288
6087.9	5992.1	6447.2	6696.4	0.1	0.2	1207
54404.3	63915.4	64667.9	58881.0	0.1	0.1	1157
13014.2	13524.0	13849.6	12911.0	0.1	0.2	430
6949.0	8521.2	7834.9	7028.6	0.1	0.4	697
21926.3	24551.1	24651.5	27513.0	0.1	0.2	833
10808.2	10552.2	11401.4	11795.0	0.1	0.1	1336
43646.1	51274.6	50546.9	49607.0	0.1	0.1	113
13828.6	14387.5	14071.9	13335.0	0.1	0.2	420;477
11361.9	12899.2	12073.5	11770.0	0.1	0.1	289
15651.3	18163.6	18163.7	16592.0	0.1	0.3	1264
15648.1	17968.9	18697.0	17155.0	0.1	0.3	443
9217.1	10846.3	10166.5	10205.0	0.1	0.1	2931
79941.8	84055.6	85175.2	79430.0	0.1	0.1	151
12718.2	15210.2	14234.3	14018.0	0.1	0.1	257
11743.0	14223.6	13292.9	14282.0	0.1	0.2	362
6041.2	6726.0	7116.0	6148.7	0.1	0.2	558
17349.4	21390.9	22809.1	19638.0	0.1	0.4	719
25158.6	28530.8	29248.8	27080.0	0.1	0.1	431
8919.8	8220.4	10191.8	8799.3	0.1	0.4	49
473.1	620.3	622.4	396.5	0.1	0.7	75
109753.9	113724.8	112250.4	119750.0	0.1	0.1	679;467;730
109753.9	113724.8	112250.4	119750.0	0.1	0.1	421
70553.8	85213.9	88539.3	74645.0	0.1	0.3	1443
79673.5	103331.3	82910.7	90407.0	0.1	0.4	511
12040.0	12149.1	12808.8	12654.0	0.1	0.1	323
13657.2	13115.9	14697.1	13467.0	0.1	0.3	112
3524.2	3974.2	3906.7	3093.5	0.1	0.4	575
14055.4	16724.9	15765.7	15657.0	0.1	0.2	54
4646.3	4793.4	5172.0	5516.2	0.1	0.1	415;521;521
24823.2	27359.3	29940.2	25371.0	0.1	0.2	385
72585.2	75359.3	73973.7	69659.0	0.1	0.1	311
1402.1	1502.7	1488.0	1794.1	0.1	0.3	426



Smad1	1	0.0029018	78.113	LQVS(1)HRK	3	-0.37734	24331.9	21202.3
Ube2o	0.992231	1.55E-15	62.781	EHPEQT(0.001)ET(0.005)APDAS(0	4	0.5682	5365.4	4931.8
Fn1	1	5.36E-83	117.21	TNTNVNCPICFMPLDVQADRDDS(	4	-0.61034	14219.1	11846.7
Zc3h12a	0.5	2.92E-41	108.28	S(0.5)S(0.5)PGPHQEGSTQTCAPAG	3	-0.07076	1894.7	1985.6
Zc3h12a	0.5	2.92E-41	108.28	S(0.5)S(0.5)PGPHQEGSTQTCAPAG	3	-0.07076	1894.7	1985.6
Ptpu	0.801582	4.61E-05	49.773	KGS(0.802)PY(0.181)HT(0.017)GQ	3	0.21162	9135.0	10036.3
Cenpa	0.698865	3.40E-32	96.016	RPS(0.699)S(0.268)PAPGPS(0.022)	3	0.71306	9335.8	11127.1
Stxbp5l	0.706626	4.43E-42	79.407	LQCDVEDIIT(0.707)PEPET(0.222)S	3	-0.11641	4707.7	3692.4
Uchl1	0.993037	4.29E-05	50.722	QFLS(0.001)ET(0.006)EKLS(0.993)I	3	1.0107	11745.9	11047.0
Fam63b	1	0.00695221	56.404	QPGNS(1)ERK	3	1.078	7105.1	7649.3
Nav2	0.840324	7.83E-22	85.087	GIS(0.16)S(0.84)DNESVASCNSVK	3	1.5111	12331.1	12508.1
Fyco1	0.999996	3.15E-17	94.281	TLATSSSYMWKPPS(1)R	3	0.09249	11626.2	9732.0
Ahnak	0.910478	1.49E-48	119.38	LPS(0.076)GS(0.91)GAAS(0.922)P1	3	0.3408	78326.8	123852.7
Fyn	1	1.55E-273	249.49	LTEERDGS(1)LNQSSGYR	3	-0.043919	30416.9	30203.5
Cgn1	0.602315	1.98E-39	116.51	RS(0.602)S(0.377)S(0.011)S(0.011	3	-0.19251	38220.6	34207.3
Aspscr1	0.756203	8.17E-137	156.49	SKPPGS(0.102)PVS(0.756)S(0.14)N	3	-0.096591	25588.9	23509.1
Ankrd17	0.99999	1.64E-79	101.01	ATVPAAAEGEGS(1)PPAAAAVAAPP	4	-0.65417	16880.0	18568.6
Sparcl1	0.828933	4.49E-58	115.57	GEESQEQPVS(0.829)DS(0.171)HQ	3	-0.097083	3023.8	3206.6
Map3k3	0.595493	0.00338592	47.301	S(0.595)S(0.404)PPPGY(0.001)VPE	2	-0.13642	42962.7	49217.5
Bcar3	0.947859	0.0499935	59.052	RFS(0.948)S(0.052)DAR	2	0.87194	5519.5	5863.7
Agfg1	0.687994	5.91E-16	60.95	S(0.144)S(0.162)S(0.688)ADFGS(0	4	-0.16448	19437.1	18361.3
Dctn1	0.662182	0.0470946	42.835	MS(0.662)T(0.05)EAS(0.288)AR	2	2.757	2919.2	3097.2
Psip1	0.882721	0.000229506	43.81	QPCPS(0.883)ES(0.117)DMVIDEDH	3	0.2202	32919.1	38526.9
Abhd12	0.932641	0.000542985	41.621	GT(0.004)AEPHS(0.933)AS(0.063)I	3	0.068226	5209.7	5686.2
Map2	0.528113	6.52E-05	77.746	T(0.781)PGT(0.226)PGT(0.464)PS(	2	0.13239	9243.1	9634.1
Sfpq	0.708673	0.00187575	40.475	T(0.001)EEKIS(0.29)DS(0.709)EGFI	3	0.013181	15086.2	15679.3
Vasp	0.547461	1.25E-70	102.8	MKS(0.157)S(0.043)S(0.043)S(0.04	3	0.70803	5430.3	6051.0
Slu7	0.999992	3.98E-71	104.53	DHNS(1)EDEDEDKYADDIDMPGQN	4	0.042818	49064.4	55204.4
Magi3	0.539052	2.46E-15	88.385	S(0.093)GS(0.539)PKLDPS(0.349)E	4	0.19603	5644.8	5942.0
Pxn	0.870719	0.00231299	102.55	IS(0.871)AS(0.113)S(0.012)AT(0.01	2	0.026004	11583.7	12816.4
Ahnak	1	5.77E-13	74.141	MS(1)LPDVDLCLKGPK	4	0.54675	47163.3	50043.4
Dclk2	0.999974	6.44E-33	98.508	GNGLIPS(1)PAHSAHCSFYR	4	0.24855	45893.1	45519.8
Ajuba	0.913036	1.17E-36	101.85	GTQPGRHS(0.913)VT(0.087)GYGD	3	0.015346	5327.8	4713.3
Snupn	0.631508	0.00622744	81.915	RNS(0.109)T(0.26)T(0.632)AK	3	1.0062	12849.9	13396.6



20159.0	21476.7	26429.7	23143.0	0.1	0.4	78
4907.4	5737.9	5423.8	5283.7	0.1	0.1	1186
16643.5	15612.8	13827.2	16755.0	0.1	0.5	2174
2130.1	2012.2	2272.4	2217.1	0.1	0.2	385
2130.1	2012.2	2272.4	2217.1	0.1	0.2	386
9122.3	10313.1	9383.5	10909.0	0.1	0.2	853
9299.0	9754.2	11681.3	10759.0	0.1	0.4	15
3974.1	4210.0	4507.9	4668.7	0.1	0.4	567
11703.6	12418.5	13258.7	11642.0	0.1	0.1	125
7866.5	7408.7	7723.7	9340.9	0.1	0.4	575
12601.1	14132.3	13716.0	12658.0	0.1	0.1	932
11656.8	11942.3	11636.5	12140.0	0.1	0.2	195
97284.9	99379.2	116225.7	108390.0	0.1	0.6	213
29914.3	32687.5	34740.5	30523.0	0.1	0.1	21
42330.2	40588.5	46097.0	37482.0	0.1	0.4	296
26665.0	27871.9	28962.4	25141.0	0.1	0.2	119
17611.3	19769.6	18772.9	18870.0	0.1	0.1	15
3939.5	3480.4	2796.7	4727.1	0.1	0.7	157
45065.2	54594.3	45640.7	48284.0	0.1	0.3	175
6047.2	6363.4	6629.3	5869.6	0.1	0.2	292
19984.4	19259.2	22739.7	20532.0	0.1	0.2	293
3325.6	3176.4	3425.6	3507.9	0.1	0.2	19
39627.0	37004.8	40038.9	43159.0	0.1	0.3	205
5502.3	6151.4	6105.4	5489.4	0.1	0.2	52
8510.4	10273.8	10036.4	9329.0	0.1	0.2	1708;1622
13824.4	16446.6	15462.2	16348.0	0.1	0.1	267
6146.5	5473.5	6723.4	6880.7	0.1	0.4	325
50216.0	79817.5	40620.2	46753.0	0.1	0.7	235
4163.4	5514.8	5983.9	5547.1	0.1	0.5	702
11853.7	12464.7	12987.2	13784.0	0.1	0.1	258
44370.0	51104.1	54147.1	47975.0	0.1	0.2	1063
42289.7	51352.7	49580.8	43773.0	0.1	0.2	47
5052.4	5770.5	5301.1	5264.7	0.1	0.2	273
13743.5	14391.9	15183.3	13708.0	0.1	0.1	185

Gjb1	0.999959	1.46E-14	77.505	LLSEQDGS(1)LKDILR	3	-0.71842	7878.4	7636.8
Scfd1	0.658917	4.49E-53	127.88	VNLEES(0.034)T(0.659)GVENS(0.2	4	-0.3389	43992.0	48588.9
Eef2k	0.729823	5.48E-06	52.185	T(0.008)ECGS(0.73)T(0.172)GS(0.0	4	0.74425	5514.0	6678.8
Usp31	0.981273	2.67E-06	89.157	QASVT(0.018)S(0.981)AASSR	2	-1.2295	19599.3	21124.4
Ice1	0.969587	1.65E-07	87.824	DLHHS(0.001)EQKS(0.97)PT(0.029	3	0.46427	21761.6	20269.9
Unk	0.705716	1.15E-30	89.201	S(0.002)S(0.003)GLAS(0.996)PPHL	3	-0.60259	15000.3	15949.1
Rph3a	0.867225	9.39E-07	40.208	DS(0.001)EGWDHGHGGGAGDT(0.	5	0.49146	2223.3	2205.1
Ablim1	0.727426	2.07E-17	72.21	T(0.016)LS(0.254)PT(0.727)PS(0.0	3	-0.76791	75632.6	77933.6
Pak4	0.955034	1.05E-21	69.99	GAPS(0.955)PGVLGPHAS(0.045)EF	3	-0.016123	5039.1	5077.0
Nek9	0.94039	1.43E-38	80.943	GMEGLIS(0.94)PT(0.06)EAVGNSC	3	-3.0565	16866.9	16564.5
Trim11	1	4.62E-08	57.525	LHPPS(1)PVPQGVCAHR	4	-1.0982	1264.8	1715.8
Map1b	0.999831	1.00E-14	113.01	KES(1)KEEAPEATK	3	0.68331	149907.9	173586.8
Prickle2	0.853339	0.00360482	78.136	FS(0.853)MPDLS(0.147)K	3	1.2233	54662.9	44285.7
Rap1gap	0.999999	0.00720935	63.091	TEVLQGF(1)R	2	0.010803	13133.8	12680.3
Wrnip1	0.998873	0.0094547	95.815	S(0.001)SS(0.999)PARK	2	-0.10605	44438.0	39413.2
Nab2	0.99328	0.00658827	43.442	IS(0.007)ET(0.993)AGT(1)RK	3	2.1462	30463.4	32097.9
Nab2	0.999896	0.00658827	43.442	IS(0.007)ET(0.993)AGT(1)RK	3	2.1462	30463.4	32097.9
Palmd	0.857978	2.31E-07	74.649	T(0.106)ELS(0.797)PS(0.858)RAS(C	2	0.17402	32532.7	28700.8
Azgp1	0.5	0.00166912	86.189	AEFS(0.5)S(0.5)GEK	2	-0.18052	12273.9	11692.0
Azgp1	0.5	0.00166912	86.189	AEFS(0.5)S(0.5)GEK	2	-0.18052	12273.9	11692.0
Sox5	0.999096	6.01E-05	51.495	RKGS(0.999)LADVVD(0.001)LK	3	-0.86658	13359.2	11043.7
Gpam	0.998095	0.000789298	43.208	S(0.002)DEEDED(0.998)DFGEEQF	3	-0.47077	4251.9	5000.3
LOC10091	0.905974	0.0256816	66.27	S(0.906)PS(0.094)PPPK	2	-0.51886	21284.6	21777.1
Fam65a	0.761733	9.19E-55	89.973	S(0.048)AT(0.189)S(0.762)PALSTA	4	-0.65875	8294.7	7535.4
Ppfibp2	0.92803	2.73E-15	87.082	CS(0.044)S(0.928)PT(0.028)PGPPF	4	-0.51423	37669.6	38680.5
Kcnf1	0.78334	1.37E-11	68.41	LS(0.029)HS(0.783)DT(0.188)FIPLL	3	0.39887	4364.0	4821.2
Slc12a7	0.992708	2.94E-10	58.812	ENSPFINNVEVERES(0.993)Y(0.007	4	0.36319	3147.0	3729.9
Prx	0.710268	1.06E-07	51.225	TVPTGDLALRPGT(0.062)VS(0.227)	3	0.88574	37093.5	37003.3
Nalcn	0.979995	3.19E-06	66.989	MLS(0.02)GS(0.98)FEGQPAK	3	-1.2159	4811.3	4477.5
Gab1	0.999868	1.16E-12	93.424	DAGS(1)QDCYDIPR	3	-0.31671	30482.5	29505.9
Foxo3	0.994043	2.70E-05	119.39	AVS(0.994)MDNS(0.006)NK	2	0.62013	46043.4	44173.9
Synrg	0.927562	2.71E-06	73.885	S(0.011)LS(0.062)LGDKEIS(0.928)F	3	-0.2274	60931.6	56213.6
Zdhhc5	0.515675	4.62E-19	71.428	SIGSAS(0.004)PGPGQPPLS(0.516)S	3	0.76067	23896.5	24126.6
Map2	0.929177	0.000915872	40.622	T(0.074)PGT(0.929)PKS(0.955)GIL	4	0.39754	5581.0	5370.7

7847.9	7853.3	8779.0	8655.0	0.1	0.1	258
44308.3	45023.6	58692.1	44449.0	0.1	0.5	293
6174.8	6938.2	6463.2	6479.5	0.1	0.2	70
19492.5	21398.6	21993.8	21789.0	0.1	0.0	539
20433.7	22866.0	23414.0	21338.0	0.1	0.1	649
15730.1	17058.2	16289.3	17188.0	0.1	0.0	385
2361.2	2468.0	2575.3	2307.3	0.1	0.1	262
71690.9	83783.9	82731.2	77356.0	0.1	0.1	460;361
4571.7	4944.6	6443.1	4514.3	0.1	0.5	257
18048.9	18951.2	19460.0	17326.0	0.1	0.1	792
1065.7	1312.8	1638.9	1429.3	0.1	0.6	85
148294.0	209509.3	146992.0	154310.0	0.1	0.6	561;435
56218.4	56099.0	58057.3	53852.0	0.1	0.3	574
12561.7	13588.9	14879.8	13084.0	0.1	0.1	656;664
38498.5	44035.8	46000.8	42442.0	0.1	0.2	133
32899.6	33240.8	35074.0	35051.0	0.1	0.0	133
32899.6	33240.8	35074.0	35051.0	0.1	0.0	136
30636.1	31769.0	37880.2	29829.0	0.1	0.4	373
13645.5	12867.3	12719.0	15141.0	0.1	0.3	136
13645.5	12867.3	12719.0	15141.0	0.1	0.3	137
11605.7	13290.8	13498.0	12204.0	0.1	0.3	103;126
4417.3	5046.0	4905.1	4851.7	0.1	0.2	695
20592.3	22850.6	23502.7	22580.0	0.1	0.0	740
9285.0	9051.7	9263.5	8883.0	0.1	0.3	505
40194.5	42933.6	45157.7	38128.0	0.1	0.2	212
4529.4	5270.2	4813.5	4769.7	0.1	0.1	484
4035.3	3429.1	4430.8	3958.5	0.1	0.5	62
36521.5	36303.1	43284.4	40217.0	0.1	0.2	115;115
4417.3	4800.6	5027.2	5016.6	0.1	0.1	742
33068.8	33532.3	34984.2	32270.0	0.1	0.1	402
43976.1	50227.5	48416.0	46699.0	0.1	0.0	252
54702.4	64106.8	65316.6	56706.0	0.1	0.2	1097
26571.3	27650.8	27734.5	25410.0	0.1	0.1	693
4640.6	5970.0	5732.8	5185.6	0.1	0.3	1715

Ccdc92	0.519445	0.00348391	42.348	GT(0.035)S(0.519)GQHS(0.446)PA	3	0.04156	424.5	442.4
Prrg3	0.997095	0.00133543	56.043	HHPS(0.997)Y(0.003)AQNR	3	-0.80973	2445.2	2611.4
Abi2	0.655348	8.11E-24	56.726	ENSGSGSVGVPIAVPT(0.031)PS(0.0	4	-0.079424	3473.3	2784.1
Kank4	0.996149	0.0128697	50.786	EAGGS(0.996)PWS(0.004)R	2	-1.2184	33267.4	34821.6
Afap1l2	0.971387	1.12E-12	70.094	KFS(0.971)EPNT(0.028)YIDGLPSR	3	-0.83079	11016.8	9822.0
Cacna1a	0.760721	1.03E-11	59.55	EMGT(0.009)DGY(0.005)S(0.761)E	3	-1.0312	16442.3	17729.4
Arfgef1	0.791299	8.59E-18	71.853	QQAPLVS(0.205)VS(0.791)PAS(0.0	3	-1.8045	31589.3	31743.6
Gars	0.754991	1.02E-05	79.875	AEVS(0.755)ELPS(0.245)VVR	2	-0.032227	9554.3	9280.0
Irf2bp2	1	8.65E-51	154.74	LEEPELNRQS(1)PNPR	4	-0.83264	68585.0	64900.1
Palmd	0.9998	4.55E-07	117.81	TELS(1)PSR	2	0.63631	104494.2	95158.5
Dnajc5	0.806566	9.56E-82	174	S(0.005)LS(0.026)T(0.159)S(0.807)	3	0.43314	54071.3	62180.8
RGD13105	0.9905	0.00811486	63.816	S(0.991)PS(0.009)GPVK	2	-0.41655	43239.4	43667.1
Tns1	0.932434	1.33E-53	125.04	EAFEEMEGT(0.001)S(0.032)PS(0.0	3	-0.50619	136084.7	137443.4
Poli	1	0.000357773	79.089	QTQAGCLS(1)PR	2	-0.56973	9571.6	8172.0
Adgrb3	0.970664	8.39E-15	90.348	SETGSTIS(0.001)MS(0.028)S(0.971	2	-0.15255	13669.3	14146.9
Sfswap	0.595964	6.44E-22	85.937	TLPMLEGKPPERPS(0.596)S(0.404)	4	0.29067	12115.2	10146.5
Rundc3a	0.876614	8.26E-120	182.4	RHS(0.877)FMS(0.059)T(0.059)EP	4	-0.52352	41015.1	43680.2
LOC103691	0.985196	7.72E-35	146.59	S(0.985)LEGS(0.015)DEAPLLQR	3	1.2734	27900.4	25324.5
Etl4	0.855195	0.0115671	63.073	LS(0.145)S(0.855)LPVSR	2	-0.22691	7057.8	6521.7
Mga	0.960548	0.000500024	57.175	SILPY(0.039)PVS(0.961)PK	3	-0.0077489	2207.5	2366.4
Nab1	1	6.37E-05	77.644	CGERDELS(1)PKR	3	1.3306	108018.6	115636.8
Pkp4	0.686665	1.15E-23	98.684	AQS(0.687)PS(0.275)YVT(0.013)S(	2	-1.4034	12827.3	10414.2
Atxn2l	0.673082	1.32E-06	83.455	S(0.002)TS(0.121)T(0.673)PT(0.01	2	-0.71549	24408.2	22599.7
Sorbs1	0.853861	1.27E-38	115.57	TPVDYIDLAYS(0.024)S(0.112)S(0.8	2	-0.44617	49721.6	52026.7
Taok3	0.998272	1.12E-17	69.248	NGPLNES(0.998)QEEEEEDS(0.002)E	3	0.60119	1862.4	1908.5
Micall1	0.713397	0.000132873	48.216	KPS(0.116)PS(0.713)T(0.224)S(0.9	4	0.63781	11151.0	12965.5
Ctnna2	0.692122	2.17E-65	154.92	S(0.36)RT(0.667)S(0.692)VQT(0.28	3	0.7386	5961.3	7370.7
Ctnna2	0.666565	2.17E-65	154.92	S(0.36)RT(0.667)S(0.692)VQT(0.28	3	0.7386	5961.3	7370.7
Prx	1	5.37E-65	148.11	GRDS(1)EADVLVAGEAELEGK	3	0.77284	157755.7	148401.6
Map4	0.877999	6.16E-08	60.134	ET(0.006)S(0.081)GS(0.878)QPPEL	2	1.3655	4596.9	5430.7
Epb41l2	1	5.10E-33	133.16	AEVAS(1)QK	2	0.29529	433956.4	479099.5
Amotl1	1	7.46E-13	73.279	QENS(1)PGHGK	2	0.70013	49264.8	54849.0
MAST1	0.835912	6.37E-21	71.678	S(0.002)KPAS(0.134)PKLS(0.866)P	4	1.1937	27630.8	27032.4
Irs2	0.789163	2.66E-05	49.537	SPLSDYMNLDIFS(0.21)S(0.789)PK	3	0.2989	7226.8	7095.2

460.6	459.3	479.1	499.5	0.1	0.1	257
2551.3	2644.0	2524.9	3071.7	0.1	0.3	114
3182.6	3927.1	3278.8	3019.1	0.1	0.5	214
35900.8	35600.2	40288.9	36749.0	0.1	0.1	529
11115.9	12296.4	10805.1	11511.0	0.1	0.2	503
18971.9	19605.7	18547.4	19411.0	0.1	0.1	1930
32308.7	36281.1	34261.8	33063.0	0.1	0.1	1590
9763.5	9871.6	10536.8	10571.0	0.1	0.0	689
71917.6	74428.8	75063.7	73018.0	0.1	0.1	19
103193.6	109132.5	111587.8	107360.0	0.1	0.1	371
53768.7	69617.5	58958.2	55613.0	0.1	0.4	12
47362.7	46886.9	51702.1	46873.0	0.1	0.1	182
130887.1	143643.7	161033.9	133460.0	0.1	0.2	1137
9566.4	9581.7	10764.4	9241.7	0.1	0.3	452
14343.9	14686.7	16651.6	14339.0	0.1	0.2	1411
11968.7	12893.7	12741.4	11451.0	0.1	0.3	585
38613.5	43433.0	45842.7	44322.0	0.1	0.1	366
25562.1	27977.5	29206.0	28179.0	0.1	0.1	50
6211.2	7466.5	7114.8	6862.1	0.1	0.1	203
1739.8	2521.3	2268.2	2051.6	0.1	0.5	874
122731.9	112888.9	138047.4	124390.0	0.1	0.3	327
14285.4	12666.0	14938.6	13058.0	0.1	0.5	220
21691.0	24372.9	25424.1	24643.0	0.1	0.1	678
53665.4	55575.5	55230.7	57598.0	0.1	0.0	1646;945;1152;759
1951.7	1937.2	2302.2	1961.7	0.1	0.3	324
10370.4	12750.7	14463.0	10157.0	0.1	0.5	505
7078.6	8892.2	6845.2	6380.1	0.1	0.6	654;657
7078.6	8892.2	6845.2	6380.1	0.1	0.6	653;656
157556.4	164246.0	182353.4	155910.0	0.1	0.2	971;971
4918.2	5441.5	5196.8	5558.2	0.1	0.2	631
440804.4	507114.4	525997.2	434050.0	0.1	0.3	203;203;203
47982.3	59589.2	52642.5	52594.0	0.1	0.2	879
28314.2	28137.0	33195.3	28590.0	0.1	0.2	1510
7567.5	8188.3	7804.9	7728.8	0.1	0.0	980

Neo1	0.937456	1.60E-26	79.177	NS(0.937)QDIT(0.063)PVDNSMDS	3	-1.1181	5471.1	5188.8
Shroom2	0.98506	0.00628824	94.309	S(0.015)YS(0.985)EPEK	2	1.7397	13690.8	9797.0
Pphln1	0.768939	1.27E-24	70.994	SIQS(0.004)LKT(0.113)S(0.114)RD	3	-1.0215	39012.5	38862.6
Ralgapa1	0.877491	5.14E-66	147.11	RGS(0.805)S(0.317)PGS(0.877)LEII	3	-0.79462	82836.4	87767.4
Map1a	0.982431	4.26E-106	145.83	APSLDSS(0.001)LPQLPS(0.982)PS(I	4	-2.4466	62968.7	57971.9
Usp47	0.999982	2.30E-07	81.632	S(1)VDAILEESTEK	3	-0.97928	2388.2	2665.9
Tcof1	0.531194	5.85E-11	65.231	GTAAS(0.003)T(0.014)T(0.072)GA	3	0.27698	9380.8	6974.4
Bcr	0.506064	1.03E-11	59.539	HQDGLPY(0.003)IDDS(0.506)PS(0.	3	-0.69993	20021.5	18366.7
Zfhx3	0.835596	4.30E-10	61.039	IDS(0.002)RPPS(0.836)PEPQKQEYI	4	1.3809	19878.4	17206.2
Kazn	0.941242	0.0455794	40.317	AADS(0.059)GS(0.941)WER	2	-0.92399	8629.4	8845.1
Ddi2	0.958098	7.84E-15	79.347	T(0.001)S(0.001)T(0.039)PQGLDS(	3	1.5592	4114.0	4697.8
Serf1	0.998763	0.00103748	56.205	EDSLT(0.001)AS(0.999)QRK	3	2.9766	6798.3	7050.2
Zbtb22	0.982199	7.63E-23	91.789	ASENQS(0.982)PS(0.016)S(0.002)S	3	-0.40066	14493.4	15309.6
Rabep1	0.68806	7.01E-39	120.4	RAQST(0.002)DS(0.247)LGT(0.688	3	-0.083131	53500.0	49873.4
Arhgef18	0.734985	9.14E-12	44.747	S(0.263)LS(0.735)PVLPAAHGS(0.0	5	2.2801	4293.3	4562.9
Plec	0.985295	2.59E-27	104.84	SGGGS(0.015)VGNGS(0.985)VLDP	2	1.0046	11751.7	11074.5
Cul4a	0.979144	0.00244397	48.214	KGS(0.979)VS(0.021)ALMGR	3	0.27297	28678.0	26545.3
Snph	0.919422	0.00799163	62.894	RT(0.919)S(0.078)PPVS(0.002)VR	2	-0.23138	9908.1	9931.1
Ccdc25	0.998497	0.00206906	40.493	VENMSS(0.001)NQDGND(0.998)I	2	-2.2234	6621.8	6970.6
Hr	0.946164	2.75E-06	41.475	AGRS(0.946)PLPCPS(0.047)LCELLA	4	-2.7605	3103.9	3182.7
Scn10a	0.999968	4.28E-08	94.717	SPLPQS(1)PNPGRR	3	-0.063908	66440.6	64487.6
Tiam1	0.934863	2.07E-06	89.911	ANS(0.935)LGDLY(0.065)AQK	2	1.005	21761.6	19787.2
Kidins220	0.924445	2.82E-21	77.137	GMPHS(0.076)LS(0.924)GLQDPIIA	3	0.67051	7614.2	7777.2
Reep2	0.98402	3.03E-78	128.06	S(0.002)FS(0.014)MQDLT(0.984)LI	3	0.21777	82249.6	79570.2
Ssh3	0.998978	4.49E-07	65.374	QAS(0.999)VDDS(0.001)REEGKA	2	-0.32925	18540.2	17512.2
Ei24	0.915392	0.00090974	72.272	RAS(0.915)S(0.085)LLAQR	2	1.2748	25448.2	26773.5
Sh3pxd2a	0.53069	9.40E-12	46.392	VGESSEDVALEEET(0.006)IY(0.006)	4	1.9477	6284.7	6985.5
Piezo2	0.999172	2.52E-10	48.286	KPDT(0.001)EEVAQFNS(0.999)ECE	4	-1.4054	25852.5	25132.5
Aifm3	0.99839	1.35E-14	77.037	GKEELSAS(0.002)GKGS(0.998)PR	3	0.42635	30451.5	29541.0
Snx18	0.997177	0.00592054	70.496	SDLS(0.997)LGS(0.003)R	2	-0.75047	18734.6	18164.9
Wdr24	0.580427	5.07E-10	55.844	IYCSPGLVS(0.229)S(0.58)ANLNHS	4	-0.83961	8476.7	8500.2
Arid1a	0.938015	2.72E-17	74.222	GPS(0.938)PS(0.062)PVGSPASVAC	2	0.98735	13692.0	13523.9
Map2	0.99972	5.09E-17	97.69	S(1)GILVPSEK	2	-0.2885	83734.4	92772.7
Sorbs2	0.5661	2.59E-06	53.033	GSEDYDPPLPHS(0.566)Y(0.002)S	2	-0.39229	10304.0	8942.2

5376.0	5766.8	6066.2	5545.7	0.1	0.1	1197
13206.9	13223.7	15046.5	11498.0	0.1	0.6	757;885
36939.9	42099.9	45994.4	36344.0	0.1	0.3	149
69511.5	86408.4	99840.2	73996.0	0.1	0.5	863
66247.3	67328.5	69976.9	65587.0	0.1	0.1	2442
2584.2	2494.7	2711.1	3073.5	0.1	0.3	848
10144.4	10176.9	8742.8	9803.7	0.1	0.5	565
16916.1	19281.2	20127.9	20537.0	0.1	0.2	392
18286.3	19854.3	21480.8	18684.0	0.1	0.2	2221
8895.0	9495.7	8910.2	10178.0	0.1	0.1	8
5039.5	4879.9	4861.7	5273.0	0.1	0.3	134
6798.2	7471.6	7161.5	7748.5	0.1	0.0	132
13241.0	15487.4	16963.7	14210.0	0.1	0.3	203
45000.3	55435.8	53331.7	52075.0	0.1	0.2	413
4389.1	4956.3	4871.1	4531.1	0.1	0.1	1080
11148.9	11616.7	12159.0	13055.0	0.1	0.1	53
26317.9	30710.9	29576.9	28108.0	0.1	0.1	10
9580.9	10571.5	11785.0	9536.9	0.1	0.3	19
7804.5	7625.0	7509.3	8062.2	0.1	0.2	174
3253.1	3825.4	3592.1	2925.0	0.1	0.4	745
64141.5	69948.6	72735.1	68802.0	0.1	0.0	556
20810.6	22804.4	24024.2	20779.0	0.1	0.2	231
7211.4	8740.8	8288.3	7475.9	0.1	0.2	1577
79656.5	92209.6	86500.3	83099.0	0.1	0.1	157
18981.5	19444.0	20325.6	19899.0	0.1	0.0	642
26438.3	28981.7	29037.2	27266.0	0.1	0.0	46
7562.7	7959.0	6606.8	8021.9	0.1	0.4	580
27953.2	29148.9	26941.6	29498.0	0.1	0.1	157
29557.7	29868.3	36619.2	30607.0	0.1	0.3	36
18163.9	20751.8	20551.1	18402.0	0.1	0.1	193
8799.8	8791.4	9566.4	9592.1	0.1	0.1	464
13195.2	13887.0	14341.2	15590.0	0.1	0.1	693
84694.4	100034.7	95592.3	87598.0	0.1	0.2	1718
9659.6	9413.0	11465.5	10465.0	0.1	0.3	1111



Bcas1	0.753583	1.88E-17	94.09	HKDAENS(0.101)PT(0.754)T(0.145	4	-0.90153	11953.0	12556.4
Plekha6	1	0.00804476	82.645	RLS(1)LQPR	2	0.37501	7821.1	6062.9
LOC10036	0.581676	0.000109683	79.614	KS(0.165)S(0.582)S(0.254)PGPIER	3	-2.0349	15528.7	14245.6
Eif4enif1	0.933591	2.82E-05	110.08	S(0.029)S(0.038)S(0.934)PVGLAK	3	0.79081	37336.8	36781.7
Rasal2	0.54741	2.37E-42	110.12	FAEHSSSPNVS(0.009)GS(0.334)LS(	4	-0.45412	10958.9	10573.9
Clasp1	0.697346	8.35E-22	80.419	QS(0.003)S(0.025)GS(0.183)T(0.69	2	1.6807	2643.8	1800.4
Zfp318	0.988814	0.00393452	50.354	T(0.011)KNS(0.989)PPFLK	3	0.60747	9066.2	8316.4
Ciapin1	0.81194	1.39E-14	78.501	KS(0.822)S(0.316)S(0.812)VKPVVE	4	-0.16732	79606.6	69853.7
Slain2	0.961252	8.98E-18	73.688	LS(0.961)LQGHPT(0.037)DLQT(0.0	4	0.58608	5649.5	6478.2
Arhgef16	0.519182	0.00311759	46.352	HS(0.46)DS(0.519)S(0.021)LDEK	3	0.97614	3693.8	4652.0
Bcas1	1	1.67E-05	116.74	RRQS(1)LGGFLK	3	0.055733	286553.2	246685.2
Arhgap31	0.999932	3.82E-05	92.943	LS(0.07)T(0.93)PQES(1)PR	2	-0.0045347	98180.2	99463.8
Ptrf	0.759396	0.0517196	42.336	T(0.241)RHT(0.759)LEK	3	0.021737	18205.1	14474.9
Pard3	0.780432	9.22E-19	70.391	S(0.007)GRES(0.78)VS(0.135)T(0.0	3	-1.4438	21312.0	20490.4
Fam126b	1	3.21E-07	77.42	HLS(1)LPAGQVVPK	3	0.072294	12822.5	12658.4
Map3k10	0.839839	1.81E-05	47.931	KGS(0.471)DGAS(0.531)PPAS(0.84	3	0.36856	27208.6	26502.6
Sipa1l2	0.994163	6.88E-15	129.54	T(0.004)LS(0.994)DES(0.002)VCSN	3	-0.33841	17979.6	18415.0
Lipe	0.765621	2.74E-11	57.902	S(0.234)VS(0.766)EAALAQPEGLLG	3	-0.47873	12314.4	12409.4
Cnp	0.997016	0.00517934	85.676	S(0.997)HT(0.003)FLPK	2	-0.82675	30211.8	30599.5
Tcof1	0.953116	8.36E-62	161.31	KGTAASTTGASAS(0.046)S(0.953)P	3	0.92954	28526.5	25342.0
R3hdm2	1	3.02E-10	63.46	RDDAS(1)MDREENQMR	3	-0.90572	28122.2	27041.1
Dcp1a	1	2.55E-05	45.885	LRLT(1)PQHDQIQAPLQK	4	-0.4283	6500.7	7687.4
Dst	0.997197	5.78E-46	100.95	LEEVKPVVEVHHQS(0.997)EQES(0.	4	-0.28913	87944.6	106917.4
Osbpl9	0.553693	1.09E-74	146.17	LIDSSGSASVLT(0.034)HS(0.021)S(0.	4	3.0924	7634.9	7325.4
Mtss1	0.826404	2.27E-49	119.27	LS(0.143)S(0.826)VS(0.026)S(0.00	3	1.0521	15797.0	15326.1
Cactin	0.970741	0.000305641	62.088	S(0.029)DS(0.971)EGNRVQK	3	0.9971	8382.6	9623.5
Sec61b	0.833565	6.38E-56	137.9	PGPTPS(0.001)AT(0.037)NVGS(0.0	2	0.79241	54189.4	49692.4
C2cd5	0.936659	6.27E-28	146.34	AT(0.06)S(0.937)VDYS(0.004)SFAC	2	0.8838	49127.7	46374.3
Reps1	0.723698	9.27E-09	96.464	RQS(0.724)S(0.067)S(0.209)YDDP	2	-2.5585	32802.3	29470.8
Kcnh1	0.998284	0.00120615	46.892	S(0.002)PQDRS(0.998)PILAEVK	3	-0.24449	18899.2	24864.9
Map1a	0.603336	3.96E-16	55.662	MASPPPS(0.002)GPPS(0.184)AAH	4	0.2463	19452.6	19134.6
Ppfibp2	0.585672	0.000666223	41.577	LS(0.014)CS(0.4)LEDLRCES(0.586)(	3	0.053247	33643.1	36627.1
Rtn4	1	0.0130031	62.466	DDS(1)PKLAK	2	-0.31709	17773.3	17325.8
Mark1	0.89976	0.00532268	93.178	S(0.1)IS(0.9)ANQK	2	1.5837	44560.9	39931.0

10575.0	11800.4	13520.5	12723.0	0.1	0.3	361
5868.1	7319.6	7405.2	6693.9	0.1	0.4	577
15670.5	18154.8	16620.6	14504.0	0.1	0.3	242
39355.6	42300.1	40147.9	40602.0	0.1	0.0	951
10219.0	11508.9	12812.0	10111.0	0.1	0.3	639
2208.1	2369.2	2579.3	2266.0	0.1	0.5	650;650
8779.9	8922.5	10657.8	8793.7	0.1	0.3	727
79017.7	89826.0	71515.8	86467.0	0.1	0.4	183
5838.7	6640.3	6157.6	6688.8	0.1	0.2	392
4130.0	5521.1	3780.2	4230.3	0.1	0.6	8
232933.0	264463.3	300919.4	265720.0	0.1	0.3	602
103409.7	107132.8	109311.6	110130.0	0.1	0.0	619
17891.3	17069.2	19641.7	18152.0	0.1	0.4	271
19731.0	21403.0	24214.4	21139.0	0.1	0.2	959;944
13037.6	13924.4	14047.3	13820.0	0.1	0.0	429
26638.4	29718.7	30215.9	27244.0	0.1	0.1	506
16530.7	19934.6	21036.3	16453.0	0.1	0.4	1488
12540.4	13939.8	13938.3	12554.0	0.1	0.1	565
28204.5	30767.0	36438.6	29379.0	0.1	0.3	9
25459.8	26670.7	30545.0	28858.0	0.1	0.2	568
27913.8	28952.0	31702.4	29492.0	0.1	0.1	263
7400.4	7205.2	8161.8	8058.8	0.1	0.3	420
93973.8	126869.4	93815.2	92740.0	0.1	0.5	106
7357.6	8189.9	7466.3	8561.8	0.1	0.1	312
16454.0	17230.9	18178.7	16220.0	0.1	0.1	351
7191.8	8940.8	10378.5	8025.1	0.1	0.5	76
61714.1	63829.6	52856.2	63020.0	0.1	0.4	17
42235.4	52749.7	50850.4	45901.0	0.1	0.2	830;855
29722.7	33629.1	33769.1	32458.0	0.1	0.1	272
18806.9	22576.7	20476.3	24866.0	0.1	0.5	877
19790.6	21788.0	19961.2	21619.0	0.1	0.1	1240
30097.4	35033.7	42401.7	31519.0	0.1	0.5	244
13463.5	17392.6	22160.5	13166.0	0.1	0.7	855
41463.5	45770.4	46169.7	44796.0	0.1	0.1	414

Synrg	0.972046	0.00147157	55.66	S(0.016)LS(0.972)LGDKEIS(0.012)F	2	-0.32417	22769.4	24456.8
Tyk2	0.850544	1.13E-12	62.469	VDS(0.002)GCPS(0.851)GPDRGS(0	3	-0.54496	12706.8	9304.5
Hsph1	0.998079	0.00494805	66.299	GS(0.002)VS(0.998)MDLD	2	-0.29689	53096.9	56354.0
Kcnn3	1	0.00156561	75.416	QAS(1)PLVHR	2	0.092913	8633.7	7368.0
Fam21c	0.999992	2.88E-121	190.57	GLFS(1)DEEDSEDLFSSQSSSK	3	-0.42923	104507.3	107792.7
Tnrc18	0.559612	2.71E-06	42.348	S(0.56)PFGGLGT(0.435)MKPEPIPT	3	1.2526	10134.7	10060.5
Mtdh	1	6.18E-23	143.97	SETNWES(1)PK	2	0.075798	111088.6	117227.3
Tsc2	0.692605	2.79E-08	48.626	S(0.249)NT(0.693)VAS(0.042)FS(0	3	-0.61705	4960.2	4972.5
Phldb1	0.578443	5.14E-08	60.246	SALLAQNGT(0.038)S(0.578)S(0.38	3	1.5801	3722.4	5121.2
Actr8	0.826752	0.0017751	51.395	RIPVS(0.827)PEQT(0.173)R	3	-0.2146	8936.2	14562.6
Dync1li1	1	0.00415765	45.614	VPGG(1)PRT(1)PNR	3	-1.0547	15366.5	16151.0
Add3	0.851913	2.31E-17	96.773	LT(0.001)T(0.003)S(0.019)T(0.125	3	2.8707	4415.7	4127.7
Dync1li1	0.992539	1.81E-07	57.366	QPPT(0.007)AAGRPVDAS(0.993)P	3	0.79425	5852.8	6355.1
Etl4	1	0.00888883	54.343	T(1)PPAS(1)PHR	3	-0.32547	2673.4	2526.0
Sh2d5	0.903206	8.02E-06	63.292	LGNPY(0.034)CS(0.903)PT(0.063)L	3	0.18307	2946.3	2983.9
Lpin1	0.763603	1.87E-26	78.272	S(0.143)HS(0.764)CDFPCS(0.092)C	3	0.35398	10878.0	10500.0
Bap1	0.505689	7.60E-06	41.609	LPAFLDNHNY(0.506)AKS(0.494)PN	4	-1.21	11649.7	11826.9
Lzts1	0.962541	1.64E-06	92.856	ALS(0.027)FS(0.963)DGG(0.011)K	2	0.445	39607.7	40174.5
Eif4b	0.998082	6.70E-27	114.56	ERHPS(0.001)WRS(0.998)EET(0.00	4	0.31574	11137.4	10406.5
Anxa6	0.998912	0.0273693	65.224	S(0.001)LYS(0.999)MIK	2	2.6049	5401.5	5908.1
Epn2	0.966519	6.05E-17	96.805	AGGS(0.967)PAS(0.768)Y(0.038)H	2	0.048489	61649.6	68997.0
Tmem201	0.997422	0.000736224	58.595	RVS(0.997)PS(0.003)SLPGR	3	-0.11596	12688.9	12150.5
Fnbp1	0.805107	8.98E-55	85.448	LMTLLTSPHQPPPPPPAS(0.065)AS(	6	0.088688	8180.3	6970.3
Arhgef7	0.543805	0.00986521	43.501	QT(0.002)LNS(0.544)S(0.334)S(0.1	3	1.0106	22965.0	22574.5
Pkn2	0.927091	0.0012173	62.908	T(0.012)PDT(0.927)PNS(0.045)DS(	2	-0.12662	3535.6	3014.4
Anks1a	1	0.069032	51.445	AELKLS(1)R	2	-0.45718	9243.5	8086.1
Nid2	0.888557	5.31E-15	110.92	ETES(0.107)AS(0.889)LDPQT(0.00	2	0.29515	18416.2	15430.3
Slc9a3r1	0.816343	3.12E-59	141.64	S(0.024)AS(0.816)S(0.158)DT(0.00	4	0.26818	32638.9	37650.5
Hecw1	0.999786	3.34E-29	118.52	TTEGLDS(1)PMAGPSNR	2	-0.70378	41498.1	42153.3
Dpysl3	0.928585	9.26E-14	110.98	GS(0.071)PT(0.929)RPNPPVR	3	0.35362	178365.2	211913.0
Sec22b	0.552862	0.000645484	65.043	GEALS(0.553)ALDS(0.447)K	2	-0.88082	12813.0	11825.8
Fam73b	0.576339	9.54E-79	104.39	GDGG(0.065)T(0.189)PT(0.069)P	3	-0.17331	3816.5	3510.6
Ank3	0.986933	4.58E-06	69.045	SAS(0.002)LRS(0.987)FS(0.004)S(0	3	0.22815	64399.9	60328.1
Kif1b	0.895828	4.97E-10	78.244	EFS(0.001)QVHGS(0.896)IS(0.103)	3	-0.21745	50809.3	56839.9

25037.2	27524.3	25091.8	25833.0	0.1	0.1	1090
11472.6	11216.3	13221.3	11915.0	0.1	0.5	626
53192.7	56623.7	59725.4	60230.0	0.1	0.0	761
7452.8	8706.8	9276.6	7480.7	0.1	0.4	160
111542.5	118476.7	120446.9	112670.0	0.1	0.0	531
10995.6	11790.5	11255.0	10819.0	0.1	0.1	542
106294.9	115715.8	137545.2	110040.0	0.1	0.3	567
6144.3	5680.3	5987.7	5788.0	0.1	0.3	1212
4193.4	3640.2	5349.7	5165.4	0.1	0.6	1020;1030
12188.0	10886.6	13032.1	14830.0	0.1	0.6	132
13487.9	16243.1	17675.4	14950.0	0.1	0.3	408
4049.4	4597.1	5071.0	4005.9	0.1	0.3	621
5980.3	6766.5	6167.1	6816.4	0.1	0.1	398
2567.6	2823.6	2499.6	3110.8	0.1	0.3	324
2805.0	3262.0	2982.6	3241.0	0.1	0.1	153
11453.4	11640.9	12799.1	11212.0	0.1	0.2	892
11098.9	13091.7	11810.7	12644.0	0.1	0.1	366
40986.6	44404.3	45704.8	41048.0	0.1	0.1	233
10095.7	11356.0	11103.2	11902.0	0.1	0.1	409
5088.9	5964.4	6346.0	5500.7	0.1	0.2	303
58092.2	88127.7	56247.0	60626.0	0.1	0.6	192
13688.1	14489.8	13353.8	14004.0	0.1	0.1	441
7261.4	7865.3	8812.0	7666.3	0.1	0.3	358
21154.4	21799.0	26367.7	24277.0	0.1	0.3	651
3267.9	3393.4	4208.1	3063.0	0.1	0.5	124
10491.9	9626.5	9756.2	10838.0	0.1	0.4	77
19138.0	19181.1	20387.6	17986.0	0.1	0.3	381
33272.2	39819.6	36030.4	36646.0	0.1	0.2	287
43340.5	46041.0	48087.9	43822.0	0.1	0.1	777
171726.8	263979.3	172457.8	174120.0	0.1	0.6	637
12294.5	12576.9	14183.0	13364.0	0.1	0.1	164
3524.0	4014.2	4291.1	3483.1	0.1	0.3	212
57946.3	66745.6	67982.8	63740.0	0.1	0.1	924
55615.8	75556.2	48889.4	52941.0	0.1	0.6	1545

Tns1	0.678137	1.19E-107	123.52	QVMGPSGPGFHGNVVS(0.045)GH	4	-0.42389	24217.4	26306.2
Helz	1	0.00170147	58.274	QQQS(1)PPKVK	3	-0.38608	22563.1	24163.9
Prph	0.998704	0.00798726	58.172	T(0.001)IET(0.999)RDGEK	2	-1.0832	13436.7	12192.2
Cep131	0.925254	1.17E-12	107.09	SVS(0.002)VAT(0.073)GS(0.925)EF	2	-1.1586	8946.4	8156.5
Ppp2r5c	0.999979	1.95E-16	105.28	RKS(1)ELPQDPHTEK	4	0.27669	44971.2	46610.1
Cep170	0.735789	1.41E-07	56.036	MQSTGSAMPAS(0.021)S(0.243)S(i	3	0.56904	9420.0	10371.8
Vps13d	0.513584	4.89E-20	73.153	EYLS(0.033)QS(0.514)CPS(0.428)V	3	0.57235	7473.6	7580.7
Pln	1	0.00183415	43.557	RAS(1)T(1)IEMPQAR	3	0.67586	11673.2	12751.6
Pdzrn3	0.793274	1.92E-07	54.764	STPLT(0.001)LEIS(0.793)PDNS(0.2i	3	1.1547	7663.0	8872.1
Magi1	0.970013	0.00995238	79.986	KDS(0.03)S(0.97)PSR	2	-1.0745	28372.7	25589.9
Fnbp1	0.999501	6.77E-86	155.5	RQS(1)GLYDQGTHQTVTNCAQDR	4	-0.047187	13223.2	12579.4
Epb41l3	0.999112	0.00240672	66.056	RKS(0.999)LS(0.001)EWR	3	-0.013636	98507.0	91251.2
Ddah1	0.998821	1.13E-17	73.928	DYAVST(0.001)VPVADS(0.999)LHL	3	1.674	4525.4	4878.5
Rictor	0.930087	0.00473936	47.894	S(0.045)S(0.025)S(0.93)DPKGGK	3	0.34071	17673.1	15865.8
Synm	0.933966	4.90E-68	131.78	TEQVS(0.005)Y(0.001)GGPT(0.934	2	0.97296	16008.1	14583.5
Map4	0.82007	0.000668987	119.22	S(0.002)KVGS(0.82)T(0.178)ENMK	4	-0.041588	134784.7	128010.0
Trpm3	0.582576	6.29E-28	103.71	EAELS(0.313)HPS(0.583)S(0.099)D	3	0.73815	9427.3	9565.3
Pard3	1	0.00505883	87.258	GCNES(1)FR	2	-0.31513	11851.7	8997.1
Pi4kb	0.60312	5.13E-24	95.988	S(0.603)KS(0.39)DAT(0.006)AS(0.C	3	0.38576	28208.1	29524.6
Spata13	0.999743	1.53E-17	101.38	TGPRPLS(1)DYGQLASR	3	-0.21433	32774.8	31749.1
Klhl17	0.518566	1.21E-10	49.038	T(0.519)QS(0.434)PEHS(0.022)S(0	5	0.34849	7139.7	7582.0
MAST1	0.977008	1.98E-32	100.59	SLSSSDS(0.003)LPGS(0.977)PT(0.0	3	0.25233	25256.2	23935.8
Frmpd1	0.600949	5.88E-15	83.666	EEQRPGDS(0.398)PT(0.601)PEVT(i	3	0.44092	6567.6	6345.7
Dync1i1	1	1.15E-26	102.59	ANRADS(1)EEEGAVELAA	3	-0.37051	59926.2	64229.8
MAST1	0.999561	8.59E-05	51.643	HQQLS(1)GDLSVEK	3	0.63797	4875.9	4899.7
Nhs12	0.650089	0.00902167	63.216	S(0.01)KS(0.34)IS(0.65)LK	3	1.0584	22583.4	20102.1
Cald1	0.551725	0.000729038	44.391	QS(0.552)VDKVT(0.275)S(0.068)P'	3	0.37357	21384.7	19888.2
Sept7	0.5	2.35E-10	128.14	ILEQQNS(0.5)S(0.5)R	2	-0.33009	30111.6	26345.7
Tmpo	0.918712	0.00938049	59.864	AS(0.014)S(0.068)NDS(0.919)LVAI	2	-0.34907	5881.5	6036.0
Pde8a	1	0.000866901	72.434	RKHS(1)MDVK	4	-0.23854	13046.7	13297.9
Ski	0.984017	4.06E-21	78.674	TDDTS(0.001)S(0.007)QS(0.984)P/	3	-0.066493	4071.0	4507.9
Sema4b	0.568581	0.000176744	45.468	GY(0.001)QALS(0.038)DS(0.393)S(	3	1.4123	10729.2	9458.0
Fam65a	0.722766	0.00567843	51.135	AYS(0.723)T(0.191)GS(0.08)PGS(0	2	0.98253	11607.8	10559.3
Limch1	0.696913	8.01E-102	156.7	ESGLPEEHS(0.021)S(0.107)LT(0.11	5	0.24678	16038.0	14420.0

26892.9	26209.8	30331.3	27575.0	0.1	0.2	1387
20493.3	24100.1	26026.8	22912.0	0.1	0.2	1126
12091.1	15265.2	13677.6	12043.0	0.1	0.3	480
8897.0	10156.7	9212.0	8883.8	0.1	0.2	52
38125.9	48047.3	48634.0	44264.0	0.1	0.3	512
10967.9	10745.9	11839.5	10840.0	0.1	0.2	1332
8169.0	8136.4	9056.4	8043.4	0.1	0.2	1710
12297.7	13059.8	13842.1	13004.0	0.1	0.1	17
8478.9	8777.7	9380.9	9026.3	0.1	0.1	775
28563.3	30598.7	29680.5	29409.0	0.1	0.1	1365
13862.7	14444.7	15206.8	13457.0	0.1	0.1	496
83429.6	98613.6	107259.8	91031.0	0.1	0.3	1089
5722.8	5719.9	5657.5	5062.7	0.1	0.3	171
14183.2	17272.7	18683.1	15910.0	0.1	0.3	1060
16515.8	17359.6	17158.1	16681.0	0.1	0.1	1144
154532.8	149220.5	162273.6	142080.0	0.1	0.3	1991;915
7990.1	12559.3	8685.5	8081.8	0.1	0.6	1608
12692.7	11787.2	12113.1	12555.0	0.1	0.4	921;722;906
25094.7	28465.9	32198.2	29359.0	0.1	0.2	275;275
31946.7	34985.3	35247.1	34620.0	0.1	0.0	560
6680.0	7342.1	7927.2	7992.3	0.1	0.1	12
24214.2	26727.9	26672.3	26390.0	0.1	0.0	1129
7327.8	7563.2	7496.1	6942.6	0.1	0.2	565
63993.5	69376.7	67075.6	68073.0	0.1	0.0	616
4435.1	5288.9	4692.7	5466.0	0.1	0.2	895
17046.0	20703.4	21851.6	22376.0	0.1	0.4	582
23334.8	22622.9	23396.9	24213.0	0.1	0.2	521
29095.6	29102.7	32051.8	31849.0	0.1	0.2	422
6786.1	6516.8	6852.8	6963.2	0.1	0.2	291
12689.5	14785.7	14378.6	13272.0	0.1	0.1	286
4217.2	4792.1	4639.9	4479.4	0.1	0.1	399
10559.9	11081.0	10882.0	11465.0	0.1	0.1	778
11745.1	12033.6	12390.9	12445.0	0.1	0.1	164
16114.4	16684.2	18212.9	15737.0	0.1	0.2	744;758



Stmn1	1	3.82E-22	142.1	ESVPEFPLS(1)PPK	2	-4.1645	243926.8	242637.6
Rap1gap	0.618918	2.79E-31	129.36	RS(0.619)S(0.381)AIGIENIQEVQEK	3	0.072365	81776.1	71262.2
Adcy9	0.627794	0.000353876	40.986	GQGT(0.003)AS(0.021)PGS(0.628)	2	-3.2193	24144.6	30998.8
Map1b	0.834671	2.74E-09	97.797	DMS(0.835)LYAS(0.165)LASEK	2	0.52983	11765.4	10767.8
RGD15602	0.669529	9.33E-07	62.658	GNNLPS(0.001)PVGNS(0.33)VS(0.6	2	-1.3642	11802.3	12918.4
Gpr158	0.996682	5.23E-09	57.484	VKEDS(0.997)EAES(0.003)TESVPLV	4	1.6079	11110.8	10544.3
Inpp5d	1	0.0141402	73.885	KEQES(1)PK	2	-0.14115	43462.4	44335.1
lkbkg	1	0.0001062	46.543	RS(1)PPEEPPDFCCPK	3	-0.38538	12944.2	12725.3
Arhgap12	0.899306	1.72E-05	47.222	TSFS(0.017)QEQS(0.899)CDS(0.08	2	0.59813	5991.4	7874.9
C2cd2	0.999671	1.61E-16	92.474	ASPLS(0.018)S(0.109)ES(0.873)PV	3	1.594	27236.0	25256.5
Ctnnd1	0.88303	2.21E-06	91.961	VGGS(0.883)S(0.117)VDLHR	3	0.058806	13466.5	11063.5
Msl2	0.986969	2.66E-05	109.16	S(0.007)RS(0.987)ES(0.006)DSEK	2	0.72081	18977.9	18388.7
Dst	1	0.000293828	85.885	SEGFRAS(1)PR	2	-0.3482	64396.3	63862.4
Ptpdc1	0.983164	0.0361689	50.703	DS(0.017)PRPGLS(0.983)	2	0.034652	7388.1	7517.8
Dennd1b	0.996042	2.15E-30	89.358	SLDFFRS(0.002)MDDIDY(0.996)KP	4	0.30126	12714.0	12216.3
Eif3a	1	0.00777914	78.939	RQT(1)IEER	3	0.55633	4704.9	3943.4
Mink1	0.989579	3.35E-09	119.79	S(0.01)QS(0.99)LQDQPTR	3	-1.2799	33644.3	36797.1
RGD15620	0.999998	7.83E-06	108.35	DIS(1)PRPVSR	3	0.25807	13931.7	14473.8
Scrib	0.898595	4.62E-33	79.69	T(0.002)LDPS(0.1)PS(0.899)PGPQI	3	-0.010602	3026.4	2724.6
Phldb1	0.999935	2.39E-32	91.643	IGTLQDRPPS(1)PFREPPGTER	4	0.47958	4926.8	4784.4
Tbx3	0.93617	1.60E-17	71.309	AS(0.001)PDS(0.057)RHS(0.936)P/	3	-0.75853	5165.7	5479.6
Cobll1	1	0.0245921	70.056	RAS(1)CVER	2	-0.2566	8295.4	8831.6
Kcnb1	0.83105	0.000722552	72.2	SLHGS(0.017)T(0.152)S(0.831)PK	2	1.0452	12104.5	11866.4
Fam21c	0.934864	0.000421493	42.785	S(0.003)T(0.003)GS(0.028)QS(0.93	3	0.42347	2389.1	2553.3
Gab1	0.587316	2.58E-54	84.903	AHFDS(0.014)AKPT(0.173)S(0.587	5	-1.0246	11760.3	10864.0
Plekha4	0.999977	0.000364552	123.29	LMTAS(1)PER	2	-0.1806	33676.5	30407.6
Pum1	0.999957	1.27E-14	116.78	RDS(1)LTGSSDLYK	2	0.7461	204520.7	187726.0
Ctnnd1	0.793628	7.99E-33	110.38	SQSSHS(0.001)Y(0.006)DDS(0.2)T(	3	-0.11127	10459.2	11157.8
RGD15629	0.970382	1.27E-57	103.18	S(0.97)T(0.026)EDLS(0.004)PQR	2	0.30075	49115.7	50813.5
Zcchc24	0.927844	6.38E-42	86.527	GRPEQLGS(0.928)PLHS(0.066)S(0.	3	-1.4444	18472.2	15868.0
Sorbs1	0.97663	1.94E-05	121.61	S(0.023)AT(0.977)LPLPAR	2	-0.77982	52591.2	48096.4
Mllt4	0.611776	8.49E-27	82.639	ADHRS(0.388)S(0.612)PNVANQPP	3	0.16719	37317.7	44233.1
Crybg3	0.996873	2.07E-05	120.54	GYES(0.997)PT(0.003)LSR	2	-0.25637	25012.9	24596.1
Hnrnpa1	0.928564	1.69E-05	44.863	NQGGYGGGS(0.002)S(0.002)S(0.00	3	0.27083	1965.1	2294.0



277254.1	282084.7	273134.7	275220.0	0.1	0.1	38
71100.0	78983.7	85048.0	79662.0	0.1	0.2	588;596
36723.8	35887.3	29314.0	34682.0	0.1	0.6	613
11663.2	12506.5	13213.8	11460.0	0.1	0.2	1753;1627
12912.0	13900.2	13069.5	13947.0	0.1	0.1	190
11575.9	11362.6	13004.3	11764.0	0.1	0.2	439
40568.2	47852.6	47862.4	43856.0	0.1	0.1	1037
12787.4	13450.3	14180.9	14183.0	0.1	0.0	380
7776.9	7682.1	7894.7	7956.1	0.1	0.4	196
26523.4	28596.8	29185.7	28134.0	0.1	0.0	320
13112.1	14089.4	13902.0	12939.0	0.1	0.3	268
21562.2	21718.7	21452.0	20906.0	0.1	0.2	345
56805.0	69215.0	67853.5	64172.0	0.1	0.1	77
7342.5	7062.7	7499.5	9631.6	0.1	0.5	828
11590.8	13284.2	15548.8	10885.0	0.1	0.5	522
3538.7	4878.2	4092.2	4283.8	0.1	0.4	574
30347.6	35644.2	38362.2	35610.0	0.1	0.2	613
15260.6	14471.1	17773.7	15246.0	0.1	0.3	828
3746.7	3666.2	3056.1	3607.7	0.1	0.5	1589;1561;1565
5017.6	5674.7	5496.5	4848.5	0.1	0.2	405;462
5672.2	6151.6	6047.1	5549.2	0.1	0.1	420
8609.2	9498.6	9037.5	9456.9	0.1	0.0	347
11929.3	13217.1	13031.0	12802.0	0.1	0.0	778
2409.4	2662.3	2896.5	2438.0	0.1	0.2	1132;1098
10612.7	11204.2	13815.4	11134.0	0.1	0.4	208
35765.6	36935.5	37526.5	34152.0	0.1	0.2	694;622
197704.0	217187.0	221871.8	202680.0	0.1	0.1	675
11786.7	12545.0	11866.2	11925.0	0.1	0.1	863
51794.8	56920.7	56000.1	52129.0	0.1	0.1	834
16626.5	17186.9	18658.5	19600.0	0.1	0.2	65
50672.7	54195.0	57530.4	52936.0	0.1	0.1	709;497;760;451
40229.6	44461.5	37819.3	50205.0	0.1	0.4	1180
25191.6	26892.9	27571.0	26914.0	0.1	0.0	1911
2065.4	2387.2	1960.7	2532.9	0.1	0.4	316

Fam117b	0.663135	1.94E-32	70.003	S(0.004)QS(0.011)VS(0.142)PT(0.6	4	-0.0028014	2668.9	2181.9
Nek3	0.917153	0.00547825	58.63	NAS(0.083)PAS(0.917)PHR	2	1.3221	1404.9	1089.7
Sorbs1	0.856924	2.07E-39	120.41	RES(0.143)DGT(0.857)PGGLASLEN	3	-1.2519	64371.3	69455.6
Fam168b	0.671481	6.28E-30	69.47	VS(0.004)CS(0.026)PT(0.098)S(0.1	3	0.38735	5527.0	5448.4
Pde3b	0.999954	0.00312563	53.6	RPS(1)LPCISR	3	0.54458	999.8	1175.3
Add3	0.842605	3.25E-69	136.88	TEEVLS(0.001)PDGS(0.018)PS(0.1:	5	-0.30876	141237.1	151143.9
Ccm2	0.999898	4.75E-09	136.02	GIITDS(1)FGR	2	-0.22985	50567.2	51594.5
Esyt1	0.548599	1.44E-10	52.192	SPEEGAGPEPSGQSPAT(0.029)DS(C	3	1.0161	2928.9	2060.0
Slc4a4	1	0.0174583	71.614	S(1)LADIGK	2	-0.18166	5517.8	3090.2
Nup98	0.99941	0.00306702	48.527	GDT(0.001)AQEICS(0.999)PR	2	-0.15975	5034.9	4067.8
Apbb1	0.989373	9.18E-05	51.286	CLVNGLS(0.989)LDHS(0.011)K	3	-0.30046	2114.5	2142.2
Atxn2l	0.994405	0.00950017	64.374	MY(0.006)PPRS(0.994)PK	2	-1.1311	155907.1	149992.1
Frmd6	0.758019	1.16E-06	65.949	GQS(0.007)T(0.083)DS(0.758)LPQ	2	0.35589	6871.1	7109.9
Zfp318	0.746547	0.000171779	43.383	AHS(0.747)T(0.247)GGDHS(0.006)	3	0.378	4755.2	3918.6
Kmt2d	0.975253	0.00071485	42.314	ARPPDES(0.025)EDS(0.975)RPPR	3	-0.67643	2285.2	1805.9
Arhgef10	0.999766	0.00232835	61.344	QLS(1)HDLTR	3	0.098162	1455.7	1566.9
Hck	0.851578	8.05E-06	53.3	GPVY(0.029)VPDPT(0.852)S(0.119	3	-0.0020017	52246.5	55214.3
Prrc2b	1	0.0127891	64.64	KGS(1)EGAER	2	-0.15448	52176.1	52401.8
Eif3c	0.95063	0.00145629	52.576	KAPT(0.951)T(0.049)EEDKK	3	-0.29213	36191.9	27454.7
Srrm2	0.952787	9.94E-18	76.614	NHS(0.953)GS(0.288)RT(0.687)PP'	2	0.67508	24114.8	25886.1
Fam8a1	1	1.04E-42	94.403	RRET(1)GAEPQEPGGCEASDGPGR	3	0.50982	7972.1	10074.8
Tbc1d4	0.914479	2.53E-09	52.927	ALPS(0.001)LAS(0.014)LPALAS(0.9	3	0.92742	3861.4	4862.2
Gyg1	0.999872	2.00E-30	88.627	WEQGQADYMGADS(1)FDNIKR	3	0.23156	20396.0	16838.7
Fxr2	0.965512	3.00E-19	75.764	T(0.028)KPS(0.966)EDS(0.007)LSG	3	0.5111	62551.3	56223.5
Dclk1	0.598544	4.64E-16	91.64	ISQHGGGS(0.186)S(0.599)T(0.176)S	3	-1.199	138434.3	133713.9
Ahnak	0.5	3.29E-08	45.941	VPDVDIS(0.5)S(0.5)PGVNVEAPDIH	4	0.36571	11709.6	11869.7
Cdv3	0.998327	1.38E-06	73.834	S(0.002)GDGGGS(0.998)AGPGGK	3	0.2596	12952.5	14546.2
Rc3h1	0.714017	3.04E-55	90.441	RPLS(0.286)AS(0.714)LGQLNEVGL	5	0.049157	4789.4	4555.0
Srrm2	0.732358	1.43E-21	64.853	MVQAPS(0.025)QS(0.732)LLPPAQ	4	1.3955	10183.6	11020.7
Rltpr	1	0.010774	57.149	LQRS(1)PVLK	2	-0.11233	40737.2	44017.0
Sh3pxd2a	0.924986	1.18E-26	82.294	GS(0.058)RS(0.925)EDS(0.017)ELP	2	0.96523	46202.0	44251.7
Brsk1	0.739754	1.50E-19	65.741	MQVPT(0.002)AEEMS(0.326)S(0.3	4	0.51583	14008.0	13925.3
Epb41l3	0.893317	0.00785832	83.429	GGIS(0.107)ET(0.893)R	2	-0.69053	15310.4	14974.0
Zc2hc1a	0.815194	4.37E-53	123.44	ASSVNSPLGNKPQT(0.038)LS(0.815	3	0.11845	116474.7	116711.7

2417.6	2440.5	2942.7	2525.0	0.1	0.4	172
1246.3	1278.9	1442.0	1349.3	0.1	0.3	306
56784.8	64607.2	85917.9	56874.0	0.1	0.6	880;668;875;538
5196.3	6042.5	5833.4	5720.1	0.1	0.0	72
1086.6	1027.1	1075.9	1446.0	0.1	0.5	302
162698.6	162959.0	168471.7	163740.0	0.1	0.1	648
48794.7	57179.2	56740.7	50337.0	0.1	0.1	393
2305.8	2507.7	2887.7	2542.1	0.1	0.5	22
3902.6	4622.5	4066.4	4925.5	0.1	0.7	223;223
4785.7	5068.2	5091.0	4954.9	0.1	0.2	980
2433.1	2712.6	2081.5	2486.4	0.1	0.4	258
151030.1	164972.0	171667.0	160640.0	0.1	0.0	447
7615.4	7919.6	7884.8	7699.2	0.1	0.1	517
4387.4	4779.3	4568.1	4867.5	0.1	0.2	318
1969.1	2432.8	2008.5	2154.4	0.1	0.4	4958
1802.5	1869.3	1797.9	1585.0	0.1	0.3	318
49677.3	59987.4	57028.2	54033.0	0.1	0.1	55
51858.7	56268.4	58548.9	55473.0	0.1	0.0	1766
31111.0	33895.3	32845.8	36408.0	0.1	0.4	260
22723.7	26115.2	27535.7	25514.0	0.1	0.1	2056
10089.2	9644.6	10540.8	10444.0	0.1	0.3	67
3278.6	4027.9	4728.4	4310.3	0.1	0.5	112
22177.6	20906.9	22590.1	21185.0	0.1	0.3	320
59111.1	64864.6	74830.7	53988.0	0.1	0.4	636
129779.9	151090.5	145976.8	140560.0	0.1	0.0	46
12060.3	13552.6	12280.9	12973.0	0.1	0.1	4820
13940.4	13648.3	15750.7	15723.0	0.1	0.2	95
4987.7	5032.9	5168.5	5405.0	0.1	0.1	462
11667.4	11505.6	12481.8	11807.0	0.1	0.1	2396
39095.8	45536.1	47500.2	41826.0	0.1	0.2	1341
42195.0	49285.9	51683.9	43474.0	0.1	0.2	743
12073.0	14654.8	15136.3	13773.0	0.1	0.2	497
16303.9	17030.7	18288.8	15412.0	0.1	0.2	;873;772;971;1033;1370;816
111329.6	123976.5	137160.4	114020.0	0.1	0.2	222

Scn7a	0.745439	2.71E-47	141.13	T(0.127)VS(0.745)T(0.127)EATDQ	4	-0.53356	37324.9	45591.1
Svil	0.999943	2.49E-88	140.38	RGS(1)LELGNSSATHLGDELK	4	-0.62737	71368.7	66393.0
RGD13115	0.661918	0.00443885	53.377	VNLS(0.662)PVT(0.338)PAK	2	-1.1501	13154.1	12273.4
Lsm14a	0.999993	5.33E-13	70.555	RS(1)PVPARPLPPTSQK	4	0.2455	81955.0	78551.2
Phyhipl	0.564693	7.12E-84	121.1	LDHALS(0.018)S(0.231)PS(0.565)S	3	0.31796	43031.9	42804.9
LOC10091	0.635313	1.18E-11	67.873	SSLGDGS(0.002)RS(0.189)PVS(0.0	2	-0.94842	10461.8	10796.8
Strn	0.980261	3.62E-07	53.947	SELT(0.001)DS(0.018)AS(0.98)VLD	3	0.24883	11784.2	9809.8
Pgm1	0.5	3.03E-06	44.238	AIGGIILT(0.5)AS(0.5)HNPGGPNGD	2	0.35414	4491.2	2674.6
Flna	0.831494	1.37E-11	68.41	SPFS(0.002)VGVS(0.831)PS(0.166)	3	-0.36076	16927.7	14421.1
Prrc2b	0.754773	6.36E-24	93.753	IAS(0.22)ET(0.755)HS(0.032)EGS(C	3	-1.1216	30666.2	24693.7
Prrc2b	0.531626	6.36E-24	93.753	IAS(0.22)ET(0.755)HS(0.032)EGS(C	3	-1.1216	30666.2	24693.7
Kifc3	0.707434	2.82E-05	47.148	CS(0.265)S(0.707)LS(0.026)GS(0.0	3	0.0035139	10849.6	10913.9
Dock1	0.729074	1.53E-05	76.728	KQT(0.032)S(0.239)VDS(0.729)GIV	2	0.18006	47182.4	44851.8
Hbs1l	0.557516	2.74E-14	119.87	S(0.409)S(0.558)QS(0.033)ESEIVPI	3	-0.52707	8807.3	10597.0
Optn	0.75699	0.00144661	93.096	T(0.076)DS(0.757)IS(0.167)MGK	3	-0.17241	64574.1	60220.6
Rab3il1	0.936548	6.65E-12	50.464	KSPGGLVEAS(0.063)AS(0.937)WEI	4	-1.0848	4672.8	4211.1
Rc3h2	0.604839	6.26E-54	151.87	KHS(0.041)S(0.353)T(0.605)GDLLS	4	-0.060142	21265.5	18129.8
Nfya	0.999993	1.04E-58	107.32	EKDS(1)PHMQDPNQADEEAMTQII	5	-0.12535	19351.2	18537.9
Dclk2	0.992584	2.35E-20	109.07	SSSSSPTS(0.007)PGS(0.993)FR	2	0.29547	18300.5	16973.7
Ahnak	0.868956	5.80E-12	103.97	GDVAAS(0.115)S(0.869)PS(0.016)I	2	0.52575	28947.5	31519.8
Whsc1	0.860132	0.0496718	47.774	GIGT(0.86)PPNT(0.111)T(0.029)PI	2	-0.61091	6975.5	7676.1
Tnks1bp1	0.983256	4.93E-16	67.217	S(0.001)LS(0.003)S(0.013)GFS(0.9	4	0.15681	28175.9	27692.7
Pcdh1	0.970542	3.82E-31	85.376	SNSPLPS(0.016)IQLQPQS(0.971)PS	3	0.73095	61997.9	60930.3
Map1b	0.994616	5.73E-07	74.698	SVNFS(0.005)LT(0.995)PNEIK	3	2.4356	14705.7	14766.7
LOC68194	1	0.000777338	58.268	RGS(1)AGGVGDR	2	-0.20373	10641.1	10639.6
Hecw1	0.999822	1.51E-22	63.913	GKDEEEEGVSALEQGEPGLELRAS(:	4	0.90072	9840.6	10125.2
RGD15598	0.663538	1.21E-33	76.519	LAEAPS(0.006)CS(0.056)VS(0.664)	4	-0.15167	12570.8	12356.7
Dock4	0.994987	0.00135211	91.469	AS(0.995)PLLS(0.005)DK	3	-0.30204	26154.3	25323.4
Uhrf1bp1l	0.937149	6.79E-13	139.86	SAS(0.062)DT(0.937)NLQK	2	-0.69745	118047.8	99215.9
Dync1i1	0.809186	3.04E-76	108.39	ETEALLQS(0.002)IGIS(0.042)PEPPI	5	0.19274	31346.0	32384.2
Syne1	0.5	3.82E-05	42.029	QS(0.5)S(0.5)LQQQKEFEQELAEQK	4	1.9621	9309.6	10358.3
Col4a3bp	0.523014	3.87E-30	80.102	S(0.477)PS(0.477)MS(0.523)S(0.5	3	-0.53596	49617.9	52169.3
Fam63b	0.739458	1.64E-20	103.88	NS(0.002)AS(0.057)S(0.201)S(0.73	3	-0.58623	13027.6	13112.5
Ms4a1	0.735727	2.94E-09	69.805	NS(0.249)VS(0.736)GPFPT(0.015)E	3	1.1521	14677.1	10298.2

39975.2	52556.1	41583.1	39683.0	0.1	0.5	772
72682.0	76300.9	78711.0	74153.0	0.1	0.1	924;556
13731.8	15035.3	13696.8	13911.0	0.1	0.1	664
87688.2	88478.6	97837.6	83962.0	0.1	0.2	216
39850.6	44668.3	47318.5	44885.0	0.1	0.0	14
12002.8	11598.0	13158.2	11468.0	0.1	0.2	549
10226.6	11714.6	11748.7	11192.0	0.1	0.2	229
3014.0	4012.1	4712.1	2362.6	0.1	0.8	115
12406.3	15538.0	13713.9	18402.0	0.1	0.5	966
30329.5	31759.1	30649.8	30919.0	0.1	0.3	1159
30329.5	31759.1	30649.8	30919.0	0.1	0.3	1166
10040.4	11390.1	12340.7	10909.0	0.1	0.1	161
48963.9	51510.0	53843.6	48220.0	0.1	0.1	1860
10751.8	12950.9	9893.5	10002.0	0.1	0.5	145
62229.4	72960.3	67675.1	63076.0	0.1	0.1	217
4898.0	5517.8	4674.8	4819.0	0.1	0.3	45
17899.8	21674.7	21419.9	19314.0	0.1	0.3	880
19469.1	21467.9	19530.5	21479.0	0.1	0.1	297
18605.7	19606.8	19356.3	19726.0	0.1	0.0	362
34306.0	34043.8	35309.1	33881.0	0.1	0.2	5014
7975.8	8511.6	7928.8	8208.1	0.1	0.1	110
29245.7	29967.3	32593.6	30156.0	0.1	0.1	974
72591.5	71654.7	77045.0	64289.0	0.1	0.3	925
17208.9	16662.2	17362.3	16831.0	0.1	0.2	1274;1148
10546.1	11748.7	10856.4	12068.0	0.1	0.1	21
10719.9	11714.6	12472.1	9244.2	0.1	0.4	519
12656.5	13832.0	14247.2	12868.0	0.1	0.1	337
27012.1	29887.0	28274.2	27353.0	0.1	0.1	1682
98637.0	116100.7	118747.7	109330.0	0.1	0.2	954
34460.3	36658.4	35433.0	34889.0	0.1	0.0	80
9309.8	10610.2	11178.0	9784.3	0.1	0.2	451;6234
50677.0	59491.3	54217.6	52410.0	0.1	0.1	379
12992.9	14417.2	13983.2	14238.0	0.1	0.0	80
12311.5	11609.0	13526.9	15492.0	0.1	0.5	9

Arhgap23	0.920566	8.19E-28	102.07	RHS(0.921)T(0.057)S(0.021)DLS(0.	4	-0.16452	13534.5	17087.7
Dennd4c	0.520297	0.00831088	44.543	RS(0.114)S(0.52)S(0.08)Y(0.18)T(0	3	0.76391	8187.1	7784.1
Map1b	0.988212	6.59E-48	96.848	AAEAGVTEDQY(0.012)GFLGT(0.98	5	-1.5242	41334.7	40748.2
Lipe	0.499963	2.25E-09	61.345	RS(0.5)S(0.5)QGVLHMPLYSSPIVK	4	0.033058	7104.1	6773.0
Arap3	0.995607	1.01E-12	117.2	S(0.996)FDQT(0.004)PLTK	2	-0.991	49199.2	45945.4
Mapk3	0.873566	2.85E-09	59.628	IADPEHDHT(0.93)GFLT(0.119)EY(C	3	1.2522	11455.2	11519.8
Akap6	0.91951	0.0011055	120.45	DSSF(0.079)S(0.92)T(0.001)K	2	-0.016039	16758.3	16837.6
Borcs6	1	0.0308857	43.635	HPRPS(1)PK	3	-0.65874	22311.5	21377.8
Plekha5	0.770599	3.67E-32	96.128	T(0.156)KS(0.771)PT(0.073)PESSTI	3	0.2575	18756.1	16345.1
Hic1	0.93843	4.45E-11	49.038	FT(0.002)AELGLS(0.938)PDKAAEV	4	-0.076988	2602.7	2471.1
Tax1bp1	0.999858	9.29E-11	52.249	AAS(1)PVEELLTMEDEGNSDMLVVT	3	0.9118	2675.1	3030.1
Epb41l1	0.997693	2.16E-28	106.39	S(0.001)LAAS(0.998)PEGS(0.001)E	3	0.040981	23326.4	24931.8
Dctn6	0.893063	0.000507397	87.639	GS(0.007)S(0.893)T(0.1)PVKN	3	-0.19708	61265.6	68529.8
Pitpnm2	0.996496	2.64E-07	74.649	GPSSLNHT(0.004)PS(0.996)IR	3	0.14441	10631.1	10998.8
Gab2	0.918996	3.18E-05	90.793	QKS(0.919)DT(0.081)AVQK	3	0.57706	30648.3	28330.0
Sgip1	0.842518	8.07E-09	55.588	AS(0.002)IGNIALS(0.578)PS(0.578	4	-0.57822	18912.3	20011.0
Dcaf5	0.961227	1.67E-06	87.216	AEEPS(0.039)S(0.961)PPVPK	2	-0.82385	43245.4	41686.1
Il16	0.573062	1.10E-32	73.128	S(0.165)LS(0.573)S(0.165)S(0.049)	4	1.0389	10674.7	11390.4
Tnrc6c	0.544385	4.59E-05	58.079	ES(0.544)S(0.454)MDRPT(0.002)FI	3	0.38252	22748.0	20581.4
Nhs12	0.992363	2.27E-06	54.237	HS(0.992)LFNT(0.007)ETAVNPK	3	4	12135.5	11573.5
Wac	0.850613	2.43E-91	123.41	S(0.074)PS(0.074)PGPNHT(0.851)(	3	1.2279	3897.2	4012.8
Ptk2	0.882201	0.000184054	87.476	YMEDS(0.003)T(0.013)Y(0.882)Y(C	2	-0.25569	48288.0	45970.6
Txlng	0.786979	4.23E-09	56.081	SQANDILQHQDS(0.787)S(0.211)C(	3	0.63774	7179.9	6749.5
Rnf169	0.573526	2.62E-23	92.563	GVAS(0.426)GPS(0.574)LEGEQFEE	2	3.0202	10883.7	9329.6
RGD13100	0.791825	1.04E-07	57.525	S(0.17)IS(0.792)LS(0.038)QSAENV	3	1.6631	3462.9	3954.9
Uvrag	0.745106	7.48E-22	80.142	KVT(0.006)PLS(0.028)S(0.14)S(0.7	4	0.28503	19754.4	19988.0
Pld2	0.738162	7.74E-12	65.833	YT(0.063)S(0.199)GS(0.738)KVGTC	3	1.8496	61015.1	61572.0
Akap13	1	1.06E-14	86.517	EDQRT(1)PPPGQEISR	3	-1.3362	23805.9	24845.1
Lrp4	0.969215	0.000102977	80.31	RGS(0.969)LPDT(0.031)GWK	3	1.3217	10513.9	9400.7
Scaper	0.904928	0.00021979	68.515	S(0.032)RS(0.905)T(0.063)AVMPK	3	0.20414	9636.5	8213.7
Creb1	0.918816	1.83E-11	70.784	ILNDLS(0.919)S(0.081)DAPGVPR	3	1.1512	23419.5	24358.1
Hdac6	0.962251	1.36E-17	95.205	GAVPHS(0.038)S(0.962)PNLAEVK	2	1.1964	214825.4	178160.9
Phf8	0.947131	4.08E-15	83.891	RPS(0.947)VGS(0.052)QS(0.001)S(	4	0.85709	43794.0	40208.5
Timm44	0.828301	8.33E-06	51.591	LGELT(0.085)GT(0.085)VKES(0.82	3	-0.1331	7952.9	7554.9

16061.2	14597.6	19048.6	17224.0	0.1	0.4	469
7289.7	8042.8	8838.4	8465.9	0.1	0.1	1142
40102.9	47094.8	44421.4	41633.0	0.1	0.1	935
6786.9	7294.8	7532.0	7691.7	0.1	0.0	659
49678.3	52013.8	58153.5	47659.0	0.1	0.3	1359
12786.4	12385.5	13023.6	13564.0	0.1	0.1	208
16300.7	17558.7	18573.0	18247.0	0.1	0.0	1330
21907.1	24326.7	24568.1	22600.0	0.1	0.0	61
20080.2	19508.9	21042.7	19592.0	0.1	0.2	792
3194.1	2379.4	3625.7	3006.3	0.1	0.6	657
2352.4	2861.4	2777.0	3144.0	0.1	0.3	124
22500.1	26058.0	27936.5	23130.0	0.1	0.2	587;579
56258.9	78754.9	62272.0	61769.0	0.1	0.4	185
12440.3	12990.5	11747.6	12400.0	0.1	0.2	879
31577.3	33301.3	32698.4	32711.0	0.1	0.1	180
17940.3	20614.3	21926.4	19446.0	0.1	0.1	184
43329.9	44759.6	47443.5	47614.0	0.1	0.0	716
12447.8	13111.5	12594.0	11917.0	0.1	0.2	319
22831.2	22660.3	24977.4	24486.0	0.1	0.1	1009
12366.9	12660.5	13649.8	13018.0	0.1	0.0	288
4091.4	3814.3	4542.3	4727.0	0.1	0.3	531
48541.3	51128.3	52320.8	52227.0	0.1	0.0	576
7028.2	7425.1	8432.6	6990.6	0.1	0.2	72
11614.2	11926.9	11205.8	11566.0	0.1	0.2	395
3598.6	3560.7	4620.2	3829.8	0.1	0.4	1016
19459.5	20175.5	24216.5	20154.0	0.1	0.3	549
51802.3	61990.4	68547.1	59594.0	0.1	0.3	79
24625.2	25932.6	27315.6	26648.0	0.1	0.0	932
10582.6	11063.4	11200.5	10990.0	0.1	0.1	1887
7679.2	9412.7	9788.1	8636.1	0.1	0.3	276
25687.7	26509.0	28909.0	24693.0	0.1	0.2	44
212098.0	203569.5	251302.3	204950.0	0.1	0.4	43
37543.5	44590.2	45935.7	42019.0	0.1	0.2	883
7916.5	8486.1	8525.2	8532.8	0.1	0.0	133



Plec	0.59304	2.01E-188	212.74	S(0.557)RS(0.593)S(0.593)S(0.236	3	0.66564	14417.1	13673.0
Plec	0.593041	2.01E-188	212.74	S(0.557)RS(0.593)S(0.593)S(0.236	3	0.66564	14417.1	13673.0
Fcho2	0.535393	1.79E-46	103.2	VSIGNIT(0.102)LS(0.535)PAVS(0.3	4	-1.5638	5036.7	5095.1
Nop56	0.999996	5.39E-29	78.098	LKPQET(1)LQENGMEDPPVSLPK	5	1.9038	8704.9	8419.9
Epb41l1	0.681915	0.000101804	53.449	RLPS(0.314)S(0.682)PAS(0.003)PS	3	-3.4622	15285.4	17443.1
Synm	0.999985	5.97E-05	114.23	RAT(1)ESVITR	3	0.62966	33577.5	29091.3
Fam160a2	0.998916	1.53E-51	109.19	DGTGLGLGGGS(0.999)PGAS(0.001	3	0.50852	19038.7	18490.7
Dbnl	0.968573	2.66E-16	140.57	SAGPPS(0.969)PS(0.03)S(0.001)R	2	1.8528	42721.8	46640.8
Nfia	0.692105	1.12E-55	89.953	VSQTPIAAGTGPNF(0.001)LS(0.00	5	-0.2767	12136.7	10214.6
Slc2a13	0.981976	1.55E-05	77.24	KAS(0.982)EDVEYT(0.018)LR	2	1.405	61621.0	63856.9
LOC10091	0.995125	1.91E-30	87.429	LLPVLS(0.001)VQS(0.995)PAALS(	3	1.3503	6031.0	5704.1
Nes	0.943819	2.79E-30	88.09	ES(0.001)QES(0.055)LRS(0.944)AE	3	-0.038484	6648.2	5680.2
Epb41l4a	1	0.0485129	45.598	IIAPS(1)PVK	2	0.18044	13137.4	12250.3
Pdzd2	0.661908	1.30E-15	62.781	S(0.162)LS(0.662)S(0.162)CS(0.01	4	1.8509	15478.6	15817.5
Dmxl2	0.842916	3.31E-08	41.575	AS(0.006)DPS(0.014)ALLT(0.843)P	4	-0.46054	5191.1	5091.0
Usp31	0.701655	0.00242244	51.004	QAS(0.001)VT(0.005)S(0.034)AAS(	2	-0.39157	6256.9	6308.7
Fhdc1	0.591198	1.61E-19	71.361	RS(0.408)S(0.591)EPVGLGT(0.001	3	-0.59349	3514.0	3653.9
Cdk5rap2	0.930247	4.89E-12	65.085	LRDELGHS(0.001)CLANS(0.93)FS(C	4	1.5152	8631.9	8709.5
Rab11fip2	0.710753	1.63E-26	77.1	LS(0.005)S(0.015)AHS(0.711)MS(C	4	-0.68838	16611.6	15320.6
Esam	0.684729	8.16E-20	66.36	AAPRPGTFTPT(0.003)PS(0.052)V	4	0.65375	9819.0	11752.3
Arfgef2	0.773492	1.32E-16	55.084	RCS(0.773)VT(0.109)S(0.109)VES(I	4	-2.7712	13736.1	8874.5
LOC10091	0.974754	0.00342322	53.211	AAS(0.975)RDKDY(0.025)R	3	0.85142	22201.7	19089.6
Rab7b	0.969078	9.22E-16	65.428	Y(0.001)QGIAENHLADS(0.969)IKLS	4	0.17309	7554.2	7720.3
Zwint	0.971257	4.54E-14	79.089	NQS(0.028)Y(0.001)LQLLCS(0.971	2	-0.64239	7391.4	5826.7
Eepd1	0.994282	8.07E-61	154.62	KFS(0.994)AACNFS(0.006)NILVNQ	4	0.73933	50634.0	51996.0
Srgap3	0.97802	9.31E-13	70.783	AAACPS(0.022)S(0.978)PHK	3	-0.023458	47725.1	46345.7
Ablim3	0.946691	2.93E-13	67.217	S(0.053)GPES(0.947)GRS(0.422)S(	3	0.40317	9202.1	9727.0
Akap6	0.982693	0.000778826	50.158	NRS(0.983)GQLPVQS(0.017)K	3	0.91563	14110.6	13286.9
Pdzd2	0.987523	1.69E-37	140.89	APHANS(0.001)GS(0.011)AS(0.98	3	0.40384	14786.8	15366.7
Sash1	0.943866	5.21E-30	124.29	LLADS(0.001)QGLS(0.055)GRS(0.9	2	0.90335	33448.7	33046.8
Clasp1	0.985772	2.93E-21	106.86	S(0.014)RS(0.986)DIDVNAAASAK	2	-0.35586	269879.5	265508.2
Nf1	0.800705	4.17E-34	99.957	GNS(0.189)S(0.801)MDS(0.009)T(I	3	-0.40576	17992.8	18823.1
Myh11	0.866264	8.49E-05	78.705	MT(0.001)ES(0.132)S(0.866)LPS(0	3	-0.78604	7913.2	8598.4
Tmcc2	0.99986	4.95E-16	90.385	SSSLEPQRGS(1)PHLLR	4	-0.036296	16840.6	16534.9

15970.7	16752.4	15478.2	15818.0	0.1	0.2	4387;4273;4244
15970.7	16752.4	15478.2	15818.0	0.1	0.2	4388;4274;4245
5220.5	5168.1	6147.4	5426.5	0.1	0.2	433
7901.2	9575.0	9148.8	8568.0	0.1	0.1	488
18696.2	16734.8	20164.2	19184.0	0.1	0.3	541;533
30800.1	35282.3	35516.4	31140.0	0.1	0.2	463;463
18604.6	20879.4	20734.9	19608.0	0.1	0.0	914
44102.8	47111.3	47290.7	51170.0	0.1	0.1	235
12513.8	12760.6	12876.1	12391.0	0.1	0.2	258
66569.9	67745.4	71539.3	70187.0	0.1	0.0	6
5408.7	5829.2	6520.3	6350.8	0.1	0.1	577
6537.8	7252.9	6607.4	6718.9	0.1	0.2	773
11485.4	12675.9	14225.8	13320.0	0.1	0.2	205
15206.3	18060.2	16816.2	15851.0	0.1	0.1	2308
6092.9	5954.3	6374.1	5534.6	0.1	0.3	2001;2019
6559.8	7093.4	7106.2	6665.0	0.1	0.0	543
3763.0	4288.3	4044.9	3591.9	0.1	0.2	644
10019.5	9245.4	10443.5	10162.0	0.1	0.2	841
14028.8	16074.8	16344.9	17725.0	0.1	0.2	227
11746.2	12598.9	10090.5	13662.0	0.1	0.5	343
6405.5	5475.9	13347.4	12835.0	0.1	0.8	620
18002.0	23012.3	22515.3	19166.0	0.1	0.4	149
7457.8	8301.9	8639.7	7861.1	0.1	0.0	186
6964.4	7586.3	7417.9	7017.1	0.1	0.3	239
54098.7	56676.5	59997.9	54339.0	0.1	0.1	25
44574.4	50643.2	53199.2	47440.0	0.1	0.1	871
9464.8	10308.4	10273.3	10402.0	0.1	0.0	405
12904.5	15921.9	14961.0	13097.0	0.1	0.2	562
15174.3	17108.8	16294.7	16063.0	0.1	0.0	1951
31685.9	35417.6	38088.6	33643.0	0.1	0.1	718
274933.1	285340.5	313572.2	285440.0	0.1	0.1	600;600
20127.1	19713.5	21116.4	21316.0	0.1	0.1	668
7699.3	8912.1	7585.4	9926.8	0.1	0.4	638
17465.5	19205.3	19728.2	16556.0	0.1	0.2	131

Lmnb1	0.998911	0.00010636	53.3	LALDMEIS(0.999)AY(0.001)RK	3	-0.38786	6004.4	5832.0
Lrch3	0.999893	2.56E-68	124.39	GRAS(1)PLLSSAPATDAADSIAR	4	-0.33025	41350.2	44051.0
She	0.525146	7.54E-15	78.441	KNS(0.338)ET(0.525)GS(0.136)AAI	4	-0.0064671	8185.6	7816.4
Scrib	0.743174	1.48E-104	113.17	ETGGAYPPS(0.743)PPPHS(0.241)S	4	-0.13906	6821.8	5952.1
Kif1a	0.677871	3.62E-08	101.56	AAS(0.003)VS(0.678)S(0.319)LHEF	3	-0.163	24402.2	22979.3
Arhgef28	0.536128	6.07E-12	93.106	T(0.536)ES(0.396)LS(0.067)LS(0.0	3	-1.3182	15378.4	13503.0
Ppfibp1	0.996323	2.71E-05	108.35	SS(0.004)S(0.996)LGNLK	2	1.2473	158662.1	144759.9
Synm	0.83704	6.94E-21	108.63	EVPISEVS(0.163)RGS(0.837)K	3	-0.91951	11613.8	9224.4
Usp6nl	0.638715	2.44E-06	83.061	KPS(0.325)S(0.639)GT(0.036)QDN	3	-0.13988	20201.6	19529.5
Ahcyl2	0.996347	1.40E-31	95.622	DGGEALVS(0.996)PDGT(0.003)VT(	2	-1.0476	1696.1	1670.6
Srrm2	0.948546	2.23E-15	89.232	MAPALSGANLT(0.051)S(0.949)PR	3	-2.3153	2526.9	2278.7
Sorbs2	0.99911	0.00132192	46.88	FFGT(0.999)FPGNY(0.001)VK	3	-0.70847	2319.8	2410.9
Lnp	0.983311	5.27E-11	52.642	NLS(0.983)PAPANS(0.016)NQGPP	4	0.45125	5195.6	5174.1
Bcas3	0.972578	0.000443346	42.58	S(0.973)AGLEEIEQELT(0.02)S(0.00	3	0.94492	8692.6	6905.7
Mpz	0.999823	0.00143564	72.2	AASEKKS(1)K	3	0.72493	157242.9	166412.9
Bod1l1	0.635217	0.000643104	71.085	AQLS(0.365)PS(0.635)VKR	3	0.25008	9209.9	10144.3
RGD13071	0.776066	1.07E-12	72.311	IS(0.776)PQS(0.224)NVDFDLTLR	3	1.0974	5358.5	6316.4
Bag3	0.995884	3.14E-11	67.153	QPHLFHAY(0.004)S(0.996)QPGVQ	3	-0.58151	15658.7	16414.2
Camk1	0.516301	1.52E-07	43.306	MEDPGS(0.001)VLS(0.159)T(0.159	3	-0.59963	4093.0	3802.9
Sptbn2	0.576707	2.66E-09	70.654	S(0.326)S(0.094)ES(0.577)AHVAT(	3	0.82148	10666.5	13148.7
Kif13b	0.770206	2.86E-05	110.18	S(0.05)IS(0.77)S(0.177)PS(0.002)M	3	0.34601	16914.6	16632.5
Sf3b1	0.977304	0.000278222	42.029	LS(0.001)S(0.002)WDQAET(0.977)	3	-2.0881	17765.0	17408.0
Pdzd2	0.998587	7.04E-09	92.265	KGVTVPKS(0.999)PPS(0.001)R	3	-0.3069	38001.2	43646.2
Rgs6	0.734212	2.19E-42	92.913	KSVYGVGT(0.001)DES(0.075)QS(0.7	5	0.27088	4482.4	5674.7
Zfyve26	0.527988	0.000231235	64.405	NES(0.528)PS(0.356)Y(0.001)S(0.1	2	-2.2261	20778.9	23837.1
Ahnak2	0.902782	2.78E-07	44.6	MPS(0.903)FS(0.094)VS(0.003)API	4	-1.0316	4508.8	4378.6
Obscn	1	0.0700235	50.04	AGLAS(1)FR	2	-0.048452	16052.3	15410.6
Smpx	0.752914	6.63E-36	102.29	RKES(0.753)T(0.226)PGT(0.021)AE	3	-0.15665	24752.9	30516.2
Rasip1	0.701784	1.58E-38	81.808	AAS(0.145)GGAALAS(0.142)PGPG:	3	-0.28676	14373.0	13758.6
LOC10029	0.998349	0.000131184	44.963	ILDAT(0.998)DQES(0.002)LELKPTS	3	2.0435	9137.8	9484.5
Camsap3	0.936963	0.0460077	56.81	GS(0.002)T(0.061)GS(0.937)LK	2	0.55759	33545.3	28558.2
Wnk1	0.809621	1.23E-05	80.371	S(0.182)IS(0.81)NPPGS(0.008)NLR	2	-0.82971	27863.4	29236.1
Sipa1l1	0.88013	2.32E-06	64.121	LIDLES(0.114)PT(0.88)PES(0.005)C	2	0.29839	15003.9	13799.2
Bmp2k	0.981101	5.93E-117	131.36	S(0.019)EGS(0.981)GGGAAAGGAA	3	0.75474	4474.1	3887.4

5725.0	6718.0	6712.5	5737.3	0.1	0.2	375
43511.9	47836.1	46357.8	46514.0	0.1	0.0	553
8365.4	9528.7	9144.4	7924.2	0.1	0.2	66
7333.1	7382.4	7557.2	7007.7	0.1	0.2	941;941;941
22827.0	26833.5	26457.5	23347.0	0.1	0.2	418
13686.0	15483.0	16605.7	14377.0	0.1	0.2	532
165871.2	176631.5	174392.0	161250.0	0.1	0.1	435
11826.0	11787.2	11989.1	11882.0	0.1	0.3	585;585
19924.8	20744.1	23935.5	20448.0	0.1	0.2	372
1570.6	1969.7	1969.1	1451.5	0.1	0.4	109
2621.4	2380.1	2650.3	3078.2	0.1	0.4	2338
2661.3	2911.9	2707.3	2451.3	0.1	0.2	1187
4644.5	5871.1	5133.9	5387.5	0.1	0.2	177
7918.3	8565.5	8659.0	8451.0	0.1	0.2	461
121124.3	148593.6	204944.5	132110.0	0.1	0.6	237
9425.9	10646.1	11931.4	8848.3	0.1	0.4	3009
5103.4	5544.9	6883.1	5892.6	0.1	0.4	149
15005.1	16612.7	17411.4	17384.0	0.1	0.0	117
3761.2	4210.4	4112.6	4406.3	0.1	0.1	184
11261.8	10913.1	13722.5	13668.0	0.1	0.4	2209
16023.9	17847.9	18662.8	17622.0	0.1	0.0	1454
16934.2	19451.7	18584.8	18868.0	0.1	0.0	223
41109.0	45320.5	50528.7	38212.0	0.1	0.4	1767
4976.1	5272.4	6090.9	5164.0	0.1	0.4	242
21858.2	27087.6	20913.4	24597.0	0.1	0.4	1898
4129.2	4498.0	4470.7	5247.4	0.1	0.2	474;474
13062.1	17960.1	15074.3	15595.0	0.1	0.3	8565
30547.8	32744.7	33729.6	27256.0	0.1	0.4	36
14699.5	15909.8	14744.1	16127.0	0.1	0.1	297
8844.8	10643.5	10005.7	9351.4	0.1	0.1	974
29847.2	33854.6	34316.3	32265.0	0.1	0.2	376;377
29691.8	32553.3	30982.1	31265.0	0.1	0.0	2615
15934.5	16779.9	16103.4	15984.0	0.1	0.1	1569
3883.3	3930.5	4656.4	4788.4	0.1	0.3	13

Usp39	0.974397	2.10E-10	89.232	EPEAAS(0.004)S(0.021)RGS(0.974)	3	-0.39975	6448.1	6081.7
Scn7a	0.950763	1.69E-21	78.917	GVHSGQIEEKAS(0.951)IQT(0.049)	3	0.66143	41203.5	42573.5
Nefh	1	2.44E-26	94.339	S(1)PAGAKS(1)PAEAKS(1)PVVAK	3	-0.43587	1645897.7	1652392.5
Kcnj3	1	2.03E-30	89.297	ERHNS(1)VECLDGLDDISTK	3	-0.95635	22452.2	23351.1
Fyn	0.993093	9.93E-17	131.08	DGSLNQS(0.007)S(0.993)GYR	2	0.69729	43695.0	40459.7
Mapt	1	0.00249199	66.758	ARGPS(1)VGK	3	0.052054	11653.8	12137.4
Cep170	0.574395	0.0174583	71.614	S(0.574)FT(0.11)S(0.273)LY(0.043)	2	0.93487	22148.1	19964.9
Iqsec1	0.857232	1.40E-10	43.462	QVS(0.857)VT(0.141)NDGS(0.001)	4	0.64163	16829.9	17793.1
Jph4	0.981382	0.00775205	70.363	RS(0.019)S(0.981)LGSK	2	-0.030676	31582.2	27681.7
Caskin1	0.903453	3.75E-42	109.23	ALAGLQS(0.012)S(0.078)S(0.903)A	3	0.80914	40033.5	42096.3
Lad1	1	1.14E-16	95.205	QRT(1)LEDEEEQERER	3	-0.41538	44898.4	45473.7
Clasp1	0.998995	1.64E-18	137.73	DGGAAS(0.999)PAT(0.001)EGR	2	0.16232	38177.7	37314.8
Kcmf1	0.746801	4.58E-05	94.801	DLDES(0.253)S(0.747)GVR	2	0.059381	12049.6	10843.4
Rasal2	0.645478	1.76E-21	76.889	FAEHS(0.156)S(0.648)S(0.196)PNV	3	-1.344	25574.6	23498.1
Rbm25l1	0.5	0.0253369	44.863	ERS(0.5)S(0.5)DRNK	2	-0.60676	2380.7	2123.6
Arhgap12	0.988182	0.000674234	73.082	FNS(0.001)DS(0.011)HS(0.988)PK	2	-0.33403	22383.0	19848.7
MAST1	0.5941	1.25E-42	79.784	S(0.001)LILT(0.039)S(0.119)T(0.41	4	1.5413	4564.5	5359.1
Fam129a	0.972515	1.44E-12	101.42	T(0.005)S(0.002)MGS(0.973)NQA	2	-1.1873	6780.5	6345.3
Rph3a	0.6518	1.08E-09	45.084	ANS(0.652)VQAS(0.111)RPAPAS(0	4	-1.1945	5447.0	5024.2
Twf1	0.795338	5.58E-36	100.76	YLLS(0.021)QS(0.795)S(0.183)PAP	3	1.0399	3184.2	3138.9
Dclk2	0.99685	3.17E-06	50.189	GNGLIPS(0.998)PAHS(0.997)AHCS	3	0.10724	20137.2	19746.7
RGD15630	0.991302	3.87E-11	69.188	ADT(0.002)S(0.005)AVS(0.991)PE	2	2.8089	5865.5	6470.7
Cldn19	0.911252	1.31E-10	90.453	S(0.034)GPS(0.911)T(0.055)AAREF	3	-0.35767	27908.7	28987.1
Stim1	1	2.04E-06	76.196	AEQS(1)LHDLQER	3	0.38759	15599.1	14553.9
Pbx2	1	2.10E-13	103.16	TAVSVAQGGHS(1)R	2	0.26735	16578.2	14345.5
Plekha4	0.996879	2.63E-24	136.63	ALSSS(0.001)QS(0.997)GVGS(0.00	2	0.25647	10014.8	9212.2
Mtss1l	0.521329	2.74E-29	118.52	KS(0.038)S(0.521)MCS(0.441)LAQ	3	-0.89826	37830.6	33847.5
Gmps	0.545778	9.96E-20	62.57	VINAAHS(0.005)FY(0.001)NGT(0.2	4	-0.30321	4888.0	4211.9
Prx	1	0.0230561	67.897	FGLS(1)GPK	2	-0.65962	46326.1	46488.3
RGD13079	0.735666	1.03E-54	86.722	S(0.205)VS(0.736)CS(0.059)DLT(0.	5	-0.53805	4042.6	4153.9
Apc2	0.573388	0.000588415	54.539	LVAS(0.365)PLPVT(0.573)S(0.062)	3	-0.95111	2926.4	3654.2
Stbd1	0.940287	4.49E-18	74.324	HS(0.057)S(0.94)WGS(0.002)VGLC	3	1.0857	8657.9	7910.0
Acap2	0.999864	0.00239326	69.275	VSVHT(1)PVK	3	0.48074	6493.1	6453.9
Akap12	0.999999	1.09E-09	95.662	S(1)KEDDLETAEKR	3	0.19454	189528.7	223090.5

5356.5	6748.4	6610.8	6178.7	0.1	0.2	46
46097.9	48134.2	51091.9	42641.0	0.1	0.2	1639
1207942.8	1737166.4	1540129.6	1645800.0	0.1	0.4	688;658
23547.8	24926.2	25485.0	25362.0	0.1	0.0	385
45194.1	44610.0	51863.4	44855.0	0.1	0.2	26
10993.5	12964.1	13400.8	11643.0	0.1	0.2	333;333
22253.1	24803.0	22992.9	22535.0	0.1	0.1	1012
16833.1	18784.0	18607.2	18837.0	0.1	0.0	198;197
27440.1	31112.4	34625.1	29017.0	0.1	0.3	236
39949.6	50373.8	42050.1	41003.0	0.1	0.3	1224
42966.8	49331.0	49766.7	46640.0	0.1	0.0	19
35861.4	42426.5	40988.9	38293.0	0.1	0.1	1224;1157
12440.3	13434.9	12227.4	12957.0	0.1	0.1	146
24469.7	26768.6	29646.3	23970.0	0.1	0.3	637
1562.9	1765.8	2916.4	1949.7	0.1	0.7	372
22721.6	23254.2	25568.4	22176.0	0.1	0.2	163
5114.5	5484.0	6018.8	4935.2	0.1	0.3	45
7036.1	7519.4	6951.2	7568.5	0.1	0.1	591
5242.7	6106.8	5434.4	5636.7	0.1	0.1	271
3592.2	3757.6	3770.2	3311.4	0.1	0.2	142
18584.4	22113.6	21647.5	20158.0	0.1	0.1	51
5273.8	6569.1	6042.8	6640.6	0.1	0.2	125
25122.4	29565.8	33353.4	26752.0	0.1	0.3	204
14288.6	16895.4	14970.6	16724.0	0.1	0.1	257
14453.6	18098.7	15484.6	16030.0	0.1	0.3	330
8852.2	10859.4	10612.0	9230.2	0.1	0.2	558;486;558
34332.6	38670.2	37421.8	39819.0	0.1	0.1	271
4339.5	4797.1	4833.8	5065.4	0.1	0.1	318
44215.6	44000.6	56212.8	49640.0	0.1	0.3	877;877
4460.3	4954.0	4402.1	4485.2	0.1	0.1	253
3491.3	3629.8	3834.4	3550.2	0.1	0.3	1047
7711.8	8773.6	9653.2	8125.7	0.1	0.2	192
5659.1	7290.8	6217.6	6840.1	0.1	0.2	548
203612.8	229715.6	184992.9	259240.0	0.1	0.5	304



Dpysl2	0.560148	0.00728627	47.894	IT(0.56)S(0.44)DRLLIK	3	-0.63496	8092.0	8175.3
Cic	1	0.00241143	62.633	AAGDT(1)PERK	2	0.75615	49087.1	57762.4
Arhgap23	0.923278	3.20E-08	91.657	RS(0.076)S(0.923)YLLAITTER	3	-0.86383	20459.2	21120.0
Srgap3	1	0.00155846	87.476	IES(1)PEKR	2	-0.58061	171877.0	165019.9
Ndrp1	0.999897	1.47E-05	90.434	SHTSEGRS(1)R	3	-0.79024	46168.6	43961.1
RGD15620	0.996942	2.20E-79	128.88	IAPVDT(0.001)QAAS(0.997)LFCLAI	4	0.29184	9227.3	8583.9
Tns3	0.942846	4.12E-11	53.091	IPNS(0.036)KES(0.943)PICLT(0.015	4	1.203	6213.0	5909.4
Ahnak2	0.930439	2.38E-15	83.087	IGMT(0.001)S(0.006)GQS(0.93)PV	3	-0.62918	41216.6	44670.8
Bcr	0.518452	2.56E-21	71.148	HQDGLPY(0.518)IDDS(0.442)PS(0.	4	0.17875	9265.2	10320.2
Myh11	0.820225	2.84E-07	64.565	HVS(0.82)T(0.18)LNIQLSDSK	3	1.0559	11990.0	12975.4
Inpp5d	0.90116	4.01E-19	72.167	S(0.049)T(0.049)LS(0.901)PDQQLT	3	-0.54496	10887.4	10438.9
Rab14	0.802525	6.62E-11	67.418	S(0.803)T(0.187)Y(0.006)NHLS(0.C	3	-0.9401	5957.4	6167.5
Rltpr	1	3.24E-26	77.959	AVS(1)VHEDQLQAPAERPLR	4	-0.56886	14774.9	14439.8
Rasgrf1	0.998889	7.61E-24	94.313	T(0.999)PEEIDMT(0.001)TLEESSGF	3	0.99825	8575.0	8975.4
Cdk15	0.716444	3.40E-13	74.776	S(0.271)NS(0.716)KDIQNLS(0.012]	3	0.74064	18357.7	16904.6
Arhgap24	0.999877	1.67E-07	71.98	S(1)PPLTVK	2	0.9731	110336.0	101702.7
Crybg3	0.96934	0.0262958	54.784	AS(0.031)RS(0.969)PVEK	2	-0.50202	12691.3	10222.9
Ulk1	0.985267	6.28E-12	63.46	LHS(0.985)APNLS(0.015)DFHVVRP	5	-0.59752	2673.9	2543.3
Dync1li1	0.638867	9.16E-06	48.907	KPASVS(0.003)PT(0.008)T(0.027)P	2	-0.55377	5018.3	5205.5
Gsk3b	0.620536	3.40E-29	80.236	TTSFAESCKPVQQPS(0.621)AFGS(0	4	-0.53348	15460.7	14439.8
LOC10036	0.843949	4.10E-05	88.021	DTAQDGS(0.156)T(0.844)IK	3	-1.5004	23820.2	24488.6
Tbc1d10a	0.931098	4.73E-56	135.3	PALQPS(0.931)PS(0.069)IR	2	3.9688	46816.2	49472.0
Prr12	0.997196	7.12E-05	61.167	GHGLEPT(0.003)APS(0.997)PR	2	-0.82597	4889.5	4268.1
Kif1b	0.764955	1.05E-58	107.15	AS(0.235)S(0.765)PCQEFEQFIIPT	3	-0.011375	3308.4	3000.9
Bod11	0.950057	7.12E-15	87.352	KET(0.95)VEDT(0.049)T(0.001)IST(	3	1.6799	22504.7	24208.9
Lad1	0.713636	2.54E-24	95.622	GRPEETAAQKS(0.714)PVS(0.286	4	0.34986	33955.6	35048.6
Snx18	0.995267	8.32E-15	78.326	GVS(0.005)APPPHQAS(0.995)GAK	3	-0.078132	18503.2	18234.0
Cep170	0.992579	1.15E-12	70.889	SQEPAT(0.001)S(0.007)GCS(0.993	3	0.57842	40857.6	41000.5
Peak1	0.541189	1.69E-15	57.845	VKGS(0.06)S(0.176)S(0.541)T(0.21	4	0.16096	11961.4	11626.2
Zfp609	0.896129	7.99E-05	72.607	AS(0.077)PS(0.027)VS(0.896)CK	2	0.037451	13187.5	11981.6
Drp2	0.589528	1.18E-42	79.59	GYLPVQSVLES(0.001)DCS(0.001)E'	5	0.64966	3784.1	3151.4
Ahnak	0.5	1.13E-20	101.78	ISMQDVDLS(0.5)LGS(0.5)CK	3	-0.34529	29335.1	27214.5
Ahnak	0.5	1.13E-20	101.78	ISMQDVDLS(0.5)LGS(0.5)CK	3	-0.34529	29335.1	27214.5
LOC68570	0.752212	1.10E-06	71.176	VLDGY(0.003)T(0.245)S(0.752)PPI	2	0.33304	15612.2	14835.8



6920.3	8021.2	9819.3	7519.4	0.1	0.4	13;13
46651.5	62267.6	47861.4	57754.0	0.1	0.4	2222
21585.6	23535.8	23002.6	22549.0	0.1	0.0	403
165743.5	185431.2	191832.3	172520.0	0.1	0.1	884
40504.3	45001.6	53872.5	44017.0	0.1	0.3	352
9482.8	9746.2	11564.9	8544.1	0.1	0.4	844
6263.1	6748.9	6732.2	6629.8	0.1	0.0	837
41425.2	42247.3	51073.7	45943.0	0.1	0.2	305;305
8415.0	9841.1	9901.1	10887.0	0.1	0.2	388
11953.8	12661.6	12775.6	14949.0	0.1	0.2	1367
10937.1	12464.7	11264.6	11564.0	0.1	0.1	934
6572.6	6509.2	7377.6	6567.4	0.1	0.2	97
14771.9	16770.0	15033.7	16316.0	0.1	0.1	1322
9389.9	9416.5	10775.1	9280.3	0.1	0.2	792
18158.5	19038.1	20924.0	18479.0	0.1	0.1	343
107954.7	115924.8	120382.7	113760.0	0.1	0.0	290
11035.0	12845.3	13095.2	11201.0	0.1	0.3	782
2505.8	2770.8	2875.2	2803.5	0.1	0.0	555
5259.2	5939.7	6067.4	4932.5	0.1	0.3	516
13946.8	15674.4	17511.9	14786.0	0.1	0.2	21
23898.0	27057.9	28678.1	23268.0	0.1	0.2	1501
48774.4	58388.1	50316.0	50015.0	0.1	0.2	407
4656.6	5174.9	4761.4	5178.7	0.1	0.1	860
2761.0	2983.8	3417.8	3523.0	0.1	0.3	1601
23874.6	25318.9	27712.1	24206.0	0.1	0.1	1976
32211.8	39745.9	38551.3	32454.0	0.1	0.3	181
16428.5	20117.2	19478.2	18580.0	0.1	0.1	208
40882.3	45609.8	43824.0	44874.0	0.1	0.0	212
11296.9	12563.7	13320.6	12288.0	0.1	0.0	499
13604.0	13707.7	14857.4	13863.0	0.1	0.1	1289
4463.3	3886.0	4021.2	4566.6	0.1	0.5	639
29312.8	29144.5	31863.8	32952.0	0.1	0.1	510
29312.8	29144.5	31863.8	32952.0	0.1	0.1	513
16578.6	17722.6	17888.0	15853.0	0.1	0.1	253

LOC10368	0.930831	7.29E-17	72.564	VQGT(0.071)GVT(0.929)PPPT(0.9	2	0.034285	20992.4	16649.0
Abi1	0.998035	0.00116702	77.541	T(0.002)AS(0.998)LNQRPR	2	0.43774	18842.0	18250.5
Tjp2	0.999325	6.95E-96	163.32	GS(0.001)YGS(0.999)DPEEEEEYRQ	4	-0.8993	123573.5	109161.7
Ppp1r37	0.975983	0.00272717	81.263	ISVS(0.024)S(0.976)PGR	2	-0.0034402	28590.9	22884.9
Atp8b2	0.999457	0.000862135	101.97	T(0.001)QQS(0.999)FEK	3	0.28969	88482.5	78157.4
Dpysl3	0.999976	6.42E-68	117.9	GGT(1)PAGS(0.442)T(0.554)RGS(0	5	0.45981	267947.4	280305.6
Cadps	0.997359	2.42E-48	117.01	S(0.002)HNAS(0.997)IIDMGEES(0.	3	0.85913	37180.6	37056.0
Rasal2	0.838844	3.67E-37	104.67	FAEHS(0.134)S(0.839)S(0.027)PN\	3	-0.36908	40646.5	39150.0
Ulk1	0.728049	0.0105012	58.398	S(0.066)GS(0.041)T(0.165)S(0.728	2	-0.17289	15324.7	14096.5
LOC10369	0.775095	8.98E-24	92.792	VNGLPS(0.544)PT(0.775)HS(0.681	3	-1.2278	48311.9	44813.4
Ppp1r3e	0.989663	0.00887169	43.208	NLS(0.99)FIAALT(0.01)ER	2	-0.36616	9092.0	8061.4
Satb1	0.75461	0.0114729	102.51	LGS(0.245)T(0.755)GGK	2	-0.54353	17650.5	14175.4
Wdr13	0.609269	0.0110429	63.694	AYS(0.609)NS(0.391)IVR	2	0.22206	7849.3	8012.9
Mlip	0.740322	1.32E-21	85.087	SLAIS(0.74)S(0.213)S(0.046)LASDV	3	1.2834	10274.0	9018.1
Hnrnpa3	0.696343	3.35E-05	52.172	EDS(0.696)VKPGAHLT(0.304)VK	3	-0.58737	16270.5	18650.8
Cacna1h	0.966053	1.60E-07	45.205	VPLGAS(0.966)PPAPAAPVRAS(0.0	4	-0.45176	7772.8	10528.4
Srsf4	0.548456	1.01E-13	69.256	S(0.548)VS(0.452)KEREHATAEPGC	4	-0.4083	9090.7	9704.4
Jade1	0.860983	0.000186369	48.527	AAT(0.091)S(0.861)PGVGQS(0.04	2	-0.26035	2361.6	2443.2
Prune2	0.93292	1.31E-15	63.639	LPS(0.067)PPNT(0.933)VDMEHGA	3	1.3668	11738.0	13150.9
Add2	0.552115	2.71E-16	57.347	SAGPQSQLLAS(0.552)VIAEKS(0.55	4	1.3277	7429.4	5604.8
Crybg3	0.926092	8.40E-09	61.096	AS(0.001)T(0.003)S(0.012)LLS(0.9	3	0.1297	6193.2	5166.1
Uhrf1bp1l	0.93116	2.63E-32	94.632	S(0.028)MS(0.931)VDLS(0.04)HAP	4	0.52041	15248.4	13537.0
Prkcdbp	0.599394	0.000732794	43.752	S(0.599)HDT(0.116)T(0.131)S(0.1	3	-2.5161	5472.4	5355.9
Tpr	0.549289	4.75E-12	59.339	KGAILSEEELAAMS(0.451)PT(0.549	4	2.3431	3165.6	3517.5
Map2	0.902787	1.52E-23	98.227	TTAT(0.013)S(0.075)GES(0.903)AC	2	1.8235	13451.0	13277.1
Spire1	0.816881	2.32E-07	81.904	FLPIS(0.035)S(0.148)T(0.817)PQPE	3	1.9124	14014.0	15615.7
Tns1	0.937615	4.07E-94	130.83	EAFEEMEGT(0.025)S(0.938)PS(0.0	4	-0.63706	9528.9	9245.7
Fam192a	0.828693	0.00182996	65.179	S(0.165)S(0.829)ES(0.006)GNSVK	2	0.48035	6142.7	4536.8
Plekha3	0.967535	1.72E-07	71.279	S(0.032)AS(0.968)HPGPCSSER	3	-0.81511	2939.1	3204.0
Tns1	0.569768	5.83E-06	42.663	SGYIPSGDT(0.001)LGAPELLS(0.57)	3	0.95959	5876.5	7731.7
Ttc28	1	0.00869326	67.207	ARFS(1)PDPK	3	0.13206	25405.3	24763.9
Clvs1	0.996362	8.48E-15	101.72	SQS(0.003)VVEAGT(0.996)LKHEEK	3	-0.50214	93689.7	77165.8
Phka1	0.962577	1.50E-15	54.867	LFQPS(0.012)RPS(0.012)LNLLDS(0	4	1.1496	15986.7	15239.4
Abl1	0.999876	3.15E-61	148.91	GLGESDALDSEPAVS(1)PLLPR	3	0.2946	14102.2	18034.4

17413.3	20998.2	19961.2	19291.0	0.1	0.3	676
17489.9	19294.4	21317.3	19125.0	0.1	0.1	231;226
132036.9	135251.0	141509.8	122480.0	0.1	0.3	1132;1124
21579.2	27353.8	27494.1	25114.0	0.1	0.4	581
103346.9	94674.6	109162.0	91680.0	0.1	0.4	1012
243590.1	294448.2	310676.2	261620.0	0.1	0.2	627
34217.6	41401.4	38632.5	38688.0	0.1	0.1	375
38823.2	41966.8	45487.9	42399.0	0.1	0.0	630
16787.3	17521.3	16909.2	16155.0	0.1	0.2	469
44817.2	50825.8	51157.1	49031.0	0.1	0.0	34
7683.4	9223.2	9304.4	8663.0	0.1	0.2	16
16448.7	18753.2	17988.5	16113.0	0.1	0.3	48
7230.4	8578.0	8537.4	8168.8	0.1	0.1	79
10418.1	10459.2	11936.8	10134.0	0.1	0.3	88
16202.8	20089.7	17942.5	17945.0	0.1	0.2	94
10524.0	11210.8	9668.0	10683.0	0.1	0.4	18
7719.4	8853.4	12896.4	7282.3	0.1	0.7	404
3079.7	2707.6	3166.6	2759.2	0.1	0.4	698
13508.2	12166.7	14388.2	15490.0	0.1	0.3	991
3816.4	2592.6	8054.4	7804.6	0.1	0.8	522
6224.2	6134.3	6552.5	6568.3	0.1	0.2	951
12531.9	14781.3	15268.8	15195.0	0.1	0.2	934
5452.2	5651.0	5890.2	6287.2	0.1	0.1	70
2932.0	3385.3	3929.7	3214.5	0.1	0.3	437
13955.3	15792.1	15299.8	13461.0	0.1	0.2	1601;1515
13443.2	14804.4	17716.0	14650.0	0.1	0.3	479
9036.4	9027.3	11443.0	9986.5	0.1	0.3	1134
5981.6	6174.6	5780.5	6291.6	0.1	0.4	161
3140.9	3353.6	3238.0	3576.1	0.1	0.1	211
7006.7	7285.9	7733.2	7558.3	0.1	0.3	965
26373.3	25894.2	29674.1	28265.0	0.1	0.1	2073
92448.2	99391.3	100928.1	88068.0	0.1	0.3	335
15620.4	16665.5	17740.6	16908.0	0.1	0.0	677
16273.1	14829.7	19351.0	18846.0	0.1	0.4	569

Grasp	0.550473	8.70E-08	58.246	FIPGLNRS(0.45)LEEEES(0.55)QL	3	0.019723	11842.9	12021.1
LOC10369	0.833752	8.98E-24	92.792	VNGLPS(0.76)PT(0.406)HS(0.834),	3	-1.4938	65157.3	66671.6
Gripap1	0.964632	4.64E-29	116.13	TQTGDSSSVS(0.033)S(0.965)FS(0.1	2	-1.0492	22503.5	23950.0
Fam120a	0.990004	9.81E-25	99.413	NLTEQNS(0.99)Y(0.001)S(0.009)N	3	-0.10823	21122.4	19746.7
Abi2	0.999999	1.42E-21	143.94	NMAPSQQS(1)PVR	2	-0.94311	29548.6	27583.0
Cacna1a	0.933701	1.80E-25	70.452	LATGEPASPHDS(0.003)LGHS(0.934	4	0.041091	14395.6	15137.4
Lama4	0.753677	8.65E-30	115.58	VFLT(0.001)VPS(0.003)LS(0.04)S(0	2	-1.5282	6951.4	7746.1
Nup153	0.865834	0.00749983	58.338	QT(0.005)GIGT(0.866)PS(0.13)K	2	-1.2414	22835.0	23067.0
Arhgap27	0.837025	3.42E-13	75.548	S(0.162)DS(0.837)ENVY(0.001)EAI	3	0.025855	8690.8	9154.6
Numb	0.534667	7.52E-18	97.765	T(0.007)NPS(0.535)PT(0.458)NPF	3	-0.41963	47270.7	50720.2
Dync1h1	0.700073	8.91E-11	57.414	T(0.002)DS(0.136)T(0.7)S(0.162)D	2	0.27468	8197.5	7913.9
Tgm2	0.993591	0.0136229	43.897	Y(0.006)PEGS(0.994)PEER	2	-0.20502	3473.9	4793.8
Map1a	1	0.000175937	66.663	RS(1)PT(1)PGKGPVDR	3	0.16734	180023.0	192113.7
Ythdc1	0.682433	0.000722214	68.371	LS(0.009)S(0.303)S(0.682)S(0.006)	2	1.3867	9969.5	10179.2
Crtc2	0.682433	0.0222921	68.371	LS(0.009)S(0.303)S(0.682)S(0.006)	2	1.3867	9969.5	10179.2
Dennd1a	0.989657	4.57E-10	63.125	KT(0.99)PELGIVPPPPT(0.01)AR	3	1.6451	11792.0	13549.1
Hnrnp1	1	0.0781985	48.091	MGS(1)GIER	2	-0.75522	13304.3	13168.5
Zc3h13	0.548776	0.000327761	52.576	VLHS(0.549)GS(0.451)RDREK	4	1.4666	6492.9	6077.3
Hcn2	0.960186	2.51E-15	55.177	AS(0.003)RPLS(0.037)AS(0.547)QF	4	0.059101	3196.4	4364.3
Pram1	0.698052	0.0105322	49.988	T(0.013)S(0.255)S(0.698)EPEFS(0.1	2	-2.1995	8469.6	8511.0
Trim36	0.959758	0.00156923	45.433	LT(0.006)S(0.034)PS(0.96)MDKIDK	3	1.0369	29328.0	27691.6
Rbm15b	0.999556	2.97E-07	55.094	DRT(1)PPHLLYSDRDR	4	0.51853	4620.6	5468.3
Arid1a	0.740125	1.40E-15	57.144	FPPPQELS(0.74)QDS(0.108)FGS(0.	4	1.758	8068.1	6320.6
Cd2ap	0.597938	0.021973	48.423	S(0.342)PGT(0.598)MY(0.06)PK	3	0.77991	11179.6	11746.9
R3hdm2	0.826074	0.00615834	69.721	GDS(0.826)IGS(0.149)S(0.025)K	2	-0.50792	24859.0	25163.2
Tom1	0.979542	0.00253063	70.399	GS(0.02)S(0.98)LADQR	2	0.49939	68904.7	65392.6
Osbpl8	1	0.00915415	55.314	KES(1)LKVQK	3	0.16327	19097.2	19723.6
Rufy3	0.812041	5.10E-102	138.34	T(0.093)PPS(0.093)PGS(0.812)PLP	4	1.2876	13356.8	14625.2
Fam53c	0.993542	3.59E-17	97.083	RFS(0.999)LS(0.994)PS(0.007)LGP	3	-0.17953	5493.8	5729.7
Zdhhc5	0.99316	1.75E-18	69.639	LS(0.004)RGDS(0.993)LKEPT(0.001	3	-0.80589	30098.5	32043.1
Mycbp2	0.966652	0.025596	46.129	S(0.012)S(0.022)S(0.967)PKPK	3	0.042275	16779.8	16099.4
Tnks1bp1	1	2.31E-94	173.14	RFS(1)EGVLRPPSQDQEK	5	-0.33638	146759.2	151736.2
Snx17	0.999376	2.80E-14	107.75	S(0.001)PPLLES(0.999)PDASR	2	-0.30162	25020.0	26927.1
Necap2	0.977417	2.94E-36	103.25	T(0.022)RPAS(0.977)AGGLSLLPPPI	5	-0.89011	72346.7	68526.5

11769.6	12762.8	14107.2	12166.0	0.1	0.1	392
65618.1	73744.6	72453.0	70104.0	0.1	0.0	36
21677.2	24960.3	26025.8	23651.0	0.1	0.1	665
20093.0	21854.0	22504.6	22426.0	0.1	0.0	415
29093.5	31015.6	32116.0	31330.0	0.1	0.0	151
15193.5	15985.7	18092.1	14922.0	0.1	0.2	942
8251.5	8715.3	7714.1	8713.1	0.1	0.2	949
22270.2	26472.7	23745.3	24472.0	0.1	0.1	699
8885.2	10277.9	9576.5	9432.1	0.1	0.0	197
51686.2	54193.9	54635.5	55162.0	0.1	0.0	575
8370.9	8430.0	9935.1	8458.9	0.1	0.2	4367
4400.3	3859.5	5010.1	5010.2	0.1	0.5	449
161048.4	191294.0	221134.5	171770.0	0.1	0.4	2840
10012.9	10839.9	11110.7	11098.0	0.1	0.0	120
10012.9	10839.9	11110.7	11098.0	0.1	0.0	215
13875.5	14811.0	13583.5	14576.0	0.1	0.2	708;758
13074.9	15490.7	14886.2	12960.0	0.1	0.2	332
5696.0	6454.8	7794.0	5768.1	0.1	0.4	1293
3895.0	4337.3	3943.7	4272.6	0.1	0.4	807
7950.1	8981.2	9871.9	8468.6	0.1	0.1	376
32326.8	34366.0	33168.6	30382.0	0.1	0.2	77
5520.1	5168.6	6144.0	5793.7	0.1	0.3	529
7785.7	9224.6	7996.1	7081.2	0.1	0.4	601
10953.0	11826.8	12803.4	12500.0	0.1	0.0	407
23003.7	27882.9	24422.8	27731.0	0.1	0.2	375
72821.5	75086.5	81679.7	70254.0	0.1	0.2	376
16889.5	19974.2	23534.7	17556.0	0.1	0.4	106
15241.4	16440.0	15444.0	15494.0	0.1	0.1	89
5479.1	5218.5	6875.8	6214.1	0.1	0.3	197
31173.8	36162.3	37373.7	28751.0	0.1	0.3	380
16027.1	17792.9	18625.4	17192.0	0.1	0.0	2896
153159.4	162442.0	171549.4	161130.0	0.1	0.0	423
24807.2	29591.1	28428.1	26124.0	0.1	0.1	421
69105.9	78637.2	79443.0	72118.0	0.1	0.1	159

Slc4a2	1	0.00180933	54.276	EGREPGPT(1)PR	3	0.64242	7422.2	7116.7
Sorbs3	0.999426	0.00044676	96.367	GS(0.001)S(0.999)PARK	2	0.70812	92509.0	98828.7
Zc3h3	0.997757	0.00085989	47.774	T(0.001)EAPAS(0.998)PPPS(0.001)	2	0.84051	2077.9	2060.4
Pum2	0.697118	5.47E-13	100.23	RES(0.697)LS(0.298)T(0.005)SSDL\	3	1.3959	27680.9	26657.2
Epb41l3	0.989155	1.42E-22	76.78	QS(0.001)S(0.009)GEKLMGDS(0.9	3	0.7884	20578.5	17668.0
Svil	0.999754	1.39E-05	52.814	KFS(1)LKEFGETASEK	3	0.3392	20351.9	20469.5
Tnks1bp1	0.925027	0.0721751	49.527	ALS(0.075)S(0.925)QER	2	-0.28034	22074.1	19847.6
Stim2	0.999999	5.74E-60	163.18	KIS(1)RDELSLEDSSR	3	0.97095	45834.7	42379.3
Palmd	0.999381	4.55E-07	78.69	T(0.015)ELS(0.722)PS(0.264)RAS(C	3	0.50196	104342.8	96729.2
Mst1r	0.656298	4.60E-06	74.789	T(0.656)DS(0.344)IRLQDLDK	3	0.64153	40156.3	41207.8
RGD15633	1	2.78E-07	85.28	RDS(1)AGLPGGGLR	3	-0.088517	3755.0	3553.3
Ddhd2	0.918944	1.78E-09	58.964	SSVGINRPT(0.009)MS(0.072)AS(0.	4	-0.099431	3380.5	4043.0
Atp2b4	1	0.000631821	55.261	QNLS(1)QQLDVK	3	-0.67031	8935.0	8551.7
Ankrd55	0.941525	1.03E-11	101.43	S(0.058)RS(0.942)EQDLLNRR	2	0.35902	9275.6	10898.3
Gpatch11	1	0.0215525	49.3	S(1)LKEEER	3	1.0527	11796.7	11583.4
Hcn1	0.604545	1.26E-46	104.55	EVRPLS(0.007)AS(0.605)QPS(0.38	4	-0.62004	9051.6	10519.3
Eif2ak3	1	1.48E-07	85.473	EQIEVIAPS(1)PER	3	0.015486	5282.0	5308.8
Gigyf1	0.95128	1.10E-30	84.946	ALS(0.001)S(0.004)GGG(0.029)VA	4	-0.19194	10630.8	9959.3
Brf1	0.871116	2.27E-33	94.389	GGGS(0.871)PPRDDS(0.129)QPPE	4	-1.2018	23050.9	22838.9
Dnm1	1	2.71E-07	70.889	APAVPPARPGS(1)R	3	0.55978	52452.9	54060.4
Akap12	0.827391	5.80E-57	137.64	EMCVSGGDHTQLT(0.172)DLS(0.8	4	-0.21942	87089.5	87104.9
Fam102a	0.952706	2.22E-38	86.946	GGGTSSGGSSS(0.002)T(0.018)NS(	3	0.024575	12215.4	10843.9
Dnm1l	1	1.80E-06	55.094	HLS(1)KGVEAEEWGK	4	-0.33225	8931.9	7298.4
Phyhipl	0.971684	7.12E-84	121.1	LDHALS(0.001)S(0.001)PS(0.026)S	3	-0.30206	197758.2	181506.5
Zswim8	0.632005	1.06E-53	97.295	HTGMAS(0.001)IDS(0.005)S(0.005	4	0.20019	10375.4	10416.3
Foxc2	0.5	3.60E-29	117.8	T(0.5)S(0.5)PPGGDLSPAAAR	3	0.18951	5229.8	5429.8
Ldb1	0.841843	2.17E-58	118.9	KMS(0.842)GGG(0.078)T(0.078)M	4	-0.32002	33601.4	31764.5
Mink1	0.863597	1.50E-09	92.906	LDS(0.132)S(0.864)PVLS(0.005)PG	3	-0.17236	37633.8	37752.5
Nefm	1	1.67E-08	94.547	VEEHEET(1)FEEK	3	1.4339	11181.7	10332.8
Epb41l3	0.936331	0.00661198	41.48	GGIS(0.936)ET(0.064)RIEK	3	0.4011	18125.1	18456.7
Etl4	0.96588	4.06E-14	118.16	S(0.014)IS(0.966)PS(0.019)PS(0.0	2	2.7114	37904.5	37261.1
Clcn3	0.94704	1.14E-14	69.088	VCFAQHT(0.023)PS(0.03)LPAES(0.	4	-0.053194	8597.9	9449.6
Ahnak	0.787011	0.0108221	76.228	FNFS(0.787)GS(0.213)K	2	0.39396	11663.0	9445.4
Acin1	0.539344	1.68E-13	105.53	KPS(0.302)IS(0.539)IT(0.143)T(0.0	3	-0.67599	13721.8	11955.3

7248.4	7659.2	8681.9	7544.3	0.1	0.1	306
80385.8	94258.8	120575.1	83060.0	0.1	0.5	383
2226.5	2209.4	2434.3	2334.2	0.1	0.1	852
26889.7	29786.9	31234.3	28032.0	0.1	0.1	588
17996.7	20068.8	22597.5	18997.0	0.1	0.3	812;794;1131
20707.3	22000.3	24585.2	20873.0	0.1	0.1	975;607
21274.7	22866.0	23804.0	22618.0	0.1	0.1	959
46627.1	50624.5	49950.6	47264.0	0.1	0.1	623
103500.2	110831.9	115210.5	107890.0	0.1	0.0	376
37331.7	44879.5	45060.4	40198.0	0.1	0.1	1026
3551.2	4010.1	3692.0	4204.8	0.1	0.1	527
3094.0	3990.9	4218.7	3322.7	0.1	0.4	362
8536.2	8800.3	9868.5	9864.8	0.1	0.1	1114
9849.7	10413.3	9916.3	12591.0	0.1	0.4	446
12822.5	13946.4	13505.5	12245.0	0.1	0.1	50
11669.5	11709.1	11489.0	11058.0	0.1	0.3	810
5173.9	6517.5	5648.0	5121.4	0.1	0.3	561
11008.4	10840.3	12691.2	11119.0	0.1	0.2	24
20514.6	23932.9	27624.4	21261.0	0.1	0.3	348
50870.7	58444.2	56979.0	57169.0	0.1	0.0	795
91046.1	98077.9	100591.4	92204.0	0.1	0.0	469
11832.4	13801.2	13117.6	11346.0	0.1	0.3	190
6335.6	8140.7	9270.8	7336.5	0.1	0.5	95
197895.7	211280.3	216208.0	205530.0	0.1	0.0	15
9907.8	11213.0	12004.1	10454.0	0.1	0.1	1150
5609.3	6139.2	6143.6	5560.9	0.1	0.1	280
32151.1	36002.8	34625.1	36329.0	0.1	0.0	266
37955.6	41503.7	43847.5	38965.0	0.1	0.1	756
11979.4	12163.4	12020.1	12555.0	0.1	0.1	818
17709.3	18015.1	24049.8	17487.0	0.1	0.5	;871;770;969;1031;1368;814
37516.9	41854.6	43010.8	38739.0	0.1	0.0	211
8915.3	9204.4	10887.3	9484.5	0.1	0.2	718
9305.3	10968.1	10951.5	11442.0	0.1	0.3	2760
13564.6	13863.9	14942.8	14239.0	0.1	0.1	760;866;865



Macf1	0.997214	7.60E-34	99.838	S(0.997)LNQPT(0.003)PPMPILSQ	4	-0.60371	18283.8	16273.8
Eepd1	0.814933	1.17E-22	89.502	KFS(0.185)AACNFS(0.815)NILVNQ	4	2.774	3004.5	3321.9
Eps8	0.757214	8.36E-15	78.244	QNS(0.757)S(0.216)S(0.026)SESGC	3	0.73204	4517.2	4160.6
Madd	1	0.00201921	68.657	LLRPNS(1)LK	3	0.92368	10678.1	9535.5
LOC100361	0.566229	1.14E-07	54.511	GAT(0.566)ADDS(0.331)GGGS(0.1	3	0.76108	8816.6	9980.4
Frmd4a	0.911147	3.00E-12	67.057	S(0.085)LS(0.911)EIAIDLT(0.004)E	3	-1.348	14378.9	16314.4
Rai1	0.999382	6.37E-71	101.66	AGWAS(0.999)PCHLS(0.001)GEP	5	1.8855	5558.8	6270.8
Ptpn13	0.998323	7.52E-05	51.939	SVAS(0.002)LNRS(0.998)PERR	4	-1.4908	6113.0	6224.0
LOC10369	0.986691	6.28E-53	94.802	DS(0.001)S(0.004)APPRS(0.987)PC	4	0.17481	21263.1	23922.6
Foxj3	0.86	1.32E-05	51.786	VTLY(0.001)NT(0.004)DQDGS(0.1	3	0.65866	26141.1	26170.2
Ctnnd1	1	1.33E-17	134.61	GSLAS(1)LDS(1)LRK	3	0.050632	294890.0	261603.2
Dock1	0.999269	7.03E-06	83.751	S(0.999)QVINVIGS(0.001)ER	2	0.70525	23906.1	22152.2
Plekha4	1	3.35E-121	206.19	ALSSSQSGVGS(1)PR	2	0.044671	276105.3	302068.4
Phf14	1	2.92E-07	71.354	S(1)FVPEEEKHEER	3	0.029498	26860.3	30720.2
Ralgapa1	0.987625	7.54E-26	108.64	QRS(0.988)AT(0.013)T(0.001)T(0.0	3	0.76168	42684.8	46462.0
Tfg	0.711979	2.65E-10	49.266	LLDS(0.003)LEPPGEPGPS(0.712)T(	3	-0.3624	7657.7	7873.0
Gls	0.662538	1.09E-15	58.087	ILQEYQVQY(0.069)T(0.258)PQGD	4	0.30007	6710.3	8434.4
Rem1	0.80918	0.00332171	45.28	S(0.191)KS(0.809)CHNLAVL	3	-0.26432	7115.5	7608.4
Arhgap23	0.729293	0.0107847	78.61	RPLS(0.271)PET(0.729)R	2	0.28717	11603.6	10985.6
Plekha6	0.986154	0.00568607	71.425	RSIS(0.986)S(0.014)PK	3	0.75591	5281.8	5507.6
Scg2	0.875758	8.43E-24	132.4	EHLGQGS(0.124)S(0.876)QEMEK	2	-1.397	49982.8	54823.8
Prrt3	1	0.0024085	97.472	S(1)IDAALFR	2	0.080659	6030.2	6703.8
Mff	0.893398	3.41E-07	66.708	NDS(0.091)JVT(0.893)PS(0.016)PP	3	0.85135	22417.6	20667.0
Cdkn1b	0.989608	6.70E-58	105.06	ANRTEENVSDGS(0.01)PNAGT(0.9	4	0.59962	9416.4	9860.4
Mpz	0.615742	6.44E-17	106.93	KDEQS(0.384)S(0.616)ELRPAVK	4	0.20308	61353.8	56396.8
Dpysl5	0.840876	3.29E-46	103.84	DLHES(0.136)S(0.841)FS(0.023)LS	4	0.2515	71683.6	73192.7
Camk4	0.535732	3.01E-43	135.08	LGS(0.016)AS(0.136)S(0.536)S(0.1	3	-0.87266	49496.2	54250.1
Fry	0.77379	5.65E-05	44.341	S(0.212)AT(0.774)LDRIQACT(0.01	3	-0.42854	16028.4	17630.7
Hnrnpm	1	0.0593264	52.591	MGS(1)GVER	2	-0.47561	19447.8	19157.6
Zbtb49	0.978204	2.60E-07	53.998	AGVPES(0.978)PEHLAS(0.02)T(0.0	3	-0.046929	4257.3	4399.4
Def6	0.9085	1.42E-08	119.88	T(0.026)LS(0.908)ANS(0.053)S(0.0	2	-0.87587	14062.9	13054.4
Mpz	0.947565	2.94E-18	125.97	S(0.006)PS(0.994)RT(0.948)S(0.05	2	-0.57181	1148645.7	1061978.1
Ino80b	0.926508	1.75E-06	55.258	LGGPEPGGS(0.073)PLLAT(0.927)	2	1.2679	9180.8	8629.4
Srgap3	0.650253	1.86E-29	82.517	S(0.002)GGDT(0.65)HS(0.347)PPR	3	-0.46551	20219.5	20740.5

17020.4	18766.4	19415.1	18402.0	0.1	0.1	6920;6974
3500.8	3391.0	3748.8	3641.5	0.1	0.2	31
3795.7	4491.2	5383.4	3810.4	0.1	0.5	659
10505.4	11735.5	11504.0	10464.0	0.1	0.1	812
9044.8	9530.3	10335.8	10681.0	0.1	0.1	492
16367.8	16238.7	18261.0	17135.0	0.1	0.2	368
5879.0	6290.3	7137.4	6002.1	0.1	0.2	898
6496.2	7101.3	7115.0	6447.3	0.1	0.1	1025
22166.9	22483.2	26509.8	24906.0	0.1	0.2	109
24865.8	28129.3	29614.3	26935.0	0.1	0.0	202
272559.0	305997.8	309810.6	293860.0	0.1	0.1	352
22945.2	27852.1	27392.5	20471.0	0.1	0.4	1743
322054.2	311728.6	350557.9	325530.0	0.1	0.2	562;490;562
30548.8	33394.8	29337.5	33973.0	0.1	0.2	827
38321.8	47740.5	44991.0	47150.0	0.1	0.2	733
7865.1	8391.0	8444.9	8839.2	0.1	0.0	132
6848.8	7957.2	8614.8	7564.6	0.1	0.3	657
7199.7	8240.8	8423.5	7396.0	0.1	0.1	290
9346.3	11929.1	11872.6	11247.0	0.1	0.2	1179
4699.0	5770.3	6525.0	4703.0	0.1	0.4	634
48450.8	66715.9	51727.7	49755.0	0.1	0.4	518
6905.3	6793.1	8228.8	6532.1	0.1	0.3	811
23462.6	25632.4	25004.1	22400.0	0.1	0.2	149
8807.6	9996.9	13129.4	7698.0	0.1	0.6	183
66781.8	62902.3	69835.9	69798.0	0.1	0.2	284
66763.7	80552.2	77584.6	74153.0	0.1	0.1	532
46500.4	58481.6	53261.2	53175.0	0.1	0.2	340
13975.6	17563.1	19557.3	15166.0	0.1	0.4	2001
18876.1	22801.1	20027.5	20269.0	0.1	0.1	393
5054.9	4627.4	5789.1	4635.0	0.1	0.4	264
14390.8	15857.0	15406.6	14302.0	0.1	0.1	597
1111060.4	1235694.7	1385069.3	1025700.0	0.1	0.4	296
9837.1	10111.9	10638.7	9600.7	0.1	0.1	358
20041.9	22174.1	22873.3	21922.0	0.1	0.0	848

Larp1	0.989466	0.0023453	72.922	T(0.505)PRT(0.505)PRT(0.989)PQL	4	-0.095577	46768.5	49263.5
Thoc2	0.64794	2.08E-05	50.376	KIDT(0.005)HPS(0.125)PS(0.648)H	5	0.7077	22020.4	23841.4
Trio	1	0.0191741	52.482	VMES(1)PRK	3	-0.51746	8214.7	7261.2
Ahnak	0.823675	1.84E-42	93.876	GGVT(0.004)GS(0.081)PEAS(0.824	2	-0.95097	114638.0	117863.5
Map2	0.575133	2.03E-22	129.38	S(0.575)S(0.425)LPRPSSILPPR	3	0.13735	38125.2	37477.2
Lysmd2	0.558968	7.46E-55	134.56	S(0.158)RS(0.559)T(0.261)S(0.021	3	0.88307	7691.4	7146.2
Rab11fip5	0.998712	0.00249569	49.28	DKPRS(0.999)PFS(0.001)K	3	-1.1263	94531.8	90316.7
Kazn	0.739201	3.36E-15	77.776	T(0.007)HS(0.254)LCNGDS(0.739)I	3	0.25816	38415.0	39822.4
Limch1	0.869814	3.23E-53	93.876	MPETDQLHLPLNLS(0.093)QADS(C	4	-1.0659	8326.2	6604.9
Lpcat2	1	1.31E-30	89.015	QAS(1)FFPPPVPNPFVQQTR	3	-0.95726	76065.5	79055.7
Enah	0.996529	1.36E-85	105.51	RMS(0.997)NAAPS(0.003)S(0.001)	5	-0.46691	39407.3	36556.9
Peak1	0.7971	0.000542196	64.476	FS(0.006)NS(0.195)MES(0.797)LS(	2	-1.0978	27593.8	25120.4
Lphn3	0.499999	1.53E-38	85.185	GS(0.5)S(0.5)DGFIVPPNKDGASPEC	4	0.27795	7857.0	7262.7
Lphn3	0.499999	1.53E-38	85.185	GS(0.5)S(0.5)DGFIVPPNKDGASPEC	4	0.27795	7857.0	7262.7
Hivep2	0.57299	1.19E-58	97.387	S(0.156)KS(0.573)FDY(0.003)GNLS	4	0.025267	12436.1	13905.6
Zc3h4	0.999971	2.34E-71	113.05	T(0.645)GT(0.078)GS(0.277)PFAGI	2	-0.19705	125076.3	121143.3
Ppp1r1b	0.956256	1.48E-13	62.225	ATQSEPGEPRHPT(0.956)PPES(0.(	3	0.014556	12740.2	13097.2
Dlg5	0.821276	0.00211698	83.438	LS(0.821)LDLS(0.179)HR	2	-0.2261	5771.0	6926.1
Zfp280d	0.784583	5.61E-09	75.316	RPS(0.202)GS(0.785)DIS(0.012)S(C	3	-0.12746	10932.0	12518.0
Lpin1	0.82173	9.79E-05	49.595	S(0.178)DT(0.822)LGHILPTLGK	3	1.348	6312.4	5654.0
Ndrg1	0.726323	0.00121126	109.44	SHT(0.273)S(0.726)EDAR	2	0.70585	3996.1	3861.5
Tjp1	0.999923	4.57E-34	146.86	S(1)REDLSAQPVQTK	3	-0.71238	172306.4	168387.4
Mcm2	0.992362	2.17E-14	126.65	ISDPLTS(0.007)S(0.992)PGR	2	0.023606	35999.8	29270.1
Gab1	0.558874	1.23E-06	71.879	S(0.008)NT(0.356)IS(0.559)T(0.07'	3	1.7122	10450.9	7501.8
Smap2	0.985397	4.78E-48	87.052	KAVGSMPTAGS(0.014)AGS(0.985)	4	-0.19841	49768.1	45984.9
Usp20	0.961114	5.00E-12	63.398	S(0.212)S(0.213)S(0.591)RPCS(0.9	4	0.54798	19048.3	17104.2
Coro7	0.972721	0.000237673	55.724	S(0.006)LQS(0.973)LLGPS(0.017)S	3	0.34136	2726.3	2327.7
Akap12	1	3.61E-85	122.81	GLAS(1)PDR	2	1.3355	47797.8	53622.7
Atxn2	0.999998	1.14E-27	147.52	GVS(1)PVISEHRK	3	0.65231	13614.4	14574.7
Scaf4	0.86661	2.02E-26	65.152	GEAMAT(0.001)VVKPEES(0.867)P,	5	-0.22706	22150.4	23437.8
Tjp1	0.779598	1.90E-58	104.83	AHS(0.78)S(0.178)T(0.042)QPPEFI	5	0.24425	27102.4	30020.4
Dtd1	0.783305	9.48E-33	112.16	SASSGAEGDVS(0.783)S(0.217)ERE	2	0.6057	55581.2	57299.5
Pacrgl	0.922762	1.20E-06	82.515	S(0.002)SS(0.003)LT(0.026)S(0.04	2	0.04324	8561.5	8164.3
Phf3	1	0.0291243	52.579	S(1)PQFINLK	2	0.31861	7160.8	6774.0

45379.3	49430.0	58742.3	47076.0	0.1	0.3	657
24781.7	27402.2	26117.7	24037.0	0.1	0.1	1419
7718.1	8729.4	9009.6	7725.0	0.1	0.2	2381
114715.2	127331.3	136839.9	117050.0	0.1	0.1	5423
34834.0	40708.4	43675.5	36871.0	0.1	0.2	1627;1541
7919.3	8798.4	9130.2	7058.3	0.1	0.3	164
83749.0	101426.2	104303.9	89193.0	0.1	0.2	188;188
39549.3	43869.7	43971.5	41491.0	0.1	0.0	346
8373.5	8794.9	7766.6	9027.7	0.1	0.3	593
83692.6	93748.5	86329.3	82152.0	0.1	0.1	34
34776.5	42351.7	40297.5	38950.0	0.1	0.1	238
29177.6	31379.7	29588.6	28954.0	0.1	0.1	1240
7334.2	8387.0	9280.0	6989.7	0.1	0.3	1430
7334.2	8387.0	9280.0	6989.7	0.1	0.3	1431
13773.3	15067.2	15284.8	13700.0	0.1	0.1	1047
128630.0	138847.9	145634.8	127170.0	0.1	0.1	1194
14799.6	14305.0	16026.5	14300.0	0.1	0.2	199
7071.1	7206.7	7171.3	7335.0	0.1	0.2	1126
10667.7	12960.8	12176.1	12340.0	0.1	0.1	181
5007.5	6265.6	6236.8	6144.1	0.1	0.2	722
4911.8	4568.7	5109.4	4350.1	0.1	0.4	367
176815.7	189072.1	199216.6	180240.0	0.1	0.0	763
35812.4	38211.5	35819.9	37020.0	0.1	0.2	28
8044.1	10078.1	9981.1	8502.1	0.1	0.5	389
51881.1	54638.3	55301.3	52261.0	0.1	0.1	239
16660.6	19781.7	19840.4	18403.0	0.1	0.1	377
1854.2	2280.0	2725.6	2584.8	0.1	0.5	462
51460.5	55893.4	57541.1	54547.0	0.1	0.1	1571
13992.6	15268.5	16628.1	14452.0	0.1	0.1	555
24625.2	25896.4	25070.4	26184.0	0.1	0.0	1178
33179.6	31618.3	34730.9	32876.0	0.1	0.2	1722
55302.8	61581.2	65252.5	57970.0	0.1	0.1	204
8573.1	9350.0	9885.7	8563.4	0.1	0.1	46
6953.7	8173.9	7552.6	7226.3	0.1	0.1	1537

Dennd4a	0.926611	5.53E-05	46.892	LWS(0.001)S(0.005)PAFS(0.927)P1	3	0.39662	1481.0	1612.6
Palm	0.999987	1.80E-33	96.708	SETMVNAQQT(1)PLGT(1)PK	3	-0.73161	140092.1	146844.0
Cdk13	0.781521	2.27E-07	81.346	S(0.007)QNS(0.782)S(0.198)S(0.01	2	0.492	12816.5	11319.1
Fnip1	1	1.80E-09	122.46	RAFS(1)EQGPLR	3	-0.82763	4599.3	4860.9
Ank2	0.998355	6.15E-11	67.418	AERHS(0.998)PVFS(0.002)GKPEK	4	0.83122	24113.6	24895.6
Map2	0.99911	0.00323089	80.219	IS(0.001)T(0.999)PERK	2	-1.1408	113287.9	111051.7
Myo9a	1	0.00566615	83.998	S(1)LEILQR	2	-0.019958	29070.4	29511.4
Tanc1	0.528816	1.17E-17	98.676	GVS(0.001)MS(0.4)LPS(0.07)S(0.5:	3	-0.37189	1729.1	1172.9
Vim	0.774497	0.00129149	109.83	SVSS(0.002)S(0.774)S(0.223)YR	2	0.14953	13781.4	9673.6
Rab11fip2	0.916959	8.10E-07	72.325	T(0.077)LS(0.917)FDT(0.004)S(0.0	3	1.0727	5168.7	3772.1
Slc30a1	0.938854	1.72E-15	63.488	APT(0.004)VS(0.051)IS(0.939)CLEI	3	0.36022	11421.2	9632.6
Myo9b	0.993813	2.43E-28	105.99	LASAMLS(0.006)QS(0.994)LDLSEK	4	0.094719	31281.6	30724.6
Als2	0.938217	2.70E-31	88.239	T(0.009)VVLT(0.938)PT(0.05)Y(0.0	3	-1.8786	11698.9	12893.1
Mecp2	0.813784	2.37E-58	119.16	AETS(0.002)ES(0.041)S(0.814)GS((	3	-0.2343	7801.0	8084.4
Appl1	0.764666	6.43E-32	94.671	VNQS(0.001)ALEAVT(0.765)PS(0.2	3	0.66933	19561.1	18709.0
Camsap2	0.986989	2.63E-21	141.99	S(0.013)VS(0.987)NEGLNNSR	2	-0.32973	28093.6	25878.4
Ptdss2	0.850078	2.88E-15	80.361	VAGGS(0.85)GS(0.212)ES(0.938)P	2	-1.7261	15414.2	15661.7
Rbm14	0.999994	9.33E-52	174.72	RLS(1)ESQLSFR	3	0.73151	18044.0	15902.0
Tanc2	0.952432	3.26E-28	83.948	YQQEANVS(0.952)QLPGRPKS(0.04	5	-0.89472	23600.7	21751.8
Palm	0.999982	1.49E-32	114.31	SETMVNAQQT(1)PLGT(1)PK	3	-0.73161	412154.2	423705.3
Marcks1	1	5.68E-05	70.438	GEVAPKET(1)PK	3	1.0622	199296.7	198212.5
Camlg	0.999996	6.86E-36	102.59	IMGFHRPGS(1)GAEEENQTK	3	-0.20317	79880.9	82353.1
Dtx3	0.998443	0.00139395	42.242	CRHS(0.998)FCEGCIT(0.002)R	3	1.2811	4861.8	5786.1
Calca	0.950397	1.04E-71	154.34	STLESS(0.001)PGMAT(0.049)LS(0.!	3	1.0022	82631.2	102272.0
Tns1	1	0.000543969	90.919	RMS(1)VGDR	1	-0.2651	28296.3	25561.4
Dbn1	0.996146	4.11E-92	127.16	EGTQASEGYFS(0.003)QS(0.996)QE	4	-2.5767	87537.9	96179.7
Baiap2	0.999997	9.85E-21	115.73	NSYATTENKT(1)LPR	3	-0.73212	39833.1	34208.4
Tle3	0.986594	4.60E-12	70.094	NDAPT(0.987)PGT(0.009)S(0.003)	2	1.208	7924.4	6839.6
Tcf20	1	0.0495949	55.461	IEEFS(1)PR	2	0.89459	4598.0	5290.9
Prrc2a	0.9931	0.00729488	81.163	AS(0.006)S(0.993)LLS(0.001)R	2	0.36834	12343.0	14085.5
Pom121	0.99989	4.55E-05	71.085	GLSSFVRES(1)R	3	0.53889	4027.7	4998.3
Cpeb2	1	6.88E-52	111.65	RS(1)PVS(1)PQLQQQHAAAAAFL(	4	-0.11873	37252.2	41139.8
Rnf219	0.911713	0.000335991	45.28	IQS(0.001)S(0.001)LS(0.019)NAS(C	3	0.15191	6126.9	6337.2
Lsr	0.992955	0.00131427	56.527	NLALS(0.993)RES(0.007)LVV	2	1.0258	19128.2	18695.8

1720.8	1775.6	1735.8	1778.9	0.1	0.1	1287
147069.6	157360.2	170320.5	149240.0	0.1	0.1	145
11070.1	12578.0	13317.4	12792.0	0.1	0.1	1073
4333.8	5133.4	5422.2	4602.8	0.1	0.2	220
24348.4	28467.0	27156.4	24994.0	0.1	0.1	1854
94633.9	141586.8	111277.9	97695.0	0.1	0.5	1528;1442
28008.6	32207.9	32205.7	30763.0	0.1	0.0	755
1205.9	1488.8	1812.8	1214.1	0.1	0.6	64
10431.9	11690.4	15004.8	10557.0	0.1	0.6	9
4919.1	5425.3	5186.9	4625.3	0.1	0.4	277
9804.6	12047.9	11750.8	10127.0	0.1	0.3	467
30137.9	36106.2	34372.9	30826.0	0.1	0.1	1304
11661.0	12754.0	13436.1	13669.0	0.1	0.1	504
7107.3	11009.5	6653.7	7618.3	0.1	0.6	68
19672.5	21228.1	22163.7	20321.0	0.1	0.0	399
27537.0	30708.7	29966.9	28956.0	0.1	0.0	439
16507.3	16961.4	17143.2	18224.0	0.1	0.0	12
16815.0	19368.1	18530.3	17926.0	0.1	0.1	618
24831.7	26656.4	28712.3	21821.0	0.1	0.4	1647
442145.8	496576.8	462530.4	446500.0	0.1	0.1	141
194510.1	246842.0	207071.1	197230.0	0.1	0.3	85
80357.0	90697.2	86482.1	89639.0	0.1	0.0	53
5509.5	6185.4	6009.8	5576.3	0.1	0.2	183
90060.2	122139.5	85810.0	94493.0	0.1	0.5	42
25813.3	29616.4	29940.2	28079.0	0.1	0.1	1545
97234.8	96469.8	101810.8	110760.0	0.1	0.1	658;608
41732.9	41765.5	40539.0	45060.0	0.1	0.2	361
8289.2	8747.0	9543.2	7071.7	0.1	0.4	327
4952.0	5311.7	6149.1	4867.4	0.1	0.3	31
12415.9	14167.5	14830.6	13740.0	0.1	0.1	160
3796.3	4738.0	5098.9	4270.7	0.1	0.4	88
39293.8	41643.4	45939.9	41906.0	0.1	0.1	241
5797.6	6775.8	6651.3	6666.5	0.1	0.0	717
18171.3	21148.9	23283.6	17181.0	0.1	0.4	519



Larp1	0.776517	0.000852243	41.695	KFDGT(0.06)EGS(0.777)RT(0.163)I	4	2.1592	38621.3	36335.3
Ehbp1l1	0.952456	0.00105544	43.592	IS(0.048)GT(0.952)PERAPGVCK	3	0.18839	9607.7	11551.6
Mapk8ip3	0.500576	3.08E-32	70.57	SNT(0.001)PT(0.001)S(0.003)S(0.0	3	0.4277	5009.6	4386.7
Plekha4	0.611795	0.00176199	50.592	VS(0.375)RAS(0.612)S(0.013)PECF	3	-1.2564	6449.9	7304.7
Adcy9	0.741624	0.00114818	79.659	QLS(0.026)S(0.232)NT(0.742)HPK	2	-0.35286	11449.5	12160.4
Kif13b	0.946617	5.73E-08	59.372	QLES(0.011)LGIS(0.947)LQT(0.034	3	0.48165	3862.5	3605.0
Taok1	0.945213	0.0270042	69.432	T(0.002)AS(0.053)LVT(0.945)R	2	0.45773	20616.7	18214.3
Usp32	0.638308	1.79E-11	58.349	SPSSLS(0.004)ANIT(0.31)S(0.33)S(	4	0.77993	7509.3	7832.7
Mprip	0.688097	1.80E-38	88.976	DFASET(0.002)PT(0.054)APLS(0.68	3	1.257	8012.1	8539.6
Epb4l13	1	0.00066645	107.45	APEVQT(1)PKR	2	-0.89256	286887.1	262974.4
Stmn1	1	2.35E-34	150.01	RAS(1)GQAFELILS(1)PR	3	0.73435	101433.8	91775.6
Camkk1	0.557676	0.0103919	42.317	AAS(0.558)VIPGS(0.221)AS(0.221)	2	-2.4064	19725.7	21276.9
Nab2	0.521639	4.12E-05	65.219	APS(0.478)PT(0.522)AEQPPGR	2	0.4471	4489.7	4276.0
Gpr158	0.899258	1.17E-08	132.32	S(0.899)LS(0.098)VIAS(0.003)AK	2	0.72232	32708.0	26808.6
Ccdc132	0.689826	0.00810414	47.603	KKS(0.143)DY(0.69)S(0.167)LNK	3	-0.4278	29465.1	23498.1
Med1	0.780372	0.00220181	65.842	S(0.216)RT(0.78)PS(0.004)NDGK	2	0.94299	1907.5	1792.0
Pikfyve	0.84114	0.00516069	59.013	ISAMDT(0.159)S(0.841)PR	2	-0.26274	21078.2	24211.1
Eif4g3	0.741836	3.04E-08	59.212	QLTGGVDAERAS(0.742)T(0.258)E/	3	-0.7641	8130.6	8679.6
Srrm2	0.709819	3.43E-26	77.576	S(0.134)GS(0.71)S(0.156)QELDGKI	4	-0.42093	10289.1	12632.1
Hivep1	0.988203	6.29E-18	74.776	VS(0.001)AGRLS(0.988)PQQES(0.C	3	-0.00081471	10481.9	9274.6
Nr3c1	0.983171	0.000130102	74.962	S(0.008)T(0.008)S(0.983)VPENPK	2	0.39754	26033.8	24651.0
Vasp	0.997485	8.90E-24	93.381	KVS(0.003)KQEEAS(0.997)GGPLAF	4	-0.8538	10801.3	9626.2
Nefh	1	1.85E-06	69.92	S(1)LAEAKS(1)PEKAK	3	0.60578	108785.5	108431.1
Phf2	0.978006	7.43E-05	50.077	RPS(0.978)AS(0.015)S(0.006)PNN	2	-0.4233	26361.8	22094.1
Map1b	0.997152	5.85E-76	114.01	AAEAGVTEDEQY(0.997)GFLGT(0.00	4	0.026333	31545.2	26729.6
Ahnak	1	0.0028877	49.216	IS(1)MPNIDLNLK	2	-0.37397	13864.9	12568.5
Epb4l11	0.966539	1.16E-05	50.77	S(0.967)LAAS(0.226)PEGS(0.807)E	3	-0.0078327	5303.6	4725.2
Epb4l11	0.807032	1.16E-05	50.77	S(0.967)LAAS(0.226)PEGS(0.807)E	3	-0.0078327	5303.6	4725.2
Pag1	0.923852	0.00514432	86.136	RFS(0.065)S(0.924)LS(0.011)YK	2	-0.65365	58817.0	54482.7
Txnrd3	0.5	0.0101398	44.349	AQT(0.5)S(0.5)PGQGK	3	0.55385	28401.3	26743.9
Palmd	0.999931	3.10E-16	105.5	VIS(1)PGPNSQER	3	-0.31789	62504.8	58156.2
Synm	0.712345	1.83E-05	43.233	VLEVPS(0.222)AS(0.712)LGGAFGS	3	0.26453	11030.4	9247.4
LOC691921	0.987628	0.0298727	63.673	S(0.005)PS(0.007)S(0.988)PPR	2	0.69507	8355.9	9938.7
Prrc2a	0.984491	6.99E-52	162.61	RKQS(0.984)S(0.013)S(0.003)EISL/	3	-0.93928	36450.7	33332.0



31574.1	40525.8	41049.8	35644.0	0.1	0.3	241
11712.1	12141.4	11357.5	12671.0	0.1	0.2	844
4373.1	5091.7	5036.6	5022.8	0.1	0.1	295
7148.6	8127.7	7722.9	7151.3	0.1	0.1	569;497;569
11372.5	11473.7	14371.1	12650.0	0.1	0.3	41
3646.8	4089.9	4080.1	4060.6	0.1	0.0	509
19445.7	20382.3	22421.2	21328.0	0.1	0.1	448
7502.0	7765.5	8984.9	8391.0	0.1	0.1	1199
7205.1	9171.8	8306.2	8668.1	0.1	0.2	481;481
261667.7	316480.4	296698.3	280000.0	0.1	0.1	1023
103640.8	111018.9	113201.4	102510.0	0.1	0.1	25
19785.3	24036.3	19994.3	22877.0	0.1	0.2	52
4693.4	4888.6	5398.7	4529.5	0.1	0.2	8
26063.5	31320.3	32976.2	29923.0	0.1	0.3	476
24946.7	31176.2	26901.0	27699.0	0.1	0.3	595
1991.2	2023.7	1849.0	2392.8	0.1	0.3	983
20688.1	28310.8	21882.6	22452.0	0.1	0.4	1518
8025.2	9227.3	9325.8	8792.8	0.1	0.0	1221
11340.6	17920.5	9950.7	9856.1	0.1	0.7	1500
11188.3	10515.1	12008.4	11552.0	0.1	0.2	1713
24724.2	28673.7	28221.8	26143.0	0.1	0.0	154
11061.6	11638.7	11959.2	11078.0	0.1	0.1	242
106879.4	109127.0	130684.5	117100.0	0.1	0.2	768;738
24810.4	28416.4	26545.1	25724.0	0.1	0.2	940
29971.8	35327.4	33702.9	28153.0	0.1	0.3	930
13587.0	14459.0	14856.3	14758.0	0.1	0.0	1440
4395.5	5150.5	5539.0	5195.7	0.1	0.2	583;575
4395.5	5150.5	5539.0	5195.7	0.1	0.2	591;583
62352.9	67805.9	64556.8	61080.0	0.1	0.1	293
29322.4	32821.7	30159.3	30044.0	0.1	0.1	15
60215.1	67202.0	68195.5	63811.0	0.1	0.0	278
10765.7	12221.7	10922.6	11049.0	0.1	0.2	896;896
9269.1	9983.7	10750.6	9626.8	0.1	0.2	310
34587.0	39164.1	39268.4	36531.0	0.1	0.1	455

Wnk1	0.992584	4.07E-13	106.82	RKS(0.993)T(0.006)S(0.001)FLEAQ	3	-0.4647	42340.1	40607.8
Dlg5	0.796763	3.02E-17	96.143	RLS(0.797)MS(0.203)EVKDDNTAK	3	0.36949	44451.2	40673.6
Crocc	0.721265	7.69E-16	63.138	EAPAGGS(0.017)GDGLS(0.211)S(0	3	0.89208	40992.4	44507.3
Ltn1	0.692993	2.75E-10	48.634	CVS(0.184)S(0.693)EGENS(0.057)E	3	3.0991	3530.3	4153.8
Arhgap24	0.960346	1.67E-06	69.258	T(0.005)QT(0.031)T(0.96)PNGS(0.	2	-1.1341	6989.0	7067.9
Apc	0.505395	1.10E-19	66.738	S(0.013)GAQT(0.213)PKS(0.505)PI	4	0.070289	4203.8	5174.0
Myh11	0.813211	2.54E-39	125.23	RVIENT(0.813)DGS(0.187)EEEMD/	2	0.74944	7677.9	8506.5
Ahnak2	0.99026	4.83E-15	58.349	MPS(0.99)FGVS(0.01)MPGKPTVES	4	-1.9639	33315.1	33661.0
Vwa5b2	0.859391	0.00324261	79.427	SLS(0.019)S(0.859)PS(0.121)GR	2	0.19451	8235.3	8587.4
Syne1	0.592769	0.000361989	47.916	CSLS(0.001)QPGPS(0.228)VS(0.17!	3	0.79704	5504.7	6783.8
Osbpl11	1	0.00567442	71.451	LQS(1)VNKR	3	-0.15209	18769.2	19804.8
Tab3	0.99824	5.87E-33	74.561	QLICLVQEPHS(0.998)APAVVAAT(C	4	-0.26303	2381.5	2424.1
Zfand2b	0.676251	2.47E-28	85.387	T(0.162)T(0.162)S(0.676)PVIALQN	3	-0.06104	13381.9	13335.2
Add1	1	5.99E-22	140.22	QKGS(1)EENLDETR	3	-0.75495	144206.9	155092.8
Gprin1	1	0.0460077	56.81	APS(1)PAPR	2	0.36547	5580.3	5807.1
Spag9	0.974229	2.36E-05	58.723	GT(0.026)DT(0.974)PNKAEISK	4	1.8313	51912.6	53582.1
Mtfr1l	1	0.00845518	66.758	NAS(1)VPNLR	2	0.91064	34789.3	33528.3
Hivep2	0.692136	0.0126725	61.765	ILAGS(0.308)S(0.692)LK	2	0.94607	8195.4	8182.9
Aagab	0.793542	3.89E-19	72.316	SVGSAESCQCEEPS(0.794)PT(0.20€	3	-0.14205	1819.6	1493.2
Map2	0.850432	1.05E-08	62.813	VSDFGQMAS(0.85)GMS(0.149)VD	3	-0.76723	110284.7	116591.1
Cic	0.99994	4.29E-18	74.029	VPGGS(1)PLGVSLVYSDK	3	0.68626	36179.9	33364.9
Fgd5	0.816849	0.00349129	66.004	VT(0.006)T(0.006)NPS(0.172)T(0.€	3	-0.62525	7443.5	9170.9
Ank2	0.726174	0.000129512	52.172	NEKHS(0.726)PVS(0.26)PS(0.014)/	3	0.22121	13032.4	12306.3
Tnks1bp1	0.726245	9.41E-07	51.31	DLQS(0.726)PS(0.208)T(0.062)CS(i	4	0.23214	3097.2	2657.4
LOC69138	0.978038	1.61E-13	103.76	S(0.002)AGS(0.978)PS(0.02)SDQD	3	-1.1379	14876.3	14309.3
Crtc2	0.975068	6.36E-07	51.473	HGS(0.975)GPNIIILT(0.014)GDS(0.(	3	0.42365	19544.4	17737.1
Brsk1	0.996358	2.23E-15	83.894	SSGGT(0.001)PLHS(0.996)PLHT(0.i	3	-0.22101	56339.8	60195.4
Srcin1	1	3.29E-10	87.388	AAQGPAGS(1)PDKGK	3	1.1077	72413.5	65744.7
Rundc3a	0.798529	5.33E-16	59.912	ELT(0.002)T(0.002)ALVNQWPS(0.:	4	-3.5074	14535.2	14487.0
Ahnak	0.983596	0.015732	43.761	GPQIT(0.016)GPS(0.984)LK	2	0.2607	11472.4	11235.7
Lsm14a	0.969901	1.18E-137	157.47	S(0.97)S(0.03)PQLDPLR	2	-0.97519	126233.2	105394.9
Hepacam	0.789041	2.71E-15	90.561	T(0.06)HT(0.789)S(0.151)PPRAPSS	4	0.39539	8134.8	8877.1
Chat	0.987942	8.33E-09	94.122	AS(0.012)S(0.988)WEELDLPK	3	-0.21101	29645.2	27274.8
Cobl	0.999878	2.29E-07	73.386	SATHNS(1)PAAVHR	3	1.1762	1883.1	2036.1

43021.1	46787.9	48808.2	43160.0	0.1	0.1	849
43161.7	45305.1	48293.1	47714.0	0.1	0.0	1563
41934.1	55630.5	42621.8	42133.0	0.1	0.4	1306
4028.5	4248.9	3802.9	4851.4	0.1	0.3	558
6698.1	7676.0	7836.4	7352.5	0.1	0.0	327
5413.3	6105.5	5094.5	5095.6	0.1	0.4	1267
7716.0	9282.4	7710.2	9340.2	0.1	0.2	1951
34691.4	37110.4	36960.1	37953.0	0.1	0.0	3210;4576
8012.9	8426.1	9638.2	9301.3	0.1	0.1	764
5923.5	6113.9	6738.5	7215.0	0.1	0.3	2933;8739
20068.5	22107.0	20421.8	22091.0	0.1	0.0	216
2396.4	2403.2	2894.5	2638.5	0.1	0.2	126
13572.1	14613.0	14858.4	14927.0	0.1	0.0	187
157716.1	170944.7	153147.4	179550.0	0.1	0.2	617;632
5980.1	7146.4	6096.5	5896.6	0.1	0.2	748
51894.9	61336.0	58898.3	53215.0	0.1	0.1	150;307
34711.6	37861.7	38288.4	37393.0	0.1	0.0	100
9192.2	8838.2	9695.7	9646.1	0.1	0.1	622
1841.6	1981.2	1768.3	1931.2	0.1	0.2	209
116184.4	124757.4	134777.4	118560.0	0.1	0.1	1147;1061
34445.4	38532.7	40587.1	35492.0	0.1	0.1	1624
8864.2	9934.1	9305.4	8842.4	0.1	0.2	23
13481.6	14256.6	14933.2	13597.0	0.1	0.1	1842
3305.9	3577.9	3137.1	3271.4	0.1	0.3	707
15593.8	16342.1	16479.6	16535.0	0.1	0.0	187
18021.2	20937.7	20230.5	19789.0	0.1	0.0	588
61749.2	61034.6	74113.7	61371.0	0.1	0.3	429
63047.0	75753.1	77369.8	68663.0	0.1	0.2	1152
15234.0	14652.6	17459.5	16673.0	0.1	0.2	346
10602.6	10478.9	12879.3	13363.0	0.1	0.3	385
129226.2	137759.0	137107.0	122950.0	0.1	0.2	182
8056.4	8695.6	9745.1	9197.0	0.1	0.1	368
25201.1	29796.8	30603.8	30143.0	0.1	0.1	17
1594.0	2127.0	2087.7	1864.1	0.1	0.3	838;949

Parva	0.995985	1.78E-06	92.785	S(0.001)PT(0.003)PKS(0.996)PPSR	2	-0.39644	76765.6	79084.3
Ppfbp1	0.927136	1.61E-11	68.243	DLGQS(0.927)NS(0.072)DLDTPFAB	3	0.48398	10295.2	10251.5
Ccdc91	0.789974	3.34E-42	87.671	S(0.001)DAVIS(0.203)S(0.79)PDDT	3	0.38921	29588.0	28848.9
Sec14l1	0.967028	2.73E-22	74.905	KDS(0.967)LGAHS(0.033)ITSPGGN	4	-0.079598	4937.9	4906.3
Vps13b	0.612932	2.68E-07	54.319	IVQIEQHS(0.387)GAS(0.613)QHR	3	-1.0644	8994.5	8794.1
Clasp1	0.626735	4.99E-15	83.891	S(0.627)RS(0.373)DIDVNAAASAK	4	0.033878	100257.8	101021.5
Dot1l	0.625209	8.47E-05	69.864	S(0.364)T(0.01)PS(0.625)PVPQPR	2	0.23057	7142.1	7197.7
Habp4	1	0.0177802	58.699	AFDS(1)FDQR	2	-1.747	84425.0	80430.2
Trim37	0.562173	3.27E-15	62.108	S(0.002)KGDCQALS(0.562)EGS(0.4	3	0.76788	8320.6	8434.5
LOC10036	0.999901	0.0115876	75.696	VPS(1)PYVR	2	0.1796	16566.3	15952.4
Gab2	0.628675	0.000280341	86.911	S(0.035)AS(0.334)FS(0.629)QGT(0	2	-0.58058	12882.1	11658.0
Tab3	0.699657	1.51E-26	77.631	TLVHS(0.137)S(0.7)S(0.163)DGHIC	4	-0.15797	37613.5	39733.5
Prx	0.989158	2.14E-07	87.863	S(0.011)GS(0.989)KDREEGGFR	2	-0.49493	212463.9	256557.4
Epb41l2	0.98699	1.22E-08	100.22	QKS(0.013)YS(0.987)LVVAK	4	-0.97596	263081.2	221565.8
Piezo2	0.971877	0.00852902	96.936	S(0.972)S(0.023)FS(0.004)S(0.001)	2	0.43741	11537.3	11258.7
Asrgl1	1	0.00207916	105.2	DSVPAT(1)PR	2	0.72321	7670.0	7706.0
Map2	0.992011	2.08E-83	119.65	SDTLQITDLLVPGS(0.992)REEFVET(	4	0.16771	32436.1	28552.7
Epb41l1	0.814738	7.01E-16	91.067	KES(0.815)GS(0.139)S(0.046)LSGII	3	0.77549	20429.4	17794.2
Arhgef11	1	1.05E-05	53.255	KVS(1)LLPGGGVGAAK	3	-0.8966	11560.3	12509.2
Clip4	0.773323	3.44E-12	66.52	ENAS(0.009)ES(0.193)T(0.773)LS(	4	1.1354	9550.5	9857.5
Reps2	0.5	1.36E-12	71.592	RLDDEEKQQET(0.5)PS(0.5)PR	3	0.40474	4282.9	4430.0
Dmxl2	0.948664	2.10E-48	121.63	RQS(0.949)ES(0.051)IAAPPVASED	3	-0.51845	71532.1	70270.6
Arfgap3	0.871634	1.65E-47	138.97	LST(0.002)S(0.015)S(0.111)S(0.87	3	-0.21874	5521.5	5613.5
Pdia6	0.842328	0.0231903	42.21	T(0.842)RS(0.152)DIVS(0.006)R	3	0.014837	4695.0	5046.0
Magi1	0.600809	1.10E-17	96.143	KDS(0.004)QNS(0.391)S(0.601)QH	4	0.46474	17208.0	13067.5
Tnks1bp1	0.999924	6.35E-21	115.8	GATQRES(1)AASGLR	3	0.024557	12253.6	12870.1
Hnrnpf	0.970019	1.13E-07	54.225	HS(0.011)GPNS(0.97)ADS(0.019)A	3	0.27432	9641.9	9080.9
Irs2	0.980421	1.26E-13	121.56	S(0.008)HT(0.98)LS(0.012)AGCGG	3	0.01804	55188.9	50202.5
Dennd2a	0.999625	0.04114	61.765	RGS(1)ELTR	2	-0.81505	17339.2	15299.8
Dock1	1	0.00212612	41.293	RNS(1)KHQEIFDK	4	-0.70582	6518.0	7057.8
Tcof1	0.522081	3.15E-06	46.276	T(0.003)NVT(0.037)T(0.239)PT(0.5	4	0.37806	3698.5	3640.9
Map1b	0.981966	1.05E-58	94.802	YES(0.002)S(0.01)LYS(0.982)QEYSI	4	1.0671	6291.7	5896.4
Eef2	1	0.0203853	54.539	AGIIAS(1)AR	2	-0.71495	11489.9	11828.0
Tcf20	0.780453	8.45E-43	91.1	S(0.2)AS(0.78)ANS(0.019)AETGGD	3	0.10954	11103.7	8988.1

73167.5	83893.9	95945.0	72685.0	0.1	0.3	19
11152.1	11044.7	12264.8	11643.0	0.1	0.1	616
28934.8	33032.9	33806.5	29504.0	0.1	0.1	41
4320.1	4959.1	4909.2	5751.5	0.1	0.2	579
7790.8	9212.3	10295.6	8700.1	0.1	0.2	1789
103078.6	109531.8	117914.2	108190.0	0.1	0.0	598;598
7905.8	8106.0	7687.1	8739.4	0.1	0.1	900
81037.4	89625.8	97881.4	83667.0	0.1	0.1	206
8225.7	9898.0	9714.2	7937.6	0.1	0.2	793
16686.1	18008.5	18765.4	17493.0	0.1	0.0	491
12965.2	14000.3	14696.0	12668.0	0.1	0.2	173
37503.1	37532.8	47026.7	42113.0	0.1	0.2	102
219529.2	324026.1	227824.2	207610.0	0.1	0.6	1347;1347
230282.1	253056.7	269479.9	266030.0	0.1	0.1	89;89;89
10738.0	13197.3	12370.6	11421.0	0.1	0.1	2179
8174.7	8521.8	8935.9	8521.7	0.1	0.0	17
34473.1	38487.6	36841.5	29981.0	0.1	0.4	1354;1268
18993.2	21455.8	22094.2	19570.0	0.1	0.1	620;612
13162.2	14169.7	14502.6	12401.0	0.1	0.2	1365;1354
8560.5	9677.6	11109.6	10068.0	0.1	0.2	401
4203.1	4894.5	4701.9	4653.3	0.1	0.0	47
69903.3	75496.8	79988.0	78089.0	0.1	0.0	2379;2396
6215.2	6696.8	6781.7	5664.5	0.1	0.2	464
4155.5	4842.2	5286.7	5203.6	0.1	0.2	262
15992.0	17641.2	17330.2	16079.0	0.1	0.3	744
13156.8	13863.9	14798.6	13576.0	0.1	0.0	1448
8908.8	9912.6	10058.3	10519.0	0.1	0.0	104
54784.3	58938.0	64266.1	53541.0	0.1	0.2	402
16482.8	18187.8	19139.4	16877.0	0.1	0.1	93
6836.8	7255.2	8223.9	7045.9	0.1	0.1	1704
4323.2	4366.2	4508.7	3994.8	0.1	0.2	948
6471.9	6995.6	7161.8	6434.7	0.1	0.1	1165;1039
10851.9	12411.9	12156.9	13140.0	0.1	0.0	48
10157.1	11199.8	10870.2	11312.0	0.1	0.2	1401

Spred2	0.615546	1.92E-06	78.964	T(0.002)IS(0.063)S(0.616)PT(0.135)	2	-1.9269	4194.9	3854.7
Gapvd1	0.980335	9.08E-17	132.62	S(0.98)S(0.02)DIVSCVR	2	-0.31263	33672.9	30158.6
Arhgap28	0.982642	0.00700489	57.175	VPQKS(0.983)PS(0.012)S(0.005)R	2	0.59386	69769.4	78452.4
Mbp	1	0.000155899	91.694	FSWGGGRDS(1)R	2	0.21384	105832.4	92046.5
Fkbp15	1	5.23E-23	152.55	AAADTGAS(1)PR	2	0.87158	37284.4	39117.1
Dpysl2	0.999934	3.48E-21	140.62	TIDFDSL(1)VGR	2	-0.35103	26807.9	23988.4
Sh3d19	0.977705	1.48E-05	40.706	TANHET(0.004)S(0.019)GGRPMAE	3	0.80345	6044.1	5254.3
Ppdpf	0.640223	4.59E-31	71.988	LGS(0.166)S(0.64)S(0.188)S(0.005)	4	-0.3131	6593.1	6226.9
Cacna1h	0.91721	3.48E-05	56.514	QEAMHS(0.083)ES(0.917)LEGK	3	0.039041	8850.5	9614.2
Syn1	1	3.25E-05	68.515	QAS(1)QAGPGPR	3	1.0192	10542.1	9503.2
Map2	0.98333	1.77E-07	71.98	S(0.017)GLS(0.983)REFDQDR	2	-0.52062	45392.2	48274.1
Mapkap1	0.791449	1.30E-07	57.525	KIDVY(0.011)LPLHS(0.197)S(0.791)	4	1.2223	5693.3	5684.3
Sox5	0.855865	2.04E-07	90.614	KGS(0.144)LADVVD(0.856)LK	3	0.031957	16226.4	13599.6
Alk	1	0.000471309	41.615	KPS(1)GAGAGAGAGPVPR	3	-0.42466	6438.4	7136.1
Dst	0.84961	3.07E-22	89.604	S(0.038)ES(0.85)NS(0.054)S(0.054)	2	1.3141	54897.8	53155.4
Wdr20	0.535615	2.95E-13	73.722	S(0.184)NS(0.536)LPHS(0.28)AVSM	3	0.73102	40937.5	41908.7
Csnk1d	0.998766	0.000138459	90.104	GLPST(0.001)AS(0.999)GR	2	-0.26221	26984.4	26582.6
Stag2	0.949764	0.0362264	41.117	S(0.95)KPS(0.045)T(0.005)GK	3	0.41088	23359.8	22416.6
Shroom2	0.664825	9.30E-07	84.753	ADAS(0.206)S(0.665)T(0.129)ENIL	3	-1.0544	21766.4	22465.9
Ambra1	0.946451	0.000154839	41.057	VPS(0.044)LLPHQDS(0.946)VPPAS	3	0.75446	4949.0	5098.9
LOC100911	0.894115	0.000556604	66.056	EQY(0.894)VPPRS(0.106)PK	2	0.21901	152305.2	147173.1
Aox3	0.990515	0.0278686	42.718	KNS(0.991)VCT(0.009)K	2	-1.5634	9600.2	7758.4
RGD15620	1	0.000656726	63.091	QAS(1)DGDGQKR	3	-0.11784	19587.4	17398.2
Aak1	0.52391	0.000106976	64.224	S(0.065)KS(0.482)AT(0.298)T(0.16)	3	1.013	11082.0	10793.9
Fga	0.799483	0.00597832	50.592	VT(0.026)S(0.799)T(0.123)GT(0.02)	2	-0.58179	5408.1	5615.8
Gas7	0.79339	1.36E-27	103.41	KS(0.165)T(0.793)GDS(0.041)QNL	3	0.32853	43817.9	40986.2
Gprasp1	0.930258	0.00176336	112.13	S(0.07)VGVS(0.93)CEK	2	-0.51763	27046.4	25225.8
Mia3	0.764186	1.35E-170	146.76	GLLSQNGSFGPS(0.22)PVS(0.015)C	4	0.50018	8386.9	7343.2
Srgap1	1	0.00189334	70.552	KIDS(1)PPIR	3	0.27794	9516.9	9803.3
Specc1	0.992488	0.00155237	88.134	ELS(0.992)VT(0.008)ISR	2	1.4162	8484.2	9901.0
Atxn2	1	0.0228422	55.718	QNS(1)PAGNK	2	1.7017	6176.4	5514.8
Nhs12	0.963446	3.27E-07	71.531	KS(0.033)S(0.963)LPPT(0.003)S(0.1)	3	-0.23178	41445.6	40150.4
Bod111	0.822365	4.25E-22	88.176	KLS(0.132)S(0.822)QPS(0.045)T(0.0)	4	-0.39559	106291.6	93071.0
Spcs2	0.535591	9.02E-16	62.069	S(0.002)GGGGGS(0.462)S(0.536)C	3	0.075998	888.4	1215.5

3502.2	4088.2	4376.1	4284.0	0.1	0.1	168
34576.4	35951.1	37970.0	34685.0	0.1	0.1	902
67191.7	83310.9	82899.0	71530.0	0.1	0.2	580
98490.0	112008.9	113276.3	101810.0	0.1	0.1	145
37458.4	47104.7	40331.7	38229.0	0.1	0.2	1144
23016.5	27546.3	29668.8	24253.0	0.1	0.3	56
6555.5	6686.3	6854.1	6165.6	0.1	0.2	404
7252.9	7157.2	7009.3	7988.5	0.1	0.2	24
9119.4	9761.4	10465.3	10219.0	0.1	0.0	2019
9658.5	11494.6	11467.6	9823.8	0.1	0.2	603
46713.3	50771.9	56449.0	47727.0	0.1	0.1	1032;946
5418.0	5984.8	6624.2	5929.8	0.1	0.1	186
16031.4	16575.3	16009.4	18034.0	0.1	0.2	110;133
6528.6	7331.1	8038.2	6821.3	0.1	0.2	1460
55265.6	62602.0	61036.7	56657.0	0.1	0.0	7286;7458
40308.4	42729.0	45881.2	47348.0	0.1	0.0	373
28057.6	30867.1	32344.6	26900.0	0.1	0.2	331
26644.8	27030.4	29234.9	23689.0	0.1	0.3	1075
25829.3	26417.7	25134.5	25798.0	0.1	0.1	192
5135.0	5612.1	5532.7	5617.9	0.1	0.0	329
155533.5	164620.0	178666.6	159080.0	0.1	0.1	714
8455.8	8832.2	8775.0	10896.0	0.1	0.4	196
19084.8	19505.6	20839.6	21566.0	0.1	0.1	62
11612.1	11585.9	13207.4	12184.0	0.1	0.1	677
5829.1	6400.7	6390.7	5817.7	0.1	0.1	394
43509.8	48581.9	48475.8	44627.0	0.1	0.0	89
26953.5	30795.6	27543.2	29146.0	0.1	0.1	534
8396.5	9606.7	8633.0	8402.3	0.1	0.2	1696
10569.6	11862.0	10963.2	10183.0	0.1	0.1	869
9845.0	10204.1	10859.6	10112.0	0.1	0.1	111
6635.9	7347.2	6241.3	6651.3	0.1	0.2	529
40749.2	45422.8	44816.8	44876.0	0.1	0.0	776
101753.2	113625.8	112741.9	106180.0	0.1	0.1	238
797.9	1268.5	945.5	990.9	0.1	0.6	18



Ano8	1	0.00610327	45.661	GPS(1)PPRPGK	3	-0.55171	24235.2	23099.9
lqsec2	0.970133	0.000130917	72.607	GALS(0.004)S(0.026)S(0.97)LR	2	0.39136	20549.9	17247.9
Sik3	1	1.65E-31	92.01	RAS(1)DGGANIQLHAQQLLK	3	-1.3434	28174.7	25914.6
Taok3	0.903846	1.81E-08	46.504	EVDS(0.036)LGS(0.904)IHS(0.056)	3	-1.338	6428.1	6655.1
Pum1	0.986935	1.69E-37	106.35	SASSASS(0.002)LFS(0.987)PS(0.00	3	-1.7612	7724.0	7564.4
Mtus1	0.988262	4.60E-12	61.962	ADDDY(0.004)ACGDS(0.988)PET(C	3	0.42149	17144.8	15145.1
Stac	0.994602	7.20E-21	114.96	KSSSGSGS(0.005)DS(0.995)PPR	3	-0.11679	23117.7	22506.5
Ctnnd2	0.80095	1.99E-22	88.108	TST(0.003)APS(0.196)S(0.801)PGV	3	-0.0024749	18716.7	19921.1
Pdap1	0.499993	8.75E-24	97.256	QYT(0.5)S(0.5)PEEIDAQLQAEK	3	0.17217	15302.1	14098.6
Cep170	0.994143	2.47E-72	155.76	S(0.005)S(0.001)GS(0.994)LGHRPS	3	-1.0185	57526.5	52838.4
LOC10255	0.826859	6.14E-10	82.529	GCVRS(0.827)EDES(0.173)MEAK	3	0.64884	13350.9	14499.0
Lyst	0.973713	1.15E-59	145.44	RMS(0.974)QEHPS(0.026)QASEAE	3	-0.43617	5201.8	5584.9
Phldb2	0.755361	1.66E-21	71.882	TCLSDGNPY(0.004)VS(0.062)S(0.0	3	0.31066	4619.7	4746.4
Adam19	0.919425	1.89E-10	63.766	AAGS(0.081)S(0.919)PEAGAQUIER	3	-2.5139	7918.6	8276.4
Pcm1	0.999051	1.29E-05	121.96	S(0.999)IGS(0.001)DSQGR	2	-0.58387	8856.6	7927.3
Larp1	0.893704	0.00428837	46.89	T(0.894)PRT(0.106)PQLK	2	0.40359	42644.3	43720.8
Inpp5j	0.743394	2.45E-11	67.644	PTPAPLGPILS(0.743)PT(0.232)S(0.	3	1.0896	8821.5	8796.3
Cbl	0.738987	9.39E-16	56.68	LGS(0.021)T(0.064)FS(0.739)LDT(C	4	0.0059973	17154.3	14903.8
Rsrc2	0.947683	5.02E-13	100.23	ERLNS(0.948)S(0.052)ENGEDR	3	0.34619	3890.6	4750.6
Rgs7	0.674404	7.18E-39	79.497	S(0.176)HS(0.647)PT(0.414)HT(0.6	4	-0.59159	41511.2	43283.2
Nav3	0.982911	4.33E-05	90.697	YPDIAS(0.983)PT(0.017)FR	2	-1.25	26023.1	25675.5
Tbc1d10b	0.999976	3.99E-45	77.438	RAS(1)AGPVPGAVVIAEGLHPS(0.29	5	0.55509	13304.3	11471.5
Slc2a1	0.659827	1.31E-25	75.661	QGGAS(0.006)QS(0.039)DKT(0.66	3	1.1066	11267.2	9647.4
Ank3	0.556191	0.000687927	83.226	QS(0.275)FT(0.556)S(0.169)LALR	2	-0.69435	17488.3	15773.6
Ank3	0.556191	0.000687927	83.226	QS(0.275)FT(0.556)S(0.169)LALR	2	-0.69435	17488.3	15773.6
Nos1	0.506729	0.000213158	64.798	FNS(0.054)VS(0.125)S(0.195)Y(0.0	2	1.5611	13126.6	13053.3
Rb1	0.8587	0.0541184	53.833	FS(0.009)S(0.132)S(0.859)PLR	2	1.101	4023.7	4042.7
Ehbp11	0.879989	6.67E-06	104.82	AHGS(0.88)FS(0.12)HVR	3	-0.31907	3046.6	2625.4
Sept4	0.855399	1.46E-123	176.85	LDPYDS(0.855)S(0.145)EDDKEYVG	4	-0.3201	68098.4	61227.6
Phf2	0.737703	3.30E-07	49.141	TVRPEVNAVAS(0.738)S(0.262)DEV	3	2.1195	10236.9	12389.7
Zfyve28	0.670894	2.28E-05	48.053	KQDS(0.246)EKS(0.671)PVVS(0.08	4	0.75619	8662.1	9780.2
Hnrnpm	0.782765	0.000230698	43.794	MGPLGLDHMAS(0.217)S(0.783)IE	3	-0.83837	3785.7	3948.9
Ccdc88a	0.780393	0.00414228	55.249	S(0.78)S(0.22)PMLQHK	3	0.16065	12419.4	10994.4
Ccs	1	0.00244665	47.606	KDS(1)AQPPAHL	3	0.29071	12835.6	10839.1

23719.2	26240.6	27073.0	25162.0	0.1	0.0	1050
19846.0	20970.7	21056.6	21638.0	0.1	0.1	938
25304.4	29467.9	31209.7	27011.0	0.1	0.1	551
6100.9	7403.3	7275.9	6512.2	0.1	0.1	346
6982.3	7929.4	9099.0	7573.5	0.1	0.2	772
17284.5	18822.5	18312.3	17629.0	0.1	0.1	148
20515.7	24860.2	23688.6	24515.0	0.1	0.1	225
17728.4	24004.4	19209.9	19054.0	0.1	0.3	444
15342.6	16580.8	17410.3	15438.0	0.1	0.1	18
54447.9	62096.0	62583.0	57399.0	0.1	0.1	525
14105.4	15654.6	13858.2	16838.0	0.1	0.2	842
4535.8	6010.3	5211.0	5706.6	0.1	0.2	2614
5584.6	5325.9	5922.3	5269.6	0.1	0.2	378
8008.4	9665.6	8847.4	8228.0	0.1	0.1	820
7990.4	9527.3	9168.2	8677.2	0.1	0.1	116
42675.1	46166.4	52332.6	44086.0	0.1	0.1	654
9095.1	9870.7	9621.4	10026.0	0.1	0.0	154
16242.2	18375.9	18388.2	16610.0	0.1	0.1	641
4390.1	4935.4	4700.4	4765.1	0.1	0.2	104
36241.5	47336.8	38205.1	48218.0	0.1	0.3	245
30519.0	31557.8	31115.7	28190.0	0.1	0.2	1216
12405.2	13631.8	14785.8	12675.0	0.1	0.2	670
12498.9	11039.2	13663.7	12226.0	0.1	0.4	478
18305.5	18687.2	19875.7	18430.0	0.1	0.1	1413
18305.5	18687.2	19875.7	18430.0	0.1	0.1	1460
12376.5	17290.3	13888.1	11435.0	0.1	0.5	886
3876.8	4612.5	4017.7	4569.9	0.1	0.1	787
3098.7	3252.4	3346.6	3094.8	0.1	0.1	1443;683
62484.9	71243.3	72073.6	68681.0	0.1	0.0	447
11285.2	15451.1	10466.2	11564.0	0.1	0.5	341
7941.3	9543.8	10503.1	9114.4	0.1	0.2	679
3926.7	4577.9	3902.7	4409.7	0.1	0.1	348
10848.7	12439.4	13137.9	12297.0	0.1	0.1	1625
13398.5	14141.1	14113.6	12729.0	0.1	0.2	267

Zc3hav1	0.832453	7.08E-64	114.68	AAAS(0.001)GS(0.022)PGKNS(0.83	4	0.098703	14161.9	12749.4
Ephb1	0.730596	0.00283377	59.645	LQHY(0.005)S(0.731)T(0.265)GR	3	-0.15256	6212.4	7992.6
Ptpdc1	0.898735	0.00239081	59.796	AEGT(0.899)PT(0.101)CPER	2	0.17895	10300.0	8568.4
Ttbk1	0.926735	1.42E-46	104.6	SETSQPPT(0.014)PGS(0.927)PS(0.1	3	-0.64536	17166.2	14750.2
Cic	0.985819	0.00038767	66.989	AVS(0.986)PAVPFS(0.014)R	2	1.1954	15562.1	15452.2
Kank2	0.942391	3.85E-13	60.735	VLS(0.058)T(0.942)AEGPQLRPLGP	3	-0.86423	17390.5	18349.2
Lonrf1	1	9.89E-08	58.093	KLS(1)LLEQDVIINEDGR	3	-4.3935	11545.5	10196.7
Plekha6	0.814444	5.03E-11	56.708	RPVPAGLFPY(0.051)NY(0.814)PPS	5	0.4927	2745.4	2723.4
Cc2d1b	0.935173	0.0126725	61.765	ES(0.002)LS(0.935)PS(0.063)VR	2	-0.26128	24787.5	25750.1
Cep68	0.993149	0.000181714	62.088	NAS(0.007)AGS(0.993)PQLK	3	-0.10509	26599.1	28265.3
Osbpl9	0.951636	2.54E-46	106.57	LIDSSGSASVLT(0.952)HS(0.036)S(C	3	-0.064686	5822.4	6319.5
Mbp	0.99659	0.000269299	88.392	T(0.003)PPPS(0.997)QGK	3	0.24643	98474.8	83078.1
Mbp	0.99659	0.000269299	88.392	T(0.003)PPPS(0.997)QGK	3	0.24643	98474.8	83078.1
Bcas1	0.649471	1.87E-25	71.651	EPAPCVQQPT(0.649)VEVNALQT(0	4	1.0595	60155.2	59702.9
Ctnna2	0.99827	0.000347897	45.207	HIS(0.998)PVQALS(0.002)EFK	3	0.82618	2003.8	1821.2
Cct8	1	3.06E-06	74.987	PAGGPKPPS(1)GK	3	-0.27091	36772.7	31785.3
Nes	0.91435	0.00103524	43.557	ENQES(0.086)LVS(0.914)LKEK	3	0.41261	18263.5	15975.5
Bag4	0.6024	1.03E-05	69.261	S(0.001)PGNS(0.386)PT(0.602)PV	2	-0.019041	5104.3	5582.0
Zfhx3	0.566195	2.42E-11	56.708	AS(0.007)GAS(0.303)PGENDS(0.5	3	-0.28442	1180.3	1330.1
Tjp2	0.51116	1.79E-05	49.924	HS(0.486)S(0.511)HDMLS(0.002)H	4	0.65212	3075.4	3609.5
Ahnak	0.880021	0.0467059	56.548	FNFS(0.12)GS(0.88)K	2	0.77995	37440.6	37253.4
Sox10	0.722198	7.20E-38	87.196	CLS(0.722)PS(0.247)S(0.028)APS(C	4	-0.15227	10432.0	10585.0
Gpsm1	0.999043	1.03E-12	70.094	LDDQRAS(0.999)VGS(0.001)LPGLF	3	0.1494	13575.1	14187.5
Ahnak	1	3.11E-30	124.25	IS(1)MADVDLNVAAPK	2	1.3178	26751.8	24312.0
Cep350	0.992508	3.78E-07	81.879	LLELRS(0.993)PT(0.007)ELMR	3	-0.82721	3437.3	3624.4
Rnf20	0.51315	2.09E-26	82.635	KALVVPEPEPDS(0.487)DS(0.513)N	3	1.9368	12882.1	13454.8
Grip1	0.99453	4.87E-08	99.539	AS(0.005)LS(0.995)PVPKPR	3	-0.64015	44373.6	55927.3
Fam171a1	0.999908	3.10E-63	113.33	RAS(1)DYPGPLSVSSHRSRPEAPGTK	4	0.45634	12079.5	10890.4
Cacna1b	0.951302	0.00214676	49.298	RGS(0.951)PEEAT(0.049)ER	3	3.4606	8357.6	9153.5
Klc1	1	1.46E-06	74.475	S(1)RES(1)LNVDVVK	3	1.447	71350.9	77459.7
Map9	0.789086	9.65E-06	51.798	S(0.789)PS(0.202)AAT(0.003)S(0.0	4	-0.38645	4032.3	3531.7
Myt1l	1	0.0283503	52.903	LEEQLS(1)PR	2	0.0019585	19717.4	19861.8
Arhgap39	0.786344	2.83E-05	60.549	KPS(0.786)S(0.21)DS(0.003)QPSSF	3	-0.5298	8254.2	8477.0
Ift88	0.93774	4.91E-06	51.611	EGS(0.938)AGS(0.028)DS(0.032)G	3	-0.32526	1494.1	1381.2

12546.8	15168.4	16377.0	12075.0	0.1	0.4	549
6886.4	7569.5	8156.7	7591.4	0.1	0.3	583
9767.2	9930.8	10987.8	10742.0	0.1	0.2	97
16927.8	15562.2	17619.8	20822.0	0.1	0.4	638
15587.4	17071.4	17598.4	16858.0	0.1	0.0	765
20300.6	18389.1	21037.3	22539.0	0.1	0.3	537
10665.6	11963.2	12584.4	11288.0	0.1	0.1	437
2373.6	3096.9	2652.6	2923.8	0.1	0.2	656
25389.6	28708.9	29471.1	25805.0	0.1	0.1	522
26488.3	38449.1	26213.8	25326.0	0.1	0.5	416
6797.1	6471.4	6468.4	8011.0	0.1	0.3	309
98003.5	100457.1	109813.8	98981.0	0.1	0.2	126;100;126
98003.5	100457.1	109813.8	98981.0	0.1	0.2	100
65068.8	66361.7	75542.4	62675.0	0.1	0.2	580
1361.1	1969.4	1751.1	2017.0	0.1	0.4	939
42406.8	42567.3	34172.0	46029.0	0.1	0.4	537
16652.1	17214.4	20449.6	18641.0	0.1	0.2	1134
4896.7	5150.8	5868.9	6221.1	0.1	0.2	182
1236.0	1136.6	1489.9	1518.6	0.1	0.4	2622
2944.8	3711.9	3804.8	3137.8	0.1	0.3	140;167
33145.5	38597.6	40096.6	40623.0	0.1	0.1	2762
11169.2	11305.4	12259.5	12047.0	0.1	0.0	24
14925.2	15511.6	16041.4	15680.0	0.1	0.0	567
29298.9	30019.0	31158.4	27743.0	0.1	0.2	572
3677.1	4114.3	3756.5	4011.6	0.1	0.0	2419
12382.9	14455.7	13893.4	14494.0	0.1	0.0	138
58497.8	62856.1	52518.5	60342.0	0.1	0.4	846
10881.7	12647.3	13950.1	10861.0	0.1	0.3	246
7412.3	9757.2	8066.2	9755.9	0.1	0.3	941;942
73417.7	99867.5	73009.8	73043.0	0.1	0.4	524;524;524
3311.9	4408.2	3874.8	3752.6	0.1	0.3	389
18734.5	22185.1	21144.2	21203.0	0.1	0.0	391
9352.0	10102.5	10123.3	8639.1	0.1	0.2	294
1933.3	1789.2	1540.8	1991.6	0.1	0.5	745

Phldb1	0.534881	6.38E-05	100.69	T(0.029)FS(0.407)DGS(0.535)AT(0	2	0.35568	15297.3	12673.8
Cd99	0.987964	5.80E-31	92.854	DS(0.012)GGIS(0.988)DRDLEDVAC	3	-0.53209	10642.4	10936.9
Kif13b	0.97262	1.67E-20	117.8	RS(0.973)S(0.027)GLQPQGAPEAR	2	-0.91101	134665.4	158679.7
Mpz	0.997352	2.94E-18	125.97	S(0.002)PS(0.997)RTSLK	2	0.6652	1099268.8	1030540.5
Ppp1r18	1	0.0428163	59.153	EERLS(1)PR	2	-0.27881	16276.5	15140.7
Szt2	0.821019	8.80E-13	67.928	GGGS(0.821)LS(0.177)LDT(0.001)F	3	-0.41416	4571.2	4507.3
LOC69193	1	8.66E-52	125.23	GGT(1)GGGECEDEGAAPAGR	2	-0.23059	18472.2	18190.1
Kcns2	0.997242	0.0544389	53.756	S(0.997)LGAT(0.003)LK	2	2.5847	5981.8	6113.0
Map3k10	0.956675	0.00421742	61.165	RT(0.043)PS(0.957)DGALR	2	-0.095219	23811.8	23232.7
Ctnnd1	0.926651	1.99E-59	143.38	VRVS(0.927)PQDANS(0.073)LMAN	3	-1.5602	7434.4	7687.7
Edc4	0.901083	0.00431236	49.298	T(0.047)KGS(0.151)PRT(0.901)S(0	4	-0.45855	7475.6	8763.0
Lmo7	0.903238	3.21E-18	99.711	S(0.067)LS(0.903)DVS(0.03)AEDVC	3	0.32602	2573.1	2573.6
Zwint	1	0.000271363	84.821	GPALPPKS(1)P	2	0.36317	276081.4	212209.1
Itsn1	1	0.023591	40.714	QRS(1)IEAER	3	-0.54728	3023.6	2708.2
LOC10369	1	5.88E-15	111.83	HALGGS(1)LEHLPR	3	0.24708	5356.0	5809.7
Etl4	1	0.00648772	65.246	T(1)PPAS(1)PHR	3	-0.32547	10981.5	10272.8
Rtn4	0.800683	1.33E-43	99.064	DLAEFSELEY(0.003)S(0.001)EMGS	4	1.2066	21092.5	16281.5
Brsk1	1	3.43E-11	140.78	NSFLGS(1)PR	2	0.26198	37382.2	33937.4
Ptpn12	0.99867	3.53E-65	147	KVPLQEGPKS(0.999)FDGNT(0.001	4	-0.96019	83689.1	84188.2
Nefm	0.999992	3.90E-07	57.525	VTSHAIKVEVT(1)QGD	3	-0.31091	8649.7	10227.1
Ank3	0.999999	2.09E-08	111.79	SAAALLS(1)PIK	2	-0.90519	42566.7	40646.2
Limd2	0.502293	0.00514546	71.614	S(0.502)KS(0.351)FS(0.147)LR	3	0.37172	9052.8	7799.6
Crtc3	0.999997	3.49E-43	134.52	LTQHHGGS(1)LPNVSQLR	3	-0.1663	11277.9	11113.9
Zcchc8	0.610427	0.00085582	43.03	GT(0.008)PPLT(0.61)PS(0.084)DS(i	3	2.3632	5207.7	5994.6
Mctp2	0.5	1.17E-05	89.301	LCGS(0.5)HS(0.5)PLRK	4	0.15191	11990.0	12985.3
Pnpla6	0.993058	9.69E-12	63.302	CIS(0.993)MPVDIS(0.007)GLQGGP	3	2.9838	19588.6	20195.3
Bclaf1	0.868224	6.93E-43	94.707	SQEEPKDTFEHDPS(0.868)ES(0.132	4	-0.38895	35278.3	34055.9
Ensa	0.845161	0.00475368	91.265	S(0.845)S(0.146)LVT(0.003)S(0.00	2	-0.99201	17048.2	15687.0
Bicc1	0.976713	7.32E-07	69.331	S(0.977)PS(0.009)HS(0.014)GNAG	2	-0.23293	4791.4	4658.8
Pstpip1	0.999587	0.000463555	55.196	RFS(1)GLLHGSPK	3	1.0355	3614.5	3127.1
Pdzd8	1	1.61E-13	103.76	S(1)VDHGEDVAAGK	3	0.46118	14188.1	16289.2
Ncbp2	0.511612	5.80E-12	100.11	S(0.146)DS(0.512)YVELS(0.342)EY	2	-0.92213	12471.8	11003.2
Apba1	0.666333	2.87E-33	82.503	S(0.159)AS(0.666)T(0.21)ES(0.564	4	0.54994	12149.8	12314.0
Ncl	1	0.000953574	71.692	GAVT(1)PAK	2	0.29146	16007.0	15944.8

15366.0	16092.4	17904.1	13966.0	0.1	0.3	434;491
10672.0	11533.1	11789.3	12372.0	0.1	0.0	94
137935.0	200533.7	135589.5	141210.0	0.1	0.5	1868
1080824.5	1249334.2	1311546.6	992640.0	0.1	0.3	294
17470.8	17169.3	19679.1	17261.0	0.1	0.2	145
4537.1	5348.8	5093.9	4627.8	0.1	0.1	2755
16326.3	19897.2	19740.0	19029.0	0.1	0.1	12
5977.0	6431.9	6902.9	6673.3	0.1	0.0	317
25753.7	27378.0	29289.4	23933.0	0.1	0.2	818
8791.7	8292.0	9556.7	8628.8	0.1	0.2	47
6429.9	8449.2	9832.8	6818.4	0.1	0.5	924
2859.3	3145.9	2798.8	2920.8	0.1	0.1	320
268204.6	286616.5	297884.5	253230.0	0.1	0.3	265
2607.0	3059.9	3140.7	3033.6	0.1	0.1	623
5835.6	6169.7	6683.2	5974.7	0.1	0.1	342
10930.7	11576.0	11491.1	12577.0	0.1	0.1	320
18323.6	19737.7	21709.5	20237.0	0.1	0.3	291
30545.6	39123.4	39500.3	34191.0	0.1	0.2	473;649
86872.7	91143.8	105118.2	85892.0	0.1	0.2	329
8126.7	9775.8	12034.0	8098.6	0.1	0.5	842
39471.6	46937.5	46179.3	42773.0	0.1	0.0	1854
7740.2	8978.6	10265.6	7996.6	0.1	0.3	28
10522.4	12528.5	11804.2	12128.0	0.1	0.0	62
5474.1	6427.7	6142.7	5903.2	0.1	0.1	279
9718.3	16282.7	11038.0	11112.0	0.1	0.6	861
19426.5	21884.8	23276.1	20431.0	0.1	0.1	394
33424.4	37432.7	41804.3	34597.0	0.1	0.2	194
17032.1	17422.3	21011.7	16698.0	0.1	0.3	108
4633.3	4764.8	5018.0	5819.9	0.1	0.2	554
3713.4	4609.7	3580.8	3392.3	0.1	0.4	312
14921.0	16064.9	18752.6	15481.0	0.1	0.2	636
11018.0	13519.6	13085.5	11611.0	0.1	0.2	13
11657.8	13785.8	13638.0	12598.0	0.1	0.0	83
16977.8	18205.4	17882.7	18126.0	0.1	0.0	129

Arhgef28	0.895097	3.78E-17	75.215	S(0.05)S(0.05)S(0.895)LDALVADS(I	2	-0.37859	4978.8	4922.3
Ralbp1	1	8.92E-101	131.97	TGEPSPPHDILHEPPDIVS(1)DDEKDI	5	0.92861	108399.1	103768.1
Nkd1	0.750563	8.20E-12	69.111	S(0.249)RS(0.751)HEPEAAHIPHR	4	-2.0075	4115.3	3981.1
Bod1l1	0.772829	3.00E-30	110.32	SLTSSDDAES(0.227)S(0.773)EPER	3	-0.89261	6513.1	6969.5
Arhgap31	0.99705	1.90E-12	67.928	AECNQS(0.003)LPLDPGT(0.997)PL	3	1.371	4480.2	4432.9
Srrm2	0.641104	1.20E-08	53.481	S(0.006)MLQT(0.946)PPDQNL(S(	3	1.0249	28557.5	26331.4
Plekha4	0.587979	0.00902686	78.149	T(0.412)LS(0.588)PVPR	2	0.95207	12178.5	11330.0
Ptpn13	0.82151	3.86E-23	91.657	GWQEPQHS(0.02)S(0.14)PS(0.822	4	0.37856	38172.9	34036.2
Sorbs1	0.964642	3.19E-48	117.4	ETPS(0.001)S(0.005)S(0.027)PVS(C	3	-0.24685	39614.8	41219.9
Sbf2	0.673	3.54E-06	46.569	DHS(0.153)AS(0.673)FS(0.061)NS(	3	0.10613	7412.7	7331.6
Lrrc47	1	0.0110828	42.031	QEGS(1)EKEDR	3	-0.32881	7324.6	7242.5
Acap2	0.6069	3.33E-43	133.21	SSPSTGS(0.373)LDS(0.607)GS(0.02	3	0.68397	49802.7	51753.5
Ctnnd2	0.738864	3.62E-05	47.942	GGG(0.739)PLT(0.248)T(0.005)T(0	3	0.47986	22496.3	22516.4
Prkag2	0.548709	6.04E-14	68.192	S(0.026)S(0.03)S(0.133)KES(0.233	3	0.3297	14375.4	12314.0
Prkag2	0.577882	6.04E-14	68.192	S(0.026)S(0.03)S(0.133)KES(0.233	3	0.3297	14375.4	12314.0
Scrib	0.725059	1.85E-07	66.246	VLA AVPS(0.275)AGS(0.725)LQR	3	2.0293	1931.5	1472.9
Scrib	0.725059	1.85E-07	66.246	VLA AVPS(0.275)AGS(0.725)LQR	3	2.0293	1931.5	1472.9
Plcg1	1	5.13E-05	89.301	EGS(1)FEAR	2	-0.69488	17854.4	17405.8
Ahnak2	0.99859	6.02E-11	68.41	KPT(0.001)VDAS(0.999)LELGAPK	3	-0.68585	28582.6	29571.7
Numbl	0.999959	0.00492676	72.096	RT(1)PSEAEER	3	1.1362	9552.2	10156.7
Slc7a1	0.970295	0.00701693	51.726	T(0.97)PDS(0.03)NLDQCK	2	-1.1269	8306.9	9050.5
Fgd4	1	0.0378501	40.352	S(1)PQKQEK	3	-0.26203	9316.0	10221.4
Farp1	0.829399	0.00687818	59.35	AHS(0.171)LS(0.829)HK	3	1.2399	4700.3	4701.5
Clasp2	0.956248	1.01E-09	97.223	IPRPS(0.044)VS(0.956)QGCSR	3	-3.6965	7788.8	7735.8
Fhdc1	0.826004	5.48E-05	40.402	S(0.053)S(0.119)GS(0.826)IGGRPC	4	1.086	16318.2	17171.1
LOC100361	1	4.56E-22	88.19	LLGAAS(1)PPEEQLLPVR	3	-0.4309	3612.0	4364.2
Eif2b4	0.907932	2.94E-05	46.873	ELQGT(0.072)GS(0.908)QLGGT(0.0	3	-2.7752	7704.8	7699.9
Fmn1	0.964839	2.67E-06	67.385	LTIS(0.001)LT(0.03)QLS(0.965)PS(I	3	-1.0654	8352.8	8081.5
Tpi1	1	4.13E-14	114.01	CNVS(1)EGVAQCTR	3	0.44028	14617.5	21071.7
Phyhipl	0.834888	4.22E-21	78.674	LDHALS(0.835)S(0.166)PS(0.22)S(I	3	0.14258	145650.0	141052.3
Tbc1d10b	0.97456	7.87E-24	109.99	TEEARAS(1)PVPGP(0.975)PT(0.0	3	-1.9321	36114.3	39318.9
Pde4d	0.99905	0.0136155	76.17	RES(0.999)FLY(0.001)R	2	0.52009	21892.8	25330.0
Ccnt2	0.90402	8.16E-16	55.779	HADGMPPT(0.096)VLRS(0.904)PV	4	-0.2384	12865.4	13693.9
LOC100361	0.997796	9.76E-19	70.783	SEDY(0.002)DAGGS(0.998)QDDEG	3	0.98861	1235.9	982.8



4919.4	5342.6	5454.8	5624.2	0.1	0.0	478
118292.4	133909.1	123374.9	108880.0	0.1	0.2	62
4554.3	4766.7	5129.2	4122.7	0.1	0.3	297
6497.2	7341.0	7781.1	7019.7	0.1	0.1	2905
4243.2	5193.2	4586.4	4800.4	0.1	0.1	573
30180.5	31237.8	33945.5	29094.0	0.1	0.2	984
13244.1	13962.9	15288.0	11483.0	0.1	0.3	627;555;627
36511.9	41026.3	39570.8	39910.0	0.1	0.0	1273
40075.3	48256.3	43524.8	42238.0	0.1	0.1	119;119;119;89
6930.3	6783.5	9209.9	8031.8	0.1	0.3	1275
7313.1	7779.1	7977.9	8496.3	0.1	0.0	275
46410.9	51459.4	66524.2	46033.0	0.1	0.4	387
20356.0	22652.6	26225.6	23587.0	0.1	0.1	250
13118.5	14835.2	14501.5	14795.0	0.1	0.1	135
13118.5	14835.2	14501.5	14795.0	0.1	0.1	142
1428.5	1999.4	1618.8	1739.9	0.1	0.4	1263;1263
1428.5	1999.4	1618.8	1739.9	0.1	0.4	1263
17680.5	19452.8	20585.3	18655.0	0.1	0.0	1248
27987.3	31159.7	33424.0	30919.0	0.1	0.0	4923;6289
9373.7	10799.7	11711.3	9733.6	0.1	0.2	368
9749.1	9514.3	9933.6	10606.0	0.1	0.1	615
8781.0	11484.7	10030.3	9883.1	0.1	0.2	71
5346.0	5737.7	5188.7	5425.4	0.1	0.1	1032;651
7671.0	8387.5	8799.5	8531.9	0.1	0.0	534;744
14533.4	18589.3	18105.0	16553.0	0.1	0.2	969
4004.7	4563.6	4780.2	3941.0	0.1	0.3	500
7711.0	9029.3	8147.9	8456.8	0.1	0.0	81
8553.1	10658.3	8782.5	8269.1	0.1	0.3	843
17308.9	26417.7	16959.4	15397.0	0.1	0.6	198
151434.7	162970.0	163609.4	159320.0	0.1	0.0	11
38617.8	41493.8	44542.1	40452.0	0.1	0.1	135
21746.4	32320.1	21907.2	22263.0	0.1	0.5	127;118
13781.8	15062.8	15631.1	14047.0	0.1	0.1	451
1293.3	1307.2	1117.7	1470.2	0.1	0.4	1231

Fgf13	0.577231	7.16E-05	54.898	S(0.577)RS(0.4)VS(0.023)GVLNGG	3	1.9489	2545.1	2792.9
Dock10	0.999736	0.0080943	69.672	SQT(1)LPIIR	2	0.022927	6917.8	7403.7
Lmna	0.990008	9.49E-18	71.309	S(0.003)VGGG(0.99)GGGS(0.007)F	3	-0.72554	36115.5	36901.3
Ppp1r14a	0.964139	1.20E-08	98.592	GPGGS(0.964)PS(0.036)GLQK	2	-1.4402	102663.5	115066.4
Tnk2	0.993864	9.99E-07	61.11	Y(0.994)AT(0.006)PQVIQAPGPR	2	-1.1853	7927.4	7126.9
Tns1	0.993057	2.22E-35	153.56	AGS(0.993)LPNYAT(0.007)JINGK	2	-1.0545	37161.5	30142.1
Ncoa2	0.93548	0.00409876	60.893	MS(0.935)PGVAGS(0.065)PR	2	0.92849	7418.8	7219.7
Etl4	0.979551	2.46E-32	135.55	SSIAS(0.001)T(0.02)PLS(0.98)PQA	2	-0.7214	18248.0	17073.5
Zwint	0.998556	1.56E-06	79.652	LDGS(0.999)HQELET(0.001)LK	2	0.18523	41302.5	34467.3
Cpeb1	0.522541	3.39E-23	67.799	S(0.139)S(0.139)S(0.523)PS(0.157	4	2.0681	6804.5	7190.2
Ttc28	0.980936	1.80E-32	77.149	S(0.019)GGPAS(0.981)PDREDGVV	3	-0.73516	14443.3	16474.6
Map1a	0.54318	4.94E-10	57.366	STPS(0.001)QVT(0.543)S(0.404)AE	4	-1.0133	20747.9	24211.1
Med26	0.996664	1.66E-24	99.407	ADS(0.997)PVPT(0.003)EQLPR	2	0.27703	57912.9	63753.8
Mff	0.997944	6.07E-24	126.31	NDS(0.998)JVT(0.002)PSPQAR	2	0.18862	69269.6	68047.1
Deptor	0.981389	5.15E-24	96.143	SPS(0.001)S(0.007)QET(0.981)HD	4	-0.435	21250.0	24388.8
Rnft2	0.960654	2.47E-10	59.561	S(0.002)QALS(0.038)PEAS(0.961)V	3	0.9067	17837.7	17875.3
Ppp2r5d	0.940734	1.23E-16	97.214	RPSNS(0.059)T(0.941)PPPTQLSK	3	0.98229	10197.1	10707.3
Arhgef4	0.976183	0.018666	42.243	RKS(0.976)EPT(0.024)IK	3	-1.4591	24779.1	24497.4
Tspyl4	1	3.84E-09	61.477	NGCQLAGPLS(1)PAKPK	4	0.71957	79843.9	78822.1
Zkscan3	1	9.94E-06	74.587	MEDVAPGLS(1)PR	3	0.041104	14451.7	15574.0
Dpysl2	0.999845	1.04E-22	142.73	RAS(1)GEPVESGR	2	0.13056	9314.8	9000.8
LOC50068	0.999023	6.79E-08	93.237	RGYS(0.999)YDDS(0.001)MESR	3	0.098083	5787.8	6423.5
Chgb	0.793894	5.75E-23	76.799	NHPDS(0.03)ELES(0.088)T(0.088)/	3	-0.1957	2048.8	2866.0
Hn1	0.779698	1.71E-15	83.404	S(0.02)NS(0.78)S(0.2)EASSGDFLDL	4	-1.0427	2715.3	2727.0
Cpeb2	0.958892	0.00200517	64.64	T(0.026)S(0.01)S(0.959)PQDFS(0.C	2	0.52454	18975.5	20860.0
Pxn	0.613468	1.58E-05	44.391	YAHQPPS(0.168)PS(0.613)PIY(0.	4	1.1042	5063.6	5375.0
Irs1	0.57686	7.55E-09	46.847	RHS(0.577)S(0.191)AS(0.232)FEN\	4	2.245	6079.7	5944.3
Prrc2b	0.999921	0.0247692	54.584	SYCAS(1)PGR	2	-0.74513	7141.6	5528.2
Tsc22d1	0.737849	4.38E-71	98.367	KLS(0.738)T(0.245)AGS(0.012)S(0.	4	0.09332	49487.8	49141.8
Khdrbs1	0.555768	7.47E-05	57.746	LT(0.556)PS(0.352)RPS(0.093)PLPI	3	0.00019945	8042.7	7458.5
Mpz	0.8331	0.00948216	68.536	S(0.159)T(0.833)KAAS(0.008)EK	2	-0.082945	13653.8	11499.0
Tns1	0.731098	2.22E-55	93.339	QVMGPGSGPGFHGNVVS GHPT(0.05	5	-0.96441	18097.7	16690.7
Map9	0.846363	1.17E-08	119.52	RT(0.154)S(0.846)FQDELIR	3	-0.28721	16419.6	19003.0
Prdm8	0.907445	6.46E-05	47.639	S(0.071)FS(0.907)QLS(0.021)PLVL	3	-0.25371	1214.1	916.8

2742.1	3123.8	3046.0	2792.0	0.1	0.1	173
7331.0	7768.2	8467.9	7779.8	0.1	0.0	1321
39059.6	39950.5	45883.3	38478.0	0.1	0.2	633
104531.9	112360.9	125469.5	119630.0	0.1	0.1	26
8126.6	8873.2	8680.9	8158.8	0.1	0.1	827
33095.5	36633.1	38944.6	35789.0	0.1	0.2	1552
6882.2	7523.3	7909.0	8439.3	0.1	0.1	493
18008.4	19336.2	20477.4	19347.0	0.1	0.0	1688
37464.8	43283.4	42823.8	39508.0	0.1	0.1	209
7203.3	7956.1	8355.9	7204.4	0.1	0.1	181
16758.5	18327.5	16678.3	17893.0	0.1	0.1	2182
21035.2	31588.6	20948.6	20686.0	0.1	0.6	2866
62163.4	68119.4	67310.7	68549.0	0.2	0.0	425
68247.8	81431.1	76345.0	70328.0	0.2	0.1	146
21128.9	27404.4	24420.7	22267.0	0.2	0.3	140
18248.0	20029.2	21551.3	18301.0	0.2	0.1	39
11309.7	11661.8	12999.0	11089.0	0.2	0.1	132
24298.3	28593.5	24470.9	28588.0	0.2	0.1	642
85489.7	95273.0	93165.4	82535.0	0.2	0.1	117
16470.0	15809.7	17688.2	18106.0	0.2	0.1	223
10434.1	10473.9	11449.5	9987.1	0.2	0.2	86
5961.0	7409.0	6133.3	6628.3	0.2	0.2	54
2995.2	3371.6	2507.5	2900.9	0.2	0.5	397
2757.7	2950.2	2773.7	3378.1	0.2	0.2	82
19761.9	23354.3	22193.6	20610.0	0.2	0.1	156
5879.4	5640.3	6464.7	6009.6	0.2	0.1	85
6108.7	6205.1	7614.5	6312.2	0.2	0.2	1135
5957.8	6718.1	7432.0	6531.7	0.2	0.3	808
45349.5	51252.6	58457.0	50148.0	0.2	0.1	265
7108.1	8105.3	8815.2	8182.4	0.2	0.1	33
12629.8	13902.4	13037.5	15010.0	0.2	0.2	229
19428.7	20174.4	21499.0	18525.0	0.2	0.2	1390
18310.8	19254.8	19591.4	20818.0	0.2	0.1	23
956.8	974.9	1348.5	1105.4	0.2	0.5	510

Ap1ar	0.919897	0.00841078	43.979	AGGGS(0.92)KY(0.08)FR	3	-0.59221	16845.4	17382.8
Msl1	0.520297	6.30E-08	45.639	LKEPGPPLAS(0.019)T(0.047)QGGG	5	0.11601	3927.5	4158.6
Specc1l	0.65296	8.19E-06	40.706	HS(0.314)IS(0.653)GPVS(0.018)T(C	4	0.30356	12162.9	12963.3
Ccdc8	0.970432	1.17E-21	83.404	AEAT(0.03)AS(0.97)PGAEAAASPK	3	1.6912	8924.8	7828.7
Mast4	0.694093	2.41E-08	60.062	S(0.152)LS(0.694)Y(0.001)S(0.152)	3	0.24769	10640.0	10580.3
Dctn1	0.830935	0.00329992	48.532	MS(0.033)T(0.136)EAS(0.831)ARP	2	0.4141	6030.9	5448.3
RGD15598	1	0.000358955	77.185	RGGELPGS(1)RR	2	0.0056997	176910.1	167487.9
Epb41l3	0.985178	0.0047511	74.306	S(0.985)YDT(0.013)VS(0.002)GR	2	-0.45066	6325.7	5407.8
Ccdc92	0.752139	1.13E-38	81.532	LLS(0.002)S(0.01)S(0.042)GT(0.75	5	0.12965	15937.8	15189.0
LOC103691	0.99101	1.61E-09	99.069	TELGS(0.006)QT(0.991)PES(0.002)	2	1.282	7034.3	6567.0
Kcnj3	0.881858	7.94E-09	94.402	IS(0.118)S(0.882)VPGNSEEK	3	-0.38444	15374.8	15931.6
Larp6	0.979634	0.000319321	74.78	S(0.019)PGAS(0.98)PLLS(0.002)R	2	-0.11498	19798.5	20970.8
Tiam1	0.991356	3.86E-14	81.643	SNATNSSYS(0.991)PPT(0.008)GR	2	0.38604	4412.9	4324.4
LOC100911	0.629113	0.000362488	42.028	GS(0.095)S(0.24)S(0.629)PT(0.033	3	0.87834	9314.0	10944.8
Frmd4a	1	0.00852331	43.897	LANMGs(1)KKGK	3	-0.47331	13831.5	14658.1
Snrk	0.790639	0.00196315	117.28	S(0.085)AS(0.791)PS(0.125)NIK	2	-0.050146	64792.3	80459.8
Kcnab2	0.720529	0.00338427	81.784	S(0.243)S(0.007)LVIT(0.03)T(0.721	2	-0.62056	8170.3	7553.5
Camk4	0.777549	5.64E-24	96.143	LGS(0.005)AS(0.041)S(0.171)S(0.7	3	-0.066904	14884.6	15997.4
lqsec1	0.996796	1.38E-17	109.83	SALSS(0.003)S(0.997)LR	2	-0.54905	45678.4	42320.1
Epb41l1	0.859158	2.65E-08	91.616	RLPS(0.859)S(0.141)PAS(0.982)PS	3	-0.036957	21021.0	22419.8
Rap1gap2	0.984204	0.000323878	64.688	NQS(0.016)RS(0.984)PIK	3	-0.51117	62238.8	58171.6
Myo9a	0.997823	0.00349576	63.864	KGS(0.998)PCQS(0.002)R	3	0.81809	18617.7	18616.8
Ptpn13	0.575462	0.000338438	52.891	T(0.211)S(0.211)S(0.575)PHIDVLSI	3	-1.429	5899.8	6386.1
Errfi1	0.893834	0.0017663	84.687	QS(0.106)S(0.894)EGSAK	2	-0.7543	23705.7	24331.8
Epb41l3	0.729565	2.07E-09	52.97	T(0.199)ET(0.73)IET(0.07)EVEPT(0	4	2.5744	5908.7	5347.5
Mon1a	0.540235	1.82E-32	93.196	S(0.449)YEDLT(0.54)ELEDREAS(0.0	3	-0.90766	40701.4	41029.0
Mark1	0.645585	0.0172928	46.955	S(0.056)MS(0.131)T(0.646)S(0.168	3	0.33161	7937.8	7952.4
Kif5b	0.995807	4.57E-83	129.77	GHSAQIAKPIRPGQHPAAS(0.996)P	5	0.56638	179176.2	190654.8
LOC68570	0.832144	0.000219373	43.946	LELVES(0.832)LDS(0.168)DEVDLK	3	-0.0080717	7856.8	6197.6
Pdlim2	0.91592	4.05E-10	86.214	VLLHS(0.999)PGRPS(0.916)S(0.085	3	0.30989	22658.5	21463.3
Arhgap12	0.751961	0.000881108	47.302	GS(0.003)S(0.088)MDS(0.752)S(0.	3	-0.55063	38298.1	37761.3
Enah	0.786887	5.44E-27	83.602	NS(0.003)RPS(0.193)S(0.787)PVN	5	0.46477	44349.8	41795.7
Tns1	0.719202	2.40E-32	72.959	VS(0.062)S(0.196)S(0.719)PVANGI	4	-1.0126	6133.8	6350.0
Slc43a2	0.550023	0.00234266	53.448	LCLS(0.45)T(0.55)VDLEVK	2	0.005297	3362.8	3024.4

13072.7	17708.3	19807.3	15010.0	0.2	0.4	140
4368.5	4781.6	4425.6	4623.5	0.2	0.0	70
12069.8	13057.6	13884.9	14364.0	0.2	0.0	890
9675.5	9502.6	9236.4	10611.0	0.2	0.2	425
10986.0	12514.2	11497.5	11756.0	0.2	0.0	2199
5512.7	6355.8	6729.7	5786.3	0.2	0.1	23
180446.2	186707.2	211132.0	185080.0	0.2	0.1	43
6808.5	7263.8	6849.4	6481.7	0.2	0.2	955
16079.3	18399.0	18592.3	15442.0	0.2	0.2	158
7428.3	7535.1	8328.4	7495.6	0.2	0.1	131
18047.8	18176.8	18496.1	18149.0	0.2	0.1	442
18697.2	21775.9	24138.5	20141.0	0.2	0.2	451
4615.5	5356.7	4550.7	4925.0	0.2	0.1	357
9097.7	13474.5	9548.7	9586.7	0.2	0.5	1659
11963.4	15566.6	17176.3	12194.0	0.2	0.4	390
63385.6	101996.0	64785.5	64999.0	0.2	0.6	351
8459.1	9001.9	9392.0	8472.0	0.2	0.1	117;147
15594.9	17768.7	17368.7	16498.0	0.2	0.0	341
44614.9	50109.8	50018.9	47204.0	0.2	0.0	924
22957.9	25122.0	25776.8	22870.0	0.2	0.1	540;532
57979.3	67371.4	73502.4	57331.0	0.2	0.3	537
19818.3	22076.2	23551.8	17764.0	0.2	0.3	1614
5679.5	6910.5	6477.6	6574.4	0.2	0.1	283
26086.9	27689.3	26980.1	27695.0	0.2	0.0	291
6612.0	7077.4	5808.2	6968.9	0.2	0.3	848;830;1167;613
34742.5	42945.7	49903.5	36573.0	0.2	0.4	61
7323.5	9306.1	8851.5	7638.0	0.2	0.2	557
185460.6	210499.3	204816.3	201740.0	0.2	0.0	933
6395.7	7421.9	8045.2	7258.1	0.2	0.3	657
22626.8	23946.1	26086.7	24142.0	0.2	0.0	204
36828.1	45056.5	42743.6	37649.0	0.2	0.1	565
43591.8	46604.2	50581.1	46996.0	0.2	0.0	338
5809.4	6155.6	7329.8	6845.2	0.2	0.1	1566
3163.4	3697.7	3762.5	3154.2	0.2	0.2	298

Zbtb1	1	0.0404275	47.844	MS(1)VGVDER	2	-0.36227	20107.4	18033.3
Ppp6r2	0.993505	0.00116461	103.69	KTGS(0.994)PT(0.006)AR	2	-0.59785	26837.7	24977.8
Inpp5f	1	0.0088159	78.516	GLES(1)PLKK	3	-0.63386	41177.3	36471.3
Kazn	0.90527	0.00144423	45.537	QAVRVS(0.905)PCHS(0.095)R	3	0.53948	5779.2	5897.9
Lpar1	0.914482	2.98E-11	54.521	S(0.006)AS(0.018)S(0.061)LNHT(0	4	-0.8132	12863.0	12026.6
Enah	0.998953	4.03E-70	117.33	KVS(0.999)RVEDGS(0.001)FPSGGM	5	-0.57885	60613.2	63409.4
Tacc2	0.499988	1.66E-51	112.33	GNSGANPGAGT(0.5)S(0.5)PASQES	3	0.82977	4136.9	3956.9
Tacc2	0.499988	1.66E-51	112.33	GNSGANPGAGT(0.5)S(0.5)PASQES	3	0.82977	4136.9	3956.9
Ccny	0.517849	9.79E-12	65.064	NAHS(0.987)RLES(0.443)Y(0.006)F	3	0.11163	19784.2	24399.8
Epb41l1	1	0.0297536	55.806	LAPNT(1)PGK	2	0.35215	13203.0	11922.4
Peak1	0.9726	1.24E-17	73.138	GLDVES(0.002)Y(0.025)ES(0.973)L	4	-0.57506	9347.3	8274.4
Kif16b	0.704563	7.74E-06	51.727	SGLLS(0.005)S(0.015)FS(0.047)LS(	3	1.0734	4407.7	4210.9
Sept4	0.528993	7.65E-09	50.271	ES(0.471)GT(0.529)DFPIPAVPPGTI	4	1.132	10068.6	10209.3
Stk38l	0.709813	0.0168664	61.593	GS(0.148)IPT(0.71)Y(0.142)MK	2	-1.9221	17879.5	20151.4
Tanc1	0.932857	3.63E-11	52.96	RADNCS(0.933)PVAEEET(0.02)T(0.	5	0.16919	6219.6	6145.0
Map2	0.790277	4.99E-08	53.958	LPS(0.21)S(0.79)FAEPLDKEETEFK	4	1.9569	5117.9	4695.6
Btbd10	0.964963	0.05817	52.867	NVT(0.009)S(0.965)PT(0.026)R	2	0.0086924	8338.9	9091.1
Map9	0.5	4.80E-08	119.52	RT(0.5)S(0.5)FQDELIR	2	0.42548	11458.8	13371.4
Zfp318	0.996915	0.000269299	114.45	S(0.997)PT(0.003)ALSQK	2	-0.055685	67139.5	57047.2
Wnk2	0.680882	0.000192042	44.998	TPSLT(0.005)QQS(0.313)QPS(0.68	3	-1.3848	7067.5	6729.6
Srrm2	0.7307	0.0354639	50.978	S(0.014)RT(0.255)S(0.731)PVSR	2	-0.75501	2261.8	3146.8
Mast4	0.6006	1.38E-07	54.764	NFS(0.388)PS(0.601)AS(0.011)AHF	3	-0.52391	5066.6	4696.1
Atxn2	0.951268	2.80E-17	69.361	LQPSS(0.001)T(0.003)S(0.045)ES(C	3	-1.2048	16394.6	16063.2
Psmb6	0.999998	1.82E-19	70.345	GAVSAPAFGPEALT(1)PDWENR	3	0.24148	3754.0	3873.9
Sorbs1	0.963914	5.39E-36	104.18	DDSDLHS(0.015)PRYS(0.964)FS(C	4	-0.28461	64593.1	66326.1
Camk2b	1	0.000492168	94.767	QET(1)VECLKK	3	-0.3522	150337.2	103631.0
Ahdc1	0.993261	1.80E-60	106.94	GS(0.993)PVAVGNS(0.003)GAGT(C	3	1.9468	15522.7	16222.3
Nckap5l	0.521642	0.000434817	53.3	T(0.022)PS(0.437)T(0.522)S(0.019	2	-0.61096	4524.5	3377.7
Crybg3	0.867284	3.33E-24	93.776	KAS(0.867)LDS(0.106)PT(0.012)T(	3	0.76867	19797.3	17981.7
Rest	0.999888	7.03E-08	59.728	SAPDLPAPPS(1)PLPK	3	1.2198	3752.2	3452.2
Brap	0.999224	2.04E-22	87.352	TLAS(0.001)AAACLEGKS(0.999)PG	4	-0.63883	7348.8	6743.0
Acly	0.992014	8.39E-60	201.21	TAS(0.992)FS(0.008)ESR	2	-0.70618	199523.3	174244.9
Rltpr	0.513527	8.55E-18	71.872	GS(0.514)PS(0.486)PAAPGPPAGPI	3	0.59093	7767.7	8891.2
LOC10036	0.92919	2.42E-10	67.997	KAVVLPGGNAT(0.929)S(0.071)PK	3	-0.62906	5452.7	5381.9

18534.4	20162.3	21833.5	20993.0	0.2	0.1	393
25233.1	28842.0	29059.6	27732.0	0.2	0.0	655
43570.5	44682.6	48589.1	41459.0	0.2	0.2	935
5317.6	6853.2	6344.3	5692.4	0.2	0.2	304
11107.4	12994.9	14987.7	12029.0	0.2	0.3	351
59641.2	64026.5	73127.3	66998.0	0.2	0.1	619
4096.7	4351.6	4483.6	4716.5	0.2	0.0	306
4096.7	4351.6	4483.6	4716.5	0.2	0.0	305
21710.2	23799.8	23871.4	25585.0	0.2	0.2	30
11398.1	13119.2	14258.9	13228.0	0.2	0.1	1212;1204
8284.3	10007.2	10031.8	8762.9	0.2	0.2	1204
4134.2	4459.5	4428.2	5291.1	0.2	0.2	575
9525.9	10910.7	11064.7	11162.0	0.2	0.0	764
18331.0	23857.0	20561.8	18256.0	0.2	0.3	457
6823.0	7236.5	7243.3	6857.3	0.2	0.0	267
5417.4	6154.6	5830.5	4952.2	0.2	0.2	252;166
7603.8	8853.2	9603.8	9381.9	0.2	0.1	100
12576.6	13333.7	13483.1	14782.0	0.2	0.1	22
65531.9	74560.8	72446.6	63975.0	0.2	0.2	1971
5911.5	8082.4	7342.1	6493.2	0.2	0.3	1570
3233.9	3087.7	2932.1	3591.6	0.2	0.4	1852
5147.3	5571.3	5381.4	5629.1	0.2	0.0	74
16495.6	18141.6	19689.8	16611.0	0.2	0.1	585
4381.4	4140.8	4891.8	4323.3	0.2	0.2	22
66496.5	72517.0	75531.8	71507.0	0.2	0.0	419
107337.2	142103.8	135685.7	124040.0	0.2	0.4	287;287;287
15376.6	16826.1	16696.5	18885.0	0.2	0.1	891
4600.0	4867.3	4641.4	4396.2	0.2	0.3	1287
18946.4	19714.6	22135.9	21240.0	0.2	0.1	1117
3819.8	3775.5	4219.0	4266.8	0.2	0.1	843
6961.9	7763.1	8417.8	7236.9	0.2	0.1	52
172642.3	204383.5	211078.5	192350.0	0.2	0.1	455
7693.1	9843.9	8313.3	8931.5	0.2	0.2	951
4728.2	5000.1	6039.0	6273.1	0.2	0.3	431



Kat7	0.757632	0.00319468	50.95	SQQQPT(0.758)PVT(0.242)PK	2	0.12104	4130.6	3915.9
Bach1	0.979333	1.95E-08	118.31	IS(0.021)ES(0.979)PEPGQR	2	0.26352	10875.0	9234.2
LOC10091	1	0.0107842	55.314	AET(1)PGPQIK	2	-0.39331	7603.3	7295.1
Gpr126	0.580567	0.00280503	83.358	S(0.001)S(0.002)S(0.21)T(0.581)T(	2	1.4608	33096.9	30746.5
LOC10091	0.995539	4.49E-36	104.81	S(0.996)IQDLT(0.004)VTGTEPGQV	3	-2.7827	32581.6	31224.8
Mpz	0.999944	1.93E-13	104.94	AGGRGS(1)AMESSK	3	-0.65541	355835.9	302474.3
Hivep3	1	0.0183109	53.124	KADGS(1)PR	3	1.3558	9453.1	11071.2
Rbbp6	0.980252	0.000153223	54.898	LGY(0.02)LVS(0.98)PPQQIR	2	1.4406	12234.5	12307.4
Flna	0.617837	6.47E-41	108.08	IPEISIQDMT(0.2)AQVT(0.158)S(0.6	3	0.02162	12048.4	11087.6
Epb41l1	0.779304	4.06E-17	93.215	KES(0.097)GS(0.779)S(0.081)LS(0.	3	1.1022	7752.1	5788.6
Hmgn3	0.975063	0.01817	56.916	S(0.025)ARLS(0.975)AK	3	-0.59788	7949.4	6756.6
Zbtb16	0.992104	0.000279989	65.251	S(0.001)KEGPGT(0.992)PT(0.007)F	2	0.0033909	41324.0	41692.6
Hmbs	0.99998	0.00279648	81.017	ILDALS(1)K	2	-0.39958	9120.1	7999.1
Ablim1	0.944491	6.54E-59	107.3	SGLHRPVSTDFAQY(0.041)NS(0.94	3	-0.010474	39393.0	45535.1
RGD15611	0.98518	2.34E-12	71.376	KPS(0.003)VGVPIS(0.985)PS(0.01	3	0.72159	43015.2	43266.7
Arhgap31	1	0.00147327	73.499	GQRLS(1)VEK	2	-0.25131	76366.1	64697.1
Zc3h13	0.994221	0.0320971	76.843	T(1)PS(0.994)PS(0.006)YQR	2	2.3869	5206.5	5835.0
Zc3h13	0.999975	0.0320971	76.843	T(1)PS(0.994)PS(0.006)YQR	2	2.3869	5206.5	5835.0
Srrm2	1	0.00235688	94.692	MELGT(1)PLR	2	-0.22786	12489.7	12346.9
Rimbp2	0.943692	1.59E-31	89.297	S(0.004)AT(0.022)RS(0.944)PDS(0	3	-0.40037	2658.0	2437.3
Irf9	0.618905	1.62E-10	89.502	S(0.021)IS(0.361)S(0.619)VS(0.99	3	-1.448	52368.2	53877.2
Mpzl1	0.991385	1.29E-10	52.427	SPPS(0.001)AGS(0.005)HQGPVIY((	6	-0.43484	25332.5	25062.3
Golga3	1	5.48E-84	133.75	DVLQAAAAQHQQDNQEANGVQS	3	0.70684	45150.1	41091.5
RGD13048	0.686548	9.11E-05	47.037	S(0.687)PT(0.169)T(0.145)RGDAG	3	-0.50331	12863.0	15186.8
Mpz	1	2.34E-05	128	GLGES(1)RKDK	3	-0.1944	1255414.4	1096662.5
Rap1gap2	0.989318	2.57E-13	101.3	S(0.011)HS(0.989)METMVGSR	3	0.2216	8719.3	9313.7
Dpm1	0.999999	1.10E-07	100.22	SLAAS(1)QRPPQGR	3	2.543	17861.6	16715.9
Sphkap	0.745116	1.14E-07	57.366	DAVT(0.002)EGNCS(0.952)PVS(0.2	3	-1.3126	6146.4	6450.3
Akap11	0.990687	2.82E-05	110.08	VLVS(0.009)YGS(0.991)QK	2	0.47005	12073.5	11967.3
Mef2c	0.997349	0.000192042	44.998	NS(0.997)PGLLVS(0.003)PGNLNK	3	1.758	1077.7	998.5
Map1a	0.893147	8.40E-84	125.59	DLSPLNGS(0.805)T(0.195)VS(0.0	4	0.23521	24059.9	24968.0
Map4k4	0.843386	1.66E-05	90.614	S(0.007)HS(0.843)FS(0.149)DPS(0.	4	-0.23631	24314.0	21686.0
Adrm1	0.854836	1.97E-17	73.672	S(0.855)QS(0.143)AAVT(0.002)PS	3	-0.66286	8971.8	8822.4
Stard13	0.998794	3.63E-07	89.466	SSGENS(0.999)PLES(0.001)SR	2	0.25129	4803.9	3976.1

4203.6	5126.0	4373.6	4128.9	0.2	0.2	86
10451.4	11302.1	11235.7	11463.0	0.2	0.1	448
7227.1	8322.3	7788.3	8506.9	0.2	0.0	63
33074.2	35803.7	36013.3	36017.0	0.2	0.0	1152
33176.4	35932.4	37652.6	34338.0	0.2	0.0	412
328910.5	359906.8	399042.3	339820.0	0.2	0.2	260
9915.3	11512.2	11827.8	10540.0	0.2	0.1	16
11435.3	13586.7	14116.8	12341.0	0.2	0.1	517
9213.4	11866.4	8753.3	15390.0	0.2	0.6	2172
6147.3	7322.5	7970.2	6624.8	0.2	0.4	622;614
6189.5	6764.1	9500.7	6997.1	0.2	0.5	31;29;24
35411.1	44371.3	45914.3	41561.0	0.2	0.1	282
8387.1	9596.2	9648.6	9151.9	0.2	0.1	69
43182.9	47149.8	47204.1	48279.0	0.2	0.1	657;570
49033.2	52093.0	51356.9	47204.0	0.2	0.1	974
72312.6	77564.8	87448.2	72559.0	0.2	0.2	335
5373.7	6261.1	5992.6	6023.4	0.2	0.0	354
5373.7	6261.1	5992.6	6023.4	0.2	0.0	352
15269.1	15918.6	13507.7	15229.0	0.2	0.3	955
2746.9	2802.0	3298.0	2632.3	0.2	0.2	911
54987.7	52386.7	70807.3	56342.0	0.2	0.3	137
24025.8	24952.6	30671.1	27247.0	0.2	0.2	242
45910.6	47692.1	50525.5	48941.0	0.2	0.0	341
11915.5	14102.6	17702.1	12702.0	0.2	0.4	319
1048065.5	1312801.9	1334736.2	1139000.0	0.2	0.2	243
9426.7	9795.4	11166.3	9618.6	0.2	0.1	486
14627.1	18724.6	19564.7	16514.0	0.2	0.2	13
5680.1	6874.3	6519.3	6963.5	0.2	0.1	1413
11505.6	15007.9	13480.9	11104.0	0.2	0.3	307
1195.3	1312.4	1094.3	1237.3	0.2	0.2	222
26194.5	27704.7	29089.6	26994.0	0.2	0.0	2299
24475.1	25548.8	28402.4	24566.0	0.2	0.1	582;613;613
8385.7	9557.8	9852.6	9759.5	0.2	0.0	211
5299.3	5613.6	5206.5	4867.2	0.2	0.3	216

Tnik	0.995728	1.02E-32	135.38	QNS(0.996)DPT(0.003)S(0.001)EN	2	-0.17586	24283.0	21664.1
Borcs8	1	0.000565915	61.344	S(1)LPELAQHK	3	-1.2726	2173.4	1888.6
Cadm1	0.99695	1.37E-10	51.301	GADDAADADT(0.997)AIINAEGGQI	4	-0.27028	6724.1	7324.5
Dclk1	0.993986	3.50E-18	75.773	QRIS(0.994)QHGGG(0.006)STSLSS	3	0.0069695	8072.5	7823.1
Ppfia1	0.958202	3.00E-07	78.401	GALHT(0.042)VS(0.958)HEDIR	3	-0.65355	3934.3	4230.7
Crip2	0.947418	4.80E-43	81.205	GVNIGGAGS(0.947)Y(0.006)IY(0.0	4	0.0072677	14966.9	15307.4
Camsap1	0.5304	4.55E-48	90.363	S(0.53)IS(0.461)KDS(0.008)LAS(0.(	4	-0.82907	9001.2	8486.8
Frmd4a	0.984393	1.10E-53	150.61	LLGSENDT(0.016)GS(0.984)PDFYT	3	0.50383	9218.5	9947.2
Tbc1d22b	1	2.72E-15	100.45	QQS(1)LPLRPIIPLVAR	3	-0.66864	17135.2	16374.7
Mapkapk5	0.706996	2.29E-06	40.43	VDQGDLMT(0.707)PQFT(0.251)PY	3	-0.30965	5975.8	5506.5
Mlf2	0.997487	2.24E-22	143.81	LAIQGPEDS(0.997)PS(0.003)R	2	0.62537	68315.5	82031.7
Prkce	1	4.11E-05	61.167	KALS(1)FDNRGEEHR	5	0.1026	29713.2	30198.1
Nf1	0.564533	0.00111931	57.532	HGS(0.435)AS(0.565)QVQK	3	-0.16291	27195.5	24411.8
Clvs1	0.929411	1.18E-13	75.533	S(0.026)QS(0.929)VVEAGT(0.045)	4	-0.65456	18459.1	16687.4
Tns1	0.908123	3.05E-11	54.521	SYSPY(0.002)DY(0.022)QLHPAAS(C	4	0.5041	8482.6	7619.1
Exosc10	0.947298	1.32E-05	50.202	QPS(0.947)LFDEGKEET(0.04)S(0.0	3	1.5314	18905.2	24197.9
Kif3c	0.50972	2.42E-18	60.649	S(0.014)WCQS(0.345)PQRPPPPS(C	4	0.10865	10470.3	9551.7
Mcf2l	0.71693	0.0110828	42.031	AKS(0.717)EMS(0.283)EPR	3	0.71696	11544.9	10563.3
Lnp	0.527906	3.25E-38	86.182	LGS(0.367)PAT(0.528)S(0.105)VPC	3	-2.6955	12044.9	11571.4
Tusc2	0.66065	9.59E-26	71.67	GLWPFAS(0.661)T(0.17)T(0.17)GC	3	-2.7172	6315.0	6150.9
Tom1	0.680499	4.56E-21	123.28	QQS(0.319)T(0.68)GAIPATQAR	2	0.067015	9981.9	7792.3
Camsap3	0.969383	7.57E-07	53.768	APSPS(0.003)GLMS(0.969)PS(0.02	3	0.19084	11254.8	11115.0
Rnf216	0.999922	0.00399328	46.069	S(1)PGAPCQECSR	2	0.09546	4207.8	4880.9
Rb1cc1	0.520272	0.000144689	48.131	TTNT(0.003)S(0.004)LLT(0.472)S(C	3	0.8508	9281.7	8785.5
Ubxn4	0.53896	7.05E-12	72.88	NTELCET(0.254)PT(0.539)T(0.193)	2	-0.56099	13921.0	13580.9
Kcnt1	0.924071	0.00587764	91.867	KS(0.07)S(0.924)CS(0.005)NK	2	-0.20533	8763.3	8390.3
LOC10091	0.99936	4.85E-25	100.04	SSSSSGVPY(0.001)S(0.999)PAIPNK	2	1.1006	42476.1	45101.8
Riok3	0.984743	5.95E-05	98.156	VS(0.015)IS(0.985)FENYR	2	1.7123	10959.4	9684.6
Synj1	1	3.52E-83	117.21	NQPS(1)PQAGLAGPGPSGYGAARP	4	0.43348	25020.0	28072.2
Setd3	0.633196	3.65E-10	98.352	T(0.174)QKS(0.633)GT(0.174)GAT	3	-0.12554	65651.0	64029.1
Bnip3	0.819995	1.10E-05	43.696	S(0.008)QT(0.074)PQDT(0.82)NRA	3	-1.8574	6714.0	6646.8
Pacs2	0.990836	2.78E-06	59.116	ANS(0.009)LDNERCPDT(0.991)R	3	0.58774	12929.8	13736.7
Atxn1l	0.977481	1.39E-55	132.36	VEVAAPT(0.012)HRGT(0.977)PDT(	3	-0.32075	21959.6	18622.3
Camk2b	0.956976	0.000335367	85.672	IS(0.957)DILNS(0.043)VR	2	-0.49841	14065.3	14468.3

26730.0	26842.3	27906.6	26232.0	0.2	0.1	556
2004.2	2273.6	2438.9	2046.8	0.2	0.2	42
6188.9	8314.4	6981.1	7255.3	0.2	0.2	397
7881.4	8115.3	9445.6	8934.1	0.2	0.1	40
4424.7	4198.3	5062.7	4768.1	0.2	0.2	762
15647.0	17126.4	16989.3	17057.0	0.2	0.0	74
9714.9	9467.5	10521.1	10326.0	0.2	0.1	508
8430.6	11199.8	9900.6	9654.0	0.2	0.2	760
15605.5	18671.8	19161.9	16906.0	0.2	0.1	154
5783.2	5942.0	6548.0	6754.3	0.2	0.1	81
68234.0	109331.6	67565.0	66742.0	0.2	0.6	237
27723.3	32196.9	37592.8	27894.0	0.2	0.3	368
22541.7	30016.8	26896.7	25739.0	0.2	0.2	2800
16555.2	19506.7	19921.7	18205.0	0.2	0.1	329
7835.3	8837.1	9488.5	8357.7	0.2	0.1	982
22121.1	18826.9	24803.2	29080.0	0.2	0.5	636
10629.8	10777.4	11569.1	11824.0	0.2	0.1	776
10350.1	11868.6	12877.2	11439.0	0.2	0.1	550
12885.4	14077.3	13050.3	13572.0	0.2	0.0	225
5528.7	6646.1	6645.1	6775.5	0.2	0.0	16
9851.6	10932.2	10698.2	9176.7	0.2	0.3	406
10579.8	11742.1	13602.8	11400.0	0.2	0.2	1084;1085
4728.8	4924.5	4882.2	5602.7	0.2	0.2	764
7290.8	9795.3	9369.4	9116.2	0.2	0.2	257
15025.3	16639.1	14839.2	15953.0	0.2	0.1	158
8988.9	9061.0	9992.0	10107.0	0.2	0.1	1166
41502.9	50924.8	48747.3	44316.0	0.2	0.1	250
10188.8	11338.4	12232.8	10824.0	0.2	0.1	112
27050.4	29047.7	31151.0	29204.0	0.2	0.1	1159
65811.9	72302.6	74526.2	71253.0	0.2	0.0	12
5800.6	7416.6	7320.1	6639.6	0.2	0.1	70
11958.1	14081.7	15625.7	13385.0	0.2	0.2	462
22576.8	23353.2	24625.8	22490.0	0.2	0.2	320
13414.5	16904.2	15714.4	14186.0	0.2	0.1	451;436;427

Tmem57	0.947866	1.81E-06	90.229	NASGVVNS(0.052)S(0.948)PR	2	-0.071038	12847.5	12130.8
Saraf	0.884145	0.00257264	62.894	T(0.053)T(0.053)S(0.884)GYGGT(C	2	-0.68406	14790.4	15922.8
Ppm1h	0.893454	1.44E-07	55.912	GGVGAPGS(0.893)PS(0.057)T(0.0	3	0.64581	10297.0	10039.7
Plekha4	0.988495	1.70E-22	76.606	RPPLSAGDIS(0.001)FPARPHT(0.98	4	-0.61505	30636.4	25365.1
Ahdc1	0.763749	5.99E-07	50.776	TEAVCLS(0.003)APHLAS(0.764)PP,	4	0.033967	8162.1	7829.2
Foxc2	0.994816	1.80E-05	52.372	S(0.004)EAAS(0.995)PALPVIT(0.00	3	1.949	47791.9	45994.7
Arpp21	0.707392	1.16E-17	70.02	TGSESSSSAGS(0.025)S(0.112)GS(0	3	0.19903	1479.6	1941.9
Eif4g1	0.999914	7.73E-58	102.72	ITKPGSIDSNNQLFAPGGRLS(1)WGI	4	0.67924	26921.2	28858.7
Lmod1	0.997103	0.00025124	67.704	EMS(0.997)VDES(0.003)K	3	-0.37787	22879.2	17931.3
Kif13b	0.967015	7.33E-61	145.04	SAT(0.001)IS(0.025)GS(0.967)AT(C	4	-0.20465	106315.4	93102.8
Scn1a	0.880798	0.0111757	46.069	RNS(0.881)NLS(0.055)QT(0.055)S(	2	-0.55694	2467.2	1632.6
Clasp2	0.999369	1.47E-05	66.982	IPRPSVSQGCS(0.999)R	3	-0.1749	10508.0	9999.7
Arhgap39	0.99196	3.17E-16	93.345	AFS(0.008)EDEALAQQDS(0.992)K	2	0.65464	14362.2	15676.0
Tns1	0.615676	0.00157543	40.983	HVAY(0.02)GGY(0.027)S(0.338)T(C	3	-0.70647	4534.7	4800.1
Frmd8	0.995246	0.00556971	93.467	T(0.002)T(0.003)S(0.995)FFSR	2	-0.68885	27274.2	25326.7
Gpr56	0.932166	2.00E-59	143.36	NNSDS(0.932)AKLPIS(0.057)S(0.01	3	0.30416	45548.4	41815.5
Limch1	0.655402	6.11E-08	58.461	PKS(0.025)PEPEAT(0.319)LT(0.655	3	-0.75049	8461.5	6289.6
Kcnd1	0.998559	7.56E-10	65.043	GS(0.001)MQELDT(0.999)LAGLRR	3	-0.06627	3790.5	4584.7
Itgb1bp1	0.711713	8.94E-13	73.093	HS(0.141)S(0.712)S(0.141)S(0.006	3	0.38702	12560.1	12866.8
Ahdc1	0.999955	0.00494084	67.032	S(1)PPYEGK	2	0.57514	36992.1	33165.2
Arhgap39	0.690612	0.00904766	78.113	S(0.207)S(0.691)LT(0.102)PVK	2	-0.073611	17728.0	16904.6
Ripk2	0.760318	1.79E-13	69.03	RAS(0.76)S(0.223)CS(0.013)LT(0.0	4	1.2336	6467.3	4990.7
Tmcc2	1	6.86E-39	83.36	NKFGS(1)ADNIAHLKDPMEDGPPEE	4	0.58012	106028.0	94262.3
Pkp4	0.85647	3.72E-27	102.61	AAS(0.005)PY(0.003)S(0.064)QRP,	2	0.54542	39573.1	30362.6
Srpk2	0.757891	5.62E-16	126.1	S(0.055)S(0.077)S(0.758)S(0.11)EF	4	0.38119	38220.6	54408.1
Txnrd3	0.953335	0.000244671	87.713	AQT(0.047)S(0.953)PGQGK	2	-0.19141	62001.4	59843.3
Limd1	0.61395	1.48E-59	94.149	S(0.372)FES(0.614)GQDS(0.005)GI	4	0.82523	8655.4	8235.5
Eps8l2	1	0.0133496	50.354	QPGDS(1)PQAK	2	1.1403	4003.0	3813.2
Sipa11l	0.995473	0.0206732	59.418	RS(0.005)PAS(0.995)IDR	2	-0.55946	11674.5	12628.8
Secisbp2l	0.96674	3.67E-12	63.46	SQPCLT(0.001)S(0.013)FNS(0.967)	3	1.5811	12086.6	12479.6
Ppp2r5d	0.997462	5.02E-16	108.96	RKS(0.997)ELPQDVY(0.002)TIK	4	0.34099	51715.8	49887.7
Akt1s1	0.763221	0.00308554	115	LNT(0.763)S(0.237)DFQK	3	0.63949	62607.3	56720.4
Mtmr1	0.859265	3.50E-17	95.067	GPS(0.138)PT(0.859)HS(0.002)API	3	0.55938	23347.9	23701.0
Wrnip1	0.991533	2.86E-09	81.992	ESYDAPPT(0.992)PS(0.008)GAR	2	0.52352	10008.6	10220.6

12751.2	15263.0	14383.9	12451.0	0.2	0.2	281
15631.1	16986.7	17431.7	17296.0	0.2	0.0	326
9970.7	12074.3	11273.1	10472.0	0.2	0.1	220
25358.7	30195.0	31487.6	29106.0	0.2	0.2	271;199;271
9290.0	9124.5	10046.3	9041.4	0.2	0.1	1496
49572.9	51225.1	54194.1	54572.0	0.2	0.0	218
1348.7	1704.3	1505.6	2114.0	0.2	0.5	420
21249.2	29340.3	33089.5	23545.0	0.2	0.5	1087
20282.5	22373.2	20373.7	25445.0	0.2	0.3	85
107795.0	112305.9	124112.3	106500.0	0.2	0.2	1888
2228.4	2361.6	2489.0	2213.2	0.2	0.4	620
12125.2	10498.6	13863.5	12065.0	0.2	0.3	538;748
15653.4	18224.1	16357.7	16424.0	0.2	0.1	609
4936.9	5562.4	4859.2	5510.1	0.2	0.1	1480
26492.6	32257.4	27823.2	28216.0	0.2	0.1	439
38991.4	47167.4	45357.5	48535.0	0.2	0.1	672
8016.0	9620.7	7476.9	8319.6	0.2	0.4	569;560
3857.5	3946.2	5367.1	4344.4	0.2	0.4	561
13161.1	13932.1	14712.0	14441.0	0.2	0.0	11
38962.7	41430.0	40420.4	40005.0	0.2	0.1	1465
20155.8	20790.3	19751.7	20641.0	0.2	0.1	530
6004.4	6678.3	6769.2	6054.3	0.2	0.2	411
99867.7	116782.7	113212.1	105220.0	0.2	0.1	377
42944.5	42980.9	39384.9	43700.0	0.2	0.3	280
36805.7	53381.0	37386.5	53793.0	0.2	0.6	10
66447.5	70805.5	73629.6	65862.0	0.2	0.1	16
11443.8	10641.8	11400.3	9604.4	0.2	0.4	236
4323.2	4429.5	4365.3	4764.1	0.2	0.1	172
12633.0	13736.3	14004.6	13515.0	0.2	0.0	1223
12311.5	13635.1	14499.4	13056.0	0.2	0.0	548
50401.2	56247.5	58415.3	55120.0	0.2	0.0	642
66864.8	71368.7	69847.6	66768.0	0.2	0.1	247
25579.1	26913.8	29478.5	24736.0	0.2	0.1	654
9725.1	11998.4	11267.8	10198.0	0.2	0.1	116



Rltpr	0.78221	6.02E-27	77.231	RT(0.206)S(0.782)PAPDILS(0.012)I	3	-1.4913	5615.4	5460.3
Snx17	0.924355	0.00729445	68.132	S(0.924)DS(0.076)QQAVK	2	-0.16343	61083.1	54269.9
Rasal2	0.999814	7.39E-22	125.41	QQSSSSRES(1)PVPK	3	-0.0025549	17292.7	14725.0
Arhgef11	0.778503	6.29E-06	66.568	S(0.779)S(0.054)S(0.019)QS(0.149	2	-0.19386	44742.2	39778.5
Camsap2	0.982752	9.20E-46	162.1	RFS(0.983)PS(0.017)QVPIQTR	3	0.47768	14531.6	17790.9
Phldb1	0.96748	7.26E-43	122.66	ELPPLS(0.967)PS(0.033)LSR	2	0.60725	15960.4	14105.2
Soat1	1	0.00115311	40.242	S(1)AENPEQDEAQK	3	-0.13734	16616.4	14908.2
Dlg2	1	0.000204436	68.676	LCDKPAS(1)PR	3	-0.75168	14842.9	13070.8
MAST1	0.999224	2.98E-26	76.492	SSSGEAGT(0.999)PPVPIVVEPARPC	4	-0.19298	6807.2	6575.5
Dmtn	0.829952	2.47E-30	85.737	S(0.052)LPDRT(0.071)PFHT(0.83)S	4	0.21252	11633.0	13681.8
Mettl3	0.997391	7.05E-12	103.14	NPEAALS(0.997)PT(0.003)FR	3	-0.70815	16674.9	17319.2
Rims1	0.997761	3.20E-19	70.145	S(0.085)AS(0.427)T(0.487)NCLRPL	4	-0.38316	19887.9	21935.0
LOC10369	0.997924	5.97E-05	101.35	S(0.002)EGS(0.998)PEHMK	2	0.22321	17631.4	19801.5
Tns1	0.531754	1.97E-75	98.85	QS(0.532)S(0.425)AS(0.043)GYQA	4	0.92484	16159.6	15659.6
Clec16a	0.991299	3.81E-09	120.59	RGS(0.991)S(0.009)DPTVQR	3	0.49215	5886.8	6265.6
Camk2b	0.656801	7.68E-121	192.11	ESS(0.006)DS(0.336)T(0.657)NT(0	3	-0.43451	16156.0	16663.2
Usp10	0.989403	0.000248044	44.89	CS(0.007)PPVPS(0.989)PLAS(0.004	3	1.0113	13207.7	15515.9
Eif4b	0.875524	8.50E-12	59.912	S(0.876)PPY(0.057)T(0.067)AFLGN	3	1.2	4040.0	3337.0
Slc35g2	0.999602	0.00010746	50.354	EDYQEILDS(1)PIK	3	-0.44343	13718.2	14950.9
U2surp	0.999115	1.81E-26	77.576	ES(0.001)LCDS(0.999)PHQNLSRPL	4	1.159	17328.4	16980.2
Shroom2	0.998651	3.91E-20	67.911	Y(0.001)HS(0.999)ADDILDAGLDQC	4	-0.23755	4857.9	5592.3
Nefh	0.593199	1.23E-26	80.316	SSSTDQKDS(0.593)QPS(0.406)EKA	5	-0.85432	30451.5	29777.9
Papd5	0.97782	3.17E-22	89.507	VGS(0.978)QDVS(0.022)LEVSQLAVI	3	-0.97131	8799.2	7962.4
Sept7	0.866083	3.40E-05	52.862	ILEQQNS(0.076)S(0.058)RT(0.866)	2	1.106	22031.2	22028.2
LOC10036	0.819257	0.000396036	61.423	NIT(0.181)LDDAS(0.819)APR	2	0.4732	9290.1	9057.8
Caprin2	0.99708	1.21E-07	86.756	HSLVPQS(0.003)QIS(0.997)LK	3	-2.0874	5469.4	5316.5
Shroom1	0.999931	2.65E-13	113.54	TAEPPS(1)PPASR	2	1.4771	38565.3	35419.4
Adam19	1	0.014815	60.478	LQT(1)PQGK	3	-1.161	5600.1	5617.5
Cadm2	0.999999	3.84E-76	109.44	GAEDAPDADTAIINAEGS(1)QVNAE	4	0.92992	14037.8	12895.3
Sphk2	0.998686	5.61E-12	59.352	AKS(0.999)ELALAPAPAPAAT(0.001	4	1.9471	45558.0	46297.5
Mbp	1	0.000212697	61.167	RGS(1)GKVPWLK	4	0.080489	53395.1	45863.1
Hm13	0.931802	5.22E-38	87.802	LT(0.008)HFPT(0.932)VS(0.052)GS	3	-0.27173	27658.2	24858.3
Map4k4	0.887036	9.01E-07	86.772	SSS(0.015)S(0.098)FT(0.887)PFIDF	2	0.93535	10860.2	10079.6
Gpr158	0.838133	0.000212715	56.569	S(0.157)AS(0.838)AHNLS(0.004)S(	3	-0.63215	5953.9	5062.3



4937.5	5957.1	6066.8	5865.8	0.2	0.0	1286
56749.7	66681.8	62827.7	62779.0	0.2	0.0	407
18211.8	19606.8	20597.0	15921.0	0.2	0.3	924
38701.9	47527.1	46830.1	43330.0	0.2	0.1	586
15764.2	20309.7	16657.0	16765.0	0.2	0.3	990
14608.0	16292.6	18063.3	15565.0	0.2	0.1	462;519
16855.4	17603.8	17966.0	18494.0	0.2	0.0	15
16361.4	16315.7	16826.9	16335.0	0.2	0.1	360
6716.7	7513.7	7972.1	6976.4	0.2	0.1	1432
11090.4	13025.7	15772.1	11890.0	0.2	0.4	278
16932.1	17692.9	20103.3	19122.0	0.2	0.1	43
22388.4	21372.2	29011.5	21392.0	0.2	0.4	1078
19055.0	23365.3	19711.1	20071.0	0.2	0.2	240
17134.3	17985.4	18158.4	18585.0	0.2	0.0	1492
5127.2	6302.1	6579.1	6437.5	0.2	0.1	761
16052.7	19174.5	18892.6	16574.0	0.2	0.1	398;374
13494.3	17444.3	15047.6	14710.0	0.2	0.2	366
4036.0	3606.9	4754.0	4399.6	0.2	0.3	93
13410.2	19279.0	14012.1	13761.0	0.2	0.4	409
15602.3	17745.6	21495.8	16568.0	0.2	0.3	67
5036.4	5990.8	5485.2	5840.8	0.2	0.1	895
30064.4	31343.4	37732.7	31891.0	0.2	0.2	1048;1018
8596.7	8819.0	10654.4	8884.5	0.2	0.2	333
21628.2	25108.8	26748.2	21601.0	0.2	0.2	425
9470.2	9902.2	10306.6	10901.0	0.2	0.0	766
5633.7	6124.9	6236.4	6001.7	0.2	0.0	526
40986.6	41674.2	45137.4	41768.0	0.2	0.1	167
5499.5	6402.1	6417.0	5877.5	0.2	0.0	771
17271.7	16713.9	17004.3	15722.0	0.2	0.3	383
48707.4	54848.4	51797.2	50576.0	0.2	0.0	364
44360.4	52346.0	61774.0	46526.0	0.2	0.3	57;57
26010.3	31511.6	27874.5	28451.0	0.2	0.1	364
9526.5	11970.9	11432.4	10676.0	0.2	0.1	941;971;908
5507.4	5967.4	6920.2	5596.2	0.2	0.2	455

Fam83f	0.999902	0.000116288	48.405	HNEGS(1)MANISGR	3	-0.63493	1828.5	1874.0
Cald1	0.520347	0.00016007	60.55	S(0.48)PDGNKS(0.52)PAPK	3	1.0729	25058.2	23074.7
Rab11fip5	0.997143	5.76E-28	148.85	RT(0.001)YS(0.997)DEAS(0.002)QI	2	0.0088131	30372.8	29032.0
Pcnp	0.999721	5.42E-11	91.076	DTPTSAGPNS(1)FNK	2	1.1738	17447.7	16834.4
Rasal2	0.717029	4.69E-11	52.773	S(0.717)IS(0.24)GT(0.011)S(0.011)	5	-1.2417	6605.1	5160.1
Hdac4	0.99981	1.36E-20	69.016	NYQAS(1)MEAAGIPVSGSHRPLSR	4	0.66219	6417.6	6997.5
Tbc1d10b	0.550703	0.00906702	40.097	AS(0.004)PVPGPGT(0.97)PT(0.551	3	1.0414	9723.2	11246.7
Fnbp1	0.622005	6.76E-43	78.913	LMTLLTSPHQPPPPPPAS(0.622)AS(	5	0.53869	9743.1	10099.2
Wipf3	0.999974	4.89E-10	78.508	AIS(1)GPLPAPASPR	3	-0.45025	4708.0	4201.8
LOC100911	0.575733	2.10E-05	61.165	S(0.576)GEGIREPIS(0.424)VK	3	0.51267	25282.4	24974.6
Ppp1r1c	0.969363	4.18E-05	72.891	QS(0.001)VY(0.03)T(0.969)PPAMK	2	0.032157	70513.6	66691.3
Cpsf7	0.811133	0.00330653	47.606	S(0.025)S(0.07)S(0.811)T(0.095)EF	2	0.6524	2322.4	2464.3
Chka	0.812107	4.97E-12	48.672	S(0.812)QPLALPPPPPPPLPLPPPPS(	4	0.17653	3735.2	3554.3
Abhd16a	0.686317	8.99E-31	71.903	AAT(0.004)S(0.014)VPET(0.686)PT	4	2.2293	2644.8	3528.4
Camsap3	0.97224	4.47E-15	91.355	AVAS(0.028)S(0.972)PAANNSEVK	2	-0.9622	27503.2	28072.2
Nedd4l	0.499999	1.10E-14	110.55	T(0.5)S(0.5)PQELSEELSR	3	-0.070619	9048.4	8617.4
Nup107	0.991888	3.00E-06	53.554	HPDISYIFGT(0.008)EGRS(0.992)PR	3	0.60165	3576.6	3698.2
Prickle1	0.915328	0.000425698	54.276	S(0.065)KS(0.915)QS(0.02)RPQQV	3	-0.10179	31950.7	29278.9
Ano3	0.98904	1.15E-12	97.235	S(0.989)LPCLAQS(0.01)Y(0.001)AF	3	0.19851	5821.2	4708.1
Sqstm1	0.975375	2.40E-57	102.6	RFS(0.975)FCFS(0.025)PEPEAEAA/	4	0.20438	4606.2	5132.6
Rabgef1	0.566366	2.82E-19	63.979	LDAQSLNLS(0.013)QEDFDRY(0.10)	3	-0.13534	14238.2	15196.7
Ahnak	0.991692	5.69E-59	105.28	LQGSGVS(0.008)LAS(0.992)KK	3	-0.97135	84172.2	80289.8
Dock7	0.76004	0.00181007	43.794	QIS(0.007)GQY(0.022)S(0.211)GS(	2	1.7043	5082.1	5389.1
Sptbn1	0.996335	6.31E-15	82.59	SALPAQS(0.996)AAT(0.004)LPAR	3	0.66007	28470.5	31959.7
Ythdc1	1	0.0198908	51.949	RMHS(1)QPR	3	0.063813	1233.8	1584.1
Nek9	0.71615	8.84E-22	76.959	SNSSGLSIGT(0.006)VVQS(0.065)S(	3	-0.54561	5001.7	6462.5
Ythdf2	0.821802	0.0018747	41.996	LGS(0.169)T(0.822)EVAS(0.005)S(	3	1.5268	2571.8	2609.7
Abi1	0.924001	0.000564181	70.345	LGS(0.924)QHS(0.076)PGR	2	-0.048958	8337.5	9122.7
Mtmr9	0.527428	6.34E-11	67.645	QLAELET(0.527)EDGLRES(0.473)P	3	-0.28035	1999.9	2017.7
Ccny	0.934536	9.54E-21	102.57	ASTIFLS(0.009)KS(0.935)QT(0.056	3	-0.60244	13596.5	14480.4
Cep170	0.790862	6.79E-13	69.361	MQS(0.791)T(0.196)GS(0.013)AM	3	-0.99106	9938.1	9692.0
Fry	0.735183	0.0209857	55.806	T(0.214)RS(0.735)S(0.041)S(0.007	2	-0.041853	19161.6	17448.6
Ctnnd1	0.996909	9.19E-16	88.574	T(0.003)LDRS(0.997)GDLGDMEPLI	4	-0.57937	9027.2	9045.6
Itsn2	0.515851	4.29E-15	54.53	AQS(0.516)LIDLGS(0.16)S(0.049)S	3	-1.3184	16911.0	15828.5

2130.7	2153.0	2389.5	1983.0	0.2	0.2	479
25713.2	29214.9	22375.3	31021.0	0.2	0.3	529;497
31018.3	33893.1	36911.0	30352.0	0.2	0.1	307;307
19833.2	18989.7	22975.8	18574.0	0.2	0.3	146
5286.1	5908.4	6515.2	6651.9	0.2	0.3	19
6685.5	7198.5	8918.8	6370.2	0.2	0.4	587
10393.5	11896.1	13101.6	10093.0	0.2	0.3	137
10250.6	11429.7	11497.5	10742.0	0.2	0.0	346
4226.9	5183.8	4457.4	5057.4	0.2	0.1	142
27726.5	29002.6	29397.3	28860.0	0.2	0.0	668
72448.9	81635.7	83777.4	69182.0	0.2	0.2	74
2914.8	3046.1	2815.7	2756.3	0.2	0.2	48
3831.5	4337.4	4102.3	4006.9	0.2	0.0	51
2710.3	3019.5	3352.4	3570.4	0.2	0.3	32
30670.2	30884.7	35195.8	30450.0	0.2	0.1	556;557
9062.1	9534.7	10534.1	9847.7	0.2	0.0	291
3136.1	4012.2	3802.2	3838.9	0.2	0.1	86
29963.3	34624.5	36908.8	30548.0	0.2	0.1	624
4412.2	6129.1	5694.4	4902.2	0.2	0.3	36
5506.3	5238.0	5985.5	5842.7	0.2	0.2	24
11800.5	15396.1	16331.0	14434.0	0.2	0.2	387
90598.9	94185.1	95732.3	95626.0	0.2	0.0	5538
5767.6	5491.3	6381.8	6306.8	0.2	0.1	30
31947.8	40460.9	31554.9	31411.0	0.2	0.3	2170
1266.3	1574.5	1521.6	1476.6	0.2	0.2	500
5932.4	5030.4	6408.3	8039.8	0.2	0.5	749
2588.8	3067.8	2846.8	2785.6	0.2	0.0	197
8127.9	9316.3	10372.5	8964.8	0.2	0.1	222;217
1696.9	2224.3	2362.8	1812.0	0.2	0.3	541
11994.3	14412.8	17584.5	12876.0	0.2	0.4	73;25
8912.7	10659.2	10833.9	10472.0	0.2	0.0	1322
15204.2	20527.4	21145.3	16355.0	0.2	0.3	2019
10384.0	11255.9	10566.0	10048.0	0.2	0.1	914
17538.9	19051.3	18631.8	18630.0	0.2	0.0	211

Vps4a	0.9162	0.000319434	51.798	SPS(0.001)DS(0.002)APT(0.018)AS	2	0.46567	2541.4	2450.8
Stac	0.942849	6.94E-15	78.78	T(0.057)NS(0.943)DVKPQADLLAK	3	1.0513	54679.6	52570.7
Usp31	0.580011	1.66E-17	94.203	ASVTSTST(0.009)S(0.04)KPS(0.58)	4	2.2034	6556.8	6459.6
Epb41l1	1	0.0200156	48.794	KKS(1)PPGR	3	1.4115	11923.8	10141.9
Bmi1	0.55771	1.50E-08	72.315	KS(0.005)S(0.031)VNGS(0.558)S(0	2	0.70741	5357.6	4369.5
Nf1	0.999998	0.00646679	85.67	SAGS(1)FKR	2	0.97355	45009.3	39392.4
Ankrd11	1	0.00232138	54.343	DIKS(1)DS(1)VAK	2	1.5441	9332.0	17345.5
Ankrd11	1	0.00232138	54.343	DIKS(1)DS(1)VAK	2	1.5441	9332.0	17345.5
Ppp1r12a	0.67216	7.98E-13	66.893	RLGS(0.672)T(0.164)S(0.164)DIEEI	3	-0.043255	19025.6	18190.1
Eif4b	0.633705	9.54E-47	140.63	S(0.014)QS(0.133)S(0.217)DT(0.63	2	0.14899	41295.3	43004.5
Prune2	0.89746	6.41E-07	118.9	RT(0.019)S(0.897)DCT(0.083)FQPF	2	-0.67476	138470.1	122086.6
Kiaa0408	0.905226	0.00902933	54.343	S(0.095)PS(0.905)APPALR	2	1.8552	9231.7	9964.4
Jam3	0.885978	0.0293705	44.349	HKS(0.114)S(0.886)FVI	3	-0.11299	2297.7	2316.1
Hmga1	0.595952	2.47E-07	56.569	KQPS(0.01)KEPS(0.394)EVPT(0.59)	5	0.63912	14302.6	13307.8
Arhgap32	0.883822	0.00016873	85.536	S(0.884)LLVS(0.038)S(0.073)PS(0.0	2	-0.12394	15483.4	16658.8
Gprc5c	1	6.90E-18	153.1	ISQDQS(1)PK	2	-0.68066	37451.3	32469.8
Ahnak	1	0.000281894	45.614	GPDINLPEGS(1)VK	3	-0.44817	9984.5	8327.9
Lrrc8a	0.779412	9.36E-05	52.372	T(0.779)KS(0.221)RIEQGIVDR	3	0.6154	12390.7	13858.4
Tmem131	0.507871	9.86E-13	71.879	EIPT(0.005)DVKGGG(0.083)FELPY(	4	2.1521	7195.1	7079.7
Plekha5	0.522574	3.53E-19	74.444	T(0.072)KS(0.275)PT(0.097)PES(0.	4	-0.23723	2946.0	3011.1
Map4k4	0.965998	2.91E-07	82.747	S(0.015)S(0.06)S(0.866)KS(0.082)E	3	0.31203	18808.6	17640.6
Mylk2	0.99251	7.25E-43	97.059	RGS(0.993)PAFLHS(0.016)PS(0.97)	5	0.28198	12704.4	18405.1
Rassf8	0.840615	0.00135232	75.819	S(0.121)LT(0.841)FT(0.039)GGAK	2	-1.5737	8900.0	11728.2
Cfl1	0.670671	1.25E-05	61.167	AS(0.329)GVAVS(0.671)DGVIK	3	0.25081	5011.5	4412.8
Pgm3	0.555425	2.80E-33	98.062	STIGVMVT(0.555)AS(0.445)HNPEE	3	-0.58753	35042.1	20051.6
Ctnnd1	1	1.26E-17	97.765	APS(1)RQDVYGPQPQVR	3	0.19025	17867.5	17920.3
LOC10368	0.857783	0.00206635	56.746	GSGGGQGS(0.134)T(0.858)NY(0.0	2	-2.0995	6910.1	7347.1
Pnpla6	0.999801	0.0227359	51.762	TSPVRGS(1)K	2	0.36426	19627.9	16697.2
Map7d1	0.676886	2.23E-30	135.8	S(0.159)AS(0.677)AS(0.159)PLT(0.	3	-0.38029	565.2	522.2
Exoc4	0.763161	1.49E-25	79.467	DASPGPLIDVS(0.048)NIS(0.189)T(i	4	-0.2074	25133.3	23966.5
RGD13079	0.503907	9.61E-23	62.487	S(0.504)VS(0.453)CS(0.043)DLTEN	4	1.3665	2655.0	3890.8
Afap1l2	0.97616	1.18E-37	145.52	KFS(0.019)EPNT(0.976)Y(0.005)JID	3	-0.27105	149395.0	127549.3
Gsk3b	0.996646	2.36E-21	143	GEPNVS(0.003)Y(0.997)ICSR	3	-0.77643	25568.7	30505.2
Atp1a1	0.974782	6.93E-06	53.453	NIAFFS(0.005)T(0.02)NCVEGT(0.9	3	1.6888	5001.5	6367.2

2910.7	2931.0	3391.3	2529.5	0.2	0.3	32
51132.6	59593.6	56892.5	60916.0	0.2	0.0	66
6449.0	7596.9	7162.2	7044.4	0.2	0.0	914
11554.6	13329.3	12784.2	11548.0	0.2	0.1	923;915
6784.5	6196.8	6031.6	6268.2	0.2	0.4	318
38321.8	47645.9	46052.1	43782.0	0.2	0.1	2810
12651.1	8682.9	18592.3	16783.0	0.2	0.7	830
12651.1	8682.9	18592.3	16783.0	0.2	0.7	832
19914.1	20943.2	23365.9	19691.0	0.2	0.1	507
44202.9	47719.6	48434.1	47807.0	0.2	0.0	500
137264.3	156513.3	146575.2	142590.0	0.2	0.1	450
9325.3	10565.6	12025.4	9362.8	0.2	0.2	626
1985.5	2391.9	2633.2	2368.5	0.2	0.1	307
15804.6	16696.3	16408.0	15537.0	0.2	0.1	42
17307.9	19104.1	18591.2	17709.0	0.2	0.0	238
34715.8	35732.2	42987.3	38523.0	0.2	0.2	434
8797.8	9257.5	10673.9	10445.0	0.2	0.2	688
12599.0	13874.9	16358.8	13295.0	0.2	0.2	215
6595.7	6785.0	9316.8	7284.0	0.2	0.4	1418
2963.8	3236.6	3609.9	3149.9	0.2	0.1	797
19702.3	20516.4	21686.0	20720.0	0.2	0.0	732;762;763
16774.5	16210.1	20691.1	16758.0	0.2	0.4	160
10502.4	11544.1	11227.2	12115.0	0.2	0.2	131
5471.4	6107.0	5598.1	4988.4	0.2	0.2	8
21878.4	32702.9	31896.9	21664.0	0.2	0.6	62
17875.3	21707.7	19623.5	18812.0	0.2	0.1	252
8543.2	7430.1	9493.0	8630.9	0.2	0.3	267
16468.9	20155.7	20338.4	18678.0	0.2	0.1	340
451.7	483.6	581.2	660.3	0.2	0.4	336
20611.5	27328.5	27312.4	23497.0	0.2	0.2	238
2975.8	3565.8	3667.7	3439.3	0.2	0.4	251
156800.5	170680.7	165618.4	149930.0	0.2	0.2	507
25435.4	37904.6	27261.1	26213.0	0.2	0.5	216;286
5448.4	6052.7	7013.9	5788.1	0.2	0.3	253

Prdm8	1	0.0181617	58.474	LEGGs(1)PAR	2	-0.20522	11953.0	10368.1
RGD13071	0.999888	6.47E-05	55.755	SDENVLDS(1)PK	2	0.83826	33482.1	36529.5
Ahnak2	0.991393	0.000350902	41.513	MPS(0.991)FGVS(0.008)APGKPTVI	4	-1.1401	1526.7	1571.4
Epb41l2	0.600324	1.32E-18	70.837	AKEVVENEQT(0.6)AAS(0.4)ELDEGI	3	0.37971	20829.0	18397.5
Tenc1	0.711822	3.12E-05	46.953	RIEHLGS(0.773)T(0.268)KS(0.712)I	5	0.17551	6220.5	6632.6
LOC68570	0.951056	2.12E-15	82.877	QKS(0.951)LT(0.049)NLSFLTDESK	4	0.92014	8426.2	8250.3
Luzp1	0.999974	1.96E-17	97.713	S(1)QENILQGFVSNK	4	-0.46906	38598.7	37687.8
Zcchc5	0.964493	0.0506527	55.064	EPS(0.964)AIS(0.036)K	2	-1.953	10819.7	11313.6
Aktip	0.822661	0.000277879	50.354	TLAGDVKT(0.823)S(0.177)PPR	3	-0.37703	12835.6	12841.6
Ahnak	1	7.04E-06	71.879	IS(1)MPDIDLNLK	3	-1.1107	20999.5	19371.5
Nelfe	0.997112	1.64E-05	52.527	SVWGS(0.003)LAVQNS(0.997)PK	3	1.0319	2476.7	2074.7
Rhbdf1	0.953392	0.000588137	86.243	RDS(0.009)T(0.009)S(0.029)S(0.95)	2	-1.1945	12674.6	13273.8
Mark2	0.772116	0.00380248	75.509	KAS(0.184)S(0.772)T(0.044)AK	3	0.5793	23605.5	25437.5
Cfh	0.981949	2.10E-09	60.489	IY(0.001)S(0.017)QS(0.982)GENIEI	3	0.78095	19255.8	20851.3
Bcl9l	0.973373	1.18E-15	64.27	RPS(0.973)DLT(0.025)IS(0.002)INC	4	-0.52289	5386.7	4809.9
Gclc	0.968777	8.56E-08	56.017	GLLS(0.023)QGS(0.969)PLS(0.008)	3	1.5126	3802.7	3397.7
Arfgap2	0.671763	0.000412715	77.26	AIS(0.328)S(0.672)DMFFGR	2	0.12596	20960.1	19960.6
Golgb1	0.54572	1.21E-15	94.487	EQVEDS(0.006)GAES(0.546)S(0.44)	5	-0.32172	45123.8	30139.9
Cct2	0.993998	0.00161834	88.948	VRVDS(0.994)T(0.006)AK	2	-0.027186	17122.1	17567.1
Epb41l1	0.988768	0.00171337	94.309	S(0.011)LS(0.989)PIIGK	3	-0.13786	39990.5	36290.3
Epb41l2	0.779152	3.27E-33	77.149	VT(0.221)EGT(0.779)IREEQEYEEEL	4	-0.26783	5719.9	5688.5
Dync1i2	0.816667	2.77E-11	55.986	S(0.817)VS(0.085)T(0.095)PS(0.00)	3	2.2013	2280.2	2556.7
Trim33	1	0.00169156	42.317	LKS(1)DERPVHIK	4	-0.22946	12408.6	8732.3
Cadps	0.979276	2.56E-05	40.177	S(0.979)HNAS(0.02)IIDMGEESENC	4	0.92669	3845.8	3626.0
Rtn2	0.844737	1.16E-05	48.354	AKIPGT(0.002)GT(0.007)LAPAAS(C	3	1.8402	13459.4	23185.5
She	0.737383	1.24E-11	69.188	KNS(0.737)ET(0.248)GS(0.015)AAI	3	0.095949	6868.5	6045.6
Map4	0.827599	0.0062674	90.919	T(0.828)T(0.171)PT(0.001)ISK	2	0.29854	27782.3	33266.1
Map7	0.885227	0.00423457	61.344	S(0.003)VS(0.109)T(0.885)MNLS(C	2	0.67008	8902.9	8812.2
Abl2	0.736931	1.63E-10	64.537	T(0.065)VS(0.737)T(0.182)S(0.015)	3	0.11519	4726.0	5247.6
Vps26b	0.999998	8.35E-09	94.487	TPGQLSDNNS(1)RQ	2	0.66337	5887.7	4868.4
LOC29415	1	1.32E-14	80.738	VEGNFNPFAS(1)PQK	3	-0.34759	21619.7	21408.5
Map2	0.591045	0.00765311	40.994	S(0.409)GILVPS(0.591)EKK	3	-1.6531	9537.9	11062.4
Api5	0.812533	1.93E-33	99.409	TSED(0.136)S(0.813)S(0.024)GS(I	5	0.70862	8618.3	10180.7
LOC69138	0.970821	2.82E-27	103.31	S(0.029)VS(0.971)HGS(1)NHAQNA	3	-0.36147	8673.3	8948.3

10730.5	12153.5	14247.2	10656.0	0.2	0.3	459
33409.5	39582.0	36981.5	39390.0	0.2	0.0	1355
1637.5	1625.3	1917.1	1767.4	0.2	0.1	4057;5423
22059.4	23656.8	23392.6	21667.0	0.2	0.1	36;36;36
5148.4	6247.4	6974.5	6962.8	0.2	0.2	82
8061.0	9882.5	10012.6	7842.8	0.2	0.2	370
40958.9	42929.2	49125.6	39413.0	0.2	0.2	612
12505.3	11617.8	14389.3	12835.0	0.2	0.2	101
10145.6	13588.9	15899.3	10682.0	0.2	0.5	29
22396.9	23423.6	22795.2	24167.0	0.2	0.1	2694
2915.6	2742.1	2832.1	2799.5	0.2	0.3	351
14266.2	14902.3	16234.8	13962.0	0.2	0.1	11
25303.3	24196.9	32845.8	26340.0	0.2	0.3	446
22231.9	22791.2	23363.8	23761.0	0.2	0.0	1142
4971.5	5340.6	5779.8	5893.4	0.2	0.1	861
3544.1	4027.4	4170.5	3854.5	0.2	0.0	8
20646.6	23164.1	25756.5	20153.0	0.2	0.2	432
27137.7	35649.7	45451.6	33787.0	0.2	0.6	907
14363.1	20927.8	18313.4	15793.0	0.2	0.3	260
40008.2	44061.1	47084.4	39326.0	0.2	0.1	1454
5985.4	6547.4	6493.6	6474.8	0.2	0.0	757;687;785
1976.9	2521.3	2562.6	2561.4	0.2	0.2	86
20009.9	14283.0	18935.3	12956.0	0.2	0.7	1119
4002.2	4657.0	3763.2	4455.2	0.2	0.2	371
16540.3	28193.1	16754.2	14736.0	0.2	0.7	460
6623.9	7194.0	7742.9	6990.4	0.2	0.1	64
30426.4	42881.9	32154.4	27625.0	0.2	0.5	1853;777
8064.6	9964.3	9948.3	9020.6	0.2	0.1	206
4300.0	5879.0	5429.6	4711.3	0.2	0.3	803
5176.4	6397.5	5752.0	5732.4	0.2	0.2	334
20919.2	24229.9	25700.9	21841.0	0.2	0.1	141
9952.6	12110.6	13111.2	9071.9	0.2	0.4	1724
8228.4	12917.9	8313.6	9105.2	0.2	0.5	461
8996.1	10495.3	9567.5	9814.9	0.2	0.0	917



Marcks	0.999987	0.000112294	83.998	LSGFS(1)FK	3	-0.058531	385676.8	406231.4
Pitpnc1	0.806467	1.20E-69	116.7	S(0.003)APS(0.176)S(0.806)APS(0.	4	-1.0427	90584.0	78667.4
Edc4	0.968906	1.72E-38	81.553	SPDVIS(0.001)S(0.001)AS(0.014)T(	3	0.9179	2660.9	2591.0
Ctnnd2	0.973907	4.81E-15	89.344	GGSPLT(0.001)T(0.015)QGGG(0.9	2	0.70318	21215.4	20695.5
Anapc1	0.682336	1.58E-06	75.143	S(0.16)PS(0.682)IS(0.157)NMAALS	2	0.015268	8078.6	8162.9
Fgf13	0.935932	0.000234111	83.204	S(0.064)VS(0.936)GVLNGGK	2	2.2752	28413.2	28251.0
Syt11	1	0.0362264	41.117	DKDGS(1)HR	3	1.0946	10613.1	10409.5
Arhgap27	0.998524	4.54E-08	46.028	NSLAPGGPACLY(0.001)LRPAAPVR	4	-0.027366	5192.8	5318.0
Map2	0.951841	5.09E-17	97.69	T(0.952)PGT(0.059)PKS(0.807)GIL'	3	-0.1387	46018.3	51600.0
Cacna1b	0.991381	1.92E-12	67.645	LAAET(0.009)QPAPNAS(0.991)PM	4	-0.5761	14866.7	13662.1
Aftph	0.897821	9.81E-08	99.844	T(0.021)HS(0.898)VS(0.077)S(0.00	2	-1.0562	9225.1	8125.2
Gpm6b	0.973776	6.38E-05	90.05	SKEQLNS(0.018)Y(0.008)T(0.974)	2	-0.17786	91173.2	82771.0
Ccdc92	0.804119	7.98E-92	124.82	LLS(0.001)S(0.003)S(0.01)GT(0.17	5	1.2021	59323.9	55094.7
Map7d2	0.979158	2.10E-15	84.581	HLSSS(0.001)IVAIS(0.019)Y(0.001)	3	0.44732	3404.0	3975.1
Ralbp1	0.719339	8.79E-22	119.87	T(0.14)PS(0.719)S(0.14)EEISPTK	3	-0.4465	42609.7	37358.7
Eif4g2	0.995629	3.24E-29	120.11	T(0.004)QT(0.996)PPLGQTPQLGLK	2	-0.28306	42496.4	40094.4
Uchl1	1	1.06E-35	108.08	NEAIQAAHDS(1)VAQEGQCR	3	-0.48664	7694.7	6607.9
Ripk2	0.72083	1.17E-21	85.935	AS(0.036)S(0.2)CS(0.721)LT(0.044	3	0.53378	20631.0	20220.5
Afap1l1	0.903237	0.000828766	74.376	HAS(0.096)S(0.903)CSEK	3	-0.5363	4691.8	5213.6
Pcyt1b	1	2.88E-05	60.161	ELNVS(1)FINEK	3	1.3986	10075.6	9069.3
Dpysl3	0.740212	2.64E-31	90.062	GGT(0.025)PAGS(0.74)T(0.238)RG	4	0.11279	88923.8	93093.0
Osbp11	0.998862	1.17E-23	95.622	RPS(0.999)QNAIS(0.001)FFNVGHS	3	-1.3798	21946.5	20909.4
Inf2	0.612432	0.000487225	40.952	AEADS(0.612)T(0.182)S(0.205)VRF	3	1.1295	6663.0	5623.1
Gnao1	1	0.0033101	41.825	LFDVGGQRS(1)ER	3	0.35139	5533.8	5506.3
LOC10036	0.748419	1.37E-15	89.459	TPGVDS(0.025)T(0.021)RPNS(0.74	3	2.11	6504.3	7398.6
Atxn2	0.959073	5.24E-05	113.22	ALT(0.959)PS(0.041)IEAK	2	-0.019268	78771.7	83056.2
Gab1	0.991287	2.14E-23	68.368	NVLAAGNVS(0.991)GEELDENY(0.0	4	0.17766	3699.1	3363.5
Cdr2l	0.532975	2.02E-12	95.067	S(0.533)CS(0.408)DT(0.059)ALNAI	3	1.2796	25221.6	22088.6
Scn11a	1	5.06E-14	63.138	RLS(1)QNLPVDLFDEHVDP LHR	4	0.46257	4611.1	4491.4
Tnks1bp1	0.547641	5.90E-23	62.254	DVGQLEEGAS(0.226)GGLLNPS(0.2	4	0.54551	2088.6	2331.7
Ppp1r14a	0.588449	3.85E-14	111.63	GPGGS(0.412)PS(0.588)GLQK	3	-0.30561	20985.2	22065.5
Dmxl1	0.930835	2.09E-13	63.869	ALSAIS(0.01)S(0.045)HS(0.931)PP'	4	-0.44774	2826.8	2684.0
Cttnbp2	0.978423	0.013739	74.2	DVS(0.978)PT(0.02)S(0.002)R	2	-0.25094	21688.9	21337.2
Rc3h2	0.596807	3.23E-18	74.776	KHS(0.597)S(0.2)T(0.2)GDLLS(0.00	3	0.64526	7029.7	6855.8

373785.2	494640.9	411160.7	402660.0	0.2	0.2	163
80474.2	94753.8	98963.9	86595.0	0.2	0.1	274
2503.5	3505.8	2533.3	2666.3	0.2	0.4	746
21970.0	23403.8	23985.7	24321.0	0.2	0.0	259
8234.6	9979.5	9242.5	8254.9	0.2	0.1	343
28388.7	33699.5	30872.1	30909.0	0.2	0.0	177
10945.6	13240.2	10297.7	12352.0	0.2	0.2	85
5083.6	5069.4	6736.2	5702.8	0.2	0.3	155
43102.0	54554.7	55987.3	47459.0	0.2	0.2	1712
14800.7	15794.3	17219.1	15642.0	0.2	0.0	2034;2033
7758.7	9675.5	9136.7	9384.5	0.2	0.1	619
101062.2	109721.0	114131.2	84977.0	0.2	0.3	269
56265.3	65667.6	63940.2	62074.0	0.2	0.0	159
3905.2	4237.7	4661.2	3773.7	0.2	0.2	232
47105.1	49351.9	45128.8	48228.0	0.2	0.2	29
42733.7	50305.6	47821.8	42619.0	0.2	0.1	507
7139.7	7774.3	9414.8	6893.1	0.2	0.3	145
20757.3	22065.2	23638.4	23496.0	0.2	0.0	414
4627.1	5666.1	4871.5	5785.8	0.2	0.2	583
10958.4	11088.7	11091.5	11634.0	0.2	0.1	195;233
83216.7	99003.0	112549.6	86377.0	0.2	0.2	631
21900.8	25068.1	26000.1	21679.0	0.2	0.1	200
7055.0	7359.5	7624.6	6744.3	0.2	0.2	1236
5571.0	6013.4	6536.7	6111.7	0.2	0.0	207
7218.7	7798.3	8105.9	7825.7	0.2	0.0	506
86918.4	94181.8	99051.5	86233.0	0.2	0.1	512
3361.5	3873.7	3624.4	4213.3	0.2	0.1	439
23337.0	25979.9	26984.3	26411.0	0.2	0.0	266
4636.7	4596.1	5862.7	4978.4	0.2	0.2	497
2918.1	2544.2	2861.0	2840.1	0.2	0.3	1019
21614.4	23606.2	22751.4	26300.0	0.2	0.1	28
2465.0	2823.4	3145.7	2993.0	0.2	0.1	2408
21209.8	22617.4	26351.7	23213.0	0.2	0.1	472
6820.3	8084.3	7069.3	8114.0	0.2	0.1	878

Snap29	0.981249	5.82E-07	98.044	SLS(0.018)LMY(0.981)ESEK	3	-0.32243	4967.4	4427.4
Plekha5	0.981623	5.07E-05	96.009	SEVS(0.018)S(0.982)PIQR	2	-0.48249	7697.9	7128.2
Farp2	0.681534	5.22E-48	87.357	T(0.01)S(0.01)AS(0.148)LS(0.682)S	3	-1.3822	12104.5	11603.2
Caskin1	0.852569	2.63E-19	63.095	S(0.853)VS(0.063)ES(0.078)S(0.00	4	1.4992	13254.2	15407.3
Dpysl2	0.999403	3.50E-83	165.4	NLHQSGFS(0.999)LSGAQIDDNIPR	3	0.25215	38021.4	37942.3
Akap1	0.946558	3.44E-15	77.324	T(0.006)GAT(0.028)AS(0.947)PS(0	3	0.31851	46927.2	54190.9
Sipa1l1	0.69748	6.46E-15	57.238	S(0.001)QCRNS(0.697)PS(0.201)N	3	1.1417	3078.7	3272.5
Sorbs3	1	3.27E-05	65.038	MADGGGS(1)PFLGR	2	-1.129	53676.5	45876.3
Nipbl	0.991106	7.42E-08	56.768	S(0.007)PQPVCS(0.991)PAGS(0.00	3	-0.77764	13613.2	16250.8
LOC69138	0.520928	3.23E-07	75.764	AT(0.004)S(0.099)T(0.521)S(0.323	3	-0.50957	16271.7	16268.3
Nedd4l	0.821588	1.49E-45	166.46	T(0.822)S(0.178)PQELSELSR	2	-0.30098	40652.5	36713.7
RGD13087	0.942776	6.82E-05	78.548	S(0.001)NS(0.943)HS(0.056)DHIR	3	-0.021999	4744.6	3547.6
Rgs18	0.943254	0.056086	44.425	VS(0.057)S(0.943)EEALK	2	0.89249	9972.0	9199.6
Smg1	0.798907	6.81E-05	62.466	T(0.005)DS(0.027)AS(0.169)ADPD	2	0.56026	10318.7	10363.2
Mettl3	0.658341	1.24E-10	65.298	S(0.064)DS(0.276)PVPT(0.658)AP1	3	1.9047	9955.5	9089.1
Map1s	0.744806	7.21E-07	63.681	APARPS(0.2)S(0.745)AS(0.055)AAI	2	-0.15245	17092.3	17278.6
Caskin1	0.680978	3.73E-08	53.453	ALAGLQS(0.263)S(0.681)S(0.7)AT(	3	-0.027532	27267.0	27712.5
Btf3	1	1.36E-10	90.385	LAEALPKQS(1)VDBGK	4	0.34613	82758.8	75024.6
Mtss1l	1	0.000342441	123.75	GLS(1)LEHQK	2	-0.61444	58122.8	59778.6
Setd3	0.816098	3.48E-14	119.25	S(0.002)GT(0.001)GAT(0.032)AT(C	2	-0.052865	46330.8	42207.1
Tns1	0.999859	3.11E-36	139.49	TVGTNTPPS(1)PGFGR	2	0.016137	195062.7	190523.1
Lsm14a	0.501793	1.18E-137	157.47	S(0.502)S(0.502)PQLDPLRKS(0.49)	4	-0.049462	49442.5	42589.9
Kcnb1	1	2.99E-05	110.52	SGFFVES(1)PR	2	1.0314	11807.2	12934.8
Ndrg2	0.757901	1.14E-20	66.58	S(0.234)RT(0.758)LS(0.029)QS(0.0	3	0.01482	9005.8	8790.1
Ndrg2	0.517247	1.14E-20	66.58	S(0.234)RT(0.758)LS(0.029)QS(0.0	3	0.01482	9005.8	8790.1
Ncor2	0.999343	4.33E-39	89.979	SLAPHHAS(0.999)PDLPAPTSASDLF	4	0.91033	18125.1	17005.5
Shc4	0.935312	1.87E-68	139.28	FRNES(0.935)IT(0.055)S(0.01)LDE(	3	-1.1604	40170.6	44780.5
Rell1	0.98315	1.09E-42	96.052	S(0.983)LMS(0.013)VS(0.004)GIES	5	0.41561	31356.7	30330.8
Sipa1l2	0.855921	6.06E-05	79.492	S(0.059)GS(0.856)PS(0.079)T(0.00	2	-0.29529	33474.9	32779.1
Pip5k1a	0.901426	1.10E-27	81.329	S(0.901)GPS(0.097)GNS(0.001)CTI	4	-0.33234	13183.9	13407.6
RGD15598	0.938735	4.36E-21	139.19	S(0.031)S(0.031)S(0.939)LDALGPA	2	0.90812	38040.5	39186.2
Arhgap21	0.993191	1.71E-22	88.176	VVDLLANRNS(0.993)PS(0.007)GPA	4	-0.19516	4418.0	4002.6
Ppfibp2	0.977791	2.99E-37	141.07	T(0.022)LS(0.978)INEDEIEGSFRK	3	1.6031	63030.7	60045.1
Shank3	0.999955	1.12E-14	69.088	S(1)LGEEPVGGLGSLLDPAKK	4	-0.78201	2437.7	2298.8

5293.3	6021.9	5254.3	5229.6	0.2	0.2	68
6219.7	8362.3	8033.5	7256.7	0.2	0.2	346
12688.4	13461.3	13728.9	13714.0	0.2	0.0	401
14345.0	16086.9	16115.1	16136.0	0.2	0.0	423
36244.7	40705.1	44992.0	40431.0	0.2	0.0	540;641
43727.0	72007.8	47539.7	43269.0	0.2	0.6	375
3526.8	3409.1	4187.4	3507.6	0.2	0.2	1188
47920.6	56697.4	56581.5	52499.0	0.2	0.1	358
14987.0	16927.3	15640.7	17850.0	0.2	0.1	280
16206.0	17996.4	20027.5	16778.0	0.2	0.1	2626
43409.7	45155.5	47368.7	43258.0	0.2	0.1	290
4498.3	4823.2	4822.9	4733.7	0.2	0.2	91
10554.6	11642.0	10342.3	11437.0	0.2	0.1	44
10619.2	11794.9	12929.5	10474.0	0.2	0.1	15
9278.4	10469.4	10973.9	10407.0	0.2	0.0	54
17297.2	18700.4	20158.9	19250.0	0.2	0.0	676
27458.2	36550.6	28794.6	27379.0	0.2	0.3	1223
76035.7	86037.7	90928.8	86081.0	0.2	0.0	129
68772.7	70307.2	76267.0	63476.0	0.2	0.2	419;430
44178.4	50660.8	50904.9	47772.0	0.2	0.0	19
205082.0	216351.1	232184.3	216120.0	0.2	0.0	1344
46655.8	52055.6	56829.4	47177.0	0.2	0.2	183
11565.2	13640.6	14204.4	13011.0	0.2	0.0	651
9664.7	10652.1	10767.7	9482.4	0.2	0.1	334
9664.7	10652.1	10767.7	9482.4	0.2	0.1	343
18814.4	21437.1	19442.9	19826.0	0.2	0.0	1964
45526.2	48179.3	51686.0	46965.0	0.2	0.1	37
32350.2	33212.2	38153.8	34458.0	0.2	0.1	245
35230.1	39396.2	39971.6	34838.0	0.2	0.1	1351
13895.7	14962.8	16050.0	14550.0	0.2	0.0	457
40009.2	42062.5	47032.1	42846.0	0.2	0.0	170
4510.5	5103.5	5190.4	4260.3	0.2	0.2	294
59002.5	70956.2	75636.5	58355.0	0.2	0.2	178
2249.8	2744.5	2542.6	2577.1	0.2	0.0	1511

Ahnak2	0.999104	0.00173107	72.2	LS(0.001)FS(0.999)LPR	2	-0.88394	28247.4	24617.0
Ralbp1	0.966903	8.64E-71	101.21	T(0.033)GEPs(0.967)PPHDILHEPPI	5	0.068083	51327.0	49138.5
Rictor	0.803419	1.54E-15	100.38	AQS(0.003)LKAPS(0.194)IAT(0.803)	3	0.61473	12623.3	9981.7
Lpin1	0.612605	0.0340548	43.442	S(0.039)DS(0.349)PS(0.613)RK	3	0.21456	6234.4	6845.8
Ppp3cb	1	0.00139067	90.827	ICS(1)FEEAK	2	-1.1559	43950.2	46167.0
Spag9	0.787277	4.23E-12	105.03	S(0.017)S(0.098)T(0.098)LS(0.787)	2	-0.62192	12302.5	11313.6
Cep170	1	0.0350235	50.108	AVNGES(1)PK	2	-0.54544	9453.1	8890.5
Sept4	0.562304	7.38E-20	66.828	LT(0.562)RES(0.33)GT(0.108)DFPII	4	0.11917	5136.5	3848.2
Sync	0.953918	1.05E-36	139.12	RLS(0.954)T(0.046)QFENLMAESR	3	-0.37382	39211.7	36307.9
Mbp	1	1.42E-21	80.362	FS(1)WGAEGQK	2	-0.7476	179689.1	161762.0
Smpd3	0.694646	6.18E-10	66.167	DGDS(0.03)GS(0.251)LGS(0.695)P	2	0.30219	14252.5	16627.0
Nufip2	0.555389	3.30E-06	75.764	S(0.444)S(0.555)DIKPGLS(0.001)SI	3	0.20109	16530.5	14314.7
Sf3b1	0.998999	7.48E-13	80.236	GSETPGAT(0.999)PGS(0.001)K	3	0.90089	55407.1	48620.7
Epb4.1	0.994172	1.14E-05	117.86	RLS(0.994)T(0.006)HSPFR	3	-0.084737	3475.1	2835.6
Epb4l13	0.825279	5.05E-25	99.273	TFLET(0.142)S(0.825)T(0.032)ETAI	3	0.25354	24009.8	22287.1
Arhgap31	0.837795	1.66E-08	69.878	S(0.05)MDS(0.113)LCS(0.838)VPV	2	0.61823	28234.3	22725.9
Arhgap23	0.999857	0.00046099	110.54	RPLS(1)PETR	3	-0.24213	15469.1	14094.3
Map1a	0.996753	1.53E-12	66.536	S(0.997)PWT(0.002)S(0.001)DFK	2	-0.67449	24309.2	19322.2
Wdtdc1	0.999999	3.53E-13	73.057	GCIS(1)PQVELPPYLER	3	-0.55317	3462.0	3647.5
Dnm1	0.862955	3.15E-105	112.95	GPAPGPPPAGS(0.079)ALGGAPPVF	5	-0.044548	12308.5	13033.5
Eef1d	0.783362	5.90E-15	123.72	LSTLEKS(0.176)S(0.783)PT(0.04)HI	4	0.23705	48829.5	56014.0
Ehbp1	0.898109	3.94E-23	91.64	QTPDDHLS(0.014)PS(0.044)T(0.04	3	0.13663	16796.5	17964.2
Hdac6	0.5	2.12E-10	63.091	ALLAQGQS(0.5)S(0.5)EQAAK	3	-0.86034	5372.4	4452.0
Hdac6	0.5	2.12E-10	63.091	ALLAQGQS(0.5)S(0.5)EQAAK	3	-0.86034	5372.4	4452.0
Arhgef6	0.662095	3.05E-27	115.41	KS(0.338)T(0.662)AALEEDAQILK	3	0.18762	26606.3	23524.4
Nefh	1	3.89E-41	111.84	S(1)PAEAKS(1)PAEAKS(1)PAEAK	4	0.0085867	5068768.5	3789840.7
Stat2	0.541578	6.60E-05	50.534	KT(0.205)S(0.542)S(0.253)LDPHQS	3	0.32346	13324.6	11964.1
Itgb1bp1	0.988258	1.71E-12	95.854	SST(0.001)VAS(0.988)LDT(0.009)D	2	0.083873	12869.0	10946.2
Iqsec1	0.996796	1.40E-12	109.83	SALSS(0.003)S(0.997)LR	2	-0.54905	14359.9	11723.8
Sept9	0.981026	0.000294693	58.32	RT(0.003)ELS(0.981)IDIS(0.012)S(C	3	0.99217	8868.9	8526.8
Psen1	0.673518	2.90E-09	57.829	AAVQELSGS(0.004)ILT(0.322)S(0.6	3	0.029261	1745.7	1474.8
Tmcc1	0.974102	0.000122534	52.42	S(0.026)EAPKGS(0.974)PQINR	3	0.5544	30990.6	33503.1
Kiaa0408	0.998393	0.00106951	67.519	S(0.002)YS(0.998)EQAQER	2	-0.21377	4840.0	4472.8
Sh2b2	0.772428	1.44E-07	70.272	S(0.772)S(0.199)EDVS(0.029)AHV/	3	0.86146	5344.4	5698.8

24196.1	26337.4	29343.9	31063.0	0.2	0.2	5417;6788
55690.4	71161.9	55821.7	48801.0	0.2	0.4	48
11188.3	12782.6	12404.8	12854.0	0.2	0.1	1257
5930.6	7082.8	6530.9	7787.4	0.2	0.2	416
43012.6	54301.7	45313.7	50253.0	0.2	0.1	479
11565.2	13532.8	12877.2	13196.0	0.2	0.0	440;597
10604.9	10234.2	12161.2	10196.0	0.2	0.2	764
3993.4	4997.0	5111.5	4503.1	0.2	0.3	759
40709.8	45812.2	41919.7	43133.0	0.2	0.0	314
175846.9	199092.7	194354.3	189000.0	0.2	0.0	139;113
15037.0	17664.3	16436.8	17604.0	0.2	0.1	292
17001.3	18745.5	17649.7	17486.0	0.2	0.1	303
49438.8	58302.3	59785.3	54738.0	0.2	0.1	248
2888.1	3370.6	3133.8	3855.0	0.2	0.3	667
22356.4	26671.8	26279.0	24370.0	0.2	0.0	762;744;784;568
26289.2	29913.4	30595.3	26495.0	0.2	0.2	352
13417.7	18460.6	15802.0	14146.0	0.2	0.3	1176
24091.8	25673.1	25178.3	25425.0	0.2	0.2	1953
3427.3	3800.9	3921.7	4144.9	0.2	0.0	291
13938.3	13761.6	15962.3	14519.0	0.2	0.1	822
34504.0	49887.6	66691.9	40377.0	0.2	0.6	488;489
16181.5	21212.7	18022.7	18145.0	0.2	0.1	619;619
4597.0	5468.3	5397.3	5381.1	0.2	0.1	909
4597.0	5468.3	5397.3	5381.1	0.2	0.1	910
26133.8	27637.6	31366.8	26914.0	0.2	0.1	496;623;667;625
3530459.3	4301282.4	4659608.0	4997700.0	0.2	0.4	526;526
13196.2	14771.4	14871.2	13718.0	0.2	0.0	191
12284.9	13596.6	14429.9	12648.0	0.2	0.1	41
14164.0	17628.0	13648.7	14072.0	0.2	0.3	923
8718.6	8934.2	11034.8	9455.9	0.2	0.2	93
1873.9	1930.0	1817.2	1993.3	0.2	0.2	372
29389.4	37705.5	34209.4	33898.0	0.2	0.1	134
4542.6	4736.3	5678.8	5201.3	0.2	0.1	286
6440.2	6252.2	6415.4	7039.3	0.2	0.1	106



Epb41l3	0.92725	0.0479263	46.216	S(0.002)S(0.004)S(0.027)S(0.927)K	2	-0.26025	12084.2	14054.8
LOC10036	0.839832	0.0132877	61.344	S(0.84)T(0.13)S(0.03)DIGSK	2	0.90737	9306.5	8879.7
Pi4kb	0.749864	4.11E-18	74.364	S(0.164)KS(0.75)DAT(0.067)AS(0.0	4	0.26938	22360.4	22159.9
Aak1	0.969448	2.48E-47	141.18	ILS(0.03)DVT(0.969)HS(0.001)AVF	2	-0.48831	139960.9	134405.0
Prdm8	0.994784	9.55E-15	84.859	LFGPPS(0.995)PET(0.005)GEAKR	3	0.13932	11996.0	11977.2
Tns1	0.863353	7.01E-106	145.07	HPGAHQGNLVSSLHGNAVIS(0.114	5	0.028793	24683.7	24971.3
Clint1	0.935643	3.91E-56	92.258	TIDLGAAAHY(0.004)T(0.019)GDKA	6	1.0564	24377.2	31745.8
Sun2	0.999815	2.62E-42	85.337	RLS(1)PAPQLPPPSDTSYSESVV	4	0.39327	93062.4	96011.9
Plekha4	0.680004	2.31E-51	111.12	S(0.157)S(0.157)LS(0.68)LT(0.006)	3	0.60699	33848.2	27488.7
Arhgef28	0.817393	0.00137504	91.087	SYS(0.003)CS(0.179)S(0.817)PK	2	0.0017979	38157.4	32031.0
Chat	0.963262	2.79E-21	141.73	ADS(0.037)VS(0.963)ELPAPR	3	-0.19073	36315.9	35297.6
Ncoa2	0.914842	0.00628824	94.309	MGS(0.085)LDS(0.915)K	2	-0.69486	10216.4	8870.9
Fnbp1	0.646176	1.93E-57	116.84	RQS(0.353)GLYDGT(0.646)HQT(	3	0.14521	6826.5	6775.5
Fam102b	0.592882	0.000130522	70.552	T(0.007)S(0.009)S(0.371)Y(0.018)A	2	0.076291	4707.9	4535.2
Nup214	0.534438	1.25E-08	56.488	SAQT(0.001)APS(0.023)S(0.018)AF	3	-0.22596	5425.9	6958.4
Gjc3	0.525958	9.98E-08	56.882	HKDT(0.526)T(0.146)DDL(0.328)A	3	-0.51178	9596.1	9984.1
Lmo7	0.902487	4.27E-22	107.65	S(0.042)RS(0.902)T(0.054)T(0.002	3	-1.5207	33806.5	41111.3
Mia3	0.711534	1.26E-09	74.853	S(0.001)ET(0.04)T(0.247)S(0.712)E	3	0.41049	33854.2	38967.9
Larp1	0.505267	0.00428837	46.89	T(0.505)PRT(0.505)PRT(0.989)PQL	4	-0.095577	26310.5	27552.3
Klc1	1	0.0160996	69.338	RAS(1)LCGK	2	-0.63995	46592.0	33299.0
Yeats2	0.995609	2.07E-31	75.119	AS(0.002)PVAR(0.996)PEPAS(0.0	4	-0.53064	5330.0	5846.1
Smad2	0.947254	1.95E-83	153.68	DLLAS(0.027)VPS(0.947)PS(0.02	2	-0.80867	56607.0	57489.3
Kank2	0.557265	4.31E-09	49.654	S(0.557)RS(0.443)ELCLDLPEAPDDI	4	-0.47123	4448.7	4734.4
Palmd	0.502771	1.37E-26	82.885	NS(0.126)KS(0.364)PT(0.503)EY(0.	3	0.47832	22492.7	18891.1
Mapt	1	0.000291515	101.66	VAGVS(1)KDR	2	-0.52942	38293.4	38540.1
Sh3bp4	0.999709	0.00753609	47.774	SPAPEQFQS(1)R	2	0.60954	10841.5	12407.2
Ppp1r9a	0.645036	2.16E-05	50.831	S(0.002)GHES(0.353)GQNNRHS(0.	4	-0.048105	1404.5	1456.7
Ttbk1	0.999724	2.71E-09	54.521	QTAAMFGVVNT(1)PVPDGLLR	3	0.71224	14828.6	15299.8
Ncor2	1	0.00579321	42.426	CRS(1)PVPPAEK	3	-0.29513	22189.8	21039.9
Tanc2	0.901507	2.92E-16	104.16	S(0.001)QS(0.032)AS(0.902)Y(0.03	3	-1.6338	39762.7	44329.6
Mical1	0.963777	3.61E-10	82.663	APS(0.036)AS(0.964)PLVLHASR	3	-0.21845	2272.7	2913.6
Apc2	0.499906	1.31E-15	63.728	RRS(0.5)ELS(0.197)S(0.233)ADS(0.	3	0.58361	4079.2	3744.5
Stx17	0.850597	2.05E-15	88.319	LT(0.005)S(0.144)S(0.851)CPDLPSI	4	-0.088885	82729.0	75104.7
Klf15	0.997783	4.66E-13	64.589	QEAGAGPAS(0.998)PGQAPES(0.00	3	0.025695	10070.6	10219.7



11515.2	11798.2	16349.2	14297.0	0.2	0.4	97;97;97;97
9807.2	9683.2	11063.7	10809.0	0.2	0.1	1882
18992.1	24061.6	27614.8	19934.0	0.2	0.3	277;277
145227.8	157602.2	165928.3	149580.0	0.2	0.0	641
12415.9	14301.7	13812.2	12918.0	0.2	0.0	375
26310.5	27121.7	30335.6	28201.0	0.2	0.0	1449
26043.3	41427.8	24776.5	26448.0	0.2	0.6	314
110073.3	105512.5	107356.0	124460.0	0.2	0.2	54
31616.7	34393.5	37212.3	33218.0	0.2	0.1	11;11;11
34835.1	40556.6	41742.3	36142.0	0.2	0.1	560
32603.6	39732.7	37832.1	39967.0	0.2	0.0	367
10871.1	11103.0	10729.2	11954.0	0.2	0.1	582
7682.5	8141.7	8227.5	7635.5	0.2	0.1	503
5004.0	4794.0	6060.6	5214.7	0.2	0.2	211
5339.3	6369.6	7338.3	6284.3	0.2	0.3	657
11286.3	12162.3	11596.9	11059.0	0.2	0.1	244
45042.9	47850.4	42175.1	45298.0	0.2	0.2	1159;1142
32512.0	46188.4	36306.1	36338.0	0.2	0.3	781
26556.4	28372.4	34711.7	27641.0	0.2	0.2	651
40496.9	44888.3	49939.9	41006.0	0.2	0.3	547
5600.3	6641.0	6672.7	5615.4	0.2	0.1	371
57415.1	65611.5	71701.7	56210.0	0.2	0.2	219
4290.6	5452.0	4847.9	4903.8	0.2	0.1	246
22899.4	23842.7	25403.8	23291.0	0.2	0.1	254
33025.2	44360.3	44304.9	35315.0	0.2	0.3	374;374
12478.7	11242.7	14131.7	14946.0	0.2	0.3	277
1734.5	1756.2	1718.3	1712.1	0.2	0.1	160
17006.6	18221.9	17815.4	17159.0	0.2	0.1	344
22382.0	24579.7	24951.8	24524.0	0.2	0.0	1024
45152.5	46351.2	53946.2	45582.0	0.2	0.2	1800
2604.9	2963.0	3500.4	2330.7	0.2	0.4	351
4386.3	4351.8	4680.4	4750.0	0.2	0.1	1988
76313.5	90214.3	91560.3	82523.0	0.2	0.1	288
9628.5	12451.5	10919.4	10402.0	0.2	0.1	237

Prdm8	0.842009	2.81E-09	70.197	S(0.842)FS(0.155)QLS(0.003)PLVLI	3	0.11318	3372.8	3132.5
Ahnak2	1	0.00783053	80.231	VQMPS(1)LK	2	-0.62792	65333.8	58783.7
Tbc1d22b	0.962012	4.22E-05	93.928	AS(0.038)S(0.962)FHEFAR	3	1.9597	18318.4	20215.0
Stag1	0.971997	6.66E-05	63.989	GRPGRPPS(0.972)T(0.028)NK	3	-0.6251	16688.0	15088.1
Wac	0.839277	0.00633709	82.831	S(0.839)NS(0.161)PENK	2	0.0080043	18900.4	14111.8
Mbp	0.999888	8.02E-05	69.864	ASDYKS(1)AHK	4	0.25724	46383.3	40859.0
Cast	0.880839	1.41E-15	60.029	FQDAPS(0.881)ADGES(0.107)VAG	3	-2.6846	11365.2	11772.1
Tmem63c	0.999319	2.88E-33	93.371	HTYGT(0.001)MNS(0.999)QPEEGE	3	-0.055373	10130.7	10228.6
Eif4g3	0.560226	9.18E-18	75.533	ASET(0.001)DALRS(0.56)S(0.424)A	3	0.19148	12165.3	11777.6
Arvcf	0.999999	2.01E-55	136.74	S(1)LPEHFQAEPYGLEDDTR	3	-0.35159	5091.3	5467.2
Rrbp1	1	0.000291287	80.312	KPEGT(1)PNQGK	2	-0.069304	19626.7	17489.2
Psmg1	0.997021	7.35E-15	90.422	RQT(0.997)ET(0.003)CLEAVLLEK	3	1.2625	16064.2	13911.1
Prune2	0.994962	6.64E-05	55.546	NNDS(0.995)KDNS(0.004)LTS(0.00	3	0.33053	5709.4	6226.4
Cox7c	0.972172	0.0720617	49.554	FT(0.001)T(0.027)S(0.972)VVR	2	-0.2126	11660.7	10632.1
Scfd1	0.995949	5.96E-73	158.94	VNLEESTGVENS(0.996)PT(0.004)G	2	0.87801	171280.7	163275.8
FAM120C	0.578841	1.27E-21	81.144	S(0.579)RGS(0.414)FGMQVVS(0.0	3	1.5085	36738.1	33093.9
Akt1s1	0.5	0.00308554	115	LNT(0.5)S(0.5)DFQK	2	0.24574	48350.0	44579.7
Ctnnd1	1	5.96E-16	93.5	GDHNR(1)LDR	2	0.096197	44608.6	44120.1
Rims2	0.999993	1.42E-05	105.2	YRS(1)DPNLAR	2	1.1769	31029.9	29826.2
Ablim1	0.705343	1.10E-07	55.688	YDS(0.705)PLHS(0.271)AS(0.023)H	4	-0.19201	23882.2	23219.5
Skiv2l2	0.654848	1.81E-08	110.51	LQS(0.325)EPAS(0.655)S(0.02)GK	2	-0.45319	27393.5	19328.7
RGD13050	0.991782	0.0210399	49.715	HY(0.008)DS(0.992)RER	3	-0.25224	1471.1	1528.1
LOC10369	1	8.17E-07	89.035	HRPGGS(1)PEHAR	3	0.29948	3464.7	3117.4
Map7	0.999997	2.20E-25	110.56	LSSSSATLLNS(1)PDR	2	0.73878	26767.3	28597.7
Npm1	0.996776	0.0217419	45.68	S(0.003)VRDT(0.997)PAK	3	-0.94775	17997.5	16337.4
Arhgap39	0.776938	0.000699728	46.069	FLS(0.777)LEY(0.176)S(0.047)PVG	3	2.2117	2565.1	1699.0
Ppp2r5c	0.962705	7.87E-10	80.411	KNS(0.023)LAS(0.963)VQS(0.011)S	3	1.3407	17168.6	17272.0
Th	1	1.36E-05	122.33	RAVS(1)EQDAK	2	0.36576	60691.9	62825.8
Madd	0.969627	7.86E-05	61.11	IFT(0.03)GS(0.97)LLVEEK	3	2.8994	1191.8	1298.0
Osbpl3	0.863546	6.38E-35	115.39	LHS(0.136)S(0.864)NPNLSTLDFGEI	4	-0.17729	45559.2	32275.6
LOC68360	0.911219	0.000520863	44.391	NLS(0.911)LS(0.072)KEDT(0.012)A	3	0.34978	9476.7	10023.8
Ppfibp1	0.770015	8.96E-48	87.155	S(0.184)AS(0.77)APT(0.046)LAETE	5	-2.0022	7894.8	8029.7
RGD15646	0.966325	2.24E-05	120.23	S(0.966)T(0.032)QS(0.002)LSLQR	2	0.23954	10582.9	10570.1
Plekha1	0.83938	3.28E-05	59.709	S(0.839)RLS(0.161)LQENQLPK	3	0.80753	20409.1	21181.4

3459.7	3803.1	3894.0	3551.8	0.2	0.0	508
52990.4	64905.3	64986.4	70049.0	0.2	0.1	565;565
18691.9	25390.4	19753.9	19461.0	0.2	0.3	58
17249.3	18573.9	18857.3	17918.0	0.2	0.0	45
19655.4	19986.3	21438.1	18038.0	0.2	0.3	62
38325.0	46137.8	51462.7	44178.0	0.2	0.2	160;134;123
13157.9	13969.5	12573.7	14439.0	0.2	0.1	128
9521.2	12493.3	10271.6	10976.0	0.2	0.1	768
11974.0	13540.5	13913.7	13104.0	0.2	0.0	1125
5758.3	7111.8	5700.0	5613.7	0.2	0.2	186
19110.3	20543.9	23785.9	19163.0	0.2	0.2	425
13737.1	17563.1	16108.7	15700.0	0.2	0.1	55
6819.8	6916.4	7189.6	7077.9	0.2	0.1	623
11684.4	13529.5	12929.5	11921.0	0.2	0.1	12
144855.2	195836.8	179981.0	165750.0	0.2	0.2	298
34038.7	40841.5	40189.6	36310.0	0.2	0.1	677
51608.5	56222.2	54307.4	52763.0	0.2	0.1	248
48522.1	48632.5	53737.8	52708.0	0.2	0.0	910
28947.6	34005.3	34590.9	32874.0	0.2	0.0	143;379
25077.6	27523.2	28080.8	25954.0	0.2	0.0	620;533
20469.9	26298.9	25323.7	24311.0	0.2	0.3	58
1596.8	1646.9	1872.5	1674.5	0.2	0.1	435
3990.8	4015.6	3742.5	4190.9	0.2	0.2	320
27186.7	31562.2	33195.3	28542.0	0.2	0.1	231
19234.9	19998.4	20760.5	19787.0	0.2	0.1	198
2201.4	2566.3	2705.2	2036.5	0.2	0.4	382
17069.4	19599.1	19612.8	19013.0	0.2	0.0	41
69449.8	71570.0	66564.8	79989.0	0.2	0.2	19
915.0	1286.6	1581.7	980.4	0.2	0.5	229
36029.6	47054.1	43513.0	38144.0	0.2	0.4	303
10626.5	11552.9	12754.3	9752.2	0.2	0.2	83
9054.8	8897.6	9215.7	10128.0	0.2	0.1	521
11112.7	12901.4	12729.7	10849.0	0.2	0.1	213
21666.5	24282.7	25769.3	21468.0	0.2	0.1	384

Phf2	1	0.000297712	74.611	DLS(1)FLLDKK	3	0.8418	17649.3	18841.7
Sgip1	0.659054	1.07E-19	62.291	TVVSSPGPGSGSGT(0.001)GT(0.01	3	0.20968	5607.9	7428.7
Sipa1l3	1	6.24E-06	68.972	QDAAGKDS(1)PNR	3	-0.014077	9476.6	9733.1
Map4k4	0.956891	2.91E-07	84.759	S(0.021)S(0.021)S(0.957)KSEGS	3	-0.22016	61015.1	54605.5
Trafd1	0.994805	7.56E-05	54.402	S(0.005)DCQRS(0.995)PPGVLK	3	-0.76382	42031.2	36251.9
Ubr4	0.785135	0.000703973	51.135	HAS(0.011)T(0.204)S(0.785)PADK	3	0.6805	15002.7	15082.6
Aida	0.999997	1.44E-09	74.296	LPS(1)EPGMTLLTIR	3	1.7498	774.8	591.3
Atp8b2	0.958218	1.20E-39	140.53	RYPSS(0.001)IS(0.038)S(0.958)S(0	3	0.29555	112804.8	105147.0
Akap11	0.992214	7.83E-18	60.752	KPES(0.989)PY(0.011)AHLGAPDS	4	0.45598	12015.1	10610.5
Exoc1	0.757751	0.00345189	45.28	LT(0.031)GS(0.758)T(0.216)S(0.53	3	-1.0058	12735.4	12696.8
Apba1	0.94345	8.45E-18	70.114	S(0.055)NS(0.943)QENVEAS(0.001	4	-0.33317	6761.1	6732.2
Efr3b	0.763412	0.0496491	55.441	AS(0.237)LLQS(0.763)K	2	0.65254	10842.9	9990.5
Ahnak	0.999974	3.76E-12	61.612	GDLKGS(1)GIGLHGAVPDLVK	4	0.70346	4664.0	4758.0
Uhrf1bp1l	0.813095	1.53E-34	84.529	EYYS(0.813)T(0.186)ES(0.001)ESL1	4	-0.36676	6222.8	6522.5
RGD13071	0.988595	1.24E-11	102.52	S(0.004)RS(0.989)VS(0.007)DSSVP	2	-0.45892	12309.6	11574.6
Camsap3	0.848206	6.49E-32	98.175	S(0.003)VS(0.125)S(0.848)DS(0.02	2	0.21232	19706.6	19725.8
Hivep2	0.996019	0.00501143	47.302	S(0.996)Y(0.004)EEIIFGK	3	1.9585	1362.8	1169.5
Psmf1	1	2.74E-08	53.304	DPLS(1)PFAVGGEDLDPFGCQR	2	3.5441	7102.8	6362.4
Klc2	1	1.75E-21	121.92	RGS(1)RDVAGGAGPR	3	-1.0359	27550.9	26622.1
Map2	0.840775	0.000232142	72.2	KEPS(0.841)T(0.157)VS(0.002)R	3	0.31301	27617.7	20622.0
Ptch1	0.711848	1.41E-12	70.802	QQPHLDS(0.004)GS(0.284)LS(0.71	3	-0.766	8061.0	9073.8
Rab3gap2	0.9568	0.000107042	65.179	S(0.043)KHEEET(0.957)VQK	4	1.1222	8610.8	10599.2
Cep41	0.903394	3.13E-07	44.625	GS(0.002)PEEQS(0.088)PS(0.903)F	3	-2.1518	4126.3	4479.6
Ndufa4	0.999957	0.000518097	66.004	FYS(1)VNVVDYSK	2	1.1019	5689.9	7777.6
Tmem117	0.516804	0.000346942	42.314	SSHLT(0.241)S(0.241)ENLS(0.517)	4	-1.3095	2424.1	2498.3
Luzp1	0.999979	4.55E-59	142.79	EKPDS(1)DDDLDIESLVAK	4	0.20556	222148.5	189876.0
Cbl	1	0.00137765	90.696	RINS(1)ERK	2	0.3888	28130.5	31741.4
Arhgap21	0.577503	3.86E-06	79.886	T(0.422)T(0.578)PPPSAPTAR	3	-0.35846	7408.6	7535.5
LOC10368	0.998729	4.98E-27	101.38	VQGT(0.001)GVT(0.999)PPPTPSG	3	-0.81151	86330.9	76069.9
Map3k3	0.725831	0.00333478	53.013	S(0.047)ADS(0.726)PS(0.227)FRK	3	-0.33528	17609.9	19028.2
Garem	0.802489	7.55E-17	94.639	SAKPLS(0.027)T(0.143)S(0.802)PSI	3	0.07375	73849.5	68389.3
Mdc1	0.562079	1.54E-11	54.834	LFS(0.002)PVPEAS(0.183)AS(0.562	3	0.54869	3869.4	3670.4
Caskin2	0.73549	3.46E-20	74.287	IS(0.735)QPS(0.264)ADDPLPSLTYC	3	-1.5051	11495.8	10834.4
Ahnak2	0.958903	2.76E-49	92.231	LSEDLPDAET(0.021)S(0.021)AQA	4	-0.39532	22569.1	19920.0

16144.2	19715.7	20514.8	19284.0	0.2	0.1	584
5639.8	7247.4	5884.5	7985.8	0.2	0.4	469
10484.0	11664.0	11012.4	10902.0	0.2	0.0	1248
59023.8	65358.5	68964.9	63181.0	0.2	0.0	727;757;758
41376.2	45485.5	50085.2	39769.0	0.2	0.2	477
12354.1	15787.7	18350.8	13863.0	0.2	0.3	1763
669.9	690.2	765.3	847.3	0.2	0.3	161
119772.2	130565.2	133879.7	117560.0	0.2	0.1	628
11348.0	13312.8	13276.8	11841.0	0.2	0.1	497
12046.4	15378.5	13272.6	13746.0	0.2	0.1	470
6765.9	7367.2	7146.2	8407.9	0.2	0.1	561
10752.9	11401.1	13124.0	11215.0	0.2	0.1	772
4313.1	5165.3	5149.7	5226.7	0.2	0.0	5218
6766.9	7782.3	7458.2	6840.8	0.2	0.1	774
10433.3	13976.1	12926.3	11936.0	0.2	0.1	4354
21193.8	23445.6	22942.7	22227.0	0.2	0.0	432;433
1452.6	1505.1	1602.8	1402.7	0.2	0.2	420
6748.4	7622.6	7227.1	8030.3	0.2	0.0	189
23370.0	28654.0	33569.3	25549.0	0.2	0.3	508
21629.3	27972.0	26782.4	24333.0	0.2	0.3	1539;1453
9460.6	8865.2	11917.5	9323.0	0.2	0.3	1280
8597.8	12761.7	10188.5	8528.4	0.2	0.4	88
3966.3	4915.8	5219.9	4097.9	0.2	0.2	87
6702.3	8293.1	6987.3	7555.7	0.2	0.3	67
2572.6	2797.0	3251.6	2437.4	0.2	0.2	489
244122.4	246303.0	265216.0	231440.0	0.2	0.2	660
25097.9	30376.5	35396.7	30440.0	0.2	0.2	839
7917.6	8462.8	9140.2	8288.5	0.2	0.0	322
87715.9	96964.7	97689.0	88614.0	0.2	0.1	672
15300.0	18664.1	22293.0	17865.0	0.2	0.3	237
77495.3	84350.4	89665.6	74919.0	0.2	0.1	462
3610.5	4847.3	4156.7	3628.4	0.2	0.2	801
11520.5	11380.2	13597.4	13374.0	0.2	0.1	371
19546.8	21911.2	24760.5	23614.0	0.2	0.1	3112;1750

Sorbs1	0.999571	1.49E-52	125.77	S(1)AQLSSVSMDEVGIPLR	3	-0.23646	3308.0	4364.3
Cnp	0.757919	0.0182164	57.347	KS(0.242)HT(0.758)FLPK	3	0.42658	49402.0	48119.5
LOC10091	0.997176	1.80E-08	56.081	S(0.997)PAGAEPPS(0.003)AAAPSC	3	0.65958	5299.0	5841.8
Map1b	0.876362	8.47E-09	55.744	ASDAEIMS(0.112)S(0.876)QS(0.01	3	-0.71172	9893.6	10861.5
LOC69138	0.778344	1.81E-09	98.582	AT(0.002)S(0.039)T(0.176)S(0.778	3	0.029763	39467.0	34139.3
Mapk8ip3	0.93591	6.02E-19	69.361	SYP(0.005)VNIHY(0.936)KS(0.039	3	-0.83008	16354.0	18904.2
Hmgcr	0.99966	6.74E-17	95.227	S(1)KINLQDLQGTCTK	4	-0.37547	107276.7	90277.2
Pde4b	0.820859	1.53E-15	90.259	LMHS(0.011)S(0.168)S(0.821)LNN	3	-1.6606	12167.7	13398.8
Ctnnd1	0.964575	1.01E-48	121.82	HYEDGYPPGSDNYGS(0.965)LS(0.0	3	-0.26314	34745.1	31348.7
Stk10	0.948887	0.00117249	68.846	ET(0.003)GS(0.949)LS(0.048)LK	3	0.0065617	12919.1	13729.0
Cald1	0.998869	4.74E-17	135.24	QT(0.001)S(0.999)QDDKPAFR	2	0.89422	72984.8	78592.9
Larp1	0.990974	7.77E-15	54.622	KGS(0.991)KVGDFGDAINWPT(0.0	5	1.0499	4793.4	4529.8
Mllt4	1	1.38E-14	107.5	S(1)QEELREEK	3	0.38394	105115.6	98266.0
She	0.997902	6.14E-08	93.909	KNS(0.998)AAELGGS(0.002)R	2	-0.23765	32758.1	30738.8
Dip2b	0.90933	3.17E-53	139.08	GSNRS(0.09)S(0.909)LMDTADGVP	3	0.38243	14576.9	14989.3
Trip12	0.754469	7.23E-07	54.402	S(0.01)AS(0.097)PDY(0.273)NRT(0	3	-0.74108	36395.8	33308.9
Srrm1	1	0.000158764	89.9	EARS(1)PQPNKR	3	-0.57099	64578.8	66945.8
Otud7a	0.95354	1.01E-20	102.39	GIS(0.954)HAS(0.046)SAIVSLAR	3	-0.35687	2096.8	1769.0
Frs2	0.888789	0.000957705	42.321	Y(0.05)PS(0.889)FGDAS(0.053)S(0	3	-1.9195	10195.3	10279.5
Rap1b	0.997006	1.36E-06	57.936	QWS(0.997)NCAFLES(0.002)S(0.0	3	-0.56568	6011.3	5453.8
Srcap	0.864129	7.69E-14	68.458	S(0.093)GPPS(0.864)PLPT(0.042)A	3	-0.28481	11987.6	11856.6
Epb41l2	0.5	1.51E-05	56.819	EAS(0.5)T(0.5)LIDRPAPQFER	3	-2.2307	7219.4	6888.2
Epb41l2	0.5	1.51E-05	56.819	EAS(0.5)T(0.5)LIDRPAPQFER	3	-2.2307	7219.4	6888.2
Rnf8	0.973962	0.000953397	56.205	GS(0.026)S(0.974)KPAEPEK	3	0.40864	13983.0	13528.3
Psd3	0.90395	2.39E-15	82.651	T(0.001)FPVPGPKS(0.04)PDRPLS(	5	1.6537	14494.6	15312.9
Uaca	0.939918	4.98E-14	117.08	NLS(0.06)HT(0.94)QDEGNVK	2	1.0327	20233.8	18287.8
Arhgef4	0.98484	0.0129279	47.894	RLS(0.985)DCS(0.015)FK	3	-0.74864	7498.5	7615.4
Mark4	0.988788	3.17E-12	66.536	RHS(0.989)DFCGPS(0.011)PAPLHP	4	-1.0015	11826.8	10792.1
Slc1a4	0.95214	2.48E-46	148.7	VEAIPNS(0.022)KS(0.109)EEET(0.9	4	-1.0534	104957.0	104147.7
Ppfia3	1	1.92E-27	104.88	SAAAGALGS(1)PGLPLRK	3	2.0452	18273.0	17291.8
RGD15600	0.928438	6.74E-05	48.288	T(0.072)QGKS(0.928)LKDEDVLQK	3	-0.056885	10249.3	11986.0
Sptbn5	1	0.00653308	66.758	RAS(1)LEAQR	3	-0.42571	3457.5	3305.2
Zc3h13	0.957501	0.0589398	52.683	S(0.005)GS(0.038)FDS(0.958)R	2	0.61812	7222.6	7348.3
Zc3h4	0.644982	1.96E-19	113.05	T(0.645)GT(0.078)GS(0.277)PFAGI	2	-0.19705	8901.1	9774.5

3331.5	4176.7	4533.8	3756.7	0.2	0.3	581;390;632;369
48119.7	54806.6	61891.6	48336.0	0.2	0.2	11
5643.6	6189.6	6658.2	6171.6	0.2	0.0	137
11282.0	13211.6	11741.2	11354.0	0.2	0.1	1478;1352
39620.7	42932.5	47330.2	38055.0	0.2	0.2	2627
18022.3	17653.3	22140.2	20589.0	0.2	0.2	600
92301.3	120544.6	104702.5	103290.0	0.2	0.2	871
14060.7	14537.1	13919.1	16464.0	0.2	0.1	304
33527.7	37202.8	39288.7	36445.0	0.2	0.0	230
14861.3	16102.3	15191.8	15764.0	0.2	0.0	527
64760.0	81357.4	64635.9	99279.0	0.2	0.4	221
3845.7	5178.8	6234.9	3516.7	0.2	0.5	30
106985.9	117200.7	123652.8	111070.0	0.2	0.0	1282
30149.6	39849.3	36671.6	29666.0	0.2	0.3	80
14906.1	17378.3	17893.4	15159.0	0.2	0.1	206
34126.0	39767.9	43498.1	34476.0	0.2	0.2	85
57922.9	71941.8	71143.9	71757.0	0.2	0.0	610
2424.6	2492.3	2859.6	1781.9	0.2	0.5	120
11502.4	11723.4	13696.8	10844.0	0.2	0.2	155
5549.3	6309.6	6854.4	6132.5	0.2	0.1	139
10875.3	15631.5	12124.8	11625.0	0.2	0.3	1850
6450.5	7292.1	7883.3	8144.6	0.2	0.1	524;524;524
6450.5	7292.1	7883.3	8144.6	0.2	0.1	525;525;525
14917.8	16294.8	15860.8	15977.0	0.2	0.0	181
16830.9	18851.1	17764.1	16296.0	0.2	0.1	452
21527.1	22001.4	24799.0	21326.0	0.2	0.1	267
8199.3	8617.5	8568.4	9263.7	0.2	0.0	110
10905.1	12790.3	12348.2	12896.0	0.2	0.0	423
95736.9	118278.7	124785.5	102810.0	0.2	0.1	504
15907.9	20845.3	21397.5	16166.0	0.2	0.3	1162
10339.6	12664.9	13352.7	10947.0	0.2	0.2	40
3919.5	3459.7	4982.2	3680.4	0.2	0.4	2888
6563.0	8343.1	7252.8	8392.6	0.2	0.1	1358
10459.0	10989.4	10411.2	11671.0	0.2	0.1	1184



Mark3	0.959255	0.0075109	80.787	SVS(0.005)S(0.036)S(0.959)QK	2	0.79052	23338.4	19130.2
Nedd4l	0.668004	4.78E-53	92.788	S(0.03)LS(0.668)S(0.203)PT(0.099)	4	1.1133	32980.0	33496.5
Nefm	0.673071	0.00777576	119.07	S(0.322)VT(0.673)VT(0.005)QK	2	-1.0619	40762.2	32615.7
Arfgap1	0.997107	1.63E-26	78.272	AS(0.003)ELGHS(0.997)LNENVLKP	4	-1.8236	10386.3	8277.3
Phlpp2	0.921782	6.33E-30	121.03	RQNS(0.922)VNS(0.078)GILLPVNK	3	-0.18181	25067.7	23267.8
Cgnl1	0.544884	5.46E-13	69.979	S(0.454)S(0.545)EHLLRPS(0.001)Q	4	-0.75118	1366.7	1429.3
LOC103690	1	9.27E-05	51.235	INS(1)LMDEDIAHK	3	-0.64429	8576.2	8396.3
Capzb	0.999991	3.00E-05	106.11	ELS(1)QVLTQR	3	-0.14985	54040.3	55582.9
Sobp	0.999999	1.16E-24	68.161	AAS(1)PAGAGGQPGFAGVLHGPQC	4	-0.33473	2342.5	1734.4
Hexim2	0.685963	0.000381536	41.772	T(0.313)QS(0.686)PGGCS(0.001)V	3	-0.097099	11510.2	10716.2
Zfp521	0.782369	0.00903002	54.343	IS(0.782)PS(0.207)QS(0.011)DEK	2	-0.4175	9406.3	11583.4
Agap1	0.561896	0.00373212	59.067	KKS(0.315)T(0.562)S(0.124)NFK	4	0.40145	19849.8	17008.8
Kif1b	0.53582	2.23E-42	85.184	AS(0.536)S(0.464)PCQEFEQFQIIP	4	-0.12525	1758.8	1362.7
Ano6	0.5	0.000979524	43.761	IGGVADS(0.5)S(0.5)VRPK	3	-1.6019	8299.7	8564.4
Ano6	0.5	0.000979524	43.761	IGGVADS(0.5)S(0.5)VRPK	3	-1.6019	8299.7	8564.4
Kif26b	0.671587	0.00148126	67.334	S(0.043)GS(0.286)PT(0.672)HQAK	2	0.84689	2463.8	2194.6
Gak	1	0.00145861	61.11	KPGAGEDT(1)PR	3	0.37315	30929.8	29388.5
Dock5	0.885713	4.70E-13	101.3	KSS(0.001)ILS(0.886)S(0.1)EPGS(0	3	1.2131	15850.7	16080.8
Apc	0.565567	0.000121877	45.347	S(0.566)KT(0.434)PPPPPPQPVQT	4	-0.0031627	2827.6	3022.3
LOC100901	0.999807	0.00635161	86.882	RSQS(1)PVK	2	0.0047196	29209.9	28212.6
Strn3	0.999789	5.14E-28	104.45	SLLGLSNSEPNGS(1)IEAK	3	-0.6388	30288.1	31592.2
Phldb1	0.999987	3.47E-05	105.36	TLQPPES(1)PR	2	-0.82347	36325.4	31944.4
Ctdp1	0.89278	9.81E-08	58.123	RQPS(0.893)MS(0.081)ET(0.026)M	3	1.9514	5172.2	4399.4
Prx	0.8213	2.97E-13	75.764	SAGAEQAECT(0.821)EFS(0.179)FK	3	-0.53163	78495.0	77936.9
Map4k4	0.991524	6.07E-43	95.654	KGS(0.992)VNVNPT(0.008)NT(0.0	4	0.66331	14062.9	13399.9
Ufd1l	1	1.14E-28	148.08	FVAFSGEGQS(1)LR	2	0.29115	28301.1	27243.0
Synpo2	1	1.70E-13	109.51	GCVAS(1)PVEGGR	3	0.38842	50037.7	45695.3
Map2	0.499969	0.000232142	72.2	KEPS(0.5)T(0.5)VSR	2	0.62431	14405.2	10465.0
Pdzd2	0.983434	0.000109942	65.179	T(0.015)LPS(0.983)PQAS(0.002)H	3	-0.6197	4898.1	4920.9
Magi2	0.824704	3.33E-23	130.47	S(0.006)PGS(0.825)VS(0.136)T(0.0	3	0.25769	4752.5	4053.4
Tle1	1	0.0110829	79.148	ANT(1)PVLK	2	1.2404	12086.6	11796.2
Cys1	0.996909	2.84E-18	70.391	RQT(0.997)GPGET(0.003)ALEGGA	3	-0.62472	8840.4	11534.1
Crmp1	0.712699	3.07E-07	83.856	S(0.713)S(0.286)PS(0.002)KHQPPF	3	0.15649	14847.7	16685.2
Mb	0.996378	2.25E-05	46.818	KRY(0.003)S(0.996)GDFGADAQGA	3	-0.8561	19167.6	24125.5

19456.3	22996.9	24156.7	23142.0	0.2	0.1	412
30243.3	37348.0	36779.5	35669.0	0.2	0.0	436
37211.4	44737.6	42636.8	38173.0	0.2	0.2	807
10715.6	10404.8	11642.9	11309.0	0.2	0.2	246
26600.1	28702.3	29092.8	27294.0	0.2	0.0	1245
1470.0	1528.3	1445.9	1869.9	0.2	0.2	414
8366.6	9849.8	9306.5	9617.2	0.2	0.0	235
59122.8	62873.7	69415.9	59338.0	0.2	0.1	263
2444.3	2298.7	2608.6	2498.5	0.2	0.3	627
11065.9	12626.4	12878.2	12303.0	0.2	0.0	75
10925.4	10348.1	11996.6	13899.0	0.2	0.3	966
16331.6	21284.2	21709.5	17411.0	0.2	0.2	971
1133.0	1524.2	1819.8	1487.8	0.2	0.4	1600
7919.1	8591.3	9515.8	10039.0	0.2	0.1	904
7919.1	8591.3	9515.8	10039.0	0.2	0.1	905
2298.8	2474.2	2937.0	2490.9	0.2	0.1	285
28178.9	33179.2	36320.0	31019.0	0.2	0.1	798
17893.4	18874.2	20131.1	17595.0	0.2	0.1	1862
2794.8	3329.5	3361.6	3131.6	0.2	0.0	1332
28710.2	32320.1	35352.9	30205.0	0.2	0.1	159
31032.2	35034.8	37387.6	33160.0	0.2	0.0	212
32294.8	37506.4	42534.2	34239.0	0.2	0.2	444;501
5029.9	5261.2	5727.7	5604.0	0.2	0.1	839
69960.8	83677.2	102945.7	70674.0	0.2	0.4	737;737
12281.7	14457.9	15601.1	15113.0	0.2	0.0	984;1014;951
25709.0	27686.0	31948.2	32717.0	0.2	0.1	256
49781.6	57222.1	52065.4	56103.0	0.2	0.0	304
11949.5	14907.8	14035.6	12906.0	0.2	0.3	1540;1454
4682.9	5543.5	5851.8	5088.7	0.2	0.0	1833
3743.3	5419.3	4599.2	4246.9	0.2	0.3	878
10467.7	14266.5	13753.4	11032.0	0.2	0.2	205
10497.5	11804.8	12152.6	11140.0	0.2	0.2	23
10917.9	15302.6	21022.4	11940.0	0.2	0.6	521;635
18429.0	25232.0	24226.2	20735.0	0.2	0.3	121

Fryl	0.992453	8.71E-06	65.467	S(0.001)NS(0.007)LRLS(0.992)LVG	3	-0.9283	3853.8	4780.0
Kif5b	0.604636	2.01E-19	74.428	PIRPGQHPAAS(0.395)PT(0.605)HF	5	-0.71836	9988.6	8450.6
LOC68570	1	2.40E-35	159.12	QQADLALS(1)PQR	2	0.038058	14093.9	12201.0
Plekha5	0.561771	3.31E-19	76.21	T(0.022)KS(0.413)PT(0.562)PES(0.	3	-0.31831	7373.7	7103.9
Arhgdia	1	2.58E-33	112.53	SIQEIQELDKDDES(1)LRK	4	-0.88153	58440.1	50631.4
Atp8b2	0.658163	5.50E-18	74.029	RYPs(0.14)S(0.658)IS(0.21)S(0.552	4	1.8989	33552.5	32299.8
Otud7b	0.987626	4.03E-14	81.01	GIS(0.988)HAS(0.012)SSIVSLAR	3	0.94594	26819.8	27485.4
Rergl	0.91419	0.0304054	42.312	RRPS(0.914)GS(0.086)K	3	0.70863	10939.7	10743.0
Scrib	0.886703	4.55E-13	52.334	AFAAVPT(0.013)VHPPENS(0.032)/	6	-1.0459	6820.2	5534.9
Mapt	0.996723	1.10E-19	83.948	EAS(0.003)LLEPT(0.997)DK	2	0.97099	52398.0	52636.6
Phkb	0.863702	1.07E-17	137.93	QS(0.053)S(0.084)T(0.864)ADAPEI	3	-0.063113	27719.1	35217.5
Dync1li1	0.645261	5.56E-18	73.675	S(0.158)VS(0.645)S(0.192)NVAS(0	3	1.5877	12137.9	13092.8
Ahnak	1	3.14E-05	110.93	VGS(1)LDVNVK	3	0.33385	73489.3	74595.7
Dync1li2	0.999519	4.04E-30	124.77	TSES(1)PARGPSGSPR	3	-0.78552	27889.6	30235.4
Pkp4	0.67414	1.12E-43	138.05	AAS(0.366)PY(0.006)S(0.628)QRP/	2	0.77322	18339.8	16702.7
Nes	0.981712	1.18E-92	170.27	ESQES(0.018)LRS(0.982)PEEEDQE/	3	0.19951	19682.8	15713.3
Fry	0.617716	0.0289123	64.268	VWT(0.149)S(0.234)AS(0.618)K	2	-0.24577	29760.9	27558.9
Pdlim7	0.999985	0.00384805	61.78	T(1)PPPSAGSK	2	-0.6913	5946.0	5859.2
Sgta	0.936284	7.27E-12	93.106	S(0.057)RT(0.936)PS(0.004)AS(0.0	2	-0.13547	6347.9	6171.6
Vim	0.98522	0.000113289	128.52	S(0.985)VS(0.009)S(0.003)S(0.001	2	-0.19179	62133.8	41149.7
Jmjd1c	0.985702	2.75E-23	108.9	VT(0.004)HS(0.986)PDS(0.011)VK	2	-0.077327	11772.5	11404.6
Igsf11	0.863684	0.000237341	87.878	GS(0.136)S(0.864)PQVMPR	2	0.17275	10957.1	12096.8
Clvs1	1	0.0156959	44.863	ECS(1)PKPMK	3	0.45089	38362.5	28773.2
Slc12a2	0.829401	4.20E-63	112.39	GEGTPAAGDGLGKPLGPT(0.128)PS	3	-0.18168	80949.5	66877.8
Dennd5a	0.740153	6.30E-36	105.51	KLT(0.002)S(0.01)GS(0.24)LS(0.74	3	-0.39757	17278.3	16339.6
Prr12	0.73936	5.10E-07	45.042	AS(0.021)LACS(0.739)PLGGGEPs(C	3	1.2761	18958.8	17308.2
Wasl	1	0.0045271	77.282	VIY(1)DFIEK	3	0.16071	6368.4	6166.6
Pip5k1a	0.598449	2.73E-38	107.56	S(0.392)GPS(0.598)GNS(0.001)CT(	3	-0.23208	5177.5	4508.5
Fam134c	0.748652	4.42E-12	50.493	APS(0.749)S(0.246)DLDT(0.005)D/	3	0.60183	3273.7	4143.6
Rictor	0.990372	2.92E-42	89.723	ALS(0.01)YAS(0.99)LDKEDLLSPINC	3	0.43427	25905.0	25400.2
Pdlim5	1	0.000809033	105.94	RGS(1)QGDIK	2	-0.31704	319316.1	280492.1
Thap4	0.698692	0.00371362	41.621	RAS(0.699)PQDDT(0.301)APK	3	3.1738	5171.0	5348.6
Mprip	1	0.00176902	44.511	ARS(1)PGREEVAR	3	-0.78061	3447.4	2862.8
Ppp1r7	0.999947	3.58E-33	95.122	HGGGIVADLSQQS(1)LKDGVER	3	-1.0059	60117.0	66704.5

4311.5	4834.1	4983.3	4905.4	0.2	0.1	1960
10189.7	11794.9	10075.4	10690.0	0.2	0.2	935
13283.5	15437.9	15773.2	13803.0	0.2	0.1	50
7751.4	7474.0	9482.3	8328.5	0.2	0.2	794
55720.2	60042.4	67116.2	60288.0	0.2	0.1	47
33110.4	37212.7	42617.5	32742.0	0.2	0.2	625
27390.0	32843.7	32176.9	27917.0	0.2	0.1	100
8279.0	11539.7	10398.1	12147.0	0.2	0.2	165
7287.8	7401.0	8039.5	6908.9	0.2	0.2	1357;1329;1308
53118.2	61550.4	62048.7	56346.0	0.2	0.0	347;347
29437.4	47169.6	28741.2	29192.0	0.2	0.5	702
12919.4	17097.8	13693.6	12620.0	0.2	0.3	414
78645.1	80366.4	92962.4	84684.0	0.2	0.1	257
23496.6	31855.9	34650.8	26379.0	0.2	0.3	383
17920.1	20538.4	20100.1	19635.0	0.2	0.0	282
21582.4	21971.7	22562.3	20312.0	0.2	0.2	729
27626.4	32656.7	32361.7	31658.0	0.2	0.0	2319
5573.2	6679.1	6506.8	6593.2	0.2	0.0	71
6760.6	7362.0	7669.6	6912.3	0.2	0.0	304
53280.0	60533.0	64649.7	53023.0	0.2	0.4	5
13233.5	14606.4	13867.8	12973.0	0.2	0.1	364
11056.3	12403.1	14130.7	12298.0	0.2	0.1	378
39781.4	45898.0	38419.9	37407.0	0.2	0.3	320
71303.3	86649.3	85313.0	77526.0	0.2	0.1	73
17159.9	19365.9	19971.9	18480.0	0.2	0.0	838
20298.5	22840.7	21619.7	19953.0	0.2	0.1	330
6350.7	6714.4	8243.6	6551.4	0.2	0.2	253
5536.0	5694.6	6078.9	5565.3	0.2	0.1	460
4166.5	4043.2	4269.2	4882.3	0.2	0.2	435
24438.9	31258.7	29337.5	25686.0	0.2	0.1	1335
321670.9	358773.9	370349.2	320600.0	0.2	0.1	228
5148.5	5888.6	5963.9	5996.6	0.2	0.0	144
3496.6	3571.8	4017.1	3583.4	0.2	0.1	407;407
59080.2	85121.5	64077.0	62598.0	0.2	0.3	47

Agfg1	0.989613	1.08E-88	144.74	SLLGES(0.001)APALHLNKG(0.99)	3	0.26442	124658.9	107110.4
Rabl6	0.991446	0.0011152	40.475	VS(0.005)PQQCS(0.991)EPET(0.00)	3	-0.38985	4823.6	5991.1
Synm	0.864654	5.83E-73	156.58	T(0.003)VS(0.133)S(0.865)QASLRF	4	-0.18327	3551.4	2710.7
Prx	1	1.58E-09	127.87	MAAAAPPS(1)RK	2	-0.13179	75615.9	70755.4
Rapgef1	0.755962	0.00282741	51.727	LSPCS(0.037)S(0.756)T(0.207)GK	3	-0.97133	15074.3	15055.2
Eps8	1	1.85E-30	124.25	RKS(1)QMEEVQDELFR	3	1.4903	31887.5	26895.3
Fga	0.652951	1.96E-15	54.049	EVVTS(0.002)DDGS(0.067)DCGDG	4	-0.701	6737.4	6492.3
Insr	0.999751	3.62E-07	95.17	EGGSSLS(1)IKR	3	0.80717	26280.7	24344.9
Syn1	0.716308	3.03E-48	91.184	S(0.025)QS(0.209)LT(0.716)NAFNI	3	-0.37052	24117.2	24815.5
Apc	0.528703	6.69E-33	77.731	ES(0.006)EIS(0.462)PT(0.529)NT(0	3	-0.70283	8791.4	9372.3
Ppp2r5a	0.98917	0.00239553	82.445	SQGS(0.011)S(0.989)QFR	2	0.24316	17819.8	16057.7
Mtdh	0.887289	6.22E-111	150.45	QGEDNS(0.106)IT(0.887)QDT(0.00)	4	-0.82627	13036.0	21681.6
Plekha4	0.868566	4.60E-17	94.569	NQACGLSLPRPT(0.869)S(0.131)PR	3	-0.90279	31625.1	32147.3
Ppp1r9a	0.998768	1.89E-07	78.69	GTSLAS(0.001)LPS(0.999)EER	2	-0.51889	15514.4	15758.3
Rasip1	0.510776	7.99E-05	92.969	S(0.323)VS(0.511)ELS(0.166)LQGR	2	1.0563	21768.8	18193.4
Golga4	0.990729	5.66E-05	97.452	VPS(0.991)MES(0.009)LFR	2	-0.054019	51446.2	42827.9
Plekha5	0.999411	3.33E-08	111.79	GVIS(0.001)YQT(0.999)LPR	2	0.34523	7434.7	7502.0
Phactr4	0.979165	1.88E-07	51.827	IQQALT(0.004)S(0.014)PLPVT(0.97	3	0.97674	1631.5	2557.7
Deptor	0.916202	5.32E-35	156.08	STSFMS(0.046)VS(0.916)PS(0.038)	4	-0.68885	53274.6	53657.8
Camlg	1	0.00265204	66.92	LLMNS(1)EQR	2	-0.58462	22131.4	20681.2
Vars	0.999999	0.00072396	60.255	SVVHPFLS(1)R	3	0.091362	1776.6	2021.9
Nefh	0.941343	0.000404004	63.185	T(0.013)PAT(0.046)PKT(0.941)EVK	3	0.13407	14871.5	13776.2
Arhgef11	0.874518	0.00580506	110.76	S(0.875)S(0.114)CT(0.012)AEK	2	0.87083	25876.4	18915.2
Clasp2	0.990677	5.39E-21	92.474	LGAGALNPGS(0.009)YAS(0.991)LC	2	0.9037	21519.5	22367.2
Myo18a	0.999937	0.00347383	76.221	RFS(1)FSQR	3	0.18998	5598.0	5489.7
Cdc42ep3	1	0.000121073	46.892	LPRLS(1)CEPVMEEK	3	-1.3646	6100.3	6194.5
Rims1	0.5728	9.02E-07	53.768	RAS(0.699)QS(0.573)S(0.573)LES(	2	0.11471	4424.4	4860.1
Kdm2a	0.781539	3.35E-14	111.83	T(0.003)LS(0.091)GDS(0.782)S(0.1	2	-0.51362	3480.0	3316.3
Atp8b2	0.586031	8.95E-20	62.999	S(0.002)T(0.002)S(0.005)APQMS(	3	0.27532	2890.1	3716.2
Camk2b	0.713395	1.57E-31	74.063	RGSGAPEAEGPLS(0.002)CPS(0.283	4	0.79972	3205.8	3637.5
Gle1	0.989521	0.0781831	49.418	ALRNS(0.99)S(0.01)K	2	0.12393	10267.8	7660.1
Ccdc6	0.823108	1.98E-21	80.316	T(0.019)VS(0.823)S(0.158)PIPYTPS	3	0.623	12507.6	11993.7
Srgap3	0.927654	3.15E-07	73.279	RRS(0.928)GGDT(0.249)HS(0.823)	4	-0.35522	4297.6	4068.8
Ncor2	0.763592	2.73E-21	77.08	GS(0.02)PHS(0.764)EGGKRS(0.216	5	-0.35273	16152.5	14546.2

115322.0	130807.2	140131.3	124520.0	0.2	0.1	177
5247.6	6108.6	6679.1	5513.1	0.2	0.2	368
3441.5	3775.3	3920.4	3361.2	0.2	0.2	421;421
76874.6	80342.2	94396.5	79649.0	0.2	0.1	214;214
14623.9	18125.1	16835.4	16037.0	0.2	0.0	358
32462.0	34814.8	37387.6	31793.0	0.2	0.2	685
6746.2	7254.9	8092.9	7420.4	0.2	0.0	445
26698.0	28789.2	32127.7	27216.0	0.2	0.1	1340
25050.0	29400.8	27952.5	26972.0	0.2	0.0	666
9254.8	10529.8	10292.1	10431.0	0.2	0.0	2522
17034.3	19170.1	20573.5	18291.0	0.2	0.0	42
19358.4	25608.2	15049.7	20986.0	0.2	0.6	458
34578.5	37477.8	38009.5	36630.0	0.2	0.0	615;543;615
16420.0	18801.6	17212.6	18357.0	0.2	0.0	294
19810.9	22971.6	24924.0	20248.0	0.2	0.2	321
49435.6	56126.5	58979.5	48797.0	0.2	0.2	93
7441.0	8589.5	8891.0	8045.2	0.2	0.0	217
2234.3	2541.7	2437.1	2348.3	0.2	0.3	431
48555.1	59128.3	65030.2	53213.0	0.2	0.1	164
19386.1	24838.2	24891.9	21225.0	0.2	0.1	38;38
2036.3	2072.1	2366.5	2218.1	0.2	0.1	570
14818.8	15050.7	16700.8	17838.0	0.2	0.1	897;867
23759.6	26819.2	27499.4	23891.0	0.2	0.2	533;532
20885.1	23296.0	27119.0	23485.0	0.2	0.1	640
5630.7	6265.8	6646.6	6165.0	0.2	0.0	140
6777.8	7674.6	7391.5	6699.2	0.2	0.1	144
4249.6	5414.4	5640.8	4389.7	0.2	0.2	1601
3403.1	4198.4	3587.5	3856.0	0.2	0.1	425
2695.0	3408.8	3613.6	3594.7	0.2	0.2	497
3819.0	4579.8	3881.2	3709.8	0.2	0.2	441;426;417
7609.1	11205.3	9244.2	8700.6	0.2	0.4	17
12280.6	13601.0	14365.8	14020.0	0.2	0.0	325
4188.5	4980.4	5204.2	4147.8	0.2	0.1	844
15333.0	17906.2	18114.6	16535.0	0.2	0.0	2156



Nacad	1	4.70E-05	82.774	LGS(1)CPGS(1)PAR	2	-1.3442	161560.4	161619.4
Pag1	0.703121	0.000304225	107.51	RFS(0.703)S(0.292)LS(0.005)YK	3	-0.71555	21750.9	21965.7
Zdhhc8	1	3.71E-33	110.6	YGS(1)RDDLVAGPGFGGAR	3	2.3116	9706.7	8668.7
Epb41l3	0.711492	1.40E-31	81.329	VVFLQQGT(0.008)S(0.038)PFLES(C	4	0.23257	41123.6	32152.8
Camk2g	0.756802	7.97E-16	90.872	KS(0.047)S(0.047)S(0.148)S(0.757	4	0.50369	44273.5	43765.8
Poli	0.858655	4.92E-05	51.466	RGES(0.859)PS(0.084)DAT(0.058)(	3	0.10821	13026.4	16168.5
LOC68359	0.996192	6.53E-05	47.062	S(0.004)LREDS(0.996)LRGPLAK	4	-0.43344	3119.9	3010.4
Prkd3	0.949333	0.000455619	44.543	CLT(0.002)LFQNES(0.949)GS(0.04:	3	0.77743	4248.6	4292.9
Atp8b2	0.997145	1.30E-14	82.069	SANDST(0.001)VHS(0.997)PFT(0.0	2	0.19156	30599.4	27644.4
Itgb4	0.993302	0.000388929	84.605	LEAGGS(0.993)LT(0.007)R	2	0.63261	9051.1	8973.5
Pxn	0.698656	0.00231299	102.55	IS(0.012)AS(0.699)S(0.101)AT(0.1:	2	0.52587	3054.1	3010.9
Hils1	0.998517	0.0253806	66.457	GAS(0.001)GS(0.999)FR	2	0.090909	11784.9	12186.7
Golph3	0.788312	0.007996	96.311	S(0.788)S(0.212)GLVQR	2	0.35158	8459.3	8404.9
Cdkl5	0.999832	9.76E-08	51.495	DLTNNNIPHLLS(1)PK	3	0.7287	3702.1	3214.6
Itpr3	1	8.24E-08	55.453	ERPS(1)DEEGFLQPHGEK	4	-1.0385	3128.6	3935.7
Lsm14a	0.762152	3.54E-92	110.34	S(0.395)S(0.404)PQLDPLRKS(0.19:	5	-0.61667	9476.6	8141.0
Mlip	0.946291	1.21E-27	105.79	S(0.946)LAIS(0.051)S(0.003)SLASC	4	0.44665	54591.3	53900.2
Dlg5	0.5	3.02E-17	96.143	RLS(0.5)MS(0.5)EVKDDNTAK	4	-0.73366	22228.0	21205.6
Prosc	0.535341	0.00437708	61.213	VGS(0.465)T(0.535)JIFGER	2	-0.28484	775.3	1055.0
Add3	0.997591	2.42E-40	122.64	SPDRTEEVLS(0.998)PDGS(0.002)P:	3	0.31578	100626.4	128492.6
Spag9	0.725253	3.01E-06	72.731	GGET(0.725)PGS(0.275)EQWK	3	1.9099	7062.1	6674.0
Prickle2	0.978913	0.0160997	55.235	RPLS(0.979)S(0.021)LK	3	-0.18819	5814.0	5445.6
Arfgap2	0.998856	8.06E-07	86.756	VSNQS(0.999)FT(0.001)EIER	3	0.34563	4181.9	4226.1
Frmd4a	0.86804	3.93E-10	81.632	MWS(0.006)ES(0.126)S(0.868)LDE	3	-0.18002	9374.8	10099.1
Cep170	0.551316	0.00116406	41.227	AVNGES(0.434)PKT(0.551)GGDS(C	3	-1.156	23863.1	26663.8
Rgs7	0.999986	1.48E-08	110.25	S(1)VYGLQNDIR	2	0.0094038	24921.0	22601.9
Map1a	0.555806	0.000111058	91.313	AGS(0.28)T(0.556)ALGS(0.164)K	2	0.37651	16468.5	15523.5
Phldb1	1	4.06E-07	61.962	KGGHERPPS(1)PGLR	3	-0.58545	27880.1	29238.3
Apc	0.793601	1.12E-08	61.963	S(0.168)GS(0.794)RDS(0.031)T(0.(	3	0.76564	5290.5	4960.9
Akap6	0.511497	0.0039874	40.477	NKIPES(0.511)NAS(0.489)FR	3	-0.44533	10045.1	8491.4
Mpzl1	0.638952	3.16E-32	76.823	SPPSAGSHQGPVIY(0.077)AQLDHS	5	-0.25381	15574.0	16180.6
Zdhhc5	0.501587	0.000119745	49.62	SFHFDPLS(0.182)S(0.502)GS(0.317	3	0.43032	1005.6	1437.2
Ina	0.810966	0.00531215	72.478	ILSS(0.007)T(0.002)T(0.18)S(0.811	2	2.2096	32017.5	28628.4
Uhrf1bp1	0.732694	1.03E-15	60.381	LKPS(0.289)AS(0.733)FGS(0.871)P	5	1.4932	4387.9	5182.0



167500.1	187070.1	200670.0	172540.0	0.2	0.1	1013
22285.1	26141.6	26432.9	22793.0	0.2	0.1	292
9613.9	10055.5	12454.0	9453.1	0.2	0.2	603
43488.5	43367.0	45439.8	44539.0	0.2	0.2	848
37415.8	46724.1	52698.0	43850.0	0.2	0.2	358
15866.4	18922.6	14355.1	18185.0	0.2	0.3	371
2977.4	3263.6	4103.1	3034.9	0.2	0.3	118
4352.9	4750.8	4866.7	5110.6	0.2	0.0	452
28296.1	34162.5	34294.9	30391.0	0.2	0.1	436
8733.4	10492.5	10090.5	9984.1	0.2	0.0	1776
3639.3	3188.3	4183.5	3714.4	0.2	0.3	260
10382.9	14109.2	12743.6	12398.0	0.2	0.1	111
8078.5	9924.9	9687.5	8894.8	0.2	0.0	8
3412.8	3576.2	4600.9	3628.9	0.2	0.2	407
3620.3	5835.9	3377.7	2998.5	0.2	0.6	1152
8601.2	10007.3	11094.7	8867.0	0.2	0.2	201
61012.5	60533.0	74458.8	58760.0	0.2	0.2	84
21677.2	23588.6	26064.2	24779.0	0.2	0.0	1565
1025.6	1027.1	1286.9	951.0	0.2	0.4	245
120868.8	153873.4	117529.5	128740.0	0.2	0.3	640
6885.3	8552.1	7561.5	7463.3	0.2	0.1	83;226
7483.0	6894.7	7943.3	6591.1	0.2	0.3	528
4508.5	4525.8	5103.2	5140.0	0.2	0.1	239
9918.7	11385.7	11423.8	10803.0	0.2	0.0	649
26013.5	31232.3	30533.3	25764.0	0.2	0.1	767
22889.8	28481.3	26026.8	26018.0	0.2	0.0	229
14875.2	19409.9	18448.0	15745.0	0.2	0.1	2890
30156.0	33529.0	34945.7	31346.0	0.2	0.0	325;382
5172.6	5927.4	6323.8	5391.0	0.2	0.1	2203
8800.3	10154.3	11190.8	9923.8	0.2	0.1	1712
17321.7	17640.1	20819.3	17677.0	0.2	0.1	248
1216.9	1358.9	1680.3	1147.6	0.2	0.4	423
30753.2	36996.0	33289.3	34280.0	0.2	0.0	437
5025.7	5253.3	5375.9	6069.1	0.2	0.1	753

Akap12	0.944407	0.0017588	112.11	LFS(0.008)S(0.048)S(0.944)GLKK	2	0.85198	81607.9	84016.0
Rps6ka5	0.619284	5.94E-06	53.21	SSS(0.002)S(0.005)HS(0.101)HGKT	4	-0.3974	14258.5	15323.9
Sec16a	0.920348	1.26E-20	79.461	QIDS(0.06)S(0.92)PVGGET(0.02)DI	2	0.37762	7032.8	7013.0
Slc27a2	0.977036	0.00257668	49.081	LWY(0.013)GT(0.977)S(0.01)LALR	3	-3.1063	3550.5	3613.0
Rangap1	0.995316	1.02E-13	111.64	GSGEEPAT(0.995)PS(0.005)R	2	-1.2014	94637.9	80515.7
Sh3gl1	0.991934	0.00169651	85.733	ITAS(0.001)S(0.007)S(0.992)FR	2	0.33399	34721.3	31067.9
Rtn4	0.639057	1.25E-23	103.88	KAQIIT(0.016)EKT(0.345)S(0.639)F	3	-0.18796	42862.5	42616.2
Prickle3	0.987509	0.00736919	41.295	RT(0.012)LS(0.988)APPAQR	3	0.1303	4578.8	4254.6
Arfgap2	0.575496	7.64E-07	96.82	AIS(0.575)S(0.425)DMFFGR	2	-0.22011	29815.8	30134.4
Ahnak	0.938923	3.80E-14	88.283	SRLS(0.939)S(0.05)S(0.005)S(0.005)	2	0.9109	27808.5	25163.2
Stim1	1	4.53E-15	109.65	LTEPQHGLGS(1)QR	3	-0.11936	7895.2	14666.8
Arhgef12	1	2.35E-09	90.412	VAEHGT(1)PKPFR	3	0.2578	22906.6	22859.7
Cep170	0.705247	1.37E-10	50.189	S(0.221)HS(0.705)FT(0.072)QS(0.072)	5	-0.012249	2798.5	3504.6
Ssh2	0.582172	2.50E-06	64.224	IPHS(0.394)S(0.582)S(0.019)S(0.019)	3	-0.18829	6700.8	6120.9
Zfp608	0.988633	0.00124056	60.161	S(0.011)KS(0.989)PAPVEK	3	0.19575	16765.5	15383.1
Ssfa2	0.531975	1.02E-71	101.84	T(0.532)LS(0.46)AHS(0.008)VPNIS	5	-0.41507	4232.9	4652.3
Kcnk12	0.998842	0.0289365	41.227	RLS(0.999)GELIS(0.001)MR	2	0.2334	5822.8	6306.5
Layn	1	9.89E-08	57.41	KQS(1)EADLAEPRPDLK	4	-0.48833	10403.4	7744.8
Pacs2	0.713451	6.67E-10	81.51	IIKT(0.284)ES(0.713)LVIPS(0.002)T	3	-0.25344	29410.3	29452.2
Arpc1b	0.63323	1.18E-33	99.879	KAS(0.633)S(0.249)EGGAAT(0.118)	3	0.90198	10879.6	10801.2
Dcaf5	0.5	1.67E-06	80.69	AEEPS(0.5)S(0.5)PPVPK	3	-0.23976	16614.0	15514.8
Tjp1	1	2.05E-29	153.09	QAS(1)RDLEQPPYR	3	0.0059235	32315.7	35594.9
Piezo2	0.568103	7.49E-07	61.821	NS(0.401)S(0.568)QKGS(0.028)S(0.028)	3	0.016287	16618.8	17653.7
Ddx17	0.990829	0.0058601	102.55	RDS(0.991)T(0.007)S(0.003)YR	2	-0.67759	11814.6	10493.6
Nhs	0.90039	8.72E-16	90.718	RVQQEIDS(0.9)DES(0.1)PVAR	3	-0.29812	15113.6	17359.8
Rhbdf1	0.965549	5.83E-05	103.43	RDS(0.966)T(0.345)S(0.345)S(0.345)	2	0.077748	12338.3	14152.4
Add2	0.85108	1.28E-06	62.709	AGT(0.021)KS(0.206)PAVS(0.752)I	4	0.7914	69490.3	85277.4
Tanc2	0.977607	9.43E-61	144.58	YQQEANVS(0.011)QLPGRPKS(0.97)	3	-0.58789	95179.4	83578.3
Mbp	0.999822	8.44E-10	125.36	TTHYGS(1)LPQK	2	-0.49005	260528.9	233939.0
Shroom2	0.874521	0.000281223	73.927	S(0.875)PS(0.125)PQFAPQK	2	1.6984	58384.0	50690.6
LOC68698	0.999968	0.000196598	68.536	ERSDYDRS(1)R	3	0.30874	3723.9	4532.2
Map1b	0.999803	0.00795694	53.47	ESSDKVS(1)R	3	0.31005	20900.5	19493.3
Arhgap21	1	3.87E-13	75.682	EKPQPGRQT(1)PQPLR	4	-0.47691	8295.4	7420.2
LOC10369	0.981719	3.69E-05	72.34	LS(0.018)GS(0.982)PEHFQK	3	-0.28964	10090.1	11030.6

87674.3	95524.9	101559.6	92738.0	0.2	0.0	509
11030.8	15837.2	18047.3	12587.0	0.2	0.4	750
7116.0	8279.4	8932.4	7004.7	0.2	0.1	583
3944.9	4268.8	4268.9	4174.9	0.2	0.0	246
77260.0	105338.7	96771.0	86764.0	0.2	0.2	408
33741.7	37120.3	39595.4	37195.0	0.2	0.0	288
34496.5	44006.1	57338.1	35969.0	0.2	0.4	488
4600.2	5002.1	5123.7	5249.6	0.2	0.0	492
30589.3	33894.2	37441.0	32316.0	0.2	0.0	431
33239.2	30856.1	36623.5	31221.0	0.2	0.2	5544
14648.4	16570.9	9812.9	16218.0	0.2	0.6	512
23612.7	28069.9	27145.7	24224.0	0.2	0.0	736
3946.4	4106.3	4129.8	3500.5	0.2	0.3	444
6364.5	7650.1	7866.9	6453.5	0.2	0.1	1216
17382.4	19051.3	19631.0	18039.0	0.2	0.0	1429
4861.5	4979.5	5770.5	4994.1	0.2	0.1	863
6272.0	7190.7	7722.4	6162.8	0.2	0.1	365
10480.7	10429.7	12148.3	10215.0	0.2	0.3	217
21979.5	28536.3	39596.5	24472.0	0.2	0.5	416
10718.8	12322.8	11432.4	13367.0	0.2	0.0	310
17939.2	19349.4	19601.1	18416.0	0.2	0.0	715
37913.0	36248.1	43756.7	41247.0	0.2	0.1	1197
15487.3	18724.6	20795.8	17497.0	0.2	0.1	2197
9772.7	13918.9	10676.4	12171.0	0.2	0.2	138
16415.7	18240.6	18514.3	19277.0	0.2	0.0	238
13107.9	15607.3	15412.0	14367.0	0.2	0.0	8
73904.3	119730.6	66565.8	75820.0	0.2	0.5	620
97126.2	106726.9	115670.0	93841.0	0.2	0.2	1655
238022.0	307218.7	277548.2	254970.0	0.2	0.1	96;70;96;70
56790.1	67875.2	67130.1	55161.0	0.2	0.2	1007
3860.8	4618.6	4620.3	4653.4	0.2	0.1	26
19848.1	22124.6	24617.3	22330.0	0.2	0.0	2278;2152
8254.8	9498.2	9706.5	8280.6	0.2	0.1	750
12355.2	14803.3	12015.8	11570.0	0.2	0.2	308

Bcr	0.953717	9.67E-05	88.075	SQS(0.954)T(0.038)S(0.008)EQEKF	2	1.0454	3970.9	1809.0
Osbpl3	0.543784	0.0422469	47.082	S(0.002)T(0.002)S(0.049)S(0.544)C	2	-0.4986	3680.5	3127.9
Tns1	0.499979	0.00160874	45.614	TPIQPMLDS(0.5)S(0.5)IR	2	0.50419	8004.8	7105.4
Tns1	0.499979	0.00160874	45.614	TPIQPMLDS(0.5)S(0.5)IR	2	0.50419	8004.8	7105.4
Tmem55a	0.705202	2.45E-48	91.1	SPLLSASHSGNVT(0.005)PT(0.077),	4	0.21933	3183.9	3034.3
Fxr2	0.891925	8.59E-48	88.544	GGG(0.016)GGGS(0.892)DKAGY(0.	4	-1.3794	2319.4	2437.7
Camsap2	0.980043	6.08E-40	118.19	S(0.001)KS(0.019)LADIKES(0.98)M	5	-0.9165	98925.6	88527.6
Iqsec3	1	0.0110577	76.064	GPGS(1)PVK	2	1.0202	22953.1	21139.7
Apc	1	0.000597354	42.059	LNS(1)FIQVEAPEQK	3	0.92786	5966.4	5933.4
Dok4	0.99895	6.74E-13	101.2	QEDSSET(0.001)KT(0.999)PPQ	3	-0.18684	16163.2	16788.3
Usp24	0.499987	3.19E-08	40.286	QEAEDLS(0.176)LS(0.244)APS(0.16	4	0.24127	17159.1	18143.0
Tubb2a	0.712065	2.79E-07	45.558	LT(0.22)T(0.712)PT(0.066)Y(0.002	3	-1.2309	3118.5	2942.6
Gimap8	1	0.00683531	68.676	GDNLCGS(1)K	3	0.7122	39007.8	36418.7
Uaca	0.820023	5.33E-15	118.52	NLS(0.82)HT(0.18)QDEGNVK	3	1.0367	36657.0	39035.9
P2ry2	0.831115	7.68E-05	64.224	DLS(0.831)IS(0.161)S(0.007)DDSR	3	0.74261	7128.6	7849.7
Map1b	0.812551	8.86E-08	88.282	SVNFS(0.813)LT(0.187)PNEIK	3	0.59281	16134.6	15587.2
Lifr	0.894501	0.00118687	61.415	S(0.895)VCEGS(0.105)NALK	2	0.9015	10358.1	10449.8
Hn1	0.99541	4.36E-09	58.093	MAS(0.001)NIFGT(0.995)PEENPPS	4	-0.89949	21770.0	20543.0
Arhgap23	0.992228	0.0017123	118.21	S(0.006)YS(0.992)PS(0.002)FQR	2	-0.074465	14701.0	14729.4
Slc4a3	0.714567	1.24E-05	77.204	GS(0.715)PS(0.285)GLAPILR	2	0.26556	8022.3	7797.3
Dcaf5	0.903614	1.68E-11	54.008	T(0.001)QS(0.002)DDS(0.024)EER	4	0.082392	1098.4	906.0
Stk3	0.999986	8.29E-59	121.26	ELEDEEENS(1)DEDELDSHTMVK	4	0.30371	98564.2	124126.9
Cnm4	0.967295	0.0020468	59.227	SPAHPPT(0.033)PLS(0.967)R	2	-0.73176	7516.7	8081.4
Bicc1	0.986748	6.28E-08	89.506	S(0.002)PS(0.011)HS(0.987)GNAG	3	0.9091	13328.2	11253.2
Srsf12	0.997502	0.00352391	41.399	HCDS(0.002)IARS(0.998)PCK	3	-1.4834	5451.3	6346.0
Tanc2	0.993093	3.94E-46	103.71	SCDELSPVS(0.993)PT(0.007)QGGY	3	-1.2715	32962.1	38958.0
Pgm1	0.969258	1.97E-63	111.84	AIGGIILT(0.031)AS(0.969)HNPGGF	4	-1.0231	297561.6	120057.3
Rhbdf1	1	2.14E-19	138.19	LRQEVVS(1)AAGPR	3	-0.40683	13550.0	12218.5
Dmtn	0.999793	0.000983261	94.309	ECSLS(1)PK	3	0.059648	86965.4	75591.7
Fry	0.829034	0.00503256	92.838	S(0.829)T(0.103)PS(0.068)LNK	2	-0.064535	35669.5	33700.5
Mtcl1	0.796814	1.84E-06	55.975	S(0.203)PS(0.797)PLGVGSEMYR	3	-2.2459	4495.9	5277.8
Sbf2	0.835465	0.00236675	46.88	TDHS(0.009)LRHS(0.835)S(0.156)F	3	-0.24853	1617.2	1730.1
Ssfa2	0.5	0.00140411	48.405	T(0.5)LS(0.5)KLNLCVDK	3	0.81691	17663.6	13363.7
Ssfa2	0.5	0.00140411	48.405	T(0.5)LS(0.5)KLNLCVDK	3	0.81691	17663.6	13363.7

2291.3	2508.6	4102.3	2645.2	0.2	0.7	234
4174.6	4422.8	4312.1	3860.5	0.2	0.2	22
7127.0	8309.6	9106.8	8085.7	0.2	0.1	1266
7127.0	8309.6	9106.8	8085.7	0.2	0.1	1267
3005.7	3351.8	3765.7	3462.2	0.2	0.0	33
1921.6	2632.2	2269.4	2760.2	0.2	0.2	406
82871.7	109129.2	108371.2	92641.0	0.2	0.1	823
23090.0	26397.9	26592.1	24095.0	0.2	0.0	1151
5861.3	6693.9	7199.2	6486.6	0.2	0.0	2622
16158.1	22286.3	17704.2	16369.0	0.2	0.3	322
18204.3	20906.9	21650.7	18851.0	0.2	0.0	2076
3068.6	3366.9	3578.4	3532.9	0.2	0.0	219;219;219;219
38438.9	42145.0	49774.2	38765.0	0.2	0.2	265
37018.7	42914.9	43172.1	43286.0	0.2	0.0	265
8381.3	8536.2	9421.6	8857.1	0.2	0.1	351
17052.4	17939.2	19581.8	18469.0	0.2	0.0	1272;1146
10316.9	12693.5	12020.1	11016.0	0.2	0.0	883
24066.2	25730.3	26316.4	24166.0	0.2	0.1	54
15851.5	16612.7	18557.0	16822.0	0.2	0.0	217
7121.9	8920.2	8907.5	8514.7	0.2	0.0	296
1207.5	1328.8	1198.1	1161.4	0.2	0.2	749
105659.3	182703.3	96399.2	97942.0	0.2	0.6	243
8972.9	10189.8	9272.9	8752.2	0.2	0.1	658
14552.6	14992.5	15073.2	14873.0	0.2	0.1	558
6023.6	6033.1	7327.4	7106.3	0.2	0.1	223
34839.3	38527.2	41800.0	42287.0	0.2	0.1	1903
117525.8	220068.9	291739.8	102810.0	0.2	0.8	117
14600.5	15038.6	17402.9	13923.0	0.2	0.2	347
99529.1	103431.4	108413.9	89177.0	0.2	0.2	87
33501.1	45439.3	41184.5	31553.0	0.2	0.3	2506
5779.7	7789.1	4329.8	5748.7	0.2	0.5	1467
2175.8	2006.2	2343.0	1995.9	0.2	0.3	1661
12514.9	16357.5	16967.9	16699.0	0.2	0.2	299
12514.9	16357.5	16967.9	16699.0	0.2	0.2	297

Mast4	0.622424	5.07E-05	64.244	ALS(0.129)VT(0.622)AAT(0.248)G	2	0.50443	8672.1	7843.4
Hba2	0.959488	4.26E-05	54.898	FLAS(0.959)VS(0.039)T(0.002)VLT	3	-0.38876	950.7	1202.4
Arvcf	0.990582	1.91E-09	126.34	DIPSYGS(0.991)LS(0.009)R	2	0.41319	36313.5	33753.2
Wasf2	1	0.0208082	51.436	GS(1)VLGPK	2	0.53435	7360.4	7799.8
Eef1d	0.951368	0.0132376	41.242	AS(0.951)QAEGT(0.049)RR	3	-0.5343	10519.9	9259.3
Ncl	1	2.21E-05	52.862	LELQGRGS(1)PNAR	3	0.15838	7803.1	8975.8
Trim2	0.957024	5.44E-05	90.689	RPASMYS(0.957)T(0.043)GK	2	0.77992	37637.4	32910.7
Chat	0.5	2.79E-21	141.73	ADS(0.5)VS(0.5)ELPAPR	2	0.37192	23336.0	22402.3
Akap1	0.905534	2.18E-11	67.838	TYVS(0.002)CLS(0.073)S(0.906)PL	3	-0.22156	10509.4	8554.5
Nup107	0.931782	7.40E-19	74.214	SGFGGMS(0.068)S(0.932)PVIRDPE	3	1.3169	22019.2	19425.3
LOC10091	0.999961	1.70E-33	96.128	S(1)VIDPIPAVGDSDNVDSGAK	3	0.081422	10326.8	9789.6
Nacad	0.757212	5.93E-20	60.177	AFQS(0.242)S(0.757)PGPPDPCLCP	5	-0.038059	22592.9	24948.2
Arhgef26	0.995873	3.74E-10	46.709	LPS(0.996)QGNELPNPS(0.002)VIL	3	0.13105	3224.4	3360.3
Add2	0.999485	1.10E-71	133.65	SAGPQSLLAS(0.001)VIAEKS(0.99	3	-1.9684	127235.0	88907.1
Lmod1	0.938322	0.000208997	47.916	GS(0.103)PKPS(0.938)PQPS(0.958	3	-0.32622	23830.9	24018.0
Ank2	0.781289	0.00120642	60.301	GKT(0.219)S(0.781)PAEEK	3	0.43062	37419.1	33848.6
Fgd5	0.530822	3.60E-05	88.596	S(0.531)LS(0.469)NSPQLK	3	0.30682	2999.8	3217.7
Dgkz	0.997078	0.00213596	46.88	RPQNT(0.003)LKAS(0.997)K	3	-2.2395	19942.8	19379.2
Tmcc3	1	3.36E-07	68.283	NKFGS(1)ADNIAHLK	3	0.74885	73621.7	63611.2
Map9	0.615312	2.63E-46	101.04	S(0.12)T(0.12)S(0.615)S(0.144)GEI	4	0.34633	8145.2	8867.8
Ina	0.85391	3.66E-08	56.719	VGES(0.033)FEET(0.854)LEET(0.1C	3	-1.8358	4329.7	4975.4
Usp33	0.986517	0.0495006	53.965	LS(0.013)AS(0.987)PPK	2	0.32813	5782.9	7088.4
Irs2	0.993643	0.00354638	41.621	LCPS(0.994)LPAS(0.542)S(0.464)PI	3	2.2527	7635.8	6143.2
Nufip2	0.511678	8.50E-29	144.97	NLS(0.512)S(0.484)DEAT(0.005)NI	2	-0.087045	8797.9	9153.9
Ccdc88a	0.861665	4.13E-06	60.549	S(0.069)S(0.069)S(0.862)QENLLDE	2	-1.9662	4115.6	3509.1
Acap2	0.879512	2.28E-22	87.062	FVDKYSTLLS(0.12)PS(0.88)EQEKR	4	0.042969	13256.6	14146.9
Habp4	0.999995	2.35E-33	77.731	GALGS(1)PVAAAGAAMQETFGCVV	3	-0.85787	27326.7	22878.4
Blzf1	0.99966	1.26E-07	49.765	SVEVTHGVQPINQHVLP(1)PR	4	-0.12537	4888.6	5074.3
Rrp9	0.999438	0.000210727	85.533	RVPVS(0.001)PVAGS(0.999)	2	-0.23428	10220.5	9798.3
Nes	0.97566	1.65E-66	124.82	LIEKES(0.976)QES(0.023)LRS(0.00	4	0.10615	116789.6	97375.3
Mrvi1	1	0.003696	51.998	RVS(1)VAVVPK	3	-0.74466	3940.0	3541.9
MAST1	0.5	0.000693115	51.276	LHS(0.5)S(0.5)PPIVRPR	3	-0.19228	3451.1	3151.2
MAST1	0.5	0.000693115	51.276	LHS(0.5)S(0.5)PPIVRPR	3	-0.19228	3451.1	3151.2
Tbc1d10b	0.780226	6.00E-13	63.225	QQPPLGPS(0.007)S(0.022)S(0.069	3	-0.7106	9426.0	8503.9

8317.7	9596.4	9942.6	8994.1	0.2	0.0	2291
830.9	1194.6	1043.9	1190.5	0.2	0.3	132;132
35927.4	39322.5	44497.3	37990.0	0.2	0.1	140
7884.8	8475.6	9254.3	8754.5	0.2	0.0	284
8581.0	11505.6	11486.9	9600.8	0.2	0.2	270;275
7866.5	8976.2	11054.1	8295.5	0.2	0.3	567
33897.1	43084.3	40302.8	36659.0	0.2	0.1	476
21308.8	26199.9	24186.6	26676.0	0.2	0.0	365
9051.2	11019.4	10962.1	10334.0	0.2	0.1	392
19395.6	24139.7	23269.7	22524.0	0.2	0.0	11
10491.6	12168.9	12710.5	10306.0	0.2	0.1	197
22534.2	26495.8	31250.4	22811.0	0.2	0.2	1101
3157.0	3760.1	3837.6	3601.7	0.2	0.0	221
54840.8	45799.0	135536.1	130220.0	0.2	0.7	528
24923.3	29293.0	26785.6	27603.0	0.2	0.0	507
41780.8	41600.5	45829.9	42573.0	0.2	0.1	1675
2950.1	4572.1	3046.9	2923.6	0.2	0.4	755
19328.6	20691.3	27188.4	19568.0	0.2	0.3	259
67253.4	82022.9	79252.8	73888.0	0.2	0.1	185
8249.9	9489.0	10555.2	9010.5	0.2	0.1	160
3898.6	5700.4	5181.2	4305.0	0.2	0.3	479
5875.7	10417.9	5571.4	5573.2	0.2	0.6	407
6679.0	10069.5	6898.1	6570.4	0.2	0.4	612
9655.2	9951.1	12007.3	9809.1	0.2	0.1	112
4037.4	5115.7	4203.1	4101.5	0.2	0.2	1676
11778.1	15596.3	17316.3	12182.0	0.2	0.3	523
24626.2	27654.1	30656.2	27820.0	0.2	0.1	7
5172.9	5270.3	5876.4	6275.4	0.2	0.1	53
10919.0	12171.1	13315.3	10128.0	0.2	0.2	478
121145.6	135592.0	124005.4	126430.0	0.2	0.1	723
3803.5	4523.0	4220.6	4249.1	0.2	0.0	640
3371.8	3755.6	4401.9	3326.3	0.2	0.2	1243
3371.8	3755.6	4401.9	3326.3	0.2	0.2	1244
8333.7	10357.3	10649.5	9235.1	0.2	0.1	644



Srrm1	0.620055	0.000183742	52.862	AKS(0.374)PT(0.62)PS(0.503)PS(0.	3	-0.23427	20017.9	24272.5
Dpysl3	0.999715	4.35E-73	158.33	NLHQSGFS(1)LSGTQVDEGV	3	-0.77566	35945.0	34988.3
RGD15611	0.991336	1.55E-14	77.996	KPS(0.991)VGVPLS(0.008)PSLPR	3	0.45505	42734.9	44475.5
Exoc8	0.989926	0.0645483	51.346	PS(0.01)PPS(0.99)VK	2	1.4474	6753.1	10578.2
Csnk1e	0.897681	0.000311748	74.611	IQQAGNT(0.102)S(0.898)PR	2	-1.2996	8100.3	7389.6
Haus8	0.975625	0.00979401	43.549	KDHS(0.976)PT(0.024)QDR	3	-0.095505	5274.0	5628.4
Zc3h4	0.936522	2.34E-71	103.34	T(0.014)GT(0.05)GS(0.937)PFAGN	3	0.63448	68251.1	65814.9
LOC10369	0.980845	0.00180675	89.886	S(0.008)T(0.011)S(0.981)PVDRK	2	0.8012	19412.1	18300.9
Cdc42ep1	0.999995	1.68E-54	115.55	NAIS(1)LPQLNQATYDSLVS	3	-0.63756	33720.6	29625.5
Asap1	0.929473	6.82E-13	72.316	S(0.049)PRPQS(0.929)FCHS(0.018	3	-0.54605	20112.2	17934.6
Atp8b2	0.936955	1.20E-39	117.65	Y(0.001)PS(0.385)S(0.455)IS(0.163	4	0.035866	51794.5	47137.7
Hecw1	0.618851	0.00510335	52.579	FS(0.619)S(0.381)VDSAK	3	0.88116	2896.1	3028.3
Fam171a1	0.887931	0.00564816	51.276	HS(0.888)Y(0.112)IDLQR	3	0.32885	2453.7	2309.9
Arhgap39	0.71015	5.76E-07	55.546	S(0.144)S(0.144)LT(0.71)PVKAET((	3	-1.008	6862.4	6260.4
Syn2	0.627091	0.00194393	95.358	S(0.373)FAS(0.627)LFSD	2	0.14342	13235.2	13206.9
Bag3	0.693582	4.44E-33	106.63	S(0.022)QS(0.694)PLRGGVT(0.279	4	-0.20129	18991.0	19848.7
Plekha4	0.901894	6.78E-42	156	ALS(0.003)S(0.094)S(0.902)QS(0.0	2	-1.5205	27672.5	24188.1
Ssfa2	0.993379	1.99E-42	98.281	SLS(0.001)VS(0.006)LS(0.993)EDG	2	0.017985	101369.4	83587.1
Mast2	0.969531	1.21E-07	51.001	T(0.004)GEPANS(0.97)QDLET(0.01	3	1.8484	7145.9	9806.5
Prx	1	0.00201921	68.657	MPRLS(1)FPR	2	0.48014	10184.1	8782.9
Rrm2	0.999076	1.53E-06	46.971	APLAT(0.001)IADQQQLHLS(0.999)	4	1.1314	5464.7	5414.4
Arhgap5	0.999494	4.25E-05	46.877	ESTHQSEDEVFLPS(0.999)PR	3	0.86734	16074.9	18608.1
Bag3	0.831474	2.88E-05	69.815	AT(0.02)S(0.831)PFRS(0.149)PVR	3	0.21081	7116.1	6427.0
Ncor2	0.937316	0.00301451	80.24	EPAS(0.047)S(0.937)PS(0.015)K	3	0.15171	36029.7	28604.2
Clcn2	0.999964	3.78E-13	72.772	SQVVALLGAQLS(1)PAR	3	-0.058	1100.8	1866.5
Dctn1	0.703733	5.49E-07	90.975	MS(0.292)T(0.704)EAS(0.004)ARP	3	-0.2183	8799.0	9827.7
Slc4a4	0.848324	1.36E-05	115.92	ERS(0.148)S(0.848)T(0.004)FLER	3	-0.16695	16843.0	11214.9
Caskin2	0.658098	1.76E-61	87.544	LLTFQGS(0.002)ELS(0.658)PELQA/	5	-0.85353	1843.9	1518.8
Mtfr1l	0.988812	2.33E-29	152.32	AS(0.011)S(0.989)FADMMGILK	3	0.85651	258370.2	226063.2
Sipa1l2	1	5.89E-08	100.02	FSFYGNLS(1)PR	2	-0.027579	6952.7	6051.9
RGD13099	0.999398	1.31E-25	107.97	YSES(0.001)NFS(0.999)VDDQDLSR	2	-0.072236	47426.9	43918.3
Unk	0.998226	1.70E-09	52.249	KIS(0.998)NLEGLVFPGEAS(0.002)L	4	2.3531	10732.8	10648.1
Ahnak	0.870771	9.01E-13	103.83	LSS(0.024)S(0.024)S(0.871)S(0.08	2	0.72199	38234.9	36655.6
Cdc42ep4	1	1.60E-31	89.272	VKEGPGGIVQGPPMLEAS(1)PR	4	0.67696	14997.9	14354.2

19463.8	32676.5	19928.1	20809.0	0.2	0.5	727
36667.3	41702.8	42749.0	39458.0	0.2	0.0	652
49228.0	54391.9	54209.1	48533.0	0.2	0.1	968
8715.7	7428.0	10438.5	12137.0	0.2	0.5	366
7295.2	9003.2	9201.2	8042.8	0.2	0.1	363
4970.2	5507.9	6665.1	6111.5	0.2	0.1	296
70888.1	80759.0	86099.6	69257.0	0.2	0.1	1188
20077.0	23552.3	21848.4	21178.0	0.2	0.0	329
29333.0	36205.2	37772.3	32806.0	0.2	0.1	121
17959.4	20622.0	22460.8	21452.0	0.2	0.0	750
55170.8	62542.6	63958.3	51097.0	0.2	0.2	629
2965.1	3677.9	3431.1	3136.0	0.2	0.0	708
2470.4	2895.6	2812.8	2628.7	0.2	0.0	598
6800.7	8383.1	8395.2	6183.7	0.2	0.3	532
13776.5	15198.1	16211.3	14944.0	0.2	0.0	582;575;700
14814.5	21389.8	24019.9	16429.0	0.2	0.4	138
28987.0	30256.6	30747.0	32187.0	0.2	0.1	556;484;556
71061.7	95853.8	115862.4	83391.0	0.2	0.4	330
7781.5	8441.6	10237.0	9834.8	0.2	0.3	1620
9323.4	10161.3	12794.9	9658.0	0.2	0.2	361;361
5008.6	6474.1	6114.5	5732.6	0.2	0.0	20
20022.7	17941.4	24299.9	20847.0	0.2	0.3	967
6099.3	7452.3	7834.3	7366.2	0.2	0.0	267
34502.9	38586.6	39828.4	35935.0	0.2	0.1	1930
1136.5	1616.6	1537.9	1579.4	0.2	0.4	647
8958.0	10594.0	11714.5	9512.5	0.2	0.1	20
13114.3	15967.0	15444.0	16089.0	0.2	0.3	1070
1791.5	2060.1	1872.6	2013.8	0.2	0.1	672
250222.8	294448.2	288010.2	265180.0	0.2	0.0	235
6909.0	7898.7	8135.4	6942.5	0.2	0.1	1478
49683.6	55388.5	55386.7	51950.0	0.2	0.0	593
11635.5	12968.5	12703.0	12426.0	0.2	0.0	394
43383.1	42898.4	51048.1	42551.0	0.2	0.2	5547
14765.5	16101.2	19484.6	15332.0	0.2	0.2	253

Vipas39	0.694117	2.15E-38	75.529	NSFYTQLPKPPS(0.053)T(0.189)YS(	4	0.057584	10279.0	9102.5
Dpysl4	0.81885	0.0721382	49.536	S(0.001)NIT(0.14)S(0.819)LS(0.04)	2	-0.61099	3673.1	3546.2
Edc4	0.901083	0.00177509	57.414	T(0.047)KGS(0.151)PRT(0.901)S(0	4	-0.45855	24773.1	26093.4
Ptpn11	0.999887	0.000885095	87.323	GHEY(1)TNIK	3	-0.91504	40625.0	31098.6
Gpsm2	0.890543	8.66E-05	69.261	AS(0.109)FS(0.891)NLPGLR	2	1.4435	3555.4	2473.9
Etl4	1	0.00167932	71.221	NRPGS(1)LDK	3	0.45197	40217.2	44757.4
Epb41l3	0.999991	7.37E-08	63.869	RLS(0.918)ES(0.082)LAPIKEAES(1)	3	-0.083635	27985.0	24095.9
Rtn4	0.880086	5.65E-70	117.83	LS(0.003)AS(0.117)PQELGKPYLES(	4	-0.33834	48622.0	43687.9
Ptpdc1	0.555095	5.62E-30	83.312	T(0.124)FS(0.555)VGVS(0.264)CS(i	3	1.0952	12303.7	11681.0
Mllt4	0.862228	6.59E-07	62.732	LFS(0.138)QGQDVS(0.862)DKVK	3	0.41823	21480.2	18770.4
LOC68801	0.529505	0.000855883	79.86	ES(0.025)S(0.53)VEES(0.441)T(0.0	2	0.84252	4001.7	3830.4
Plcx2	0.975812	0.00043132	43.405	MGT(0.01)ICS(0.976)PNPS(0.011)(	3	-1.8982	7994.4	8643.5
Ccdc8	1	0.00211698	83.438	VEAAAS(1)PR	2	0.17692	16530.5	15634.3
Ap3d1	0.559862	0.0110446	50.353	S(0.439)S(0.56)PS(0.001)PQKR	3	0.45655	21149.8	23410.4
Kif13b	0.766657	3.54E-06	44.158	T(0.004)EEAQGS(0.767)PGPS(0.2	3	1.0908	3605.7	3549.4
RGD13099	0.836275	6.47E-13	107.44	HS(0.836)FS(0.164)AGPELLR	3	0.23272	41434.9	34016.4
Otud7b	0.606772	3.62E-05	49.343	GIS(0.745)HAS(0.213)S(0.358)S(0.	2	3.0051	9670.0	10678.7
MAST1	0.744716	1.15E-26	114.01	VYS(0.2)S(0.745)MEQLS(0.055)QH	3	-1.0941	67417.4	63198.7
Osbp	0.698925	2.73E-118	157.73	T(0.045)GS(0.226)NIS(0.699)GAS(i	5	-0.5981	15817.3	17338.9
Dhx57	0.988569	3.37E-06	125.68	DT(0.009)S(0.989)PET(0.003)CK	2	-0.80728	57607.6	78505.1
Efr3b	0.925663	6.56E-06	50.358	LCLPYIPQLT(0.074)DEDRLS(0.926)	4	-0.45547	4639.0	5026.1
RGD13047	0.752297	0.00836124	41.876	VS(0.028)IS(0.522)S(0.752)S(0.697	3	4.4269	10625.9	11129.3
RGD13047	0.697463	0.00836124	41.876	VS(0.028)IS(0.522)S(0.752)S(0.697	3	4.4269	10625.9	11129.3
Map4k4	0.964924	1.09E-08	101.39	T(0.003)T(0.003)S(0.017)RS(0.965	2	-0.74165	22103.9	20868.8
Cast	0.63654	0.0227429	71.692	MS(0.09)T(0.273)T(0.637)GAK	2	-0.067633	14368.2	13598.5
Mkl1	0.999972	4.33E-06	69.345	AASCCLS(1)PGAR	2	0.81242	6899.1	6577.1
Numb	0.99997	4.91E-11	139.98	RTPS(1)EADR	2	0.582	4772.5	4123.1
Ranbp1	1	0.0173227	71.708	LEALS(1)VR	2	1.2703	11895.2	9963.7
Dusp15	0.882026	2.82E-19	65.165	QGGTSAPSAT(0.008)T(0.008)AS(	3	1.4518	5150.9	4369.5
Prph	0.684327	5.11E-13	71.263	TTVPEVEPPQDS(0.316)HS(0.684)R	3	-0.57672	16428.0	16280.4
Zfp637	1	0.000406278	76.728	ALQEDS(1)PGVR	2	-0.34834	14115.4	19543.7
Cdc42ep4	0.999909	2.82E-40	121.44	TGEPDGES(1)LDEQATSSK	3	-0.23833	37423.9	34858.9
Kcna4	0.893274	8.64E-08	59.606	GAYSSHDPQGS(0.107)RGS(0.893)I	3	-0.06049	3960.5	3950.3
LOC10369	0.999996	4.16E-05	83.087	QHYGGG(1)PDHK	3	-0.45909	14882.3	17446.4

8099.4	11219.6	10021.6	10478.0	0.2	0.1	106
4565.3	4689.2	4351.4	4563.4	0.2	0.1	570;681
20625.3	27731.1	33208.1	21604.0	0.2	0.4	923
36061.6	42792.8	43993.9	37662.0	0.2	0.2	542
3725.7	3777.8	3697.2	3788.3	0.2	0.3	546
43980.4	53958.5	50726.4	44248.0	0.2	0.1	1607
27248.4	30430.4	32105.3	29084.0	0.2	0.1	1040
49535.7	53637.3	58722.0	51464.0	0.2	0.1	777
12569.2	14514.0	14505.8	13201.0	0.2	0.0	568
19142.3	23025.5	24495.5	21080.0	0.2	0.1	1810
3849.2	4007.2	4597.5	4888.0	0.2	0.1	489
7696.0	9604.0	9623.2	8882.5	0.2	0.0	18
16282.6	21554.8	16400.5	18010.0	0.2	0.2	481
19046.4	25183.6	26985.4	21318.0	0.2	0.2	686
4354.0	4917.9	4400.7	3978.4	0.2	0.2	1581
33494.7	47953.8	41650.4	36293.0	0.2	0.3	2072
11499.2	12876.1	12346.0	11585.0	0.2	0.1	105
65956.7	79689.9	79870.4	67651.0	0.2	0.1	719
15162.6	19228.4	19711.1	16911.0	0.2	0.1	257
51851.3	75517.7	65284.5	76469.0	0.2	0.3	304
5117.5	6085.9	5499.3	5503.5	0.2	0.0	689
11563.1	12713.3	13488.4	12316.0	0.2	0.0	160
11563.1	12713.3	13488.4	12316.0	0.2	0.0	161
24941.4	26639.9	29133.4	22742.0	0.2	0.2	647;678;678
13501.8	15507.2	17499.0	14941.0	0.2	0.1	48
6993.7	8024.0	8316.6	7327.7	0.2	0.0	513
4930.5	4966.1	5783.5	5237.9	0.2	0.1	379
10407.3	12231.6	11634.3	13447.0	0.2	0.1	187
4733.8	5099.1	6846.3	4538.6	0.2	0.4	197
16767.0	20165.6	18470.4	18591.0	0.2	0.0	469
15461.8	24099.0	15809.5	16915.0	0.2	0.4	68
41580.7	42991.9	47159.3	41580.0	0.2	0.1	64
4552.5	4435.6	5125.0	4859.8	0.2	0.1	82
13668.9	21291.9	16400.5	15528.0	0.2	0.3	364

Ablim3	0.603445	7.34E-07	75.376	S(0.239)KT(0.603)S(0.155)EDIS(0.0	3	-0.14429	13167.2	10570.6
Kif3c	0.99976	2.83E-07	84.508	LDS(1)FLERPSTSK	3	1.7067	26273.5	19419.8
Mapre3	0.853607	1.08E-21	88.548	LIGT(0.093)AVPQRT(0.854)S(0.04	3	-0.39634	116524.8	111117.5
RGD13115	0.531896	7.18E-07	42.057	S(0.183)NT(0.532)LPT(0.234)S(0.0	4	1.0898	3778.4	2933.6
Sec22b	0.646158	0.000580889	70.54	ANNLS(0.35)S(0.646)LS(0.004)K	2	-0.37398	14086.7	18730.9
Peak1	1	0.0132321	64.82	ANT(1)EPIPK	2	0.97302	10528.7	8787.8
Eif4g1	1	3.07E-06	88.163	EAT(1)LPPVS(1)PPK	3	1.4477	88360.9	76233.4
Ahnak	0.754686	1.46E-152	219.95	LSS(0.006)S(0.219)S(0.02)S(0.755)	2	-0.050455	68072.2	68812.8
Esyt1	0.911952	1.65E-08	47.175	S(0.002)PEEGAGPEPS(0.912)GQS(	3	-1.0987	3427.2	3351.4
Ahnak2	0.97525	2.84E-06	62.94	QDIADGCT(0.016)ET(0.975)PT(0.0	2	1.5082	24986.6	19440.6
Gas2l1	0.822714	0.010858	41.339	S(0.177)QS(0.823)RDRLDR	3	1.994	4758.1	4904.6
Enah	0.904919	4.22E-12	104.94	AAST(0.001)S(0.037)T(0.905)PEPT	2	-0.14132	19779.4	21763.9
Hivep2	0.517913	1.68E-25	73.676	S(0.518)PS(0.451)LGS(0.031)EDLP	4	-0.80046	7042.2	5566.0
Limd1	0.964625	1.78E-36	160.63	RDS(0.965)S(0.035)LGYEAPGR	2	0.35576	25828.7	25417.7
Syne1	0.757364	2.61E-08	58.123	GAVGLSGDPT(0.226)S(0.757)LES(	3	0.12485	2446.1	2809.9
Rc3h2	0.677105	6.80E-28	105.38	HS(0.154)S(0.677)T(0.154)GDLLS(	4	0.43095	14848.9	12260.2
Ahnak	0.991078	0.000186191	44.391	GPGVDLPS(0.991)VDLS(0.009)LPK	3	0.35126	4053.0	3501.9
Ppfia4	0.640421	2.41E-16	67.396	GS IPTS(0.001)LT(0.009)ALS(0.64)L	3	0.73449	1221.2	1404.9
Pacs1	0.992021	0.000572965	69.971	QLS(0.992)KPLS(0.008)ER	2	1.2108	20956.6	21241.8
Atr	0.988123	0.00535262	58.781	GS(0.012)NDGVS(0.988)PK	2	0.043589	6808.9	6026.0
Rasgrf2	0.607068	4.49E-05	58.658	KFS(0.393)S(0.607)PPPLAVSR	3	-1.4832	5043.6	4543.3
Ahsa2	0.668426	2.34E-08	44.74	KLT(0.668)ENALQAS(0.332)PVALG	3	-4.1669	15686.1	16574.4
LOC69138	0.866916	2.93E-47	138.75	S(0.867)VS(0.131)HGS(0.002)NHA	4	-0.59163	13005.0	14976.2
Nos1	0.989851	0.00810525	56.548	GTNGT(0.99)PT(0.01)K	3	0.23899	13218.5	12193.3
Syn1	0.912404	1.43E-66	98.631	QGPPLQQRPPQGGQHLS(0.912)C	4	-0.43868	6088.7	5964.0
Exosc9	0.5	0.0156543	62.633	AQT(0.5)S(0.5)ANQK	2	0.93676	6383.6	5007.5
Exosc9	0.5	0.0156543	62.633	AQT(0.5)S(0.5)ANQK	2	0.93676	6383.6	5007.5
Ank2	0.980795	0.000173214	78.513	HS(0.018)S(0.981)LT(0.001)SSAK	3	-0.11733	16363.6	15150.6
Clasp2	0.853963	0.000114985	87.831	ES(0.002)S(0.011)RDT(0.854)S(0.1	3	-0.89789	23468.4	29485.1
Akap6	0.998433	0.0233678	67.704	QLS(0.998)LLS(0.002)R	2	-0.53652	4626.5	4447.6
Tmsb4x	0.993419	1.51E-06	61.127	NPLPS(0.007)KET(0.993)IEQEK	3	0.56082	22745.6	21552.2
Col4a3bp	0.999993	0.00315283	64.103	FVQKPYS(1)R	3	0.48227	29236.2	27490.9
Bcr	0.982059	3.87E-10	46.557	KGPAQPGS(0.982)ADAEPFY(0.01	5	-0.076826	6737.2	7185.1
Ppp1r1a	0.999989	5.14E-17	147.75	STLSMS(1)PR	2	-0.37873	150420.7	139538.5

14513.2	13793.5	17203.0	13263.0	0.2	0.3	461
19715.0	24635.8	27755.9	23300.0	0.2	0.3	749
110914.4	131522.2	149781.1	110500.0	0.2	0.2	161
3368.0	4046.2	4225.4	3395.2	0.2	0.2	1271
15039.1	26335.2	14845.6	14220.0	0.2	0.6	175
9639.3	12044.6	11455.9	10020.0	0.2	0.1	1152
89187.2	97226.5	103858.3	92707.0	0.2	0.1	1217
81685.7	81958.0	92076.5	79001.0	0.2	0.1	5548
3204.0	3877.0	4153.6	3527.0	0.2	0.1	14
23306.1	27889.5	25441.2	25092.0	0.2	0.1	200;200
4530.1	4937.5	6532.0	4964.3	0.2	0.2	405
20018.5	23774.5	24352.3	23160.0	0.2	0.0	703
7119.6	7682.0	8472.8	6689.8	0.2	0.2	767
26233.8	29907.9	31022.7	28792.0	0.2	0.0	303
2742.4	2923.4	3399.6	2939.7	0.2	0.1	2550
11649.3	15708.5	15343.6	13837.0	0.2	0.1	879
3587.6	3884.8	4711.0	4309.3	0.2	0.1	4984
1491.6	1505.8	1750.2	1513.1	0.2	0.1	549
22369.2	24277.2	25465.8	25045.0	0.2	0.0	517
5730.5	7470.4	6880.8	7153.6	0.2	0.1	365
4771.9	5756.0	5930.5	4946.9	0.2	0.1	726
16446.6	19272.4	19654.5	17496.0	0.2	0.0	20
14551.5	17310.1	18375.3	13585.0	0.2	0.2	915
10209.8	18144.9	11856.6	11268.0	0.2	0.5	722
6601.2	7206.7	7440.3	6967.1	0.2	0.0	492
5888.7	6763.2	6956.4	6302.6	0.2	0.1	416
5888.7	6763.2	6956.4	6302.6	0.2	0.1	415
13689.2	16668.8	18014.1	17695.0	0.2	0.1	1819
21191.7	31322.5	25555.6	29045.0	0.2	0.3	549;759
4908.6	5482.4	5597.6	5125.2	0.2	0.0	1558
23272.0	24457.6	29985.1	23867.0	0.2	0.2	34
29814.2	34161.4	34570.6	31568.0	0.2	0.0	373
6564.5	8100.5	8481.9	7162.7	0.2	0.1	101
163699.4	175289.6	193285.6	157270.0	0.2	0.1	66



Pnmal2	0.840238	1.34E-16	69.935	AGS(0.002)GAS(0.157)T(0.84)EDH	3	0.021202	10217.9	9785.6
Usp14	1	0.000606915	44.998	GGT(1)LKDDDWGNIK	3	0.067204	13836.3	12535.5
Cdk14	0.755836	0.00027456	44.735	T(0.025)QS(0.219)T(0.756)FDPFEK	3	0.59078	13606.1	11945.4
Bcas1	1	0.00236675	88.364	KRLDS(1)PR	2	-0.37339	55131.6	62808.2
Numb1	0.976949	0.00203936	111.5	T(0.023)PS(0.977)EAER	2	-0.25191	35595.5	31111.8
Snx17	0.999197	0.050871	54.982	LS(0.001)AVS(0.999)LR	2	-0.2943	8751.5	7113.3
Mbp	0.999533	3.00E-08	116.52	TTHY(1)GSLPQK	3	0.39718	24563.2	24026.8
Rab3ip	1	0.0130669	47.712	KDS(1)CNAER	3	0.57305	7128.0	7513.4
Cep170b	0.994771	0.000250503	56.793	T(0.005)PPVLPAPLT(0.995)PR	2	-0.98983	9258.1	8800.4
Ssh1	0.757832	1.43E-30	71.098	LGS(0.005)LNFS(0.758)T(0.228)ED	3	0.58199	9260.9	8661.0
Palmd	1	2.23E-06	83.856	NEES(1)DDEQNRK	2	-0.64206	50431.3	41805.6
LOC69138	0.999905	1.86E-40	123.55	S(0.029)VS(0.971)HGS(1)NHAQNA	3	-0.36147	12093.8	12742.9
Slc1a4	0.916128	2.48E-46	148.7	VEAIPNS(0.022)KS(0.109)EEET(0.9	4	-1.0534	102803.0	102658.1
Chmp5	0.999999	2.46E-51	110.83	DNLAQQS(1)FNMEQANYTIQSLK	3	-1.1305	15581.2	14198.5
Slc20a2	0.887123	1.00E-06	96.82	ALS(0.109)MT(0.887)HGS(0.004)A	2	-0.27252	57248.6	56551.4
Ahnak	1	3.24E-06	69.03	IS(1)MPDFDLNLK	3	-0.10208	6774.2	6701.6
Akap6	0.832468	3.74E-05	58.246	S(0.027)LS(0.736)KDS(0.384)S(0.8	3	-0.026763	17576.5	16848.6
Slc2a13	0.951709	2.46E-14	69.088	SLLAAES(0.952)AAS(0.048)LQGAE	3	-0.1824	7007.9	7740.2
Stk32c	0.699463	1.22E-06	82.406	MS(0.699)MS(0.206)S(0.086)IS(0.1	2	0.072732	18857.5	18314.1
Rc3h2	1	0.0484839	45.603	WNS(1)LDEGR	2	-1.2797	10402.3	9595.7
Dpysl3	0.912582	2.04E-43	115.36	GGT(0.033)PAGS(0.054)T(0.913)R	2	0.91004	116168.2	119497.9
Csrp1	0.996936	2.05E-133	196.41	GYGYQGAGT(0.003)LS(0.997)MI	3	-0.70071	257416.0	271530.3
Wnk1	0.859839	0.000117407	47.113	DRPVS(0.008)QPS(0.86)LVGS(0.13	3	-0.017303	19487.2	19013.9
LOC10036	0.499997	1.42E-05	52.172	LS(0.5)S(0.5)PPGLFGAFSIR	3	0.20174	974.5	708.1
LOC10036	0.499997	1.42E-05	52.172	LS(0.5)S(0.5)PPGLFGAFSIR	3	0.20174	974.5	708.1
Scel	0.994331	0.0018855	57.52	Y(0.006)RS(0.994)EDMLDR	3	1.249	15225.7	14925.7
Nfix	0.94538	3.11E-10	47.331	S(0.945)PAAGS(0.026)S(0.009)QS(	4	0.18767	13480.9	12694.6
LOC10036	0.5	0.00105816	63.624	NLRPT(0.5)VES(0.5)R	3	0.56593	6915.6	7477.1
LOC10036	0.5	0.00105816	63.624	NLRPT(0.5)VES(0.5)R	3	0.56593	6915.6	7477.1
Golph3	1	1.90E-22	90.706	AAGGGGGS(1)GEDEAQRS	3	1.3969	3469.1	3147.5
Dock11	1	6.44E-15	116.78	RLS(1)KPGTAAELR	4	0.17225	72724.8	65678.9
Cdr2l	0.997838	0.00591717	57.532	T(0.002)IHT(0.998)FPCLK	3	0.61884	6079.6	7297.2
Sh3bp5l	0.752063	7.69E-12	45.276	ETPQGELRPEVVEDEVPRS(0.198)P	5	0.88946	4866.3	5452.8
Arhgap12	0.994325	0.00134962	83.883	S(0.994)T(0.006)ENVNK	2	-0.60246	74343.3	69260.3



8322.4	11705.8	10851.0	10277.0	0.2	0.1	613
12965.2	14242.3	16027.5	15332.0	0.2	0.0	52
12106.0	14170.8	15540.2	13944.0	0.2	0.1	79
49920.0	64697.4	77043.9	52906.0	0.2	0.3	340
32963.4	41232.0	36860.7	37495.0	0.2	0.0	370
7851.9	9295.9	8967.3	9242.1	0.2	0.1	440
24264.3	29718.7	27171.3	27616.0	0.2	0.0	94;68;94;68
7967.6	9023.3	9145.2	8057.5	0.2	0.0	111
9622.3	11133.8	10217.0	10760.0	0.2	0.0	557
10039.4	11093.1	10655.6	10691.0	0.2	0.0	839
52861.6	55241.1	60515.2	52599.0	0.2	0.1	163
12979.1	15983.5	14739.8	13154.0	0.2	0.1	920
90313.6	116925.7	128814.3	97448.0	0.2	0.2	503
16042.0	17529.0	18863.7	16775.0	0.2	0.0	86
59456.0	64414.7	74470.6	62154.0	0.2	0.1	318
6458.0	8048.6	7366.4	7715.8	0.2	0.0	1312
19243.4	21020.2	21477.6	19781.0	0.2	0.0	1327
6731.3	8570.6	8131.5	8232.0	0.2	0.0	44
21994.4	20578.0	26301.5	21817.0	0.2	0.2	69
9670.6	12111.7	11880.1	10459.0	0.2	0.1	913
107858.9	136549.0	141157.2	121220.0	0.2	0.1	632
340610.9	296021.2	380533.4	333240.0	0.2	0.3	81
17481.4	22131.2	23041.0	19849.0	0.2	0.1	168
701.4	736.2	1060.1	972.8	0.2	0.4	882
701.4	736.2	1060.1	972.8	0.2	0.4	883
14736.8	18589.3	18071.8	15479.0	0.2	0.1	90
12836.4	14368.8	15112.8	15834.0	0.2	0.0	301
6539.9	7820.1	9381.6	7114.8	0.2	0.2	1309
6539.9	7820.1	9381.6	7114.8	0.2	0.2	1306
2830.8	3409.9	4212.0	3353.5	0.2	0.2	35
70824.2	84846.5	80632.4	77593.0	0.2	0.0	12
6149.4	7522.3	7428.4	7738.6	0.2	0.1	106
4564.8	5765.8	5382.4	6147.4	0.2	0.1	41
79337.1	88807.4	89467.9	80795.0	0.2	0.0	101

Lmod1	1	0.00156998	58.079	QDS(1)DVGKEPK	4	0.51995	88333.4	84368.1
Map4k4	0.988706	0.00131253	41.088	RAS(0.989)HHES(0.011)NGFAGR	3	-0.087504	3202.9	3653.5
Map1a	1	0.0321595	40.767	EGET(1)LDQEAR	2	-1.459	6415.2	6818.1
Ctnnd1	0.880149	2.86E-08	115.33	VGG(0.12)S(0.88)VDLHR	2	-0.088196	15634.8	13749.8
Slc20a2	0.941136	0.00190696	40.941	NDGHVY(0.059)HT(0.941)VHK	4	-0.52568	7745.7	6977.0
Crmp1	0.995687	0.0113712	41.743	TIDFDAY(0.004)S(0.996)VGR	2	-0.41215	14737.9	13035.7
Brsk1	0.994414	0.00574556	71.066	VDS(0.994)PMLS(0.006)R	2	0.72685	9642.1	8467.0
Mre11a	0.777978	0.00225418	85.355	MS(0.012)QS(0.21)QT(0.778)AK	2	0.15682	11548.7	11499.0
Tnik	0.934225	0.00161465	65.842	QS(0.066)S(0.934)PAMPHK	3	0.083478	31170.7	35201.1
Hcn1	1	0.00185496	70.942	KNS(1)ILLQK	3	-0.32177	9252.1	8562.2
Numa1	0.999854	7.73E-30	120.9	VSSETHQGP(1)PESK	3	0.089337	44639.6	39894.8
Stim1	1	0.000633185	71.153	LPDS(1)PALAK	2	-1.6273	73148.2	67912.2
Akap12	0.833711	2.49E-59	140.2	SATLS(0.003)S(0.018)T(0.12)DS(0.	3	0.42301	51185.0	46357.8
Cep170	0.85579	4.70E-53	129.07	QKS(0.12)EEPS(0.856)VS(0.024)LP	3	-0.52109	22366.3	19393.5
Tmsb4x	0.999984	5.41E-27	114.86	TETQEKNPLPS(1)K	3	-0.48463	68555.2	73863.0
Cacna1e	0.967217	1.87E-13	67.194	GG(0.967)LKGDIGGLT(0.03)S(0.0	3	-0.59459	7832.7	7338.3
Cep170	0.890262	0.0448402	57.249	S(0.89)T(0.11)DIGAR	2	-0.35563	7284.3	5813.4
Ptpn13	0.52026	6.21E-07	88.075	T(0.401)S(0.52)S(0.079)PHIDVLSK	3	0.25931	9665.2	8733.4
Cep170	0.925338	9.86E-24	95.988	S(0.925)DS(0.07)EAT(0.003)IS(0.0	2	-0.83182	59936.9	60172.4
Fam160a2	0.648881	5.19E-11	52.642	EDITGPGSPS(0.001)VDS(0.025)S(0	4	-2.0305	6083.3	6975.3
Crtc3	0.809967	8.09E-20	76.049	LFS(0.184)LS(0.81)NPS(0.006)LSTT	3	0.16549	14394.4	16167.4
Tbc1d22a	0.5	0.0564161	57.931	VPT(0.5)T(0.5)PVK	2	-0.089725	8847.8	6612.0
Tbc1d22a	0.5	0.0564161	57.931	VPT(0.5)T(0.5)PVK	2	-0.089725	8847.8	6612.0
Tsc1	1	0.0191066	55.112	HGPDT(1)PK	3	-0.12499	10540.5	9439.4
Ubap2	0.998572	3.66E-05	111.63	ES(0.001)S(0.999)ENKENR	2	0.14945	26076.7	26487.2
Inpp5f	0.610648	3.62E-33	82.6	GLES(0.575)PLKKS(0.543)PS(0.243	5	0.15452	18070.3	18242.8
Fcho1	0.873326	0.0256717	40.714	KVS(0.873)CPLT(0.127)R	3	-0.39628	16965.9	13348.4
Clasp2	1	0.0128823	41.48	KPGS(1)AGGPK	3	-0.04096	28358.3	27416.3
Gpr64	1	0.00100116	56.493	RGS(1)LHFIEQM	3	2.1974	999.2	1044.3
Phlda3	0.852072	1.97E-06	77.42	ARQS(0.852)LGT(0.136)GT(0.007)	3	-0.28095	16379.1	14991.5
Arid1a	0.995188	2.72E-17	74.222	GSPS(0.002)PVGS(0.995)PAS(0.0	3	1.2693	12370.5	14117.3
Drp2	1	0.0245653	66.962	IEHFAS(1)R	2	0.41374	22897.1	20959.8
Otud3	1	1.99E-29	119.8	QRGPS(1)CEEAGGSR	3	-0.25242	2484.6	2189.1
Pde11a	0.999613	7.15E-13	85.973	AIHVNRT(1)YDEQVTSR	3	0.98051	12365.7	16005.1

73329.3	99457.3	73908.5	112540.0	0.2	0.3	119
2853.8	3660.9	4027.0	3596.2	0.2	0.1	868;898
6029.8	7916.1	7059.9	7412.8	0.2	0.0	1762
15750.3	17634.6	18701.3	16125.0	0.2	0.1	269
7033.5	7979.5	9058.4	8251.6	0.2	0.0	346
12661.8	16000.0	16469.9	14538.0	0.2	0.1	54
8972.0	10737.6	11224.0	9523.3	0.2	0.1	294
11724.9	13977.2	13615.6	12838.0	0.2	0.0	678
29218.0	49243.0	31250.4	30665.0	0.2	0.5	464
10504.3	10028.4	10883.1	12023.0	0.2	0.1	588
42826.3	53056.6	51872.0	43200.0	0.2	0.1	1980
78422.6	88730.4	88179.2	78364.0	0.2	0.1	575
54430.9	58570.7	63270.1	54921.0	0.2	0.1	635
21970.0	25369.5	26135.8	22620.0	0.2	0.1	509
71259.7	80008.9	102755.5	65778.0	0.2	0.3	31
7777.6	9332.4	9385.8	7977.9	0.2	0.1	836
6284.0	7529.3	7749.5	7269.8	0.2	0.1	1047
8871.0	10761.6	10979.2	9986.4	0.2	0.0	282
66697.7	69662.6	74850.0	72847.0	0.2	0.0	1217
6966.6	5863.0	8740.2	8697.5	0.2	0.3	506
19380.7	22204.9	16324.6	19585.0	0.2	0.3	369
7579.7	8853.2	10591.3	7366.8	0.2	0.3	50
7579.7	8853.2	10591.3	7366.8	0.2	0.3	51
10540.8	12880.5	11347.9	11291.0	0.2	0.1	547
26342.4	32025.3	30727.8	29081.0	0.2	0.0	76
19690.6	21887.0	23360.6	19935.0	0.2	0.1	948
14808.1	18317.6	17502.2	16702.0	0.2	0.1	242
27135.6	33881.0	30438.2	32210.0	0.2	0.0	47;280
943.8	1208.0	1190.8	1079.2	0.2	0.0	940
18408.7	19500.1	21415.6	17043.0	0.2	0.2	117
12823.6	15646.9	14591.3	15538.0	0.2	0.0	699
20310.2	23206.9	27978.2	23544.0	0.2	0.1	648
1877.5	2626.3	3057.8	1945.6	0.2	0.4	291
14348.2	17378.3	16829.0	15554.0	0.2	0.1	136

Rab11fip5	0.911269	8.73E-23	66.884	KYDLES(0.087)AS(0.911)AILPS(0.0	4	0.14754	9048.1	8414.9
Epb4.1	0.983117	0.00504224	87.476	LLS(0.017)S(0.983)FLK	2	1.2616	4389.1	3900.4
Cdc37	1	1.77E-29	79.663	S(1)GEAKEGEEAGPGDPLLEAVPK	4	0.63458	5844.0	5426.3
Mtmr2	0.539918	1.21E-07	56.817	AS(0.54)S(0.46)PAQCVTPVQTVV	3	0.90448	3497.7	3749.3
Ahnak2	0.722238	2.20E-10	49.076	MPSFGVS(0.001)VP GKPT(0.083)VI	4	0.42471	15978.3	16080.8
Kcnb2	0.952715	8.60E-88	139.67	S(0.953)FT(0.047)EIDTGEDEDFDL	5	1.0239	16400.5	15174.7
Wwc3	0.908811	3.90E-30	135.95	S(0.909)LDT(0.091)PQSLASLSSR	2	0.029082	29923.1	36337.5
Map1b	0.974569	7.83E-08	88.768	S(0.975)VNFS(0.02)LT(0.005)PNEI	3	2.017	14438.6	14665.8
LOC100361	0.999994	3.15E-16	103.88	TPGAGGS(1)VHLLGR	3	0.19268	3532.1	4101.3
Nes	0.985002	1.65E-66	124.82	ES(0.014)QES(0.985)LRS(0.001)PE	3	0.24099	114579.5	96226.9
Pard3	0.834157	0.000928252	74.611	WS(0.834)T(0.158)T(0.008)AGFLK	2	-0.092432	10233.4	10644.5
Ank2	0.551585	1.21E-27	81.974	QMGSTEGESDVPVLVT(0.145)S(0.5	3	-0.7967	3663.2	5213.7
Sf3b1	0.99543	7.48E-13	97.631	GS(0.004)ET(0.995)PGAT(0.001)PC	3	-0.36331	59310.8	51145.8
Stim1	1	0.000642219	41.695	LIEGVHPGS(1)LVEK	3	-0.23187	2497.7	1986.5
Pex5l	0.991194	0.0123333	62.166	WGS(0.991)ALLS(0.009)R	2	-0.50795	8106.5	7422.8
Pkp4	0.824802	3.72E-27	102.61	AAS(0.825)PYS(0.175)QRPAS(0.75	3	0.23625	13919.8	11290.5
Psmb10	1	8.37E-05	51.771	NAS(1)LEHVLPLGR	3	0.40873	1404.6	1320.8
Sh3pxd2a	1	0.00335065	55.04	RWT(1)LGGMVNR	3	0.052765	1789.9	1906.3
F2	0.736827	2.71E-05	41.214	S(0.737)RGS(0.224)KENLS(0.039)F	4	1.1422	5612.9	5380.5
Prrc2a	1	0.000643104	64.64	RPGGPS(1)PLK	3	1.0507	10088.3	10609.6
Arhgef28	0.77818	4.51E-10	77.644	QRS(0.222)LPAVFS(0.778)PGSK	4	0.064627	3418.5	4443.7
Eefsec	1	0.000167043	58.116	AGNS(1)PEGHCPR	3	0.047433	2383.8	2503.2
RGD13098	1	0.00422173	58.699	LGS(1)HAGPK	2	-0.84146	15383.2	15866.9
Ranbp3	0.630206	3.38E-15	122.12	ERT(0.05)S(0.63)S(0.307)LT(0.013	3	0.25051	31130.1	31992.6
Ahnak	0.958915	1.04E-09	53.481	GPSFNMAS(0.008)PES(0.033)DFG'	5	-0.38237	12422.9	11460.6
Pnmal2	0.911947	0.00606245	42.682	KAGS(0.912)S(0.088)EGAAR	3	1.0825	15473.8	11576.8
LOC100911	0.902398	4.00E-21	139.78	S(0.001)AS(0.097)S(0.902)DPQDQ	2	0.43186	45462.6	34571.5
Dync1li2	0.995435	4.04E-30	124.77	T(0.034)S(0.08)ES(0.886)PARGPS(	3	-0.08191	8900.3	9752.5
Arhgap31	0.777212	7.83E-16	91.355	MHAS(0.001)S(0.008)T(0.04)GS(0.	2	0.56291	35770.8	47096.0
Nckap5l	1	0.00413157	60.255	VDLEPIS(1)PR	2	0.39871	4289.0	4237.6
Bod11l	0.850414	0.00752961	80.755	S(0.85)LMGT(0.15)AK	2	0.093983	11058.5	11695.3
Atxn2	0.596739	0.000230761	66.758	ALT(0.403)PS(0.597)IEAK	3	0.025638	12648.4	13474.5
Vipas39	0.986513	1.73E-59	141.08	TRPGS(0.013)FQS(0.987)LSDALSD'	5	-0.58164	18483.0	15366.7
Cep170b	0.927051	2.46E-42	90.712	RS(0.069)DT(0.927)LPDHT(0.004)F	5	0.26506	21700.8	20005.5

7844.1	10664.0	9165.8	9649.6	0.2	0.1	209;209
3764.8	4800.1	4904.2	4339.6	0.2	0.1	85
5697.6	6088.3	6708.3	6972.2	0.2	0.0	349
4681.2	4265.0	5142.6	4489.6	0.2	0.2	630
17315.3	17262.8	21024.5	19242.0	0.2	0.1	658
16344.4	18650.9	18471.5	18718.0	0.2	0.0	799
38985.1	43503.4	37015.7	42125.0	0.2	0.2	478
17053.4	17751.1	18734.4	17303.0	0.2	0.1	1268;1142
4566.1	5238.2	4570.1	4408.8	0.2	0.2	483
118047.5	136021.0	123214.6	124080.0	0.2	0.1	726
10210.4	11471.5	13328.1	11438.0	0.2	0.1	174;174
5028.0	5650.5	5439.5	5119.4	0.2	0.2	2645
54018.9	69444.9	64474.5	57854.0	0.2	0.1	244
2175.8	2763.9	2773.8	2228.2	0.2	0.2	567
7703.9	8729.1	9261.9	9101.5	0.2	0.0	229
14359.9	15034.2	15437.6	15673.0	0.2	0.1	272
1438.4	1707.5	1682.3	1466.2	0.2	0.1	22
1505.7	1886.5	2262.7	1917.5	0.2	0.2	205
5684.8	6648.8	6724.4	6078.6	0.2	0.0	201
9975.8	11791.6	13089.8	10894.0	0.2	0.1	1691
3806.9	4760.8	4535.5	4315.2	0.2	0.1	1541
2059.0	2812.9	2628.1	2662.5	0.2	0.1	388
15796.1	19945.6	18413.8	16540.0	0.2	0.1	19
27549.7	38554.7	36089.2	31177.0	0.2	0.1	57
12332.8	12796.9	15603.3	13883.0	0.2	0.1	5248
12987.6	17224.3	14802.9	14722.0	0.2	0.2	146
49603.8	53902.4	58694.2	38791.0	0.2	0.4	554
8449.4	11320.8	10316.9	10012.0	0.2	0.1	391
40822.6	38369.9	57208.8	48867.0	0.2	0.3	387
4573.8	4998.8	5634.1	4666.7	0.2	0.1	762
12257.2	13201.7	14027.0	13661.0	0.2	0.0	1402
13003.5	15996.7	17336.6	12364.0	0.2	0.2	514
16213.4	20036.9	20017.8	18416.0	0.2	0.1	122
20716.9	24776.6	26704.3	21427.0	0.2	0.1	161

Farp2	0.506861	6.36E-07	54.834	T(0.392)RT(0.297)S(0.297)LHT(0.5	4	0.11702	9641.7	8610.5
Pcnx12	0.81285	5.27E-05	47.223	VLS(0.813)VDS(0.185)GT(0.002)D	3	-0.72648	3950.8	3526.9
Kif13b	0.970174	1.09E-81	163.68	LS(0.03)GS(0.97)RQELSPSHLSSNK	3	-0.09479	39564.8	39947.4
Mark1	0.998561	1.63E-52	114.57	SAAYSGPPAS(0.999)PS(0.001)HDT	3	-0.39233	14884.6	18762.7
Agfg1	0.999851	2.03E-54	99.269	SLLGES(1)APALHLNK	3	-1.1034	86421.6	80433.5
Nup153	0.701093	0.0731263	49.3	NS(0.701)T(0.299)VDEK	2	0.27372	6201.5	5183.6
LOC10090	1	0.00154757	45.332	VAQADS(1)KIEEK	3	0.45788	28870.0	26525.6
Arhgap31	0.944934	2.91E-09	69.878	S(0.945)MDS(0.055)LCSVPVEGK	3	-0.16948	46496.6	41335.0
Gys1	0.857519	1.94E-18	135.5	RAS(0.14)CS(0.858)S(0.002)STGG	3	-0.63223	43648.5	39378.1
Ubap2	1	1.38E-30	126.4	HRES(1)APGDGPSTVNR	3	0.65167	3119.8	2433.1
LOC10036	0.87797	7.14E-05	66.004	VT(0.878)S(0.122)PEKAEK	3	1.2982	24203.0	27040.0
Rap1gap	0.539507	0.000745705	42.58	S(0.54)RS(0.422)QS(0.037)MDAM	3	1.7082	18930.2	20416.9
Scrib	0.607515	0.0023293	43.592	VLA AVPS(0.608)AGS(0.392)LQR	2	1.76	8531.7	8030.5
Scrib	0.607515	0.0023293	43.592	VLA AVPS(0.608)AGS(0.392)LQR	2	1.76	8531.7	8030.5
She	0.612793	2.88E-16	93.348	KNS(0.008)ET(0.069)GS(0.309)AAI	3	0.12369	11930.4	10951.8
Ski	0.517959	5.19E-11	40.602	DLS(0.518)S(0.482)PGMHAPPVAA	5	-0.061244	3057.6	3198.5
Scn10a	0.756828	1.11E-07	52.359	VS(0.016)EGS(0.757)T(0.199)DDN	3	-0.25955	3222.0	2396.1
Dzank1	0.932749	2.84E-31	87.208	S(0.03)S(0.03)LVS(0.933)AYS(0.00	3	-1.4913	9475.6	7417.2
Map2	0.999807	0.00158061	54.393	DQGGSGEGLS(1)R	2	-0.10449	5506.6	5103.3
Mbp	0.945661	2.09E-39	119.27	HGS(0.946)KYLAT(0.044)AS(0.01)T	4	-0.30609	48699.5	45456.2
Nav3	0.549271	2.79E-06	47.68	IGS(0.512)GRS(0.549)S(0.502)PVT	4	1.322	21660.3	23600.1
Nav3	0.502033	2.79E-06	47.68	IGS(0.512)GRS(0.549)S(0.502)PVT	4	1.322	21660.3	23600.1
Nfatc1	0.940792	3.14E-09	56.036	QPS(0.04)CS(0.091)PHHS(0.941)P	4	-0.13164	2482.9	2920.1
Nfatc1	0.890558	3.14E-09	56.036	QPS(0.04)CS(0.091)PHHS(0.941)P	4	-0.13164	2482.9	2920.1
Ahnak2	0.911125	0.00190342	88.596	KLS(0.911)FS(0.089)LPR	2	-0.99818	11286.4	10131.1
Csnk1g2	0.833944	0.00196016	44.511	T(0.034)GT(0.132)NRS(0.834)NHG	3	-0.73453	3013.4	3174.0
LOC68570	0.998331	1.78E-08	110.38	Y(0.002)QLQS(0.998)QEETK	2	-0.51924	14445.7	12389.7
Nacad	1	0.000115672	87.719	LGS(1)CPGS(1)PAR	2	-1.3442	253265.5	247167.8
Add2	0.868326	3.48E-07	65.196	S(0.605)RS(0.39)PS(0.062)T(0.063	3	-0.072884	19475.3	17770.0
Inf2	0.799769	0.0452572	44.318	IS(0.2)KGT(0.8)GK	3	-0.16103	14390.9	10721.2
Map2	0.980411	3.96E-10	81.526	GNAQES(0.98)LDT(0.02)VSPK	3	0.28012	24745.7	24257.2
Wnk4	0.998788	1.58E-51	160.47	RNS(0.999)LS(0.001)GSSTGSQEQR	3	0.43052	3541.7	2733.8
Bcas1	1	3.49E-08	88.282	ADS(1)VCDGHAGQK	2	-1.3438	247970.0	232622.7
Plxna4a	1	0.0241649	47.187	EGDRGS(1)K	3	0.010806	10365.3	7931.2

10631.3	10726.7	13227.7	9780.9	0.2	0.2	380
3513.9	4415.7	4711.4	3711.0	0.2	0.1	521
45937.2	47200.4	53761.3	45593.0	0.2	0.1	1464
16207.0	16738.1	22222.4	19285.0	0.2	0.2	633
83029.3	96327.9	103492.8	92127.0	0.2	0.0	167
5834.5	7508.4	6729.5	5880.2	0.2	0.2	406
26254.1	31401.6	35002.4	28991.0	0.2	0.1	370
41803.2	51027.1	52091.0	48358.0	0.2	0.0	346
41360.3	50847.8	49438.7	45059.0	0.2	0.0	700
2077.5	3510.6	2918.1	2488.4	0.2	0.4	431
27994.8	38049.8	26930.9	27642.0	0.2	0.3	22
17752.9	23620.5	23327.4	19802.0	0.2	0.1	501;535
8017.2	9203.1	10136.0	9394.8	0.2	0.0	1260;1260
8017.2	9203.1	10136.0	9394.8	0.2	0.0	1260
9892.7	14460.1	12400.5	11454.0	0.2	0.2	72
3024.0	3705.9	3641.0	3505.1	0.2	0.0	570
2840.3	3333.3	3350.0	3209.6	0.2	0.1	469
8513.0	10446.2	10022.6	9247.6	0.2	0.1	597
5321.9	6168.2	6851.1	5618.6	0.2	0.1	42;42
39124.5	51853.2	58227.2	45839.0	0.2	0.2	13;13;13;13
23740.5	26336.3	27010.0	27399.0	0.2	0.0	1160
23740.5	26336.3	27010.0	27399.0	0.2	0.0	1161
3043.3	3069.3	3724.2	3091.7	0.2	0.2	284
3043.3	3069.3	3724.2	3091.7	0.2	0.2	286
9033.4	11730.0	12161.2	11751.0	0.2	0.1	5415;6786
2455.9	3462.0	3615.2	3040.4	0.2	0.2	26
14517.5	16951.5	16009.4	15450.0	0.2	0.0	1229
260635.0	299695.0	320080.2	271230.0	0.2	0.0	1017
11986.8	11639.8	23214.2	22784.0	0.2	0.6	535
11252.2	14241.2	16500.9	11833.0	0.2	0.3	1304
26174.2	29796.8	30755.6	27465.0	0.2	0.0	687;601
3213.5	3972.8	3660.5	3479.0	0.2	0.1	928
270738.5	281545.7	340373.8	257970.0	0.2	0.2	316
9857.7	11039.2	11382.1	10551.0	0.2	0.1	1294;1688



Usp6nl	0.843437	8.95E-26	109.83	RPYGSSLSGDT(0.843)S(0.157)PEK	3	0.4393	20726.4	24112.4
Rps27a	0.883122	0.00024126	68.847	ES(0.117)T(0.883)LHLVLR	3	0.59133	1035.5	1109.1
Palmd	0.982281	3.36E-26	106.58	KRS(0.982)EVS(0.017)PHENTNHK	5	0.07446	16017.7	14225.9
Mapt	0.967051	3.02E-93	115.27	S(0.001)VS(0.001)AS(0.026)GVS(0	4	1.3109	50964.4	44001.6
Atxn2	0.51718	2.97E-15	62.781	TSPAGGT(0.022)WS(0.092)S(0.338	3	0.047978	6828.7	8058.5
Filip1l	0.701606	5.12E-26	112.55	S(0.002)NS(0.096)NS(0.702)S(0.14	2	0.1226	9152.0	7619.0
Cep170	1	9.46E-05	69.201	IS(1)QDLALIAR	2	1.4302	8166.4	8323.9
Nefh	1	0.00353439	61.344	VKS(1)EEKIK	4	0.95725	106994.1	137980.9
Peak1	0.999614	2.27E-07	55.437	CDPDQGHLS(1)VDQSK	3	1.0644	11039.0	8864.6
Sh3gl1	0.565753	0.00818241	67.081	IT(0.001)AS(0.089)S(0.566)S(0.345	2	0.16966	5921.3	4823.0
Gopc	1	0.00243268	56.087	S(1)QGVGPIRK	3	-0.096272	7251.4	6465.0
Ppp1r21	0.543886	6.67E-49	90.322	S(0.152)T(0.152)S(0.544)S(0.152)A	3	0.65161	4528.4	4278.5
Frmd4a	0.513439	0.00177966	50.484	LT(0.065)PS(0.422)RS(0.513)QILR	3	0.25619	2269.1	2475.5
Syn1	0.978829	9.46E-79	101.84	QGPPLQQRPPQGGQHL(0.021)C	5	0.93216	7019.9	8314.9
Map1a	1	0.00099334	46.88	RS(1)PT(1)PGKGPVDR	3	0.16734	25921.7	22905.8
Ptpn11	0.912827	2.54E-20	102.64	IQNTGDY(0.913)Y(0.086)DLY(0.00	3	-1.1915	43254.9	53925.4
Cttn	0.999984	1.57E-06	85.837	LQLHES(1)QKDYK	3	0.20088	29518.8	27209.0
Sorbs1	1	6.65E-06	71.513	VGG(1)IENLLMR	2	0.73451	7066.0	7329.5
Numb	0.902547	0.0297036	51.066	RT(0.903)PS(0.097)EADR	3	-0.23139	2790.8	3511.3
Fam160b1	0.696473	0.000255659	42.958	AS(0.304)PDHPKNDGKT(0.696)EV	5	0.43938	13410.5	15767.1
Rufy1	0.996361	0.0195272	42.469	S(0.004)QLPS(0.996)PGELR	2	-0.81897	6760.2	7722.7
Cdr2l	0.995592	0.0286665	64.42	ELCT(0.004)S(0.996)PR	2	-0.77865	35312.9	37524.4
Necap1	0.923191	2.52E-33	82.639	VTIPPPS(0.001)S(0.006)S(0.006)V/	4	0.13229	20819.4	20494.8
Myo18a	1	7.85E-10	89.301	S(1)LAHADEAR	3	-0.51327	5273.0	5920.8
Kank4	0.951611	0.000192215	71.933	NFS(0.952)LPNS(0.048)GDR	2	0.61993	93362.9	82225.8
Rgs3	1	1.15E-09	93.716	RNES(1)PGAQPAGK	4	-1.0129	52780.8	45561.5
Atp8b2	0.828687	7.22E-11	89.624	RYPS(0.829)S(0.166)IS(0.005)SSPC	3	0.70374	19044.7	19755.4
Cct2	0.754358	0.000690612	93.448	VRVDS(0.246)T(0.754)AK	3	0.33408	34751.1	38408.5
Peak1	0.838633	2.56E-07	69.345	S(0.001)FLGT(0.839)S(0.16)GELSV	3	0.36541	3030.6	3106.5
Sept4	0.740124	3.13E-58	106.66	LT(0.143)RES(0.74)GT(0.116)DFPII	3	0.17577	132101.2	120265.7
Farp1	0.906794	0.000858464	89.355	AHS(0.907)LS(0.093)HK	3	-0.22937	10442.6	8633.2
Ttbk1	0.999982	3.36E-07	63.681	S(1)VPLAEEEDFDSK	3	1.3335	12084.2	17655.9
Cast	0.872759	2.93E-21	120.55	ALS(0.001)RS(0.126)NEQIVS(0.875	3	0.35624	52627.0	60074.7
Plekha4	0.694337	2.29E-08	112.73	S(0.694)S(0.151)GS(0.151)WS(0.0	2	0.13891	30495.6	29535.5

19572.4	30141.1	23073.1	22227.0	0.2	0.3	587
961.0	1299.4	1224.5	1113.9	0.2	0.1	66
17690.1	19038.1	18803.9	18307.0	0.2	0.1	486
48724.4	56236.5	61608.4	50478.0	0.2	0.1	246;246
6868.0	9228.1	9540.7	6718.3	0.2	0.3	455
8919.4	10173.3	8101.6	11833.0	0.2	0.3	811
9955.6	9807.4	10636.0	10562.0	0.2	0.1	1358
80842.5	107502.4	183411.4	91082.0	0.2	0.6	440;440
10339.7	12442.7	13056.7	9962.6	0.2	0.2	998
6288.7	6472.4	7426.0	6077.6	0.2	0.2	287
7542.3	8707.5	8391.6	7834.0	0.2	0.0	126
4079.3	5276.0	5267.8	4571.5	0.2	0.0	562
1766.0	2350.5	2886.8	2399.7	0.2	0.2	930
7852.4	8760.5	10603.3	7839.7	0.2	0.2	500
26866.2	31182.8	28982.7	28646.0	0.2	0.0	2842
40936.5	80819.5	40252.6	40986.0	0.2	0.6	62
31964.8	34470.5	34817.5	34782.0	0.2	0.0	261
6453.3	8445.9	8744.8	7277.2	0.2	0.1	1021
2834.0	3738.7	3006.5	3976.9	0.2	0.2	377
10071.8	14736.2	20063.8	11272.0	0.2	0.5	562
7960.3	8292.3	9356.9	8697.4	0.2	0.1	50
32605.7	52388.9	37309.6	34095.0	0.2	0.4	116
19710.8	23065.1	26180.7	22401.0	0.2	0.0	190
5808.2	6986.6	7242.7	5732.1	0.2	0.1	869
80249.5	86666.9	100571.1	113140.0	0.2	0.2	74
43705.7	59188.8	59398.4	48227.0	0.2	0.1	813
21695.3	24108.9	24850.2	22096.0	0.2	0.0	624
26981.2	55699.8	32876.8	29048.0	0.2	0.6	261
3103.0	3968.8	3653.4	3233.4	0.2	0.1	643
123125.8	156216.3	149813.2	135240.0	0.2	0.0	762
9976.0	11875.2	10416.5	11852.0	0.2	0.1	1030;649
17507.0	21858.4	15290.2	18387.0	0.2	0.4	530
49069.3	58233.0	81241.5	50699.0	0.2	0.4	113
30664.9	35699.2	35614.7	35315.0	0.2	0.0	649

Synrg	0.994846	2.35E-20	109.1	TADS(0.005)VS(0.995)PLEPPTK	2	-0.43841	10060.8	10622.1
Dmtn	0.99998	8.19E-10	97.767	QRES(1)VGGSPQSK	3	-0.76773	6019.2	5214.0
Khsrp	0.999551	5.70E-52	112.74	IGGDAATTVNNNT(1)PDFGFGGQK	4	-0.061092	9428.3	9463.9
Gstm7	0.998967	0.000235849	54.281	RY(0.001)T(0.999)MGDAPDFDR	3	0.96834	2693.3	3875.8
Ctnnd2	0.980958	2.63E-22	90.017	ALQS(0.981)PEHHIDPIY(0.019)EDF	3	0.3683	7769.8	7555.8
Ppp6r2	0.760752	3.19E-17	69.081	CS(0.02)S(0.087)PVDMDHS(0.132)	3	-0.05311	36955.2	68199.6
Prkcd	0.99596	1.33E-20	100.77	CTGTATNS(0.004)RDT(0.996)IFQK	3	-0.34028	23293.0	19333.1
RGD13046	0.999833	2.80E-10	99.991	RGS(1)ITSTLGLK	3	-0.53361	6963.3	5752.8
LOC10036	0.994096	8.22E-21	117.2	NIT(0.994)LDDAS(0.006)APR	2	-1.3284	31571.4	30019.3
Edc4	0.983667	0.00177509	57.414	T(0.022)KGS(0.984)PRT(0.84)S(0.1	3	-1.9492	17297.4	17330.2
Rbm25l1	0.849209	0.0153355	51.276	S(0.849)S(0.151)DRNKDR	2	0.51546	4124.0	3660.0
Bcas1	0.741934	3.37E-13	61.607	S(0.009)S(0.009)KGS(0.239)S(0.74	3	1.2045	9186.4	10053.8
Gapvd1	0.551746	1.50E-32	72.191	EVS(0.134)S(0.326)RPS(0.439)T(0.	4	-0.97811	18741.8	20302.8
Lipe	0.508152	3.04E-13	64.275	S(0.013)VS(0.275)EAALAQPEGLLG	2	-1.1438	8015.5	6799.1
Cep170	0.85834	3.50E-56	137.87	QKS(0.858)EEPS(0.141)VS(0.001)L	4	-0.38896	4871.5	4448.5
Rictor	0.914278	8.82E-07	41.222	ALS(0.914)Y(0.008)AS(0.073)LDKE	4	0.91587	5601.7	6200.2
Epb41l1	1	0.0071576	79.148	AQKS(1)PQK	3	-0.31199	109028.8	134613.4
Ensa	0.878996	0.00319487	98.156	KS(0.036)S(0.879)LVT(0.077)S(0.0	2	0.54408	23652.0	22113.8
Arhgap39	0.55607	4.88E-06	69.864	FLS(0.287)LEY(0.157)S(0.556)PVG	2	1.838	9295.0	7999.3
Cdkn1b	0.884456	0.00574784	51.009	VS(0.001)NGS(0.114)PS(0.884)LEF	2	-0.73006	10503.8	9139.8
Cnr1	0.624249	0.000502264	49.298	S(0.624)IIHHT(0.351)S(0.025)EDGK	3	0.34799	12526.7	13907.8
Tns1	0.61952	1.43E-20	73.688	S(0.071)YS(0.294)PY(0.008)DY(0.6	4	-0.30808	12683.0	13453.7
Dbnl	1	2.36E-65	152.27	QFT(1)QPEASYGR	3	0.2897	80340.1	83075.9
Tpd52	0.98774	3.11E-20	104.88	ASAAFSS(0.012)VGS(0.988)VITK	2	0.47741	46627.8	40244.7
Scn10a	0.98141	0.000321077	80.31	MS(0.981)FLGLS(0.016)S(0.003)GF	2	-0.079326	5550.0	4250.0
Arfip1	0.525284	8.88E-21	69.088	HS(0.017)LPS(0.319)GLGLS(0.525)	4	1.8798	7592.2	6172.7
Dst	0.519521	5.79E-32	109.5	S(0.013)ES(0.333)NS(0.52)S(0.133	3	2.0397	45759.5	40401.6
Map4k2	0.5	0.0039298	42.317	T(0.5)PS(0.5)EIQFHQVK	3	-2.0904	9775.9	9789.1
Map4k2	0.5	0.0039298	42.317	T(0.5)PS(0.5)EIQFHQVK	3	-2.0904	9775.9	9789.1
LOC68570	1	0.00605283	74.464	DRNT(1)LPK	3	-0.70616	15954.5	12422.6
Tnks1bp1	0.99994	2.58E-06	74.296	RDS(1)VLDTHGSR	3	0.15007	6774.9	8958.1
Hn1	0.998935	1.79E-71	169.67	SAGGREDS(0.001)ES(0.999)PGTQF	3	0.37275	26477.5	29549.8
Trip12	0.827904	7.23E-07	103.21	T(0.828)NS(0.144)PS(0.024)S(0.00	2	-0.36018	19972.6	19482.3
Kank4	1	0.000991409	121.6	RES(1)APVIR	3	-0.67973	25672.4	25835.6

11632.3	11658.5	13996.0	12339.0	0.2	0.1	676
5544.3	6778.8	6900.3	6048.9	0.2	0.0	152
9367.0	10373.1	12057.5	10799.0	0.2	0.0	101
3165.8	4619.5	3563.3	3265.5	0.2	0.3	34
8820.2	10048.4	9674.0	8675.6	0.2	0.1	398
52026.9	41574.1	72092.9	71217.0	0.2	0.5	759
19036.9	24920.7	25199.7	22412.0	0.2	0.1	218
6230.5	6969.1	7579.5	7738.5	0.2	0.1	927
28298.2	36481.3	39966.2	29302.0	0.2	0.2	761
14195.9	19282.3	23375.5	14786.0	0.2	0.3	920
2812.4	4006.7	5148.8	3312.9	0.2	0.4	371
11266.0	10930.0	13809.0	11157.0	0.2	0.2	389
24141.8	25048.3	26787.7	22539.0	0.2	0.1	762
7499.6	8593.0	8865.7	8809.3	0.2	0.0	578
4837.2	5930.5	5410.0	5329.1	0.2	0.0	505
6713.1	7607.3	7547.8	6646.6	0.2	0.1	1332
100653.4	190887.0	108039.9	106510.0	0.2	0.5	86,86
23811.8	29190.7	28671.7	24083.0	0.2	0.1	109
10247.8	11106.3	11847.0	9484.6	0.2	0.2	386
9535.4	10938.4	12214.6	11216.0	0.2	0.0	12
13219.7	16234.3	14870.2	15610.0	0.2	0.0	317
14709.1	13522.9	18158.4	16443.0	0.2	0.2	975
76811.8	99204.3	99515.3	84332.0	0.2	0.1	299
40083.8	51395.6	50764.9	47451.0	0.2	0.0	158
5102.8	5921.4	6334.3	5308.6	0.2	0.1	487
7361.7	9391.8	7976.3	7531.7	0.2	0.2	44
44079.4	52739.8	51617.6	49154.0	0.2	0.0	7288;7460
9060.0	12866.2	11165.2	9710.1	0.2	0.1	263
9060.0	12866.2	11165.2	9710.1	0.2	0.1	261
13736.0	17382.7	17328.1	14934.0	0.2	0.1	1217
7155.2	12138.1	7112.1	7737.1	0.2	0.5	923
28816.7	32528.0	37147.1	30365.0	0.2	0.1	74
20961.7	25045.0	26937.3	19298.0	0.2	0.2	83
26668.2	31610.6	31251.4	29372.0	0.2	0.0	536

Ahnak	1	4.23E-12	105.03	IS(1)MPDLNLNLK	3	-0.98979	24305.6	25280.6
Map2	0.73309	3.92E-06	73.386	VT(0.002)DGIT(0.733)KS(0.265)PE	3	-0.74531	22711.0	20749.2
Prune2	0.911462	1.25E-07	86.548	QLT(0.087)LLHS(0.911)NNNS(0.00	3	0.89547	3771.5	3767.4
Cnksr2	0.880811	0.00458813	78.513	QS(0.005)T(0.881)LPT(0.114)QK	2	-0.16796	24539.4	22668.8
Dock3	0.905169	0.000324117	62.287	KAS(0.905)LPPGS(0.095)AK	3	0.25574	55100.6	48538.5
Akap12	1	0.00426168	79.986	VQGS(1)PLKK	2	-0.31762	174918.4	163977.8
Sept9	0.841979	4.14E-33	108.34	ATVAS(0.023)S(0.135)S(0.842)QKF	3	-0.20072	39951.2	45377.2
Ralgapa2	0.821918	3.20E-48	125.45	S(0.127)QS(0.822)IS(0.051)NCVHL	4	0.6469	9663.0	9956.8
Stim2	1	8.85E-15	77.191	VGS(1)IPHDLCHNGEK	3	0.22032	21069.9	19142.3
Tnik	1	0.0218804	68.626	AS(1)NPDLR	2	-0.10957	11498.5	11307.0
Clasp1	0.85477	2.64E-61	157.42	VLS(0.015)T(0.11)S(0.855)T(0.02)I	3	-1.0977	139400.4	114057.2
Fam189b	0.915406	5.89E-10	58.324	S(0.065)YS(0.915)CS(0.02)APEAPP	2	3.2319	46124.5	45443.0
Map2	0.536384	0.0039876	44.511	S(0.029)KIGS(0.536)T(0.434)DNIK	3	0.6448	21292.9	21901.0
Epb4111	0.849546	0.000355989	77.279	RT(0.079)S(0.85)T(0.072)QQQGK	3	0.021044	25185.8	22943.1
Ahnak	0.989084	1.42E-06	63.534	FS(0.011)VS(0.989)GVK	2	-1.4505	28116.2	26590.3
Rtkn	0.863446	2.38E-12	70.784	S(0.129)VAPLPPQRS(0.863)PQS(0.	3	-0.23688	26533.5	28552.7
MAST1	0.819922	1.43E-91	124.09	SLSSSDS(0.015)LPGS(0.042)PT(0.8	4	0.058313	12059.2	11538.4
Sorbs1	0.568294	2.50E-11	58.835	LNRDDSDLS(0.227)PRY(0.568)S	4	-1.512	9244.5	9138.0
RGD15599	0.773606	9.80E-07	71.279	S(0.192)GAS(0.774)PQPS(0.017)V!	2	0.76241	3065.3	4029.4
Caprin2	0.987499	3.99E-11	66.152	SQEVVS(0.012)KPVVS(0.987)FEQEK	4	-0.24572	5202.7	5152.3
Birc6	0.99417	0.00335723	53.237	GYS(0.994)LAS(0.006)LLAK	3	2.7777	1163.3	1196.1
Hlcs	1	1.15E-06	88.021	AAGEGPS(1)PQRR	2	0.75573	7860.0	7908.1
Mark2	0.967096	0.0174617	44.349	S(0.033)VS(0.967)ANPK	3	-0.47772	23895.3	19820.2
Larp4b	0.999961	0.000285962	63.185	KPS(1)YAEICQR	3	0.86107	10453.7	8590.5
Pitpnm2	0.499998	3.21E-54	98.151	VAS(0.5)S(0.5)VEQLNTIEDEVSQPL	5	0.56498	3240.0	2902.9
Ralgapa2	0.635937	2.35E-06	77.746	S(0.005)AT(0.636)T(0.287)S(0.072	2	0.4703	10231.5	8970.0
Pcdh7	0.993823	4.29E-05	113.99	LS(0.001)DS(0.994)PS(0.006)MGR	2	0.24056	10580.4	9405.4
Cdc42ep4	0.942732	0.0102622	42.629	S(0.014)QS(0.943)VT(0.043)RGDR	3	-1.7482	4035.2	3774.3
Dtd1	0.921694	1.47E-06	70.47	AKGPS(0.001)ES(0.922)S(0.077)KE	3	0.75531	16305.1	15234.0
C2cd5	0.700572	0.000143081	87.989	QQT(0.701)QS(0.299)ALEQR	2	-0.15992	5389.5	4342.0
Sipa111	0.649035	0.000178448	57.267	DLRAS(0.649)PKPT(0.277)S(0.074)	4	0.021171	18638.0	15439.1
Srcin1	0.664919	1.98E-24	99.343	KDS(0.024)GS(0.12)S(0.665)S(0.15	3	0.88573	35650.4	30661.0
Plekha4	0.973306	2.70E-66	126.32	SPEPFSPLS(0.026)RPPS(0.973)PLS(	4	-0.54809	31022.8	26175.7
Pag1	0.929782	0.0160296	64.654	FS(0.003)S(0.038)LS(0.93)Y(0.029)	2	-2.3004	38623.7	35067.3

24087.5	29327.1	29971.2	27643.0	0.2	0.0	2620
24647.5	28879.4	24056.2	27439.0	0.2	0.1	1620;1534
3790.3	4930.2	4123.3	4317.2	0.2	0.0	851
23767.1	30465.6	27216.2	26089.0	0.2	0.0	779
57785.6	64603.9	69328.3	56610.0	0.2	0.1	2008
183235.5	214778.1	221433.7	180150.0	0.2	0.1	500
37930.0	47108.0	55242.5	43174.0	0.2	0.2	42
8656.4	12414.1	9891.6	11081.0	0.2	0.1	738
20678.5	25842.5	23714.3	22343.0	0.2	0.0	716
12693.7	13815.5	13851.8	14256.0	0.2	0.0	623;709
143024.0	158196.2	166441.3	143650.0	0.2	0.1	798
48224.0	55956.0	58306.3	50878.0	0.2	0.0	403
20889.3	22872.6	30586.7	22245.0	0.2	0.2	1763;1677
24836.0	28900.3	30517.3	26796.0	0.2	0.0	659;651
26817.3	31510.5	32212.1	32627.0	0.2	0.0	2885
29020.0	35291.1	35448.0	28669.0	0.2	0.1	541
11270.3	13752.8	15914.2	11546.0	0.2	0.2	1131
10095.8	11866.4	12015.8	9783.2	0.2	0.1	418
3143.8	3957.8	4065.4	4081.5	0.2	0.1	88
5255.2	6073.5	6139.5	6244.5	0.2	0.0	406
1010.7	1315.4	1592.1	1078.1	0.2	0.3	1261
8126.4	9301.6	10672.4	8286.9	0.2	0.1	73
19056.0	24614.9	25429.5	24200.0	0.2	0.1	400
11816.5	12916.8	12009.4	11582.0	0.2	0.1	649
3343.7	3813.3	3853.7	3556.0	0.2	0.0	396;372
8612.3	11090.9	11182.3	10633.0	0.2	0.0	713
10001.1	11717.9	12841.9	10919.0	0.2	0.0	974
3319.3	4301.6	5833.9	3031.6	0.2	0.5	89
15886.6	16426.8	21783.2	17906.0	0.2	0.1	181
5229.5	5640.7	5965.7	6097.3	0.2	0.1	339;330
17952.0	19992.9	22461.8	19115.0	0.2	0.1	1546
32867.6	40581.9	38440.2	38345.0	0.2	0.0	550
28918.9	36289.9	36088.1	29540.0	0.2	0.1	241;241
40671.5	46720.8	46739.3	41891.0	0.2	0.0	295



Cr1l	0.939815	0.0286903	64.485	NS(0.06)LT(0.94)QEV	2	0.72053	4091.4	3129.8
lqsec1	0.975383	0.000725937	88.576	SDRS(0.025)S(0.975)LKR	2	-0.90286	31285.2	28766.6
Rab11fip5	0.89424	6.32E-06	60.489	NNLS(0.065)AS(0.894)MFDLS(0.04	3	-0.34742	10218.3	7885.1
Pdha1	0.989314	0.000601497	82.445	YGMGT(0.011)S(0.989)VER	2	-1.1425	27912.3	22910.2
Prx	0.999449	7.42E-31	90.464	T(0.001)EFS(0.999)FKLPK	3	-0.015599	61044.9	62054.7
Lmod1	0.997789	1.87E-19	151.15	NS(0.002)LS(0.998)PATQR	2	0.55557	19314.3	19062.2
Osbp13	0.666843	0.0214334	56.548	S(0.004)T(0.004)S(0.667)S(0.206)(	2	-1.1172	5589.5	4203.9
Add2	0.933376	1.10E-71	101.01	SAGPQSQLLAS(0.001)VIAEKS(0.97	4	-0.30363	27182.4	18609.2
Gpm6b	0.742374	0.000293828	75.416	S(0.027)KEQLNS(0.742)Y(0.031)T(	3	0.25067	35826.9	32951.3
Zc3h13	0.5	1.31E-12	102.45	ERDQRPS(0.5)S(0.5)PIR	4	0.3238	4041.2	5247.0
Pnpla6	0.570059	6.98E-13	72.359	LFPS(0.019)PGLPT(0.275)RT(0.137	3	-0.81847	15068.3	16157.6
Sept9	0.995652	1.62E-10	61.821	S(0.996)PKPS(0.004)LR	3	-0.0212	37012.4	35156.1
Mllt4	0.607987	0.00132958	40.493	EYFT(0.004)FPAS(0.608)KS(0.388)	3	1.2167	13560.8	12327.1
Taok2	0.970404	0.0205955	69.432	T(0.001)AS(0.028)LVS(0.97)R	2	0.029676	7275.6	6252.9
Syn2	0.958509	1.14E-08	132.5	S(0.959)S(0.041)ANEDEAK	2	0.31721	8374.3	8240.9
Cep170	0.612604	0.0304081	42.718	LRT(0.613)S(0.387)PALK	3	-0.53304	7364.6	7079.0
Srcap	0.884233	7.93E-12	50.879	NPPS(0.884)PRPS(0.115)QHPVLDF	5	0.20349	2763.7	3768.9
Wac	0.999996	0.00190712	94.363	RSNS(1)PENK	2	-0.27915	34438.6	33518.4
Gpr158	0.778361	0.000292495	63.073	S(0.002)AS(0.046)AHNLS(0.778)S(	2	-0.086302	4119.3	3869.7
Lrrc40	0.572217	5.07E-18	69.361	T(0.104)ES(0.572)KDRGPT(0.324)\	4	1.1782	9066.6	9459.4
Ctnn	0.786761	3.47E-22	88.945	NAS(0.212)T(0.787)FEEVVQVPS(0.	3	0.0015467	11998.4	11292.7
Arhgef28	0.813504	1.52E-11	46.872	S(0.04)S(0.04)S(0.096)LDALVADS(i	3	0.13382	5078.1	5017.3
Khdrbs1	0.89133	9.02E-13	72.491	S(0.891)CS(0.1)KDPS(0.009)GAHP:	4	0.047691	15754.1	15448.9
Etl4	0.99768	0.000150587	69.721	ASPS(0.002)RQS(0.998)FKK	4	-0.10018	22117.0	18495.1
Ampd3	0.780785	6.78E-12	69.188	S(0.033)QS(0.781)MS(0.185)LQMI	3	-0.65179	6043.1	5635.4
Ralbp1	0.959743	2.44E-21	113.25	T(0.96)PS(0.033)S(0.007)EEISPTK	2	-0.56118	34919.3	32821.9
Klc4	0.808736	9.46E-08	87.123	RS(0.191)S(0.809)ELLVR	3	3.9675	6740.4	6998.6
Lrrc4b	0.999717	1.09E-06	85.837	SGSKENVQET(1)QI	2	-1.0026	29972.0	25000.9
LOC68570	0.929037	1.86E-09	75.316	T(0.024)LS(0.024)KS(0.024)EHS(0.	4	-0.99722	31442.6	30024.8
Ahnak	1	0.000162654	74.611	IS(1)MPDLHLK	3	-1.4064	59904.7	57803.0
Camsap1	0.979907	2.44E-18	99.344	GAS(0.002)T(0.017)FS(0.98)PS(0.0	3	-0.66342	2544.2	2741.8
Arap1	0.900591	6.26E-06	50.957	HY(0.006)S(0.901)IT(0.062)LPT(0.(	4	1.7904	3190.9	3073.0
Pgm3	0.968428	1.25E-53	123.4	STIGVMVT(0.032)AS(0.968)HNPEE	3	-0.70139	330062.1	222849.2
Golga3	0.730515	2.64E-26	62.592	GES(0.074)S(0.074)S(0.21)S(0.557	5	-3.0778	3345.6	3048.3



4159.1	4415.6	4975.1	4078.6	0.2	0.2	494
30499.9	33874.4	41678.2	31638.0	0.2	0.2	399;398
8292.6	10885.4	10874.5	9488.1	0.2	0.1	176;176
19981.2	27609.0	31422.4	24788.0	0.2	0.2	232
55165.5	62448.0	83251.6	65363.0	0.2	0.2	740;740
18720.7	24343.2	19838.3	23421.0	0.2	0.1	550
5096.4	6337.1	6397.5	4897.0	0.2	0.2	21
9271.1	6280.9	30399.7	28541.0	0.2	0.7	530
40735.3	46556.9	49626.8	33544.0	0.2	0.3	267
4117.3	7311.5	4655.9	3913.6	0.2	0.5	700
12352.0	16745.8	20559.6	14320.0	0.2	0.3	335
35270.5	42727.9	49791.3	34775.0	0.2	0.2	67
13917.0	15349.9	17745.9	14066.0	0.2	0.1	1243
5598.7	7592.7	8314.9	6758.4	0.2	0.2	478
9949.7	10977.0	9230.4	11275.0	0.2	0.1	561
7481.8	8939.7	9001.9	8050.7	0.2	0.0	1311
3599.1	3997.6	3639.3	4374.5	0.2	0.2	2999
37192.2	44170.0	44623.4	35872.0	0.2	0.1	64
3903.4	5029.8	5005.3	4064.8	0.2	0.1	460
10026.8	11854.3	13103.7	8908.4	0.2	0.2	20
13979.8	15387.3	15369.2	13459.0	0.2	0.1	323;286
5445.9	5686.6	6749.3	6003.2	0.2	0.0	486
20683.9	20551.6	21819.6	19191.0	0.2	0.2	18
18542.9	24013.2	27143.6	19029.0	0.2	0.2	360
4988.8	6135.0	6460.0	7183.2	0.2	0.1	85
41365.6	43658.5	46399.4	39420.0	0.2	0.1	27
6707.4	8325.6	8429.2	7512.8	0.2	0.0	566
32666.4	31472.0	43939.4	28646.0	0.2	0.4	707
28290.7	37922.2	35785.7	32866.0	0.2	0.0	425
63268.5	73964.6	73275.8	67660.0	0.2	0.0	2366
2344.9	2772.4	3323.4	2965.7	0.2	0.1	426
3153.4	4578.6	3440.1	3166.1	0.2	0.2	493
228259.2	353637.0	350899.9	223350.0	0.2	0.4	64
3105.9	3694.5	3887.4	3703.3	0.2	0.0	1351

RGD13099	0.996584	6.55E-07	87.831	HS(0.003)FS(0.997)AGPELLR	3	0.24114	7574.0	5841.4
Ppp1r1c	0.913879	4.88E-05	49.243	VT(0.001)NT(0.006)QES(0.914)QN	3	3.4209	23325.2	25974.9
Tsc1	0.982949	0.0037707	60.691	GGFDS(0.983)PFY(0.017)R	2	0.90467	17199.6	14886.2
Map2	0.650119	3.01E-20	112.17	GNAQES(0.35)LDT(0.65)VSPK	2	0.35358	18508.0	16990.1
Flna	0.697327	3.29E-06	45.916	IPEIS(0.055)IQDMT(0.697)AQVT(0	2	-0.054097	14858.4	15323.9
Pcm1	0.978558	2.30E-07	81.632	NPS(0.021)VS(0.979)EHLPEDEK	3	1.0464	3602.5	3792.8
Map2	0.996615	4.40E-33	109.42	VSDFGQMAS(0.003)GMS(0.997)V	3	-1.2263	365580.1	386333.4
Peak1	0.838456	0.000475156	62.466	APIT(0.162)HGS(0.838)VK	3	1.4676	3959.7	3310.8
Clasp1	0.993124	0.0354886	42.485	IPGS(0.993)VS(0.007)AMR	2	0.45874	4936.9	5214.6
Srrm2	0.957257	0.000110201	47.548	T(0.006)PS(0.006)RQS(0.957)CS(0	3	1.5096	1893.5	1885.9
Fam63b	0.875473	0.0303552	67.838	VS(0.125)T(0.875)PEGR	2	0.18543	10315.7	9040.8
LOC36598	0.668311	0.00018212	50.305	S(0.166)QS(0.668)S(0.166)QRGED	3	-0.24144	3015.5	2804.5
Kcnh7	0.870233	7.51E-14	75.911	AS(0.13)S(0.87)VHDIEGFNVHPK	4	0.12843	37413.2	34956.5
Nolc1	0.980375	0.000133484	44.925	KHNET(0.005)ADEAAT(0.98)PQS(C	4	-0.33683	3468.6	4101.1
Rims1	0.736859	0.0131443	58.699	RS(0.236)S(0.737)LS(0.027)AK	3	-0.029047	6688.9	6144.1
Cdk13	0.850076	5.97E-10	85.28	QT(0.001)DPS(0.149)T(0.85)PQQE	3	-0.066142	40430.6	38545.6
Epb41l2	0.982927	7.72E-05	115.7	QKS(0.983)Y(0.001)S(0.016)LVVAH	3	-0.76383	144922.5	137969.9
Cacna1a	0.999633	0.00373785	77.662	SAS(1)VLGPK	2	-1.5097	14513.7	13539.2
Rpl14	1	0.0115514	54.157	GQKT(1)PAQK	3	-0.38682	16684.4	12666.1
Eif4g1	0.922063	0.000224489	72.659	S(0.922)FS(0.078)KEVEER	2	-0.17384	51936.4	54975.2
LOC10369	0.804035	0.00476053	59.496	S(0.105)LS(0.804)MDDLTL(0.091)R	2	0.212	6872.7	6457.1
RGD15646	0.948599	0.00032175	80.287	KS(0.051)FLQS(0.949)LECLR	3	1.8993	21233.3	17514.4
Scn10a	0.991422	6.37E-05	78.903	AS(0.991)HGS(0.009)VFHFR	3	0.073652	1358.2	1876.9
Arpc1a	1	0.00905626	78.098	NMS(1)AMER	2	-0.085481	16524.6	13346.2
Ppp1r18	0.999998	5.41E-07	76.759	SSPGNLRDQS(1)PK	3	-0.14205	31775.4	33418.6
Lmod1	0.940835	0.00356031	62.466	S(0.059)APKNS(0.941)PK	3	0.6729	18882.5	22020.6
Aatk	0.499994	1.99E-43	82.988	LQELCAPDS(0.5)S(0.5)PPGVVPVLS	4	0.62155	4075.6	3925.3
Aatk	0.499994	1.99E-43	82.988	LQELCAPDS(0.5)S(0.5)PPGVVPVLS	4	0.62155	4075.6	3925.3
Inpp5f	0.999515	1.11E-101	159.65	GLES(0.001)PLKKS(1)PS(0.999)ADI	4	0.21245	145339.9	130521.9
Map2	0.997806	1.82E-08	91.62	DLAT(0.002)DLS(0.998)LIEVK	3	0.093424	19742.4	20623.1
Sf3b1	0.999356	3.14E-10	64.275	VVNGAAAS(0.001)QPPS(0.999)KR	3	0.23644	7743.2	7037.0
Aff3	0.826521	0.000134223	59.227	S(0.053)PS(0.053)S(0.827)PLS(0.0	2	-0.23527	12467.1	13582.0
Ahnak	0.801442	6.12E-12	103.76	GDVAAS(0.099)S(0.099)PS(0.801)I	2	-0.39346	36828.7	37818.3
Grasp	0.999613	7.04E-08	93.348	ALAVSGGT(1)LPR	2	0.27318	5554.2	6219.0

5645.8	7784.4	7877.6	6982.9	0.2	0.2	2074
23347.6	38878.1	24277.5	23161.0	0.2	0.4	60
16494.5	20694.6	20398.3	16632.0	0.2	0.1	505
20162.2	22682.3	22498.2	20970.0	0.2	0.0	690;604
12204.0	16926.2	12607.9	20853.0	0.2	0.4	2167
3941.1	4849.2	4589.3	4038.9	0.2	0.1	386
401391.3	455636.3	506409.0	409100.0	0.2	0.1	1150;1064
3603.1	4085.9	4686.9	4161.1	0.3	0.1	42
4870.2	6529.4	6070.1	5271.1	0.3	0.1	788;752
1866.7	2463.5	2257.6	1999.9	0.3	0.1	864
10574.6	12064.4	12987.2	10578.0	0.3	0.1	22
2441.2	4047.6	3272.1	2515.6	0.3	0.3	503
36517.2	43769.6	43662.7	42217.0	0.3	0.0	275
3404.4	4183.6	4438.2	4445.0	0.3	0.0	601
5160.7	7598.4	7297.3	6534.3	0.3	0.1	1355
39968.8	50387.0	46627.1	44653.0	0.3	0.0	1087
139659.7	192284.0	153842.0	157230.0	0.3	0.1	87;87;87
13453.9	17456.4	17209.4	14779.0	0.3	0.0	1968
13396.4	17367.3	18202.2	15360.0	0.3	0.1	204
48991.6	64828.3	66825.5	54191.0	0.3	0.1	1178
5016.8	8494.3	6545.6	6836.4	0.3	0.2	1108
22235.0	23470.9	25220.0	24033.0	0.3	0.1	206
1762.4	1720.2	2243.9	1996.0	0.3	0.2	499
13462.4	18030.5	17809.0	15844.0	0.3	0.1	298
30111.3	36489.0	44193.8	32989.0	0.3	0.2	133
17643.2	24225.5	22003.4	23603.0	0.3	0.1	519
4192.6	4647.0	4977.7	4923.7	0.3	0.0	464
4192.6	4647.0	4977.7	4923.7	0.3	0.0	465
155597.4	172473.7	191704.0	150640.0	0.3	0.1	940
19841.7	23921.9	27070.9	20863.0	0.3	0.1	998;912
7024.8	10605.9	7883.4	7534.9	0.3	0.2	194
14942.3	17041.7	16803.4	15088.0	0.3	0.0	583
35619.7	40804.1	47364.4	43479.0	0.3	0.0	5016
5469.9	7454.6	6451.4	6682.5	0.3	0.0	76

Erc1	0.895278	4.42E-48	117.01	RT(0.003)NS(0.895)T(0.101)GGSS(	3	-0.27945	11232.7	12752.7
Baiap2l1	0.879501	3.62E-22	132.97	S(0.002)VS(0.118)VAT(0.88)GLNM	3	-0.39611	28072.1	20045.0
Mtss1l	0.553114	6.73E-11	71.872	KS(0.008)S(0.078)MCS(0.553)APS(	3	0.041713	18357.7	15895.4
Parg	0.734584	6.56E-08	49.768	LGNVPQLNLDKS(0.735)PT(0.265)E	4	1.1125	11485.6	9222.0
Rundc3a	0.905456	5.41E-14	62.589	DPTPSMLGLCGS(0.905)LAS(0.094)	3	-0.65358	2900.4	3118.1
Rapgef2	0.907164	0.000284174	45.221	QNQS(0.092)RES(0.907)LEQAQSR	3	-0.20844	2650.5	2327.3
Nes	0.974472	1.11E-14	82.01	ESQES(0.025)LKS(0.974)PEENQR	3	-0.5081	11786.9	9889.9
Raph1	0.981488	1.49E-15	65.423	QQS(0.018)FGVKPPPS(0.981)PLS(	3	-0.075214	3706.1	3767.2
Raph1	0.982265	1.49E-15	65.423	QQS(0.018)FGVKPPPS(0.981)PLS(	3	-0.075214	3706.1	3767.2
Mbp	1	0.00769924	68.224	LGGRDS(1)R	2	0.22278	57899.8	49823.0
Pdap1	0.999512	0.00120049	73.632	MQSLS(1)LNK	3	-0.20431	38329.1	40649.5
Braf	1	0.00197744	49.269	ALQKS(1)PGPQR	3	-0.63216	21694.8	22942.0
Sym	0.859272	0.000341112	64.82	AS(0.097)S(0.859)LT(0.044)MHFR	3	-1.5573	1309.9	1141.2
Tram1	0.970859	5.32E-34	99.423	GTENGVNGT(0.02)VT(0.003)S(0.0	3	0.098876	15628.9	19934.2
Ppip5k1	0.960446	0.00067672	96.113	RFS(0.96)VS(0.04)FAK	3	-0.1793	7227.4	4997.1
Nacad	0.997903	0.00130589	113.1	VYS(0.998)EET(0.002)AR	2	-0.18827	47932.6	46726.4
Rasal2	0.949389	4.37E-31	90.308	S(0.949)HES(0.051)LLSPCSAVECLD	3	0.24463	3257.0	2891.8
Cdc42ep4	0.983151	3.41E-05	90.827	S(0.013)LS(0.041)S(0.963)S(0.983)	3	0.18098	13100.4	13501.9
Tns1	0.969123	6.54E-70	164.99	HLGGSGS(0.003)VVPGS(0.969)PS(	2	-0.14597	79970.4	79407.9
Nefh	1	0.000154939	67.334	AKT(1)LDVKS(1)PEAK	4	1.8719	117375.2	140712.2
Plin1	0.544682	0.000313436	48.623	NS(0.05)IS(0.545)VPIAS(0.142)T(0	2	-0.85427	5331.3	7032.3
Cep170	0.999999	2.30E-09	120.87	FTIQLQLS(1)QK	2	-0.78598	32007.9	31370.7
Apc	0.988625	2.04E-08	105.65	T(0.002)S(0.002)S(0.989)PS(0.007	2	-0.48816	16057.0	15585.0
Akap13	0.99694	0.000128708	84.479	RYS(0.997)LCDIS(0.003)K	3	1.2798	10431.5	9160.6
Plce1	0.517537	2.93E-09	81.656	SSLSS(0.001)FGGS(0.482)T(0.518	2	-0.39304	6299.6	5515.4
Akap13	0.999998	4.66E-07	76.358	STVCCQGS(1)PGRK	3	-0.62665	24794.6	21472.1
Fam122a	0.991872	3.85E-118	154.45	VSTTT(0.001)DS(0.006)PVS(0.992)	4	1.1418	21610.2	17288.5
Crebbp	0.509203	2.81E-07	47.058	S(0.001)ALS(0.01)S(0.034)ELS(0.5	3	1.6767	3430.0	3915.3
Mink1	1	4.72E-10	98.281	ERT(1)LDEAPKPPK	4	0.21636	25828.7	23853.5
Zc2hc1a	0.967323	6.78E-05	96.24	NT(0.031)T(0.967)PPS(0.002)LAR	3	0.15938	38423.4	38015.8
Luzp1	0.575115	5.18E-06	53.882	SSILIKPS(0.425)DS(0.575)VER	3	0.0060413	16176.3	13996.6
Cdc42ep4	0.96315	3.41E-05	90.827	S(0.013)LS(0.041)S(0.963)S(0.983)	3	0.18098	31055.0	27288.0
Tjp1	0.593399	0.000114055	44.238	EDPPQT(0.026)FY(0.381)PQKS(0.5	4	0.077812	6950.6	6373.8
Ppp1r2	0.703306	3.25E-47	143.91	NKT(0.139)S(0.703)T(0.139)T(0.01	4	-0.3658	24262.7	22711.6

11113.8	13284.2	15535.9	13090.0	0.3	0.1	37
19593.7	28121.6	28030.5	24739.0	0.3	0.2	335
17679.4	20946.5	22415.9	18681.0	0.3	0.1	253
11613.1	13275.4	13194.5	12145.0	0.3	0.1	29
3781.6	4080.4	3953.8	3676.5	0.3	0.1	400
2602.9	3347.2	2709.3	3002.5	0.3	0.1	1113;1470
14606.9	14607.5	16181.4	12571.0	0.3	0.2	861
4574.8	5269.0	4370.3	4758.6	0.3	0.1	858
4574.8	5269.0	4370.3	4758.6	0.3	0.1	861
49162.0	66614.7	63100.2	57804.0	0.3	0.1	186;160;149
42937.0	47821.8	51128.2	46882.0	0.3	0.0	178
17501.6	23305.9	32234.6	18847.0	0.3	0.4	406;394
863.0	1453.6	1206.7	1307.2	0.3	0.2	161;161
16232.6	29903.5	15708.0	16403.0	0.3	0.5	365
5758.6	7865.3	6784.9	6884.3	0.3	0.2	863
54173.2	58352.9	68007.4	51885.0	0.3	0.1	1030
2682.8	3458.2	4103.7	3015.1	0.3	0.2	92
15040.2	16412.5	18209.7	15268.0	0.3	0.1	140
88841.2	90548.7	110412.3	96434.0	0.3	0.1	1466
128278.7	195121.9	139757.2	128110.0	0.3	0.3	814;784
6607.3	5949.2	8633.0	8158.9	0.3	0.3	132
27920.2	37551.5	38967.0	32927.0	0.3	0.1	122
17597.5	21076.3	20552.2	17406.0	0.3	0.1	2249
10514.4	12760.6	12619.6	10716.0	0.3	0.1	10
6063.5	7180.9	7314.7	6940.1	0.3	0.0	488
24433.5	28640.8	31349.7	24791.0	0.3	0.1	334
20703.0	25181.4	24968.9	21336.0	0.3	0.1	269
3273.2	4043.8	4676.5	4017.4	0.3	0.1	2289
25770.7	32716.1	31107.2	26704.0	0.3	0.1	787
41637.1	48558.8	49323.3	43836.0	0.3	0.0	243
15260.6	18928.1	19991.1	15633.0	0.3	0.1	887
29715.2	35177.8	37931.5	32632.0	0.3	0.0	139
7431.3	7724.0	9557.3	7656.0	0.3	0.1	1646
24714.6	31187.2	28352.2	26593.0	0.3	0.0	20

Map2	0.791975	0.00298803	116.12	IGS(0.208)T(0.792)DNIK	2	1.1376	34140.4	34208.4
Mapt	1	0.00193223	70.028	GAAT(1)PGQK	2	-1.6429	21666.2	21466.6
Inpp5f	0.998985	1.11E-101	159.65	GLES(0.001)PLKKS(1)PS(0.999)ADI	4	0.21245	121796.4	107430.7
LOC68570	0.886786	2.14E-17	96.143	S(0.068)LT(0.027)NLS(0.887)FLT(0	2	-0.54536	27578.3	24362.5
Tns3	0.905329	0.00354725	78.342	QWAES(0.095)S(0.905)PK	2	-0.079222	20147.9	18002.6
Rasa3	1	0.0580301	56.632	RDS(1)IIGK	2	0.93485	18901.6	25619.5
Arhgap22	0.870594	1.09E-17	70.452	HGQLFAT(0.065)PS(0.065)FEEDAS	3	0.51865	14783.3	13851.8
Ctnnd1	0.93941	1.34E-06	71.545	SLDNNYS(0.06)T(0.939)LNER	2	0.89892	15098.1	15187.9
Tox2	0.585062	0.000990099	77.74	S(0.414)S(0.585)PPPT(0.001)TSPK	2	-0.78782	7624.6	6525.8
Ctnnd1	0.99685	0.00017956	97.734	RT(0.002)GT(0.997)PS(0.002)DPR	2	0.41037	13310.3	11262.0
Zfp516	0.530743	3.38E-06	40.968	APSSDHGHFGEEDPRS(0.469)PDQT	4	-0.61213	10131.3	13642.3
LOC10369	1	0.00744327	63.076	KKS(1)LNIR	4	-0.51365	23692.6	21033.3
Zdhc5	0.800795	0.000161996	85.813	SEGT(0.001)T(0.006)S(0.048)T(0.1	2	-0.14451	10929.4	9906.2
Zcchc11	0.548733	0.000149249	41.115	T(0.549)PRS(0.438)PLEPENVPS(0.(	4	0.55884	1423.5	1274.4
Ahnak	0.872799	3.47E-05	48.623	T(0.06)PQIS(0.873)MS(0.067)DIDL	3	0.23746	8119.9	8029.6
Reps2	0.794856	3.76E-11	91.355	APSQAES(0.192)S(0.795)PT(0.01	2	0.86822	28237.9	25142.4
Ptrf	0.628221	1.34E-08	98.811	S(0.372)FT(0.628)PDHVYAR	2	-0.8525	22689.5	19879.4
Svil	0.988148	1.16E-40	108.5	YQT(0.988)QPVT(0.012)LGEVEQV(	4	0.4221	56931.4	51139.3
Eif4g1	0.998709	6.15E-94	167.88	IT(0.001)KPGS(0.999)IDSNNQLFAF	3	0.0059443	25427.9	21994.2
Rtkn	0.981495	3.97E-28	105.21	T(0.018)FS(0.981)LDAVPADHSLGP	2	-1.3292	40762.2	37095.5
Mbp	0.999583	1.83E-09	126.83	SGS(1)PMAR	2	-0.96132	67518.8	76834.5
Mtss1l	0.795941	1.26E-16	80.236	ALS(0.796)S(0.204)AGPIPIRPPIVP\	3	-1.1761	6484.5	4672.3
Srrm2	0.944019	5.79E-08	90.853	VS(0.001)GRT(0.055)S(0.944)PLLL	3	-1.0419	9670.8	10211.1
Ahnak	0.999986	4.18E-58	101.6	IEGSITGPCVEIGT(1)PDVDVHGLGG	3	0.27688	28435.9	28679.9
Map2	1	3.76E-33	108.45	VGS(1)LDNAHHVPGGGNVK	2	-0.11377	24141.0	23273.2
Phkb	0.989679	0.000196318	80.245	S(0.004)GS(0.99)VY(0.007)EPLK	2	-0.96745	63122.6	58052.0
Map4k4	0.985099	0.0303106	63.864	QS(0.015)T(0.985)VDQKR	3	0.69328	16587.8	14671.2
Synpo	0.524205	3.92E-17	60.219	VAS(0.23)LS(0.625)PART(0.524)PF	6	0.021954	2428.2	2462.1
Rab11fip5	0.998953	0.0049646	88.495	DS(0.001)IQS(0.999)PK	2	-0.35732	16061.8	15965.6
Tns3	0.999325	2.05E-05	103.89	RES(0.999)PPS(0.001)AER	2	-0.035986	46683.9	37977.4
Fbxo30	0.990437	2.13E-37	105.72	DLGDS(0.001)KDVNGS(0.99)PLS(0	4	-1.1068	12425.3	12424.8
Epb41l1	0.996606	0.00324468	71.03	T(0.003)EKS(0.997)PPAR	2	-0.42626	44558.5	35219.7
LOC69138	0.558744	7.73E-05	63.727	S(0.002)FS(0.439)S(0.559)QRPGVI	3	0.91422	15929.4	16098.3
Dmd	0.838963	7.32E-12	131.49	S(0.024)DS(0.137)S(0.839)QPMLLI	2	-0.81556	28237.9	26776.8

34501.9	43098.6	45104.3	35375.0	0.3	0.1	1764;1678
18917.6	26729.0	25931.7	21911.0	0.3	0.1	404;470
129194.3	144050.7	161899.5	124930.0	0.3	0.1	942
24893.5	32639.1	32980.5	26756.0	0.3	0.1	375
21458.9	27778.4	22791.0	21104.0	0.3	0.1	950
18470.5	36549.5	19995.4	19205.0	0.3	0.5	90
14995.5	18888.5	16546.9	17049.0	0.3	0.0	200
14628.2	18551.9	18935.3	16544.0	0.3	0.0	900
6704.7	9024.9	8881.6	7189.3	0.3	0.1	499
12683.1	15593.0	16015.8	13224.0	0.3	0.1	310
13049.3	10785.8	18463.0	15069.0	0.3	0.4	1135
19874.7	27464.9	27397.9	22892.0	0.3	0.1	78
11246.9	12653.9	14340.1	11625.0	0.3	0.1	455
1608.5	1890.3	1949.8	1343.6	0.3	0.2	175
8563.7	8965.6	10864.9	9926.0	0.3	0.0	4213
29158.4	33640.1	36361.7	29414.0	0.3	0.1	412;538
21826.2	27808.1	26759.9	22998.0	0.3	0.1	304
55014.3	65607.1	65494.0	65436.0	0.3	0.0	774;406
27526.3	29496.5	33433.6	27437.0	0.3	0.1	1072
37803.3	48845.9	50712.5	39917.0	0.3	0.1	517
67025.6	118619.7	67337.4	68976.0	0.3	0.4	190;164;149;153
4956.1	6780.7	6424.4	6227.9	0.3	0.1	542;553
7938.5	11797.1	14081.5	7684.1	0.3	0.4	2354
33130.6	35567.2	40708.9	32653.0	0.3	0.1	424
25961.3	29832.0	32965.5	25808.0	0.3	0.1	1826;1740
65567.0	76166.7	80783.1	68561.0	0.3	0.0	27
15668.3	18518.9	22994.0	15166.0	0.3	0.2	861;891
2612.1	2924.6	3143.8	2994.8	0.3	0.0	532
15244.6	21821.0	17913.7	17380.0	0.3	0.1	296;296
43620.5	56202.4	55239.3	43564.0	0.3	0.1	938
13727.5	15642.5	15969.8	15003.0	0.3	0.0	379
44324.2	51271.3	54199.5	44495.0	0.3	0.1	915;907
15806.7	18174.6	22125.2	17512.0	0.3	0.1	1531
28315.2	32412.5	38680.6	29627.0	0.3	0.1	543



Cep170	0.77744	2.16E-06	77.279	ALLHS(0.221)GS(0.777)NS(0.002)S	3	0.30969	32554.2	29954.6
Sept7	0.848795	2.05E-10	128.14	ILEQQNS(0.008)S(0.849)RT(0.144)	3	-0.12332	85920.6	75973.4
Pxn	0.948701	0.00397053	76.85	IS(0.001)AS(0.05)S(0.949)AT(0.00:	2	0.80719	11099.3	10741.6
Zdhhc8	0.968877	3.43E-06	76.165	S(0.031)FS(0.969)PVLGPRPR	3	0.015694	1057.3	1373.2
Ssx2ip	0.515014	0.000689237	44.312	S(0.032)LPT(0.515)S(0.334)PS(0.1	3	-0.19973	5410.9	5730.6
Eef2	1	1.76E-06	89.663	FT(1)DT(1)RKDEQER	3	0.40618	247397.5	191510.4
Vim	0.97543	1.69E-32	131.56	T(0.001)YS(0.975)LGS(0.024)ALRP	3	-2.6918	24064.7	16249.7
Cdr2l	0.989388	1.66E-29	123.4	KSCS(0.011)DT(0.989)ALNAIVAK	3	-1.5762	43497.0	32435.8
Phldb1	0.949685	8.36E-15	78.244	LS(0.95)T(0.05)AITLLPLEEGR	3	-0.89481	300.0	266.5
Tns3	0.644755	7.70E-49	120.9	KLS(0.35)IGQYDNDAGS(0.645)QV	4	-0.27142	14846.5	11630.6
Hdac11	0.980819	4.42E-05	94.402	NS(0.019)S(0.981)IPLLSR	2	-0.65946	6055.7	5463.5
Larp1	0.563805	3.59E-31	76.293	CPS(0.564)QS(0.256)S(0.118)S(0.0	3	0.2845	7513.2	6088.6
Tjp1	0.987045	4.43E-16	90.718	GKPET(0.011)DAMDRS(0.987)FS(C	3	-1.5411	33149.3	28394.7
Atg9a	1	2.86E-06	40.432	HPEPVPEEGS(1)EDELPPQVHKV	5	1.1796	2942.6	3062.6
Pitpnm2	1	8.29E-27	114.9	KGS(1)FGLPGQGDFLR	3	0.43542	36753.6	30152.0
Sym	0.991901	0.0112675	60.899	KDS(0.992)ANS(0.008)R	2	-0.33083	51530.9	41058.6
Ralgapa1	0.968727	0.0342019	50.452	AAAS(0.969)LVS(0.031)R	2	-0.14486	1361.4	1619.5
Arhgef6	0.99793	0.00529369	58.592	ERMS(0.998)Y(0.002)ILK	3	-0.59386	4154.5	3496.2
Aak1	0.928566	1.41E-53	148.15	RILS(0.929)DVT(0.071)HS(0.001)A	4	1.6463	44745.8	44739.9
Dclk2	0.737058	1.73E-71	106.37	QNS(0.737)T(0.193)T(0.051)T(0.0:	4	-0.8464	10399.7	9179.6
Map7d2	0.963076	1.60E-27	84.166	NLIEGFNS(0.963)PGQET(0.012)T(C	3	-0.26209	11189.5	10037.9
Vgll4	0.93675	2.59E-07	47.331	KFS(0.937)LEHGDKDLDCENDHVS((	5	0.16701	9910.3	8831.6
Arhgap31	1	0.0639521	51.488	S(1)VILDGR	2	-0.28686	6367.1	5098.2
Tns3	0.958549	2.94E-59	98.766	STLTLGNNRPS(0.003)ES(0.038)PL	4	-0.13041	9963.2	9154.5
Lsm14a	0.781365	1.18E-137	157.47	S(0.5)S(0.5)PQLDPLRKS(0.219)PT(i	4	-1.1835	24297.3	20618.7
Ehbp1	0.986871	0.0495949	55.461	DLY(0.013)VS(0.987)GK	2	0.65441	9322.0	12068.3
Pkn2	0.922695	3.30E-17	97.713	S(0.055)KS(0.923)EY(0.022)ELNIPI	3	0.25625	21555.3	21160.6
Mtus1	0.995426	2.57E-15	88.781	NALSCS(0.001)NRT(0.995)PPS(0.0	3	-0.78309	13884.0	13374.7
Rab11fip5	0.983781	3.78E-10	67.418	S(0.984)PS(0.011)HS(0.004)S(0.00	2	0.82763	11306.8	13866.1
RGD15598	0.975457	6.88E-99	121.19	RGT(0.975)VEGS(0.025)VQQVQEE	2	-0.25206	96276.7	117841.6
Mapre2	0.749149	1.47E-19	76.049	S(0.005)S(0.005)PAAKPGS(0.19)T(i	3	-0.92618	20292.2	19442.8
A1i3	0.673225	0.000311102	42.716	ISLCHGNPT(0.074)FS(0.673)S(0.22	3	3.604	2472.1	2365.2
Acin1	0.940197	3.59E-06	66.246	KPS(0.94)IS(0.048)IT(0.011)T(0.00	4	-0.415	2617.0	2770.3
Rtn1	0.997068	0.00322962	61.344	MS(0.997)LVT(0.003)APVK	2	3.8135	7101.0	7207.5

32450.3	39166.3	39670.2	35945.0	0.3	0.0	779
84832.8	99251.6	111641.2	87427.0	0.3	0.1	423
12749.1	13606.5	14910.8	13319.0	0.3	0.0	261
1374.5	1516.7	1740.7	1346.0	0.3	0.2	523
5682.7	7244.1	6533.7	6582.1	0.3	0.0	514
183214.2	280368.7	259616.3	213040.0	0.3	0.2	59
19920.5	25724.8	26460.7	20732.0	0.3	0.2	39
33401.0	46004.7	48388.2	38014.0	0.3	0.2	270
246.1	546.3	167.2	270.6	0.3	0.6	51;108
15189.2	16474.1	18713.0	15282.0	0.3	0.1	783
6254.6	7448.5	7264.5	6816.4	0.3	0.0	338
5836.0	8014.6	8458.7	7075.3	0.3	0.1	924
33027.3	38109.2	38299.1	38173.0	0.3	0.0	1557
2762.9	3528.2	4070.7	3024.4	0.3	0.1	828
32743.1	41837.0	41181.3	37733.0	0.3	0.0	1209;1289
47849.3	61997.0	57397.9	50793.0	0.3	0.1	602;602
1606.0	1831.4	1833.6	1895.2	0.3	0.0	342
3912.2	4360.5	5648.6	4016.6	0.3	0.2	459
48117.6	54366.6	63344.9	49218.0	0.3	0.1	638
10689.0	11571.6	13778.0	11379.0	0.3	0.1	670
16569.0	14587.7	17627.3	13657.0	0.3	0.3	752
10833.8	12366.8	12532.0	11001.0	0.3	0.0	59
6202.0	7005.8	8409.9	6035.4	0.3	0.2	1416
10730.5	12613.2	12831.2	10814.0	0.3	0.1	970
23145.3	29603.2	29854.7	23225.0	0.3	0.1	194
11101.0	11616.7	14334.8	13537.0	0.3	0.1	681;681
21981.7	26480.4	28041.2	24109.0	0.3	0.0	573
14194.9	18572.8	17487.3	14322.0	0.3	0.1	203
13516.7	18419.9	13505.5	15101.0	0.3	0.2	278;278
117983.6	169261.8	122658.9	111790.0	0.3	0.3	47
22327.7	24982.3	27192.7	23279.0	0.3	0.0	218
2433.1	2975.0	2608.9	3258.6	0.3	0.1	276
3103.3	2806.8	4074.0	3450.1	0.3	0.2	758;864;863
8418.9	8496.2	9329.7	9847.6	0.3	0.0	273

Tor1aip1	0.970754	1.36E-91	127.14	DAQS(0.029)LS(0.971)EDRGEDEPS	3	0.28773	144290.4	111929.2
Plxnb2	1	0.0125972	48.284	RGS(1)MKEK	4	-0.96486	8874.4	9397.4
Dmd	1	0.00140826	50.806	NAPGKPMREDT(1)M	2	-0.30396	53494.1	50126.8
Map1b	0.986917	1.59E-06	76.221	S(0.002)S(0.012)S(0.987)PVKK	2	-0.085096	120913.8	130785.2
Parp3	0.593726	0.000305208	62.732	S(0.594)S(0.157)MQT(0.07)EGS(0.	3	-0.28096	13765.9	10380.4
Tbc1d4	0.855205	3.58E-09	124.39	CS(0.023)S(0.122)VT(0.855)GVMC	2	-1.086	64828.1	90151.0
Ccdc92	1	0.0101489	67.08	DKLPET(1)PR	2	-0.21675	52056.9	40626.4
Ccdc132	0.922813	8.25E-05	69.672	KKS(0.033)DY(0.044)S(0.923)LNK	4	0.24675	39433.6	30661.0
Rps10l1	0.979028	4.84E-05	69.815	GEADRDT(0.979)Y(0.021)RR	3	-0.057984	26826.9	25917.9
Dclk2	0.958721	0.00121873	56.205	S(0.041)KS(0.959)PAS(0.001)VKR	3	0.33983	27845.5	28237.9
Jmjd1c	0.848404	0.000235777	76.228	VVPSS(0.003)S(0.148)S(0.848)PK	3	0.46288	7507.0	6735.6
Shroom1	0.647271	0.0551501	44.57	T(0.181)PS(0.647)PGT(0.172)ER	2	-0.18985	4757.0	4113.7
Fam13c	0.986662	1.37E-11	68.41	AGT(0.011)PAHES(0.987)PQS(0.00	3	0.40564	4972.8	4310.3
Ppp1r1c	0.99999	2.80E-90	181.81	RVTNTQESQNAS(1)PK	4	-0.048672	265335.4	249273.9
Csrp2bp	0.886201	0.0150084	63.216	STS(0.013)S(0.1)T(0.886)PVK	2	0.22038	11482.8	10975.7
Mapre3	0.992806	1.41E-18	71.651	NMQT(0.002)S(0.006)GRLS(0.993)	3	-0.78256	8917.9	7820.9
Clk2	0.999916	0.00067672	96.113	REDS(1)YHVR	3	0.59425	4399.6	4919.9
Ankzf1	0.632919	0.000182185	50.827	KVS(0.633)PCS(0.362)LDIS(0.005)I	3	0.073331	11560.4	15721.0
Reep1	0.905638	3.01E-118	158.89	SFS(0.031)MQDLT(0.906)T(0.063)	3	-0.27959	20493.8	21418.4
Kcnn3	0.994831	1.26E-26	113.23	RDS(0.995)NPFT(0.005)EIAMSSCK	4	-2.2168	33726.6	28100.8
Cdkn2aip	0.858782	0.0179881	44.425	QHS(0.141)GS(0.859)PRK	3	0.059235	5138.2	5713.9
Ncoa2	0.887993	1.01E-07	89.624	LDS(0.888)KT(0.112)DPASNTK	3	0.29116	41859.5	32124.2
Hirip3	1	8.36E-09	98.942	AEDT(1)EDDDVRK	3	-0.40276	14853.6	12793.3
RGD15604	0.999957	3.01E-05	88.275	GRS(1)YENLLGR	3	-0.77184	6814.4	5521.4
Prx	1	0.00199389	73.885	AGT(1)DADAK	3	0.5058	53553.7	40524.4
Pitpnm1	0.977506	0.00180983	60.157	SIS(0.022)LKLDLS(0.978)EE	2	-0.0059967	20892.2	18156.1
Ubxn4	0.991108	3.05E-12	70.783	NTELCET(0.991)PT(0.006)T(0.002)	3	-0.27444	27417.3	32025.5
Usp32	1	0.00223551	56.087	LRLPQIGS(1)K	3	-0.53718	2908.1	3054.1
LOC29928	0.999693	9.19E-17	144.28	DTLS(1)HEDHGK	2	-0.38834	197770.1	213525.4
Micall2	0.657934	0.000804983	42.388	QCS(0.171)S(0.658)T(0.171)LHSGA	3	0.88103	5543.0	5800.2
Diaph3	0.5	0.00656962	82.426	S(0.5)LS(0.5)LLAK	2	-0.19465	12387.2	9421.6
Diaph3	0.5	0.00656962	82.426	S(0.5)LS(0.5)LLAK	2	-0.19465	12387.2	9421.6
Hspa12a	0.830494	1.40E-11	94.128	ET(0.001)APT(0.156)S(0.83)AYS(0.	2	0.023426	24837.5	24318.6
Usp20	0.59105	1.17E-05	48.852	S(0.212)S(0.213)S(0.591)RPCS(0.9	4	0.54798	5503.7	5103.5

157513.8	162387.1	143486.8	197950.0	0.3	0.2	157
7287.2	9553.0	13406.1	8166.4	0.3	0.3	1610
53768.7	65270.5	71056.3	55353.0	0.3	0.1	603
87683.9	137066.0	186392.9	89968.0	0.3	0.5	2249;2123
11254.3	14626.2	15735.8	12766.0	0.3	0.1	7
64904.8	122667.5	75065.8	70234.0	0.3	0.4	147
43508.7	62512.9	52746.1	50826.0	0.3	0.1	184
35897.6	44844.3	43658.4	40766.0	0.3	0.1	596
19983.3	34306.6	25834.5	28568.0	0.3	0.2	126
26230.6	32455.4	41101.1	26846.0	0.3	0.2	316
8517.1	8782.5	10426.1	8577.6	0.3	0.1	763
4491.6	5715.4	5971.2	4635.9	0.3	0.1	82
4260.2	5531.9	5693.4	5327.0	0.3	0.0	48
273059.4	356221.9	342414.9	264100.0	0.3	0.1	64
10765.7	14419.4	14445.9	11753.0	0.3	0.1	288
7682.6	9968.9	10035.3	9872.6	0.3	0.0	176;161
3937.8	5409.4	6353.7	4475.2	0.3	0.2	50
13341.0	22244.5	12949.8	14566.0	0.3	0.4	86
19132.7	24722.7	30894.5	19182.0	0.3	0.3	157
32050.0	42659.7	40944.0	31476.0	0.3	0.1	168
5532.3	6968.4	7535.3	5585.6	0.3	0.1	262
35607.0	46412.8	43913.8	44046.0	0.3	0.0	771
15042.3	18271.4	16785.2	17288.0	0.3	0.0	119
5656.3	7166.5	8032.2	6867.5	0.3	0.1	468
52359.1	53372.2	76584.4	49701.0	0.3	0.3	911;911
21495.1	27132.7	24636.5	22549.0	0.3	0.1	1240
27133.5	48573.1	29216.7	28538.0	0.3	0.4	156
2474.9	3376.5	3943.5	3042.1	0.3	0.1	1243
204879.7	233741.4	303633.8	219760.0	0.3	0.1	10
5014.4	7244.1	6269.8	6588.1	0.3	0.0	221
11541.8	12617.6	13501.2	14878.0	0.3	0.1	249
11541.8	12617.6	13501.2	14878.0	0.3	0.1	251
25074.4	31235.6	32232.4	27823.0	0.3	0.0	20
5222.8	6673.2	6815.8	5982.7	0.3	0.0	373

Ttc9b	0.943063	1.07E-09	45.137	GALS(0.001)PVLMLS(0.943)AAPEP	4	1.4731	2292.0	2509.5
Kazn	0.999988	3.47E-27	147.66	SSTPSDINS(1)PR	2	0.37853	11183.0	10333.2
Srcin1	0.994283	9.53E-17	68.461	LSYAGGRPPS(0.002)Y(0.003)AGS(	4	1.7177	14436.2	13666.5
Reep1	0.999258	7.59E-29	142.4	LRS(0.999)FS(0.001)MQDLTTIR	3	0.23385	10107.8	10565.9
Cttn	0.999996	7.24E-08	88.561	LQLHES(1)QKDYAK	4	-0.10052	58244.5	57289.7
Spata13	0.992245	2.15E-10	65.175	RKS(0.992)AS(0.007)NLTELQGDR	3	2.6932	16222.8	13862.8
Spag9	0.67449	8.18E-05	57.175	GS(0.002)S(0.047)T(0.276)PT(0.67	3	-0.48908	35758.9	45092.0
Map7d1	0.941048	9.45E-05	67.234	T(0.059)RKS(0.941)EAAETK	3	0.6849	9771.1	9757.7
Eef1d	0.950511	0.0509555	47.603	AS(0.049)QAEGT(0.951)RR	2	-1.6656	3227.4	4259.6
Kif13b	0.943172	3.27E-170	214.79	S(0.041)AT(0.943)IS(0.015)GSATN	4	-0.23704	24455.9	23491.5
Nelfe	0.7353	0.0163697	56.202	S(0.735)RT(0.265)LEGK	2	0.6681	33853.0	33187.2
Cds1	0.989967	5.35E-12	60.472	Y(0.003)GDLDARGDS(0.99)DVPEV	3	0.35197	37699.4	41496.3
Prkcdbp	0.991295	3.03E-13	74.475	KGS(0.009)EAAQPT(0.991)PVKPPF	3	0.79224	55339.1	46725.3
Dot1l	0.971868	9.30E-07	59.709	S(0.007)T(0.007)FS(0.972)PIS(0.01	3	1.7746	1804.4	1706.0
Arhgap21	1	0.0140294	60.064	RHT(1)LGGHR	3	-1.8354	1354.6	1643.6
Slc4a4	0.79136	1.22E-83	167.85	NLT(0.048)S(0.187)S(0.791)S(0.83	3	-0.14629	106905.8	94556.3
Plekhg3	0.999997	0.00509327	77.14	CSGLGT(1)PR	2	-0.42512	9285.4	8085.2
Tyk2	0.916649	0.000357773	79.089	GNPQGS(0.917)QS(0.083)GK	2	-0.029259	5716.9	3805.3
Map7d2	0.985659	2.12E-07	56.708	EET(0.986)LEKPMADKDAT(0.014)E	3	0.45668	18133.5	18440.2
Spag9	0.735507	1.21E-09	79.639	KRS(0.122)S(0.736)T(0.071)LS(0.0	3	-0.1786	60688.3	55712.3
Apc	0.534633	0.0126296	61.815	T(0.465)PS(0.535)VQGTK	2	0.31141	21488.5	18113.4
Vasp	0.939715	0.0353581	65.474	NS(0.002)T(0.058)T(0.94)LPR	2	-0.20853	25132.1	24663.0
Nup153	1	2.66E-05	106.67	EGS(1)VLDILK	2	0.22476	47999.4	36466.9
Tmem184l	0.637953	6.94E-05	55.176	S(0.015)HS(0.347)LS(0.638)GARDI	3	-0.25626	7182.3	7271.2
Tanc2	0.862696	0.00223112	47.712	QGQT(0.137)S(0.863)PIKPK	3	-0.77482	43685.5	40876.5
Axin1	0.999956	3.26E-07	77.192	TPGCQS(1)PGPGHR	3	-0.076064	3301.9	3040.2
Jph4	0.981303	0.00279648	81.017	S(0.981)LLLS(0.019)GLR	2	0.04238	3078.9	2946.9
Map1a	0.998112	3.05E-14	126.34	ALALVPGT(0.998)PT(0.002)R	3	-0.85038	82231.7	80030.9
Map1a	1	0.00709229	93.598	ELS(1)CDRK	2	0.4072	34084.4	27847.4
Abl2	0.628428	7.92E-32	131.18	T(0.001)VS(0.346)T(0.628)S(0.024	2	0.40393	2127.0	2690.8
Raph1	0.667712	2.37E-89	186.75	T(0.255)AS(0.076)AGT(0.668)VS(0	2	-0.4697	7640.5	10077.0
Rap1gap	1	0.0277875	44.564	NRVES(1)AAQR	2	1.2071	1137.3	1270.2
Synm	0.999398	0.00868126	72.928	S(0.999)VAS(0.001)DEK	2	1.2055	33769.5	24100.3
Ank2	0.930857	1.24E-47	87.511	TEGDSPAAALS(0.931)PQMHQES(C	3	-0.72945	2709.2	2628.1

2147.6	2892.0	2959.6	2699.5	0.3	0.0	13
9910.3	12650.6	13847.5	12174.0	0.3	0.0	333
12776.8	17592.8	19152.2	13599.0	0.3	0.1	378
11020.1	12979.5	14061.2	11993.0	0.3	0.0	150
60526.0	69902.4	75115.0	71919.0	0.3	0.0	261
13557.2	19436.3	19053.9	15294.0	0.3	0.1	240
26810.9	41887.6	60240.5	30730.0	0.3	0.5	210;367
9956.7	12892.6	12265.9	11228.0	0.3	0.0	699
3805.0	5545.8	4217.0	4172.5	0.3	0.2	275;280
25578.0	30983.7	32716.5	27046.0	0.3	0.0	1884
34032.3	43085.4	43244.8	38431.0	0.3	0.0	89
38781.7	62223.6	46212.4	37240.0	0.3	0.3	56
54200.9	64427.9	68974.6	59707.0	0.3	0.0	205
2122.9	2438.4	2377.3	2149.5	0.3	0.0	1247
1584.9	1508.8	2179.9	1978.1	0.3	0.2	1795
90920.4	166401.9	90986.5	104130.0	0.3	0.4	256;256
8043.8	11053.5	11440.9	8942.0	0.3	0.1	530
6148.7	6274.5	6576.6	6536.0	0.3	0.2	351
22550.2	25851.3	22466.1	24833.0	0.3	0.1	385
55408.2	75573.8	73592.2	63416.0	0.3	0.0	437;594
21707.0	27041.4	26720.4	22124.0	0.3	0.1	1099
20179.2	32970.2	26906.3	26736.0	0.3	0.1	313
41680.7	57613.7	53496.3	45093.0	0.3	0.1	607
5736.9	7739.6	11355.4	5909.0	0.3	0.4	390
46352.4	54856.1	61674.6	45597.0	0.3	0.1	2053
3379.0	4375.4	3595.7	4071.2	0.3	0.0	490
3070.0	3549.7	4237.3	3497.9	0.3	0.0	222
85997.5	104904.3	114537.3	88572.0	0.3	0.1	2415
37832.1	44622.1	43405.1	35757.0	0.3	0.1	1906
2503.6	3949.6	2433.5	2703.3	0.3	0.3	804
7271.5	10740.3	9603.0	10670.0	0.3	0.1	195
1176.5	1393.2	1732.9	1322.6	0.3	0.1	644;652
28959.3	39791.0	36517.7	31517.0	0.3	0.1	1532;1230
4486.3	5782.3	2535.0	3884.2	0.3	0.5	3724



Tns1	0.612602	5.89E-06	59.294	HVAYGGY(0.003)S(0.613)T(0.384)	2	-0.90158	5335.5	4969.4
Frmd4a	0.913732	5.27E-05	64.04	T(0.002)S(0.002)NS(0.079)Y(0.004)	2	-1.9886	10156.0	8742.3
Map4k4	0.844737	0.0124697	62.005	NS(0.019)T(0.137)S(0.845)IEPR	2	-0.58982	5079.4	5291.8
Gas7	0.994459	6.81E-24	97.49	S(0.002)T(0.002)GDS(0.994)QNLG	4	0.38593	53965.2	54737.1
Eif4g1	0.679763	6.10E-33	97.69	IT(0.003)KPGS(0.318)IDS(0.68)NN	4	0.37818	5045.3	4909.7
Mag	0.92704	0.00487534	77.732	EVS(0.073)T(0.927)PDCH	2	-0.82944	16448.2	32171.4
Esyt1	0.998217	0.0191612	57.885	SNSS(0.002)FMS(0.998)R	2	-0.10325	9381.4	13247.4
Sema4c	0.616124	5.88E-33	78.319	CQPGGGPPS(0.211)PPPGIPGQPLP	3	0.42745	19354.8	26008.9
Ccdc92	0.841528	0.0207958	51.276	KHS(0.842)GT(0.158)DR	3	0.58789	30280.9	28597.7
Tnrc6b	0.990192	3.83E-27	83.395	SSS(0.001)S(0.007)AGS(0.99)EVGC	3	0.5958	2397.4	2464.9
Dbnl	0.761469	3.40E-15	87.519	AMS(0.761)T(0.179)T(0.045)S(0.0	3	0.057368	24984.2	27707.0
LOC68307	0.812801	0.000322909	76.572	S(0.813)RS(0.187)PFASTR	3	-0.034322	3856.5	3698.0
Tjp1	0.895521	0.00148476	40.278	GKPET(0.896)DAMDRS(0.094)FS(C	3	0.11665	10225.0	9879.0
Gpbp1	0.96311	9.51E-16	90.385	SNS(0.005)S(0.032)S(0.963)PVDKL	3	-0.010483	19846.2	27679.5
Svil	0.802115	6.01E-43	90.946	S(0.184)HT(0.802)QPIT(0.013)T(0.	5	2.6522	8720.4	8684.2
Plekha4	0.514051	4.12E-13	63.701	S(0.564)PEPFS(0.142)PLS(0.514)RI	3	1.3367	10906.2	8850.0
Pdzd2	0.843071	2.10E-22	76.161	KHS(0.843)LPQLLDS(0.149)T(0.00	5	-0.19922	7070.0	5946.8
Hdac4	0.770709	1.17E-51	110.01	AQS(0.771)S(0.228)PAS(0.001)ATF	5	-0.80393	36174.0	49941.4
Mprip	0.999026	3.21E-07	71.98	VRVES(0.999)GY(0.001)FSLEK	3	0.6269	4103.4	3899.0
Acin1	0.998682	0.00721064	45.28	KSLS(0.001)PGVS(0.999)R	3	-0.31936	12981.1	14032.8
LOC69138	0.999223	3.94E-13	67.785	AFGS(0.001)GIDIKPGT(0.999)PPIG	4	-0.027971	52882.2	42467.1
Mark2	0.671227	0.0756538	48.698	S(0.671)VS(0.329)ANPK	2	-0.060473	32213.1	29828.4
Agps	0.979714	8.67E-22	80.142	GIS(0.98)DPLT(0.02)VFEQTEAAAR	3	-0.95639	1879.2	2053.2
Syn2	0.649692	1.39E-11	65.438	S(0.031)QS(0.65)LT(0.269)NAFS(0	2	-0.8305	7928.5	6414.0
Dclk2	0.612229	1.27E-10	53.091	QNS(0.164)T(0.612)T(0.2)T(0.02)C	3	-0.74897	5126.6	5854.1
RGD13048	0.888936	2.65E-05	60.489	EKPAGS(0.889)IDS(0.072)Y(0.039)	3	0.27751	15145.8	12665.0
Mast2	1	0.000366517	64.374	LHLS(1)PPLGR	3	0.73277	395.2	338.7
Marcks	0.991425	7.91E-05	82.069	S(0.009)FKLS(0.991)GFSFK	3	0.93184	65049.9	62881.7
Jph4	1	0.0113332	78.06	RAVS(1)AAR	2	-0.48863	6011.1	8005.2
Map6	0.83687	8.85E-22	72.566	RS(0.837)EGHEQT(0.151)T(0.012),	4	-0.17325	3732.7	3923.6
Brsk2	0.999979	0.00534399	88.495	TRLNS(1)IK	2	-0.49696	33113.6	28571.3
Nck1	1	0.00167849	55.314	LY(1)DLNMPAFVK	3	-0.093105	2994.8	3329.7
LOC68307	1	0.000113061	74.537	GKVES(1)PPAAR	2	0.15908	49780.1	50636.9
Zfp362	0.622365	0.000273448	87.066	T(0.378)ES(0.622)PGIPVR	2	-0.18113	8821.8	9745.2



6492.9	7738.7	6342.1	6789.3	0.3	0.1	1479
9654.8	13200.6	11936.8	10360.0	0.3	0.1	904
5432.9	6497.1	6904.8	6251.7	0.3	0.0	705
54318.0	67912.6	73368.8	61782.0	0.3	0.0	92
5769.6	6482.4	7086.6	6034.6	0.3	0.0	1075
18770.7	31001.3	35349.7	17688.0	0.3	0.5	578
9764.4	22472.2	8625.8	9321.9	0.3	0.6	1051
19501.0	38372.1	21933.9	20656.0	0.3	0.4	773
35600.6	41751.2	41798.9	34379.0	0.3	0.1	308
2531.6	3501.8	2889.7	2839.4	0.3	0.0	575
24742.3	33155.0	35118.8	28403.0	0.3	0.0	277
3754.7	4627.6	5704.8	3795.7	0.3	0.2	30
11749.4	15222.3	12862.2	11721.0	0.3	0.1	1551
20596.6	42751.0	21224.3	21157.0	0.3	0.5	151
8986.9	10280.8	11818.1	10888.0	0.3	0.0	690;322
11807.9	14168.6	13501.2	11785.0	0.3	0.1	237;237
6066.6	7911.8	8372.9	7571.8	0.3	0.0	492
35811.4	80133.2	37530.8	34800.0	0.3	0.5	608
4461.3	5071.6	5978.6	4544.4	0.3	0.1	271;271
13939.4	19470.4	16433.6	15356.0	0.3	0.1	556;662;662
53061.8	64644.6	66641.7	54498.0	0.3	0.1	2606
27116.4	41149.5	35803.8	34657.0	0.3	0.0	398
1864.0	2414.2	2178.8	2664.2	0.3	0.0	601
7191.8	9688.6	8664.9	8620.0	0.3	0.0	546
5875.0	6793.8	7812.0	6512.0	0.3	0.0	671
14287.5	18228.5	18638.2	15888.0	0.3	0.0	208
650.7	639.1	556.9	539.1	0.3	0.3	1325
61865.3	81446.5	84138.6	72357.0	0.3	0.0	160
4694.2	9763.0	7652.5	6060.1	0.3	0.3	372
4315.7	5073.7	5397.0	4560.2	0.3	0.0	432
27093.0	39408.3	41750.8	30324.0	0.3	0.1	641
3589.5	4131.0	4429.2	3902.5	0.3	0.0	105
52506.0	66433.2	70875.7	54940.0	0.3	0.1	137
8173.5	11045.8	11327.6	11260.0	0.3	0.0	408

LOC100361	0.540207	0.0198986	43.502	KPS(0.54)LVAS(0.46)K	3	-0.13086	9377.6	8286.2
Acly	0.651441	2.92E-08	58.479	T(0.651)AS(0.15)FS(0.15)ES(0.049	4	0.27491	35094.6	35744.1
Epb41l2	1	0.00175795	66.55	GKDPS(1)ENR	3	0.03835	47442.4	42282.8
Arvcf	0.866412	0.00061957	43.592	KAPPPGPS(0.866)RPS(0.134)VR	3	-1.6195	15880.5	16702.7
Mapt	0.973933	2.26E-22	91.518	IGS(0.026)LDNIT(0.974)HVPGGGN	4	-0.29969	44398.7	42625.0
Map4k3	0.736074	0.00154615	45.334	T(0.264)RS(0.736)EINFGQVK	3	0.037116	8469.2	7002.7
Zwint	0.999764	6.21E-37	138.56	NQS(1)YLQLLCSLQNK	3	-0.21697	20388.9	16245.3
Reps2	0.927767	3.76E-11	91.355	APS(0.004)QAAES(0.928)S(0.702)F	3	-0.89017	21935.8	19165.3
Atxn2	0.996897	0.00826519	51.762	T(0.003)HRPRS(0.997)PR	3	-0.66184	4975.3	5833.0
Rims2	0.831491	0.000485113	44.312	RAS(0.831)QS(0.102)S(0.038)LES(0.0	2	-0.25596	2133.3	1716.7
Nes	0.99068	4.55E-59	142.79	ES(0.007)QES(0.991)LRS(0.002)AE	3	-0.049283	8279.2	6670.7
Baiap2l1	0.619076	3.56E-16	140.45	S(0.136)IS(0.223)T(0.619)VDLT(0.6	2	1.1773	127986.4	94846.9
Gab1	0.977508	8.33E-10	129.37	QS(0.002)T(0.978)ES(0.02)ETPTK	2	-0.28077	6870.5	4304.8
Cdkn1b	0.999998	1.33E-27	115.8	VPAQES(1)LDVSGSR	3	0.05631	43704.5	42453.9
Fam122a	0.937692	8.58E-09	55.208	S(0.059)QS(0.938)PINCIRPS(0.003	4	-0.79114	5682.8	5189.0
Cdkn1b	0.986656	4.67E-12	134.04	VSNGS(0.987)PS(0.013)LER	2	0.19249	37958.2	32280.0
Mbp	1	3.60E-30	123.14	T(1)PPPSQ GK	2	-0.70805	1660806.2	1791042.5
Ppp1r11	0.659152	3.57E-07	83.182	S(0.152)S(0.189)KCCCIY(0.659)EKI	4	0.37781	19741.2	21141.9
Mbp	1	3.60E-30	123.14	T(1)PPPSQ GK	2	-0.70805	1658182.3	1788409.9
LOC68307	1	0.000979	61.233	GNHS(1)LERER	3	0.62084	6820.5	7829.7
Pygb	1	0.00267546	78.06	QKQIS(1)VR	3	-0.064985	21056.8	26777.9
Prkcdbp	0.73193	3.32E-21	104.81	KGS(0.732)EAAQPT(0.268)PVKPPF	3	-0.31779	69640.6	57680.2
Eef2	1	4.90E-08	101.64	FT(1)DT(1)RKDEQER	3	0.40618	418725.9	336478.6
Ensa	0.544486	0.00140883	75.474	KS(0.001)S(0.071)LVT(0.383)S(0.5	3	0.9	29110.9	25135.8
Atxn2	0.944704	1.62E-42	94.281	TSPAGGT(0.01)WS(0.945)S(0.035)	4	0.06244	2283.6	2521.6
Stxbp5l	0.84452	1.38E-05	94.122	RLS(0.845)S(0.155)ADVSK	3	-0.24421	12235.7	9266.5
Enah	0.997642	2.15E-99	152.69	GS(0.002)T(0.998)IETE QK	2	-0.30376	11984.0	10924.7
Pitpnm2	0.695976	7.70E-08	91.845	T(0.039)IS(0.265)AQPS(0.696)GPS	2	-0.40735	5390.7	4064.0
Slc16a7	0.565618	0.0791305	47.869	S(0.066)AS(0.368)QAS(0.566)K	2	-0.55516	19929.7	17920.3
Mapre2	0.532761	2.85E-06	52.359	S(0.005)S(0.005)PAAKPGS(0.19)T(	3	-0.92618	11700.4	11028.4
Etl4	0.596673	5.12E-05	51.359	KLS(0.392)S(0.597)ADS(0.011)PDS	3	0.98344	14033.1	10073.7
Dock7	0.997822	0.00328838	101.38	RNS(0.998)S(0.002)LVGR	2	-0.55891	6478.8	4522.3
Map2	0.517061	2.27E-129	148.94	YTVPLPS(0.002)PVQDS(0.344)ENL	4	0.31293	15772.0	16083.0
Cactin	0.999959	3.14E-32	94.384	S(1)PGVAALAASQQSLQER	3	0.10937	19272.5	18987.6

11131.9	12320.6	13013.9	10907.0	0.3	0.1	104
26257.3	39599.6	49185.4	33595.0	0.3	0.2	453
42206.7	46965.0	68400.7	50963.0	0.3	0.2	69;69;69
14992.3	20704.5	20881.3	18408.0	0.3	0.0	870
51815.1	59482.5	65965.3	49820.0	0.3	0.1	575;690
7974.7	10603.5	10276.8	8718.7	0.3	0.0	329
17645.4	24086.9	23862.8	20606.0	0.3	0.0	232
23352.9	28049.0	30183.8	23195.0	0.3	0.1	411;537
5044.2	6887.2	8108.1	5043.4	0.3	0.2	463
1964.1	2471.2	2813.3	2065.0	0.3	0.1	1348
7995.7	8880.5	10899.1	9226.1	0.3	0.1	770
94270.9	143016.8	135162.1	122710.0	0.3	0.1	424
5509.7	7676.8	8439.2	4997.5	0.3	0.3	684
43541.7	59440.7	62324.4	42359.0	0.3	0.1	106
5643.2	6948.3	7605.4	6349.4	0.3	0.0	188
41407.1	51059.0	50090.5	40227.0	0.3	0.1	10
1667655.2	2750009.2	1991311.0	1742600.0	0.3	0.2	122;96;122
22119.0	26806.0	31663.9	21335.0	0.3	0.1	44
1664887.1	2747149.3	1988639.4	1739700.0	0.3	0.2	96
7297.4	8266.9	12696.6	6842.5	0.3	0.3	175
14968.9	25691.8	37178.1	16811.0	0.3	0.5	15
68328.7	79788.9	92686.7	75901.0	0.3	0.1	199
324513.5	504287.5	491394.5	375060.0	0.3	0.1	57
28461.1	38702.1	38448.7	27880.0	0.3	0.1	113
2145.4	3051.1	3655.6	2123.2	0.3	0.2	445
9878.1	14072.9	14573.1	11275.0	0.3	0.1	770
14289.6	16754.6	15278.4	15313.0	0.3	0.0	678
4565.8	6803.0	5736.5	5307.9	0.3	0.1	1234;1314
21144.9	23344.4	27453.5	24308.0	0.3	0.0	455
12460.6	14717.5	16799.1	13290.0	0.3	0.0	216
13566.7	17365.1	17770.5	12866.0	0.3	0.2	1396
5505.1	7424.7	6969.4	6640.0	0.3	0.1	439
16525.4	20836.5	23650.2	17177.0	0.4	0.1	978;892
18044.6	25389.3	27179.9	19200.0	0.4	0.1	142

Tanc2	0.850524	1.66E-05	121.29	S(0.851)S(0.147)MDS(0.002)CLYR	2	-1.2485	16245.5	21863.7
Fam171a2	0.814157	0.00250731	43.592	S(0.186)AS(0.814)RPAAEPPGAR	2	1.4166	2891.4	2405.8
LOC10369	0.982149	0.000139777	68.355	T(0.018)LS(0.982)INEQPK	3	0.21653	10325.1	9860.7
Wdfy3	0.913672	3.42E-06	126.66	VS(0.086)S(0.914)GFGLSK	3	-0.52723	54338.5	38603.7
Hivep1	0.987199	0.0182786	51.949	T(0.002)VRS(0.987)PS(0.011)K	3	0.20091	7166.2	9443.1
Pkp4	0.627874	2.90E-11	63.488	AAS(0.366)PY(0.006)S(0.628)QRP	2	0.77322	5402.2	3963.3
Arhgap23	1	0.00641618	45.433	LPNRVPS(1)LR	3	-0.25315	3179.8	3227.2
LOC10036	0.943177	0.000400882	41.513	AS(0.007)VGQS(0.943)PVLPS(0.03	3	0.77119	1081.5	1153.2
Mark1	0.688498	0.000290107	88.24	GT(0.011)S(0.278)T(0.688)GIIS(0.0	2	-0.29697	23664.0	22984.8
Kif5a	0.674483	5.31E-48	89.297	GHSAQIAKVRPGHY(0.105)PAS(0.	4	0.48224	9129.0	10466.2
Hn1	0.761448	0.00367506	41.099	GVD PNS(0.015)RNS(0.761)S(0.224	3	0.29739	9029.1	8302.4
Akap6	0.605172	1.44E-111	167.27	LCLVLQSSYPSSPS(0.009)AAS(0.605	4	-0.68262	9909.3	8964.5
Nolc1	0.785097	1.22E-13	75.548	KHNET(0.785)ADEAAT(0.215)PQSI	4	0.051222	6188.5	5146.7
Phkb	0.843001	0.000711745	70.816	S(0.004)GS(0.153)VY(0.843)EPLK	3	-0.16843	33265.0	25135.8
Eif4g1	0.958777	0.0676301	55.461	ART(0.959)PAT(0.041)K	2	-0.48917	17276.0	14015.3
Rasal2	0.670632	3.53E-13	73.057	LAGS(0.671)QLS(0.327)IT(0.003)Q	3	0.30381	6711.0	5400.9
Pcdh10	0.749879	2.16E-17	74.364	RVNS(0.75)S(0.249)AFQEADIVS(0.	3	1.6917	24374.8	27597.3
Wnk1	0.999996	0.000125853	71.176	RHT(1)MDKDSR	4	0.58932	10245.0	7596.8
Plxna4a	0.993494	0.015332	48.568	YTGS(0.006)PDS(0.993)LR	2	-1.4779	10578.7	15325.0
Ptgir	0.999972	1.51E-12	100.43	RDT(1)LAPDSLQAK	3	0.27122	12340.7	15667.2
Camk2b	1	0.000667225	44.391	NFS(1)AAKS(1)LLNKK	3	-0.41797	15027.8	11933.3
Camk2b	1	0.000667225	44.391	NFS(1)AAKS(1)LLNKK	3	-0.41797	15027.8	11933.3
Bcl9l	0.986034	2.28E-06	78.191	EAGT(0.986)PS(0.014)LDSEAK	2	-0.2324	14108.2	12363.3
Pxn	0.855406	1.56E-23	63.932	TGSSP PGLSKPGS(0.005)QLDS(0	4	-1.3064	4222.7	3485.3
Sik3	1	0.000968412	74.611	RHT(1)VGVADPR	2	-0.49882	41380.0	38984.4
Srcin1	0.998056	3.47E-09	72.932	RFS(0.998)NVGLVHT(0.001)S(0.00	3	1.5479	13701.5	20684.5
Exoc8	0.537484	2.10E-05	50.957	QLS(0.537)QQS(0.463)DGDRDLQE	3	-1.0253	1938.8	1542.8
Git1	0.999251	0.0286175	44.704	HAS(0.001)KLS(0.999)R	3	-0.11169	8173.0	7167.8
LOC68570	0.598486	1.30E-14	80.905	S(0.004)LT(0.003)NLS(0.058)FLT(0	3	0.57728	12105.7	10433.0
Rbbp6	0.998192	6.48E-05	48.899	GSS(0.002)NKDFT(0.998)PGRDK	4	0.58871	7539.9	6704.8
Kif3c	0.5	0.0474761	56.258	S(0.5)LVS(0.5)EEK	2	-0.67764	17947.4	34861.1
Kif3c	0.5	0.0474761	56.258	S(0.5)LVS(0.5)EEK	2	-0.67764	17947.4	34861.1
Mapt	0.909088	3.56E-198	194.01	HLSNVS(0.005)S(0.017)T(0.067)GS	4	0.15972	122643.2	105432.2
Dip2b	0.992226	3.06E-41	129.51	YRS(0.992)DIHT(0.008)EAVQAALA	4	1.7022	20025.1	18698.0

20100.4	28877.2	21980.9	23361.0	0.4	0.1	293
2837.1	3324.7	3792.6	3256.6	0.4	0.0	376
9983.9	14272.0	12721.1	11487.0	0.4	0.0	95;68
43382.0	61498.7	59762.8	52628.0	0.4	0.1	2278
7604.3	14970.5	8604.6	7329.5	0.4	0.4	232
4891.0	5838.5	5969.3	6393.2	0.4	0.0	275
2529.6	3831.5	4059.6	3521.1	0.4	0.0	439
1401.2	1858.1	1177.3	1613.9	0.4	0.2	589
23538.2	29296.3	30374.1	30109.0	0.4	0.0	650
9040.8	16348.7	9853.3	10440.0	0.4	0.3	931
9462.6	11282.3	13803.7	9200.3	0.4	0.1	17
10814.6	12597.8	13873.1	11532.0	0.4	0.0	452
5778.5	8057.3	7897.2	6005.6	0.4	0.1	595
32498.2	41507.0	41344.8	34004.0	0.4	0.1	29
17006.6	22401.8	22086.7	17622.0	0.4	0.1	1172
6159.9	8478.7	8409.6	6612.4	0.4	0.1	732
23358.2	45163.2	27342.3	24401.0	0.4	0.3	782
10801.9	12759.5	13193.5	10914.0	0.4	0.1	58
11486.4	23629.3	12620.7	11910.0	0.4	0.4	1257
15784.4	14355.6	24276.4	17843.0	0.4	0.2	361
13999.0	17547.7	20531.9	14766.0	0.4	0.1	315
13999.0	17547.7	20531.9	14766.0	0.4	0.1	319
14173.6	18531.0	16790.5	17247.0	0.4	0.0	129
4335.6	5822.6	5468.4	4321.2	0.4	0.1	306
37494.6	48294.8	62237.8	42529.0	0.4	0.1	469
13127.0	32421.3	16082.0	13210.0	0.4	0.5	79
1999.0	2135.7	2756.8	2229.4	0.4	0.1	28
7534.8	9390.4	11619.4	8739.5	0.4	0.1	597
12702.2	17206.7	17407.1	11223.0	0.4	0.2	380
6323.8	9794.8	10127.1	6832.6	0.4	0.1	1433
35185.4	47465.5	25765.0	41391.0	0.4	0.4	482
35185.4	47465.5	25765.0	41391.0	0.4	0.4	485
146079.5	176653.5	180376.4	131780.0	0.4	0.1	630;745
20860.6	26715.8	27562.5	23828.0	0.4	0.0	49

Sptan1	1	2.30E-16	104.94	ENLLEEQGS(1)IALR	3	0.79369	1253.0	1056.0
Gsk3b	0.70869	3.32E-66	124.91	T(0.146)T(0.146)S(0.709)FAESCKP	4	-0.2013	151327.2	131366.5
Mxra7	0.99819	0.000404683	45.614	YSPGQLRGS(0.998)QY(0.001)K	2	0.031057	13168.4	12057.3
Fgd6	1	6.23E-05	100.93	AAS(1)EELVEK	2	1.0657	46899.7	71755.8
Abca2	0.847106	6.96E-05	51.03	VSEEDQS(0.153)LENS(0.847)EADV	2	0.078561	2081.0	2556.5
Arhgef2	0.966245	1.33E-47	89.742	LQDS(0.007)S(0.008)DPDT(0.966)I	4	0.88719	10325.5	9193.4
Arfip1	0.804433	6.00E-15	54.66	HS(0.053)LPS(0.804)GLGLS(0.067)	5	1.2418	3577.0	2978.3
Vim	0.92333	1.07E-29	122.96	TYSLGSALRPS(0.038)T(0.923)S(0.0	3	0.50254	16308.7	10594.9
Nefh	0.89262	3.27E-05	40.086	S(0.001)S(0.001)S(0.003)T(0.003)I	4	-0.10604	10530.4	10888.2
Mlip	0.69488	2.05E-40	126.07	SLAIS(0.004)S(0.695)S(0.301)LASC	3	-0.57485	19617.2	17059.2
RGD15599	1	0.0174288	51.113	RKS(1)NCVK	3	-0.27466	21926.2	15812.0
Dennd4b	0.999708	0.000899235	49.595	TSGCQEEAGT(1)PR	2	-1.7477	1668.8	1574.3
Ankrd50	0.826846	8.62E-61	159.22	S(0.003)NS(0.142)S(0.827)GGT(0.1	2	-0.36861	22700.3	44826.5
Sh3pxd2a	0.861818	0.00100973	67.214	AQIS(0.138)S(0.862)PNLR	2	-0.059888	32634.1	50267.2
LOC10369	0.544427	6.76E-06	41.115	DS(0.005)S(0.033)APPRS(0.865)PC	3	-0.45076	1091.0	1299.4
LOC10091	0.999999	0.013739	74.2	LSLGAS(1)R	2	0.08871	4506.1	3229.4
Akap12	0.800619	2.99E-05	92.538	LFS(0.084)S(0.801)S(0.115)GLK	3	0.073473	18205.1	20256.7
Abcc5	0.878213	2.26E-27	85.387	GHLLLD(0.122)DERPS(0.878)PEEI	4	2.6225	27440.0	44146.4
Bcr	0.699838	2.58E-19	150.09	SQS(0.076)T(0.224)S(0.7)EQEK	2	-1.3609	15804.2	14558.3
Rapgef5	0.999919	5.16E-06	66.246	RHT(1)VDEYSPQKK	4	0.61906	21755.7	35237.3
Tom1l2	1	0.00101224	80.318	GNS(1)LAEQRK	2	0.21032	40252.9	40455.3
Ccny	0.830041	0.00330173	82.008	AS(0.05)T(0.83)IFLS(0.12)K	2	-1.1151	23941.8	20789.8
Dst	0.999836	0.00201752	56.087	KTPSRPGS(1)R	3	0.059138	36800.1	33559.0
Pitpnc1	0.586363	3.27E-14	82.59	S(0.311)APET(0.586)LT(0.103)LPD	3	-0.41547	10427.4	5738.3
Dpysl2	0.991459	9.85E-05	79.875	NLGS(0.009)GS(0.991)PKPR	3	-0.74639	21917.9	17773.3
Gab1	0.970654	0.000324205	85.924	S(0.029)YS(0.971)HDVLPK	2	-0.40501	57259.3	42639.3
Hn1	0.993906	1.09E-25	73.936	VLRPPGGGS(0.006)NFS(0.994)LGF	3	-0.3422	16033.2	17299.4
Tns3	0.964733	4.41E-59	140.41	KLS(0.965)IGQYDNDAGS(0.035)Q\	3	-0.2986	49943.5	36460.4
Rrbp1	1	0.000743956	63.727	KAEGT(1)PAQGK	3	-2.8224	14167.8	14187.5
Fam192a	0.830953	0.000402924	55.66	HKS(0.831)S(0.07)ES(0.097)GNS(0	3	0.35109	8351.0	6220.5
Fam208b	0.564939	3.97E-06	75.102	IS(0.009)ALET(0.565)HIS(0.426)PR	3	-0.57824	942.2	842.6
Gja1	0.911907	4.86E-07	78.902	LVTGDRNNS(0.912)S(0.088)CR	3	0.10543	25441.0	39399.0
Mast4	0.786921	0.0100919	64.82	S(0.147)DS(0.787)LPS(0.066)FR	2	0.18378	4408.9	8018.3
Sorbs1	0.59024	0.00120615	54.023	S(0.034)S(0.056)S(0.22)LKS(0.59)S	3	0.27414	10635.0	12002.4

1002.5	1385.6	1567.6	1394.4	0.4	0.0	1041
150103.9	190117.0	213579.2	164520.0	0.4	0.0	9
11463.0	16275.0	19138.3	12772.0	0.4	0.1	120
54533.1	127375.3	49757.1	50371.0	0.4	0.5	500
1563.1	2340.4	2510.5	3299.3	0.4	0.2	1262
11599.3	15545.7	12473.2	12909.0	0.4	0.1	1137
2624.7	4266.7	4196.2	3614.2	0.4	0.0	39
14666.5	19379.1	20921.9	14399.0	0.4	0.2	48
9852.6	12409.7	15943.1	12816.0	0.4	0.0	1051;1021
20582.7	24177.1	30504.4	20733.0	0.4	0.1	89
19018.8	26522.2	27785.8	20469.0	0.4	0.1	152
1424.3	2295.9	1873.0	1983.3	0.4	0.0	1015
26852.4	76287.7	22941.6	25210.0	0.4	0.6	1138
32913.4	81131.9	38728.7	32860.0	0.4	0.5	369
1318.6	1491.4	1715.0	1687.4	0.4	0.0	115
4537.9	6705.7	4986.0	4504.4	0.4	0.2	371
22054.1	26364.9	28522.1	24981.0	0.4	0.0	508
27564.6	69276.6	29170.8	32422.0	0.4	0.5	558
10788.0	19354.9	16281.9	18740.0	0.4	0.1	236
22010.4	58632.3	23632.0	22748.0	0.4	0.5	206
37558.4	52824.5	63447.5	41073.0	0.4	0.1	394;394
24108.8	31541.3	33480.6	26646.0	0.4	0.0	67;19
32403.4	47969.2	49656.7	39341.0	0.4	0.0	7417;7626
7916.4	12969.6	9659.0	9494.2	0.4	0.2	303
23749.0	29153.3	31818.9	23802.0	0.4	0.1	27
60323.7	77421.8	78143.5	58596.0	0.4	0.1	266
16952.3	23086.0	25582.3	18671.0	0.4	0.1	31
48876.6	62388.6	65145.6	53749.0	0.4	0.1	773
14738.9	17841.3	23167.1	16778.0	0.4	0.1	535
8785.7	9957.6	12669.8	8747.1	0.4	0.1	160
1315.7	1336.0	1450.5	1378.4	0.4	0.1	1732
27119.6	69804.5	28428.1	25374.0	0.4	0.5	296
4143.3	12939.9	4787.1	4589.3	0.4	0.6	2257
7711.5	12915.7	19734.6	8276.2	0.4	0.4	721;509;772;463



Cul4b	0.590833	2.52E-07	44.278	DS(0.087)AS(0.591)PS(0.247)T(0.C	4	-1.7511	19224.8	15663.9
Anks3	0.879448	0.00138461	66.55	S(0.004)S(0.014)S(0.879)S(0.102)I	2	-0.32802	8080.0	13191.5
Mpz	0.974069	4.73E-09	110.38	FHKS(0.026)S(0.974)KDS(0.5)S(0.5	3	-0.44784	1182482.1	586487.5
Nefh	0.999942	3.32E-20	76.799	S(0.009)PGEAKS(0.991)PAEAKS(1)	5	1.1949	57459.7	55748.5
Trpv2	0.99729	0.00514432	86.136	LFS(0.997)VVS(0.003)R	2	1.5056	1755.0	6848.6
Grip1	0.555714	0.0632991	43.308	AS(0.556)LS(0.444)PVPK	2	0.22392	6236.3	16329.8
Stk10	0.96646	0.000333405	77.062	ILRLS(0.966)T(0.034)FEK	3	0.67901	6110.8	5153.0
Nes	1	0.0257966	67.334	ENQKS(1)LR	2	-0.69139	22539.3	18037.7
Shroom2	0.962145	0.000203476	61.48	S(0.038)PS(0.962)PQFAPQK	3	0.5517	3000.9	1986.3
Enah	0.67603	5.45E-19	71.06	NS(0.676)RPS(0.261)S(0.112)PVN	3	-0.20973	33972.3	29045.2
Frmd8	0.521703	5.57E-12	58.294	QLS(0.285)S(0.522)S(0.192)HGS(0	4	0.11921	12688.9	16911.1
Rtkn	0.529848	1.10E-08	53.998	LVAQPLCMT(0.002)QPT(0.057)AS	3	1.084	4440.5	7824.2
Tgfb2	0.711128	1.87E-24	98.281	S(0.001)CS(0.009)QEKIPEDGS(0.7	3	0.087864	73029.0	126978.9
Caskin1	0.764747	1.17E-05	76.211	S(0.141)GS(0.765)LS(0.095)NVAG	2	-0.11306	9904.7	9468.5
Mlip	0.802133	2.71E-28	106.93	SLAIS(0.025)S(0.167)S(0.802)LAS	4	-1.2536	2631.5	2329.7
Rbm14	0.993388	0.00183243	65.172	LS(0.005)ES(0.993)QLS(0.001)FR	2	0.68551	3315.2	2524.1
Rtn4	0.945208	1.53E-38	82.835	RRGS(0.473)GS(0.582)VDET(0.945	4	0.50424	7992.6	7675.9
Rtn4	0.748625	1.51E-76	113.43	GS(0.248)GS(0.749)VDET(0.003)LF	5	-0.21525	31480.8	33087.3
Bclaf1	0.636311	1.67E-08	60.549	NT(0.004)PS(0.084)QHS(0.636)HS	3	1.2359	679.8	798.9
RGD15629	0.806912	5.13E-05	63.073	S(0.001)ES(0.015)AENHS(0.807)Y	3	-1.0678	10494.3	7133.3
Cpeb1	0.997367	0.000130301	44.238	IS(0.997)PPLPFLS(0.002)MT(0.001	3	-0.39052	320.5	516.0
Arid1b	0.959731	0.000138459	90.104	APS(0.96)PAS(0.04)FPR	2	0.035339	18906.4	18393.1
Myh2	1	0.00223472	51.726	ELEGEVES(1)EQK	2	0.20066	11844.0	10379.0
Crmp1	1	8.03E-15	83.894	HAAPAPS(1)AK	2	0.77007	35379.6	33114.8
Gys1	0.998338	1.95E-16	114.54	RAS(0.998)CS(0.002)SSTGGSKR	3	0.43665	43203.6	39299.2
Pnpla6	0.617301	0.000392241	40.88	LFPS(0.617)PGLPT(0.104)RT(0.14)	4	-0.65507	432.4	450.8
Enah	0.744778	4.53E-13	63.138	NS(0.676)RPS(0.261)S(0.112)PVN	3	-0.20973	19076.9	17231.4
Aff4	0.966762	0.000589503	52.247	EAS(0.005)S(0.021)AT(0.967)PGRI	2	1.8321	3630.9	6375.2
Cdh19	0.999938	1.09E-05	92.611	SAEIRS(1)LYR	3	0.095207	4763.4	4422.7
Crmp1	0.771854	8.03E-15	83.894	HAAPAPS(0.998)AKS(0.224)S(0.77	3	0.23129	33127.9	32809.8
Camk2d	1	4.03E-05	71.279	NFS(1)AAKS(1)LLK	2	-0.37605	115144.9	104527.2
Camk2d	1	4.03E-05	71.279	NFS(1)AAKS(1)LLK	2	-0.37605	115144.9	104527.2
Enah	0.975126	5.98E-79	149.07	GST(0.019)IET(0.975)EQKEDRS(0.C	4	-0.20466	45819.2	38580.7
Rlim	0.977648	6.45E-16	91.067	AERNS(0.978)T(0.022)EALEVPLTR	3	0.98997	7279.2	6844.5

15091.3	22322.6	26245.9	18949.0	0.4	0.1	151
10407.7	11017.2	16002.9	15850.0	0.4	0.2	222
504289.0	924791.1	1270938.2	881840.0	0.4	0.3	206
57308.6	38201.6	138688.6	54835.0	0.4	0.5	598
1977.1	6185.7	6384.4	1887.3	0.5	0.6	82
20883.0	25940.3	11613.0	21994.0	0.5	0.4	844
5689.1	8090.4	8644.3	6512.1	0.5	0.0	13
19790.6	28196.4	33849.3	21036.0	0.5	0.1	879
2995.2	4465.4	3991.8	2547.4	0.5	0.2	1009
33954.6	45300.7	48583.8	39923.0	0.5	0.0	334
13646.6	28741.9	15159.8	16050.0	0.5	0.3	447
6734.2	6474.3	10535.4	9369.3	0.5	0.2	313
89810.0	235116.4	86122.0	82013.0	0.5	0.5	562
9200.1	14522.8	13324.9	11985.0	0.5	0.0	390
2957.7	3347.1	4737.5	3009.3	0.5	0.1	90
2482.6	5253.0	3225.4	3193.3	0.5	0.2	620
13307.0	20174.4	7796.8	12727.0	0.5	0.4	175
56436.7	81677.5	35627.5	52857.0	0.5	0.4	171
558.2	757.5	1031.4	1079.1	0.5	0.1	259
11299.0	14053.1	16057.4	10658.0	0.5	0.1	1003
351.5	579.2	551.9	545.2	0.5	0.1	207
18217.1	28584.7	24957.1	24909.0	0.5	0.0	1078
10277.8	10929.0	12939.1	22092.0	0.5	0.3	1835
30224.1	46506.3	53170.4	40118.0	0.5	0.0	518;632
36342.6	59423.1	68995.9	40258.0	0.5	0.1	698
259.2	557.6	575.3	489.1	0.5	0.1	327
20300.6	27842.2	29041.5	23626.0	0.5	0.0	345
4220.9	11532.0	4520.6	4246.6	0.5	0.5	495
4507.8	6208.8	8203.1	5139.0	0.5	0.1	678
27591.3	44492.3	51817.5	37280.0	0.5	0.0	522;636
115950.2	164224.0	179329.1	138350.0	0.5	0.0	315;315
115950.2	164224.0	179329.1	138350.0	0.5	0.0	319;319
47240.3	67967.6	72235.0	49316.0	0.5	0.1	681
7045.8	11284.5	10693.9	8885.1	0.5	0.0	194

Specc1	0.987613	2.18E-27	79.382	KS(0.006)PS(0.988)LES(0.006)LSR	3	1.5248	29153.9	27792.5
Ahnak	0.996856	0.00122328	56.205	FGT(0.997)FGGLGS(0.003)K	3	0.22021	6785.0	6653.2
Nefm	0.664076	0.000339495	79.697	VS(0.002)GS(0.283)PS(0.664)S(0.0	2	0.46355	21984.7	35681.5
Ssfa2	0.922335	0.0024229	44.734	AS(0.922)VALT(0.052)PT(0.023)AF	2	-1.9941	16662.9	23282.0
Ptpdc1	1	0.00407815	48.568	KDS(1)PKEVQR	3	0.14167	11121.9	7730.4
Nipbl	0.724986	0.0057463	53.479	T(0.275)PIT(0.725)PQDVNR	2	-0.91452	19755.5	19284.9
Ahnak	0.999931	3.69E-08	101.39	FGTFGGLGS(1)K	3	-0.059116	108267.9	83662.8
Pitpnm1	0.738084	2.22E-69	110.07	RAS(0.738)T(0.254)AS(0.007)CPPA	3	-0.30353	1814.4	1856.1
Plcd3	0.518062	2.42E-83	110.9	VSAQVAAPLAFPLSPASS(0.002)DS(	4	-0.43696	2615.8	2189.2
Mapk4	0.507966	4.24E-14	76.586	AGS(0.492)T(0.508)PLAEDVQVDPI	2	2.1029	32021.1	47726.8
Rtn4	0.527052	6.77E-07	45.579	GS(0.011)GS(0.005)VDET(0.433)LF	2	-0.64499	1494.3	1534.3
Camsap3	0.938018	0.00110698	46.156	APS(0.938)PS(0.049)GLMS(0.011)	2	-1.5894	30705.5	66083.6
Marcks	1	0.0159308	42.976	FS(1)FKKS(1)FK	3	0.033356	19265.4	18993.1
Marcks	1	0.0159308	42.976	FS(1)FKKS(1)FK	3	0.033356	19265.4	18993.1
Sptbn1	1	0.00971241	63.419	RFS(1)LFGK	3	-0.11334	4365.1	2980.6
Gon4l	0.804031	2.97E-10	64.5	EET(0.005)QAAKS(0.804)PS(0.172	3	-0.88371	6609.4	8172.8
Ston2	0.9787	7.71E-33	78.752	KPNAPSAATAGPDVPFNS(0.006)T(i	5	-0.76082	980.2	3600.4
Jakmip1	0.795722	1.93E-14	82.01	T(0.204)PAT(0.796)PEEDLDETTTR	3	0.23258	27040.4	112543.5
Mapk4	0.5	4.24E-14	76.586	AGS(0.5)T(0.5)PLAEDVQVDPR	3	0.35797	12628.1	23938.0
Tor1aip1	0.601531	2.77E-07	44.292	DAQS(0.602)LS(0.396)EDRGEDEPS	5	1.2537	22942.4	51564.9
Pum1	0.991103	7.63E-31	88.04	RPGQSFHVNSEVNS(0.009)VLS(0.9	4	-1.3279	6734.2	18359.1
Rims1	0.993517	0.01073	64.064	VS(0.994)PPES(0.006)PR	2	0.14468	15215.0	41624.6
Bag3	0.999997	2.39E-14	86.367	AAPS(1)PAPAEAASLK	2	-0.14628	39815.2	45243.3
Rtn4	0.984686	3.07E-151	178.33	GS(0.985)GS(0.015)VDETLFALPAA	3	-0.21807	158948.4	240180.5
Prx	0.688103	1.48E-07	47.472	MPT(0.001)FGLS(0.037)LLES(0.27:	4	1.853	3291.1	4991.0
Dpysl3	0.999573	2.83E-48	115.96	NLHQS(1)GFSLSGTQVDEGVR	3	0.14441	23523.2	26503.7
Prx	0.997886	1.14E-26	82.635	VPS(0.998)VEIVT(0.002)PQLPTVE\	4	1.3996	7555.7	9984.4
Pclo	0.388054	2.46E-05	42.059	LPAAVS(0.023)LY(0.161)S(0.388)P	3	0.074272	0.0	0.0
Pclo	0.487694	0.00765478	40.724	S(0.018)HS(0.488)S(0.488)PGS(0.C	3	-1.5719	0.0	0.0
Pclo	0.487694	0.00765478	40.724	S(0.018)HS(0.488)S(0.488)PGS(0.C	3	-1.5719	0.0	0.0
Pclo	0.493398	9.30E-06	51.31	S(0.493)MS(0.493)DPKPLS(0.011)I	3	0.27262	0.0	0.0
Pclo	0.493398	9.30E-06	51.31	S(0.493)MS(0.493)DPKPLS(0.011)I	3	0.27262	0.0	0.0
Myh4	0.499264	7.93E-13	72.898	VQLLHTQNT(0.499)S(0.499)LINT(C	3	0.093199	0.0	0.0
Usp35	0.484654	1.68E-11	57.738	QS(0.029)S(0.485)LPS(0.485)PQEE	2	-0.46266	0.0	0.0

27971.3	48006.6	47364.4	29155.0	0.6	0.1	905
7292.1	10843.0	10406.6	9320.6	0.6	0.0	5505
22680.1	71399.5	23764.5	23653.0	0.6	0.5	32
16108.0	50814.8	15814.9	16934.0	0.6	0.5	1148
9061.4	13698.9	16240.2	11816.0	0.6	0.0	557
19283.9	32735.9	27776.2	26899.0	0.6	0.0	406
113128.9	133326.1	190571.3	133820.0	0.6	0.1	5511
1505.3	2270.3	2751.2	2763.3	0.6	0.0	663
2797.8	3641.5	5082.7	2801.4	0.6	0.1	39
34841.5	101691.3	36053.9	36604.0	0.6	0.4	383
2947.7	4547.2	1673.4	2880.7	0.6	0.3	183
32821.8	132369.2	32670.6	33066.0	0.6	0.6	1078;1079
15181.8	27662.9	35588.0	19332.0	0.6	0.1	152
15181.8	27662.9	35588.0	19332.0	0.6	0.1	156
3735.2	5711.3	6792.3	4835.6	0.6	0.0	2344
7562.9	13427.2	13116.5	8471.3	0.6	0.1	1240
3053.0	5645.0	3649.3	3414.9	0.7	0.2	270
31618.8	233675.4	29842.9	34753.0	0.8	0.6	470
14210.8	61791.3	13710.7	14601.0	0.8	0.5	382
26964.2	128442.3	26270.5	29788.0	0.9	0.5	155
7528.2	45447.0	7949.4	7603.1	0.9	0.5	209
18815.4	107777.4	17906.2	17662.0	0.9	0.5	443
46779.3	84550.6	84276.5	86355.0	1.0	0.0	401
676196.7	1232504.8	200926.4	655640.0	1.0	0.4	169
3532.4	15246.5	4043.2	4199.0	1.0	0.4	406
22729.0	58132.9	49395.9	41747.0	1.0	0.0	649
7124.5	36808.0	6588.4	8009.2	1.1	0.4	838
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1841
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4822
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4823
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3624
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3626
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1726;1729
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	550

RGD13099	0.465009	0.000286112	63.212	GG(0.412)LS(0.465)GNS(0.123)A.	2	-0.88095	0.0	0.0
RGD13099	0.192742	4.60E-20	65.207	SDPFFILPS(0.193)FQS(0.193)ES(0.193)	3	0.24559	0.0	0.0
RGD13099	0.192742	4.60E-20	65.207	SDPFFILPS(0.193)FQS(0.193)ES(0.193)	3	0.24559	0.0	0.0
RGD13099	0.192742	4.60E-20	65.207	SDPFFILPS(0.193)FQS(0.193)ES(0.193)	3	0.24559	0.0	0.0
RGD13099	0.192742	4.60E-20	65.207	SDPFFILPS(0.193)FQS(0.193)ES(0.193)	3	0.24559	0.0	0.0
RGD13099	0.489355	1.50E-17	98.281	T(0.011)S(0.011)GS(0.489)S(0.489)	3	0.63541	0.0	0.0
Prr12	0.450394	0.0231387	43.635	T(0.45)S(0.45)S(0.099)FHLLR	3	0.45272	0.0	0.0
Rbbp6	0.265181	5.32E-07	43.903	VAGTEGPSST(0.001)LVDY(0.036)T	3	1.3519	0.0	0.0
Arhgef26	0.325293	3.01E-06	52.814	AVVSGFDFDS(0.024)PT(0.325)S(0.325)	4	-0.38808	0.0	0.0
Arhgef26	0.325293	3.01E-06	52.814	AVVSGFDFDS(0.024)PT(0.325)S(0.325)	4	-0.38808	0.0	0.0
Zfp704	0.403453	4.88E-11	40.864	LNT(0.002)DAVAEGLNS(0.403)VAI	4	-0.58587	0.0	0.0
Zfp704	0.403453	4.88E-11	40.864	LNT(0.002)DAVAEGLNS(0.403)VAI	4	-0.58587	0.0	0.0
Rbm15	0.473856	0.00211699	45.004	LHS(0.007)Y(0.01)S(0.474)S(0.474)	3	0.4629	0.0	0.0
Rbm15	0.478303	4.04E-05	53.3	S(0.005)DGNT(0.478)PS(0.478)AS	2	0.74164	0.0	0.0
Tnks1bp1	0.249935	6.61E-20	67.227	TWVTSSADPV(0.25)EHGVS(0.25)	3	1.7342	0.0	0.0
Tnks1bp1	0.416759	1.25E-94	153.06	TWVTSSADPVSEHGVS(0.417)T(0.417)	3	1.2801	0.0	0.0
Tnks1bp1	0.333283	2.90E-63	111.57	TWVTSSADPVSEHGVS(0.333)T(0.333)	4	0.28682	0.0	0.0
LOC68412	0.166607	1.73E-07	44.625	TYETVANPGPT(0.167)S(0.167)S(0.167)	4	-0.41657	0.0	0.0
LOC68412	0.166607	1.73E-07	44.625	TYETVANPGPT(0.167)S(0.167)S(0.167)	4	-0.41657	0.0	0.0
LOC68412	0.166607	1.73E-07	44.625	TYETVANPGPT(0.167)S(0.167)S(0.167)	4	-0.41657	0.0	0.0
LOC68412	0.166607	1.73E-07	44.625	TYETVANPGPT(0.167)S(0.167)S(0.167)	4	-0.41657	0.0	0.0
LOC68412	0.166607	1.73E-07	44.625	TYETVANPGPT(0.167)S(0.167)S(0.167)	4	-0.41657	0.0	0.0
Trappc12	0.449386	2.81E-09	70.197	S(0.449)PS(0.449)FS(0.083)S(0.011)	3	0.72163	0.0	0.0
LOC68194	0.478367	5.72E-16	57.533	VNSPLAS(0.002)APDPAAQS(0.478)	4	-0.11722	0.0	0.0
LOC68194	0.478367	5.72E-16	57.533	VNSPLAS(0.002)APDPAAQS(0.478)	4	-0.11722	0.0	0.0
Mapk8ip2	0.476096	2.72E-48	90.978	AGGGSGSQELS(0.045)GES(0.476)I	5	0.19708	0.0	0.0
Mapk8ip2	0.471983	6.03E-10	58.87	RS(0.472)S(0.472)QELS(0.038)S(0.038)	3	-0.21062	0.0	0.0
Mapk8ip2	0.497703	5.82E-27	82.709	SSQELS(0.498)S(0.498)PGS(0.004)	3	-0.39363	0.0	0.0
Mapk8ip2	0.497703	5.82E-27	82.709	SSQELS(0.498)S(0.498)PGS(0.004)	3	-0.39363	0.0	0.0
Osbpl10	0.475014	2.14E-21	69.47	S(0.475)RS(0.475)LT(0.049)LLPHG	4	0.23018	0.0	0.0
Osbpl10	0.475014	2.14E-21	69.47	S(0.475)RS(0.475)LT(0.049)LLPHG	4	0.23018	0.0	0.0
Edc3	0.479616	0.00088267	74.077	HNS(0.48)WS(0.48)S(0.039)S(0.039)	2	0.089432	0.0	0.0
Herc1	0.481354	4.80E-31	90.09	AQT(0.459)PPIS(0.481)S(0.06)LPA	3	-0.34699	0.0	0.0
Herc1	0.354127	0.00339876	43.68	NVDNAEGS(0.354)DT(0.354)DY(0.354)	2	-0.32475	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1937
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1940
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1942
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1943
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1046
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1070
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1237
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	330
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	405
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	410
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	126
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	756
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	274
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	279
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	281
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	742
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	743
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	745
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	747
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	750
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	234
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	64
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	248
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	253
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	254
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	188
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	190
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	161
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2703
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4855

Polr2a	0.449774	2.49E-38	87.676	YTPTSPSYS(0.013)PS(0.45)S(0.45)F	3	-0.8323	0.0	0.0
Polr2a	0.449774	2.49E-38	87.676	YTPTSPSYS(0.013)PS(0.45)S(0.45)F	3	-0.8323	0.0	0.0
Zzef1	0.344608	2.61E-35	75.196	T(0.345)S(0.345)S(0.311)VVEEHFC	5	0.70028	0.0	0.0
Smg8	0.496235	6.28E-33	98.957	QAS(0.496)T(0.496)VEY(0.008)LPC	4	0.87198	0.0	0.0
Cux1	0.499683	3.32E-13	62.94	SETPQNS(0.001)PLPS(0.5)S(0.5)PI	3	1.588	0.0	0.0
Cux1	0.499683	3.32E-13	62.94	SETPQNS(0.001)PLPS(0.5)S(0.5)PI	3	1.588	0.0	0.0
LOC68779	0.461505	9.12E-22	84.375	GALDS(0.077)S(0.462)S(0.462)PEV	3	-1.0434	0.0	0.0
Plekha2	0.441379	2.39E-05	40.432	S(0.013)QS(0.042)Y(0.009)VPT(0.4	3	0.16726	0.0	0.0
LOC10091	0.493219	9.23E-06	73.927	QVHPDT(0.014)GIS(0.493)S(0.493	2	0.049146	0.0	0.0
RGD15603	0.333333	3.77E-42	77.959	GAVSAGQQELDKES(0.333)GT(0.33	4	-0.098844	0.0	0.0
RGD15603	0.333333	3.77E-42	77.959	GAVSAGQQELDKES(0.333)GT(0.33	4	-0.098844	0.0	0.0
Ccdc6	0.425748	1.50E-38	77.43	QLS(0.426)ES(0.426)ES(0.074)S(0.	4	-0.4131	0.0	0.0
Ccdc6	0.425748	1.50E-38	77.43	QLS(0.426)ES(0.426)ES(0.074)S(0.	4	-0.4131	0.0	0.0
Ccdc6	0.200183	4.28E-18	46.489	T(0.045)VS(0.133)S(0.4)PIPY(0.11	4	-0.21847	0.0	0.0
Ccdc6	0.188726	2.75E-12	40.166	T(0.003)VS(0.007)S(0.016)PIPY(0.	4	0.60543	0.0	0.0
Ccdc6	0.190404	2.75E-12	40.166	T(0.003)VS(0.007)S(0.016)PIPY(0.	4	0.60543	0.0	0.0
Ccdc6	0.190241	2.75E-12	40.166	T(0.003)VS(0.007)S(0.016)PIPY(0.	4	0.60543	0.0	0.0
Ccdc6	0.197351	8.21E-24	56.664	TVSSPIPY(0.031)T(0.091)PS(0.081	4	-1.0406	0.0	0.0
Ccdc6	0.18924	2.75E-12	40.166	T(0.003)VS(0.007)S(0.016)PIPY(0.	4	0.60543	0.0	0.0
Ccdc6	0.18897	2.75E-12	40.166	T(0.003)VS(0.007)S(0.016)PIPY(0.	4	0.60543	0.0	0.0
Kdm5c	0.499748	6.40E-33	97.095	EALVS(0.001)QPS(0.5)S(0.5)PGLLC	4	-0.58323	0.0	0.0
Slc9a6	0.499542	1.54E-06	74.853	FMGT(0.024)S(0.5)T(0.477)EDALD	2	0.1825	0.0	0.0
Slc9a6	0.408255	8.48E-11	54.225	LVLPMDDS(0.408)EPALNS(0.243)L	4	1.274	0.0	0.0
Ltbp1	0.375327	0.00037676	63.185	EEPVEALT(0.375)S(0.375)S(0.249)	2	0.62655	0.0	0.0
Ltbp1	0.325922	7.15E-13	62.055	GFVPAGES(0.326)S(0.326)Y(0.272	3	2.0353	0.0	0.0
Ltbp1	0.325922	7.15E-13	62.055	GFVPAGES(0.326)S(0.326)Y(0.272	3	2.0353	0.0	0.0
Fam65b	0.369074	0.00252558	42.947	RLT(0.369)S(0.369)AEGPIT(0.204)	3	-0.39738	0.0	0.0
Sulf2	0.499086	1.14E-15	65.118	YDGQS(0.499)S(0.499)EACS(0.002	3	-0.59367	0.0	0.0
Sulf2	0.499086	1.14E-15	65.118	YDGQS(0.499)S(0.499)EACS(0.002	3	-0.59367	0.0	0.0
Ltb4r	0.425749	2.05E-10	66.059	LLEGTGSEVS(0.148)S(0.426)T(0.42	3	0.44208	0.0	0.0
Lin7b	0.477911	1.50E-06	68.283	QQHHS(0.011)Y(0.001)S(0.478)S(C	3	0.47084	0.0	0.0
Copb2	0.499402	1.71E-39	83.917	ATAQQEPDGKPAS(0.499)S(0.499)	5	-0.5052	0.0	0.0
Copb2	0.415269	1.66E-10	50.783	ATAQQEPDGKPAS(0.261)S(0.261)	4	-0.90484	0.0	0.0
Vapb	0.49824	0.0121895	51.276	IMPT(0.498)S(0.498)AS(0.004)K	3	0.54455	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1849
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1850
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1462
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	742
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	819
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	820
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	43
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	189
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	57;57
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	60
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	299
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	335
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	336
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	337
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	341
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	348
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	897
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	604
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	634
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	778
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1404
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1405
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	682
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	502
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	503
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	201
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	859
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	866
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	144

Clock	0.33186	5.19E-05	40.798	IPT(0.004)DT(0.332)S(0.332)T(0.332)	5	-0.38665	0.0	0.0
LOC102551	0.318312	2.19E-12	47.383	AKVETPPLS(0.032)AS(0.318)PPQQ	6	-0.59136	0.0	0.0
Mat2b	0.434668	9.51E-13	51.321	YEMACAIADAFNLPS(0.435)S(0.435)	5	-1.9298	0.0	0.0
Mat2b	0.434668	9.51E-13	51.321	YEMACAIADAFNLPS(0.435)S(0.435)	5	-1.9298	0.0	0.0
Arfgap3	0.499615	8.93E-05	51.03	KDS(0.5)S(0.5)RDPEPAT(0.001)K	4	0.46533	0.0	0.0
Arfgap3	0.499615	8.93E-05	51.03	KDS(0.5)S(0.5)RDPEPAT(0.001)K	4	0.46533	0.0	0.0
Arfgap3	0.443467	2.95E-13	65.855	LS(0.004)T(0.018)S(0.086)S(0.443)	4	0.94583	0.0	0.0
Arfgap3	0.479163	1.43E-06	57.148	LST(0.001)S(0.002)S(0.008)S(0.032)	3	0.17248	0.0	0.0
Arfgap3	0.479163	1.43E-06	57.148	LST(0.001)S(0.002)S(0.008)S(0.032)	3	0.17248	0.0	0.0
Arfgap3	0.490682	7.93E-08	92.495	LT(0.013)NT(0.491)S(0.491)FT(0.013)	3	1.6805	0.0	0.0
Crtc1	0.197594	3.32E-13	42.344	GPQLPPLAVT(0.011)VPS(0.198)T(0.011)	5	0.4048	0.0	0.0
Crtc1	0.197594	3.32E-13	42.344	GPQLPPLAVT(0.011)VPS(0.198)T(0.011)	5	0.4048	0.0	0.0
Crtc1	0.197594	3.32E-13	42.344	GPQLPPLAVT(0.011)VPS(0.198)T(0.011)	5	0.4048	0.0	0.0
Crtc1	0.291056	2.54E-45	78.531	GQYYGGS(0.04)LPNVNQIGS(0.291)	4	0.48018	0.0	0.0
Crtc1	0.291056	2.54E-45	78.531	GQYYGGS(0.04)LPNVNQIGS(0.291)	4	0.48018	0.0	0.0
Crtc1	0.291056	2.54E-45	78.531	GQYYGGS(0.04)LPNVNQIGS(0.291)	4	0.48018	0.0	0.0
Spred2	0.493996	1.92E-06	78.964	T(0.009)IS(0.494)S(0.494)PT(0.009)	3	-0.37912	0.0	0.0
Dbnidd2	0.375733	2.73E-07	79.639	T(0.311)S(0.311)S(0.376)LS(0.003)	3	-0.31368	0.0	0.0
Dbnidd2	0.499887	5.85E-28	146.84	TSSLS(0.5)S(0.5)DSSNLR	2	-0.5574	0.0	0.0
Dbnidd2	0.499887	5.85E-28	146.84	TSSLS(0.5)S(0.5)DSSNLR	2	-0.5574	0.0	0.0
Mecp2	0.45029	1.01E-11	58.848	AET(0.002)S(0.006)ES(0.084)S(0.450)	4	-1.0763	0.0	0.0
Rasa3	0.485752	6.52E-12	58.349	TNNPQFDEVFY(0.178)FEVT(0.148)	4	1.0068	0.0	0.0
Myo5a	0.380757	3.72E-92	125.97	RT(0.048)DS(0.148)T(0.148)HS(0.2)	4	0.58955	0.0	0.0
Myo5a	0.471496	1.96E-47	142.23	RT(0.471)S(0.471)S(0.057)IADEGT	3	3.387	0.0	0.0
Syt6	0.489622	2.53E-22	85.937	IS(0.021)HT(0.49)S(0.49)PDIPAEV(0.021)	4	0.37704	0.0	0.0
Syt6	0.496317	2.45E-07	44.564	QMHVS(0.496)S(0.496)VDY(0.007)	4	0.13057	0.0	0.0
Acaca	0.469249	1.22E-42	78.552	EGS(0.029)LS(0.469)PAS(0.142)VS	4	-1.1353	0.0	0.0
Acaca	0.311016	3.46E-11	43.04	IFDEVMGCFCD(0.311)PPQS(0.311)	4	-0.19046	0.0	0.0
Acaca	0.311016	3.46E-11	43.04	IFDEVMGCFCD(0.311)PPQS(0.311)	4	-0.19046	0.0	0.0
LOC100911	0.332254	1.44E-11	54.521	IDVES(0.001)T(0.002)ELAS(0.332)	5	0.11954	0.0	0.0
LOC690151	0.393261	2.27E-10	48.5	GAPAS(0.024)S(0.081)S(0.393)T(0.024)	4	2.0235	0.0	0.0
Pag1	0.249973	9.43E-24	69.071	HSTNAESILGT(0.25)S(0.25)S(0.25)	4	4.3687	0.0	0.0
Pag1	0.249973	9.43E-24	69.071	HSTNAESILGT(0.25)S(0.25)S(0.25)	4	4.3687	0.0	0.0
Pag1	0.387304	1.86E-10	87.647	S(0.301)S(0.301)S(0.387)S(0.011)	3	-0.19703	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	460
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	203
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	262
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	263
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	392
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	393
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	463
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	467
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	416
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	421
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	425
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	73
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	74
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	75
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	167
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	207
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1624
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	49
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1258
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1262
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	492
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	246
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	247
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345

Basp1	0.499384	2.72E-06	68.413	ETPAAS(0.001)EAPS(0.499)S(0.499)	3	-1.6592	0.0	0.0
Basp1	0.499384	2.72E-06	68.413	ETPAAS(0.001)EAPS(0.499)S(0.499)	3	-1.6592	0.0	0.0
Pmpcb	0.499832	1.29E-10	51.595	S(0.5)T(0.5)QAAPQVVLNVPETQVT	3	0.28558	0.0	0.0
Plcb1	0.497211	0.000935579	45.28	S(0.005)FEMS(0.497)S(0.497)FVET	3	0.15114	0.0	0.0
Plcb1	0.497211	0.000935579	45.28	S(0.005)FEMS(0.497)S(0.497)FVET	3	0.15114	0.0	0.0
Nmnat1	0.499595	2.91E-12	69.379	S(0.001)HPQS(0.5)S(0.5)PVLERPGI	3	-0.60699	0.0	0.0
Cdc42ep1	0.471478	1.65E-07	43.306	ELAGVLPQVHGS(0.471)WES(0.471)	4	0.46205	0.0	0.0
Prkcz	0.44031	7.48E-43	88.708	EGLGPGDT(0.022)T(0.096)S(0.44)	3	-1.428	0.0	0.0
Dap	0.333006	5.87E-07	42.791	DKDDQEWES(0.333)T(0.333)S(0.333)	4	0.53241	0.0	0.0
Araf	0.316507	2.57E-45	80.136	S(0.317)T(0.317)S(0.284)T(0.083)F	4	-1.9361	0.0	0.0
Araf	0.422316	2.30E-11	44.389	S(0.203)T(0.203)S(0.422)T(0.169)F	3	-1.541	0.0	0.0
Plip	0.345384	3.90E-05	47.037	GVGSNAAT(0.017)S(0.345)QMAGI	2	0.77907	0.0	0.0
Plip	0.464575	9.66E-15	51.576	T(0.007)S(0.008)S(0.055)PAQGVG	3	-0.58076	0.0	0.0
Plip	0.464575	7.50E-25	69.581	T(0.007)S(0.008)S(0.055)PAQGVG	3	-0.58076	0.0	0.0
Tep1	0.472286	9.76E-17	106.58	T(0.055)VS(0.472)S(0.472)GPLLQC	3	-0.16231	0.0	0.0
Tep1	0.472286	9.76E-17	106.58	T(0.055)VS(0.472)S(0.472)GPLLQC	3	-0.16231	0.0	0.0
Akap6	0.485108	1.42E-08	59.728	DCFNYNEDS(0.485)PT(0.485)QPT(	3	1.2027	0.0	0.0
Akap6	0.424093	2.11E-19	62.589	EGDDVSHT(0.003)S(0.038)QGCAE	3	1.7061	0.0	0.0
Akap6	0.457233	7.91E-16	59.893	LCLVLQS(0.014)S(0.014)Y(0.013)P	5	-0.30349	0.0	0.0
Akap6	0.454968	4.65E-05	54.09	QDS(0.014)T(0.076)S(0.455)S(0.455)	3	-1.0356	0.0	0.0
Akap6	0.454968	4.65E-05	54.09	QDS(0.014)T(0.076)S(0.455)S(0.455)	3	-1.0356	0.0	0.0
Akap6	0.497882	1.09E-13	66.826	SESTGSS(0.004)AGPS(0.498)MVS(	4	-0.24481	0.0	0.0
Synrg	0.439864	5.61E-15	68.639	SQENT(0.001)CPS(0.081)PAS(0.44)	3	-0.18046	0.0	0.0
Synrg	0.439864	5.61E-15	68.639	SQENT(0.001)CPS(0.081)PAS(0.44)	3	-0.18046	0.0	0.0
Rab3ip	0.418141	3.81E-111	171.3	NKS(0.241)T(0.241)S(0.066)S(0.41)	4	0.8528	0.0	0.0
Rab3ip	0.477905	1.19E-87	141.21	NKS(0.124)T(0.032)S(0.032)S(0.032)	3	0.043089	0.0	0.0
Rab3ip	0.424483	2.03E-31	85.563	TLVLS(0.001)S(0.002)S(0.024)PT(0	2	-0.72062	0.0	0.0
Aup1	0.407862	3.94E-23	66.972	LRPQSVQS(0.001)S(0.002)FPS(0.41)	4	-1.1968	0.0	0.0
Aup1	0.417826	5.64E-31	71.418	LRPQSVQSS(0.001)FPS(0.032)PPS(	5	-0.76177	0.0	0.0
Aup1	0.417826	5.64E-31	71.418	LRPQSVQSS(0.001)FPS(0.032)PPS(	5	-0.76177	0.0	0.0
Heatr6	0.369863	2.94E-12	62.94	ALPAGPSLEEAS(0.26)LS(0.37)S(0.37)	4	-0.15196	0.0	0.0
Heatr6	0.451174	4.16E-22	88.565	S(0.451)S(0.451)S(0.082)S(0.016)F	3	1.1667	0.0	0.0
Heatr6	0.451174	4.16E-22	88.565	S(0.451)S(0.451)S(0.082)S(0.016)F	3	1.1667	0.0	0.0
Snap23	0.499546	1.29E-07	59.728	AHQVTDES(0.001)LES(0.5)T(0.5)RI	3	-0.64238	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	188
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	189
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	44
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	568
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	569
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	226
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	49
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	212
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	24
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	123
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	383
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2235
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	454
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	351
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	530
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1024
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1025
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	248
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	287
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	292
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	713
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	684
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	685
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	23

Taok2	0.435899	6.74E-06	52.862	ILGEEMGT(0.01)FS(0.277)S(0.277)	3	3.2359	0.0	0.0
Myo1c	0.444686	0.000314894	40.432	DGIIDFT(0.105)S(0.445)GS(0.445)I	3	1.7667	0.0	0.0
Zfp639	0.499596	0.00246614	97.734	ANS(0.5)S(0.5)GLY(0.001)K	2	0.57982	0.0	0.0
Zfp639	0.499596	0.00246614	97.734	ANS(0.5)S(0.5)GLY(0.001)K	2	0.57982	0.0	0.0
Rims3	0.340249	3.23E-15	55.532	QGS(0.269)RES(0.34)T(0.34)DGS(C	4	1.0871	0.0	0.0
Rims3	0.494419	8.74E-17	69.747	RLS(0.968)QS(0.494)S(0.491)LES(C	2	0.33787	0.0	0.0
Rims3	0.491383	8.74E-17	69.747	RLS(0.968)QS(0.494)S(0.491)LES(C	2	0.33787	0.0	0.0
Rims3	0.322639	2.66E-53	94.275	S(0.323)S(0.323)S(0.283)IS(0.071)	4	-0.024073	0.0	0.0
Rims3	0.322639	2.66E-53	94.275	S(0.323)S(0.323)S(0.283)IS(0.071)	4	-0.024073	0.0	0.0
Rims3	0.313288	2.66E-53	94.275	S(0.313)S(0.313)S(0.313)IS(0.06)G	3	0.46614	0.0	0.0
Pdzd2	0.430808	0.00252002	40.968	APHANS(0.126)GS(0.431)AS(0.431	2	0.56624	0.0	0.0
Pdzd2	0.470523	5.13E-106	144.2	S(0.072)S(0.072)S(0.386)PS(0.471	3	0.43969	0.0	0.0
Abi1	0.422059	1.55E-18	49.23	ENSGSSS(0.001)IGIPIAVPT(0.422)F	4	-1.3319	0.0	0.0
Dpysl5	0.44862	4.99E-21	76.492	DLHES(0.082)S(0.449)FS(0.449)LSI	4	-0.070103	0.0	0.0
Wdr7	0.343764	2.99E-07	45.558	S(0.312)S(0.344)S(0.344)QIPEGFG	3	0.0010127	0.0	0.0
Senp2	0.297072	1.79E-06	50.226	S(0.222)S(0.222)S(0.257)S(0.297)I	3	1.5481	0.0	0.0
Prkaa2	0.320424	4.79E-20	60.459	IADFGLS(0.002)NMMS(0.32)DGEF	4	0.18915	0.0	0.0
Prkaa2	0.246409	3.14E-14	48.798	IADFGLS(0.002)NMMS(0.246)DGE	4	-0.037263	0.0	0.0
Ddt	0.468873	0.0034575	57.55	S(0.049)HS(0.469)S(0.469)S(0.014	3	0.34873	0.0	0.0
Ddt	0.468873	0.0034575	57.55	S(0.049)HS(0.469)S(0.469)S(0.014	3	0.34873	0.0	0.0
Dctn1	0.332918	1.67E-42	88.573	QSQIQVFEDGADT(0.333)T(0.333)S	3	1.1367	0.0	0.0
Hivep2	0.489403	1.34E-08	60.764	ELS(0.021)LS(0.489)T(0.489)EEGN	3	1.2243	0.0	0.0
Stmn3	0.338044	1.20E-38	78.531	ASGQSFEVILKS(0.338)PS(0.338)DL	4	-0.18108	0.0	0.0
Stmn3	0.338044	1.20E-38	78.531	ASGQSFEVILKS(0.338)PS(0.338)DL	4	-0.18108	0.0	0.0
Hspa8	0.25872	1.13E-09	52.814	GPAVGIDLGT(0.259)T(0.259)Y(0.2	4	-1.5663	0.0	0.0
Fstl1	0.499699	3.07E-22	88.561	SFDNGDS(0.001)HLDS(0.5)S(0.5)E	4	0.56939	0.0	0.0
Slk	0.426229	2.78E-16	61.186	ATTEEPETDEVDQVS(0.426)ES(0.42	3	1.2523	0.0	0.0
Slk	0.426229	2.78E-16	61.186	ATTEEPETDEVDQVS(0.426)ES(0.42	3	1.2523	0.0	0.0
Trim35	0.462716	3.41E-10	46.412	AAASVVT(0.003)AAAPAMEPGPS(C	3	-0.5436	0.0	0.0
Trim35	0.466678	2.38E-16	61.112	AAASVVTAAAPAMEPGPS(0.408)V:	4	-1.4425	0.0	0.0
Stxbp5	0.437551	3.46E-23	68.434	RPVS(0.438)VS(0.365)PS(0.129)S(I	4	-0.13716	0.0	0.0
Marcks1	0.366095	6.43E-15	52.143	EGGGDS(0.001)S(0.002)AS(0.015)	4	0.20265	0.0	0.0
Marcks1	0.366095	6.43E-15	52.143	EGGGDS(0.001)S(0.002)AS(0.015)	4	0.20265	0.0	0.0
Marcks1	0.166667	1.12E-09	44.721	GGDAEEEAGPQAAEPS(0.167)T(0.1	4	1.1449	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	827
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1020
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	157
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	107
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	296
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	21
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1949
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	643
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	267
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	534
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1151
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	83;184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	86;187
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	78
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	79
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2422
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	60
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	62
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	164
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	569
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	571
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	865;848
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	132
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	135
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182



Marcksl1	0.245676	5.71E-12	46.902	GGDAEEEAGPQAAEPS(0.086)T(0.2	3	1.2739	0.0	0.0
Marcksl1	0.245676	5.71E-12	46.902	GGDAEEEAGPQAAEPS(0.086)T(0.2	3	1.2739	0.0	0.0
Marcksl1	0.166667	1.12E-09	44.721	GGDAEEEAGPQAAEPS(0.167)T(0.1	4	1.1449	0.0	0.0
Marcksl1	0.166667	1.12E-09	44.721	GGDAEEEAGPQAAEPS(0.167)T(0.1	4	1.1449	0.0	0.0
Parva	0.459443	0.000961708	47.774	S(0.279)PS(0.459)VPKS(0.086)PT(	3	0.41319	0.0	0.0
Creb1	0.4994	3.63E-39	77.51	TAPTSTIAPGVVMAS(0.499)S(0.499	3	-0.21935	0.0	0.0
Creb1	0.4994	3.63E-39	77.51	TAPTSTIAPGVVMAS(0.499)S(0.499	3	-0.21935	0.0	0.0
Atf2	0.165644	3.73E-42	77.026	AQSEESRPQSLQQPAT(0.166)S(0.1	6	-1.2648	0.0	0.0
Atf2	0.165644	3.73E-42	77.026	AQSEESRPQSLQQPAT(0.166)S(0.1	6	-1.2648	0.0	0.0
Dbn1	0.477072	5.55E-05	40.779	ASDSGPS(0.002)S(0.008)S(0.008)S	3	0.13438	0.0	0.0
Dbn1	0.477452	8.01E-32	76.161	EGTQQASEGY(0.034)FS(0.477)QS(	3	-0.019912	0.0	0.0
Lum	0.471035	6.65E-06	42.123	LDGNPLT(0.056)QS(0.471)S(0.471	3	1.443	0.0	0.0
Lum	0.471035	6.65E-06	42.123	LDGNPLT(0.056)QS(0.471)S(0.471	3	1.443	0.0	0.0
Pdpk1	0.443154	5.87E-05	44.662	S(0.012)QT(0.009)EPS(0.092)S(0.4	3	0.061703	0.0	0.0
Pard3	0.498299	2.84E-33	78.319	RS(0.498)S(0.498)DPALT(0.003)GL	4	0.004622	0.0	0.0
Pard3	0.455692	0.000392024	44.44	S(0.13)S(0.13)LS(0.284)AS(0.456)F	3	0.30609	0.0	0.0
Akt3	0.475426	1.95E-10	49.087	MNCS(0.475)PT(0.475)S(0.049)QII	4	0.22298	0.0	0.0
Zfp148	0.455158	4.67E-22	92.939	GGLLTSEEDS(0.001)GFS(0.455)T(0	3	0.35726	0.0	0.0
Syt4	0.316307	3.65E-10	82.529	AGS(0.316)S(0.316)S(0.316)DLEN\	3	-0.39222	0.0	0.0
Syt4	0.316307	3.65E-10	82.529	AGS(0.316)S(0.316)S(0.316)DLEN\	3	-0.39222	0.0	0.0
Syt4	0.316307	3.65E-10	82.529	AGS(0.316)S(0.316)S(0.316)DLEN\	3	-0.39222	0.0	0.0
Adrm1	0.243781	0.000152834	47.499	S(0.005)QS(0.244)AAVT(0.149)PS(	2	1.6572	0.0	0.0
Arl2	0.483607	1.86E-05	42.633	KFNGEDVDT(0.033)IS(0.484)PT(0.	4	-0.26196	0.0	0.0
Bcam	0.473272	9.72E-92	123.51	EPELS(0.473)HS(0.393)GS(0.134)E	4	-0.19206	0.0	0.0
Nefl	0.294624	3.47E-06	42.348	LSFT(0.001)S(0.002)VGS(0.027)IT(	3	4.3411	0.0	0.0
Nefl	0.4424	7.55E-23	78.098	LSFTSVGS(0.002)IT(0.032)S(0.033)	3	1.7401	0.0	0.0
Nefl	0.397059	6.23E-101	134.91	S(0.002)YS(0.012)S(0.067)S(0.397	2	-1.0986	0.0	0.0
Apba1	0.380608	9.87E-07	40.086	LHHY(0.114)DERS(0.381)DGES(0.3	4	-0.082373	0.0	0.0
Apba1	0.248928	2.89E-11	53.197	S(0.249)AS(0.249)T(0.249)ES(0.24	4	0.17752	0.0	0.0
Gabbr2	0.485619	3.29E-20	74.222	KEDS(0.486)KT(0.128)S(0.128)T(0.	4	1.5431	0.0	0.0
Git1	0.372138	1.28E-15	64.589	S(0.245)MDS(0.372)S(0.372)DLS(C	3	0.097281	0.0	0.0
Git1	0.492547	5.17E-84	134.03	GVS(0.493)AS(0.493)S(0.014)VT(0	3	-0.48131	0.0	0.0
Git1	0.491747	8.25E-64	114.37	GVSASSVTFT(0.016)PS(0.492)S(0.4	4	-0.070811	0.0	0.0
Git1	0.492406	4.20E-37	145.33	S(0.006)LS(0.492)S(0.492)PT(0.00	2	0.19503	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	185
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	189
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	193
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	195
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	10
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	172
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	173
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	303
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	341;341
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	657
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	320
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	37
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	143;143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	225;225
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	304
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	213
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	45
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	592
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	414
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	249
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	81
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	770
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	572
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	579
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	370

Rbbp7	0.499436	6.36E-12	50.413	VHIPNDDAQFDAS(0.499)HCDS(0.4	5	0.41102	0.0	0.0
Rbbp7	0.499436	6.36E-12	50.413	VHIPNDDAQFDAS(0.499)HCDS(0.4	5	0.41102	0.0	0.0
Fat1	0.298301	2.65E-11	51.321	VQVLDT(0.001)NDLRPLFS(0.027)P	4	1.4858	0.0	0.0
Dvl1	0.240109	1.78E-19	62.696	T(0.24)S(0.24)S(0.21)S(0.24)S(0.0	4	0.015239	0.0	0.0
Dvl1	0.240109	1.78E-19	62.696	T(0.24)S(0.24)S(0.21)S(0.24)S(0.0	4	0.015239	0.0	0.0
Wfs1	0.479361	0.00447027	106.68	LVS(0.479)S(0.479)ES(0.041)K	2	-1.0436	0.0	0.0
Wfs1	0.479361	0.00447027	106.68	LVS(0.479)S(0.479)ES(0.041)K	2	-1.0436	0.0	0.0
Rtn4	0.447045	6.85E-42	114.46	DEVHVSDEFS(0.096)ENRS(0.447)S	4	-0.37273	0.0	0.0
Rtn4	0.447045	6.85E-42	114.46	DEVHVSDEFS(0.096)ENRS(0.447)S	4	-0.37273	0.0	0.0
Rtn4	0.437341	1.04E-22	76.301	DLAEFSELEY(0.017)S(0.09)EMGS(C	3	0.065582	0.0	0.0
Rtn4	0.198299	4.04E-08	45.941	EHGY(0.001)LGNLS(0.198)AVS(0.1	3	2.1125	0.0	0.0
Rtn4	0.24731	3.42E-49	92.147	EHGYLGNS(0.001)AVS(0.247)S(0.	3	-0.11263	0.0	0.0
Rtn4	0.24731	3.42E-49	92.147	EHGYLGNS(0.001)AVS(0.247)S(0.	3	-0.11263	0.0	0.0
Rtn4	0.24731	3.42E-49	92.147	EHGYLGNS(0.001)AVS(0.247)S(0.	3	-0.11263	0.0	0.0
Rtn4	0.457824	1.32E-10	50.493	ES(0.001)ET(0.006)FS(0.045)DS(0.	4	0.29481	0.0	0.0
Rtn4	0.457824	1.32E-10	50.493	ES(0.001)ET(0.006)FS(0.045)DS(0.	4	0.29481	0.0	0.0
Rtn4	0.493114	7.71E-08	45.983	MEDIDQS(0.007)S(0.007)LVS(0.02	4	0.66098	0.0	0.0
Rtn4	0.499582	4.83E-10	49.623	T(0.5)S(0.5)NPFLVAVQDSEADYVTI	3	0.33694	0.0	0.0
Slc24a2	0.441024	1.65E-15	104.21	GGG(0.441)S(0.441)AS(0.116)LHN:	2	-0.75357	0.0	0.0
Src	0.483822	1.08E-08	60.937	LFGGFNS(0.484)S(0.484)DT(0.03)\	3	1.4619	0.0	0.0
Src	0.483822	1.08E-08	60.937	LFGGFNS(0.484)S(0.484)DT(0.03)\	3	1.4619	0.0	0.0
Nsfl1c	0.443845	3.29E-63	113.36	LGSTAPQVLNT(0.112)S(0.444)S(0.	3	0.64033	0.0	0.0
Nsfl1c	0.443845	3.29E-63	113.36	LGSTAPQVLNT(0.112)S(0.444)S(0.	3	0.64033	0.0	0.0
Grip1	0.481809	1.50E-22	65.244	KLPIPS(0.036)HS(0.482)S(0.482)DI	6	-0.51725	0.0	0.0
Gsk3b	0.333214	1.24E-21	72.935	T(0.333)T(0.333)S(0.333)FAESCKP	5	-0.48122	0.0	0.0
Gsk3b	0.333214	1.24E-21	72.935	T(0.333)T(0.333)S(0.333)FAESCKP	5	-0.48122	0.0	0.0
Kcnd3	0.490065	0.000338438	52.891	T(0.096)GS(0.49)S(0.394)NAY(0.0:	3	-0.16396	0.0	0.0
Ccdc92	0.497908	2.15E-05	50.392	S(0.498)LS(0.498)APLHPEFEEVY(0.	3	-0.55294	0.0	0.0
Ccdc92	0.432181	1.35E-30	69.492	LLS(0.102)S(0.432)S(0.432)GT(0.0:	4	1.1765	0.0	0.0
Ccdc92	0.432181	1.35E-30	69.492	LLS(0.102)S(0.432)S(0.432)GT(0.0:	4	1.1765	0.0	0.0
Lsr	0.427843	8.78E-16	59.048	S(0.011)VDALDDINRPGS(0.428)T((	5	-1.13	0.0	0.0
Lsr	0.494936	1.67E-47	85.337	SVDALDDINRPGS(0.004)T(0.004)E	4	-0.9088	0.0	0.0
Lsr	0.494936	1.67E-47	85.337	SVDALDDINRPGS(0.004)T(0.004)E	4	-0.9088	0.0	0.0
Pi4kb	0.434267	7.83E-05	42.123	ELPTLSPAPDT(0.131)GLS(0.434)PS	3	0.85333	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	95
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	99
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	289
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	291
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	236
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	237
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	914
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	915
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	244
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	247
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	248
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	249
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	836
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	837
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	492
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	334
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	69
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	272
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	772
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	7
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	8
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	437
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	192
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	155
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	380
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	386
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	387
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	268;268

Vim	0.465565	4.01E-05	51.395	MFGGS(0.011)GT(0.466)S(0.466)S	3	0.26925	0.0	0.0
Vim	0.405347	2.45E-32	135.57	S(0.13)LYS(0.059)S(0.405)S(0.405)	2	-0.15116	0.0	0.0
Vim	0.451978	0.00210998	96.113	S(0.452)YVT(0.226)T(0.017)S(0.01	2	2.3617	0.0	0.0
Vim	0.416825	0.000496271	46.069	TYSLGS(0.001)ALRPS(0.291)T(0.29	2	1.0403	0.0	0.0
Spp1	0.488477	5.78E-09	75.589	ISHELES(0.488)S(0.488)S(0.014)S(	2	-1.0477	0.0	0.0
Spp1	0.341264	1.03E-05	52.769	FRIS(0.967)HELES(0.127)S(0.338)S	3	-0.21669	0.0	0.0
Spp1	0.497389	3.49E-73	141.36	T(0.002)S(0.002)HES(0.497)S(0.49	3	-0.47814	0.0	0.0
Tubb3	0.430974	9.10E-06	62.466	IS(0.127)VY(0.026)Y(0.158)NEAS(C	3	-1.1615	0.0	0.0
Nfic	0.419837	0.000507235	49.189	T(0.002)LPS(0.005)T(0.021)S(0.42	3	1.2073	0.0	0.0
Chrna3	0.327958	9.00E-39	90.084	S(0.328)S(0.328)S(0.328)S(0.016)E	3	0.84054	0.0	0.0
Chrna3	0.327958	9.00E-39	90.084	S(0.328)S(0.328)S(0.328)S(0.016)E	3	0.84054	0.0	0.0
Psen2	0.332194	0.000850017	70.197	TSLMS(0.003)AES(0.332)PT(0.332)	2	1.6631	0.0	0.0
Rxra	0.431442	9.42E-12	52.721	TETYVEANMGLNPS(0.431)S(0.431	4	3.6551	0.0	0.0
Rxra	0.431442	9.42E-12	52.721	TETYVEANMGLNPS(0.431)S(0.431	4	3.6551	0.0	0.0
Cds1	0.332895	4.99E-63	112.53	EGEAAGGDHET(0.001)ES(0.333)T(	3	0.33912	0.0	0.0
Cds1	0.463312	2.60E-88	143.32	EGEAAGGDHET(0.002)ES(0.067)T(	4	0.18882	0.0	0.0
Ptk2b	0.457886	8.12E-15	54.582	SHLS(0.003)ES(0.038)CS(0.458)IES	3	-0.89573	0.0	0.0
Ptk2b	0.457886	8.12E-15	54.582	SHLS(0.003)ES(0.038)CS(0.458)IES	3	-0.89573	0.0	0.0
Hnrnpu	0.49942	2.34E-41	112.44	S(0.499)S(0.499)GPT(0.001)SLFAV	3	0.54068	0.0	0.0
Hnrnpu	0.49942	2.34E-41	112.44	S(0.499)S(0.499)GPT(0.001)SLFAV	3	0.54068	0.0	0.0
Rprd1b	0.482372	0.00125156	42.976	LS(0.482)MEDS(0.482)KS(0.035)PI	3	0.53947	0.0	0.0
Fam160a2	0.366617	3.11E-08	49.188	DGTGLGLGGGS(0.267)PGAS(0.367	2	-0.33059	0.0	0.0
Fam160a2	0.353078	5.72E-07	43.501	EDITGPGS(0.001)PS(0.007)VDS(0.1	3	-1.9307	0.0	0.0
Nfib	0.49645	8.69E-09	55.128	KPEKPLFSST(0.003)S(0.003)PQDS(	4	0.91322	0.0	0.0
Nfib	0.498229	1.02E-05	103.91	S(0.004)LS(0.498)S(0.498)PPSSK	3	-0.11785	0.0	0.0
Nfib	0.478877	4.18E-07	40.745	TISIDENMEPS(0.102)PT(0.102)GDI	3	0.2054	0.0	0.0
Asap1	0.15466	2.78E-09	45.137	LSYGAF(0.001)NQIFVS(0.155)T(0	4	0.40221	0.0	0.0
Asap1	0.15466	2.78E-09	45.137	LSYGAF(0.001)NQIFVS(0.155)T(0	4	0.40221	0.0	0.0
Asap1	0.15466	2.78E-09	45.137	LSYGAF(0.001)NQIFVS(0.155)T(0	4	0.40221	0.0	0.0
Asap1	0.460018	2.51E-06	47.991	SPRPQSFC(0.063)S(0.46)S(0.30	4	-0.46471	0.0	0.0
Kctd8	0.205478	2.06E-09	51.524	HSTLLS(0.001)VPDS(0.205)T(0.20	4	0.082913	0.0	0.0
Kctd8	0.205478	2.06E-09	51.524	HSTLLS(0.001)VPDS(0.205)T(0.20	4	0.082913	0.0	0.0
Kctd8	0.463504	2.53E-09	51.301	HSTLLS(0.001)VPDS(0.038)T(0.03	3	1.631	0.0	0.0
RGD13051	0.499204	0.000844696	73.632	QLS(0.499)S(0.499)PCS(0.002)QK	3	-2.0455	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	21
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	29
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	49
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	212
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	56
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	276
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	416
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	417
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	28
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	264
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	37
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	396
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	399
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	128
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	918
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	511
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	332
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	295
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	789
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	791
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	797
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	755
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	68
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	77
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	600

RGD13051	0.349762	1.07E-13	75.682	S(0.35)T(0.35)S(0.295)RDVS(0.006	3	-0.35154	0.0	0.0
RGD13051	0.331477	1.07E-13	75.682	S(0.331)T(0.331)S(0.331)RDVS(0.0	4	-0.055869	0.0	0.0
Mapre2	0.42094	4.86E-05	41.115	S(0.005)S(0.005)PAAKPGS(0.421)T	4	1.451	0.0	0.0
Parp9	0.332067	0.000600812	42.031	Y(0.001)PT(0.003)PAGS(0.332)S(0	3	1.1349	0.0	0.0
Parp9	0.332067	0.000600812	42.031	Y(0.001)PT(0.003)PAGS(0.332)S(0	3	1.1349	0.0	0.0
Parp9	0.332067	0.000600812	42.031	Y(0.001)PT(0.003)PAGS(0.332)S(0	3	1.1349	0.0	0.0
Mrvi1	0.467058	9.29E-14	73.928	GVS(0.066)WDS(0.467)S(0.467)PE	2	0.27881	0.0	0.0
Mrvi1	0.467058	9.29E-14	73.928	GVS(0.066)WDS(0.467)S(0.467)PE	2	0.27881	0.0	0.0
Mrvi1	0.481156	1.64E-12	66.702	S(0.481)S(0.481)IS(0.013)T(0.013)	3	0.54211	0.0	0.0
Mrvi1	0.481156	1.64E-12	66.702	S(0.481)S(0.481)IS(0.013)T(0.013)	3	0.54211	0.0	0.0
Smg6	0.199373	7.13E-31	72.316	GILILPAHT(0.001)ALS(0.199)VS(0.	4	0.88289	0.0	0.0
Smg6	0.199373	7.13E-31	72.316	GILILPAHT(0.001)ALS(0.199)VS(0.	4	0.88289	0.0	0.0
Smg6	0.199373	7.13E-31	72.316	GILILPAHT(0.001)ALS(0.199)VS(0.	4	0.88289	0.0	0.0
Smg6	0.199373	7.13E-31	72.316	GILILPAHT(0.001)ALS(0.199)VS(0.	4	0.88289	0.0	0.0
Ptrf	0.483478	5.61E-17	51.758	MEDVTLHIVERPY(0.007)S(0.007)G	4	0.74752	0.0	0.0
Ptrf	0.483478	5.61E-17	51.758	MEDVTLHIVERPY(0.007)S(0.007)G	4	0.74752	0.0	0.0
Arhgap31	0.270828	5.42E-11	46.847	HNDVPGPDS(0.271)S(0.271)EGS(C	4	0.69037	0.0	0.0
Arhgap31	0.270828	5.42E-11	46.847	HNDVPGPDS(0.271)S(0.271)EGS(C	4	0.69037	0.0	0.0
Arhgap31	0.446152	1.02E-34	70.469	KAS(0.446)T(0.195)T(0.25)S(0.109	5	-0.43499	0.0	0.0
Arhgap31	0.499863	0.00136147	91.313	QS(0.5)HS(0.5)LDSK	2	-0.22063	0.0	0.0
Arhgap31	0.459661	6.50E-07	42.856	T(0.001)T(0.001)GQS(0.002)HWAI	3	0.32294	0.0	0.0
Zbtb20	0.432327	2.81E-09	52.814	HVALHS(0.129)AS(0.432)NGT(0.43	3	-0.46195	0.0	0.0
Zcchc8	0.496562	1.02E-78	101.34	ALEKPVLAEPDTAS(0.007)PEPS(0.4	4	1.4667	0.0	0.0
Zcchc8	0.496562	1.02E-78	101.34	ALEKPVLAEPDTAS(0.007)PEPS(0.4	4	1.4667	0.0	0.0
Rfx1	0.37086	1.72E-12	47.73	AS(0.002)ET(0.003)VS(0.019)EAS(i	4	-0.51255	0.0	0.0
Rfx1	0.162126	4.64E-09	41.551	AS(0.001)ET(0.001)VS(0.007)EAS(i	3	-0.5645	0.0	0.0
Rfx1	0.162126	4.64E-09	41.551	AS(0.001)ET(0.001)VS(0.007)EAS(i	3	-0.5645	0.0	0.0
Rfx1	0.162126	4.64E-09	41.551	AS(0.001)ET(0.001)VS(0.007)EAS(i	3	-0.5645	0.0	0.0
Sox13	0.497822	8.78E-05	48.899	DLIS(0.004)LDS(0.498)S(0.498)PAI	3	-0.060491	0.0	0.0
Sox13	0.497822	8.78E-05	48.899	DLIS(0.004)LDS(0.498)S(0.498)PAI	3	-0.060491	0.0	0.0
Il16	0.499293	0.000258093	52.576	LES(0.499)S(0.499)WHGRPT(0.001	4	-0.32443	0.0	0.0
Il16	0.499293	0.000258093	52.576	LES(0.499)S(0.499)WHGRPT(0.001	4	-0.32443	0.0	0.0
Cacnb4	0.412323	2.18E-24	98.573	ATHT(0.004)S(0.151)S(0.1)S(0.412	3	0.53097	0.0	0.0
Klf3	0.444677	1.45E-18	76.084	RAS(0.992)PGLS(0.034)MPS(0.445	4	0.84024	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	613
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	615
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	68
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	69
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	343
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	676
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	677
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	471
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	473
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	474
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	475
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	21
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1057
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1058
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	942
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	964
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	614
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	376
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	377
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	478
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	360
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	98

Kctd18	0.332826	1.68E-19	56.22	AAQCSVATGAS(0.001)GHAPAS(0.001)	4	0.41913	0.0	0.0
Kctd18	0.332826	1.68E-19	56.22	AAQCSVATGAS(0.001)GHAPAS(0.001)	4	0.41913	0.0	0.0
Uhrf1bp1l	0.417054	2.68E-08	116.13	T(0.006)PS(0.16)VS(0.417)S(0.417)	2	-0.014645	0.0	0.0
Uhrf1bp1l	0.417054	2.68E-08	116.13	T(0.006)PS(0.16)VS(0.417)S(0.417)	2	-0.014645	0.0	0.0
Lpin2	0.480307	7.31E-06	46.892	LPAY(0.005)LAT(0.48)S(0.48)PIPT(	3	0.048775	0.0	0.0
Lpin2	0.496322	3.96E-16	91.62	S(0.006)DS(0.002)ELEVKPS(0.496)	3	-2.1856	0.0	0.0
Lpin2	0.496322	3.96E-16	91.62	S(0.006)DS(0.002)ELEVKPS(0.496)	3	-2.1856	0.0	0.0
Myoz2	0.466452	3.99E-15	57.068	IDGSNLEGGGS(0.05)QQAPS(0.466)T	3	0.25728	0.0	0.0
Pnn	0.437104	6.44E-54	101.43	QES(0.23)DPEDDDVKKPALQS(0.43	5	-0.59348	0.0	0.0
Larp4b	0.423968	3.60E-05	44.391	EAHS(0.002)VDRLPS(0.424)T(0.42	3	0.17464	0.0	0.0
Usp31	0.399487	2.15E-07	49.298	ASVT(0.001)S(0.001)T(0.005)S(0.0	3	-0.19214	0.0	0.0
Usp31	0.230933	5.28E-07	42.863	GRPALASQES(0.001)S(0.003)LS(0.0	5	1.129	0.0	0.0
Usp31	0.230933	5.28E-07	42.863	GRPALASQES(0.001)S(0.003)LS(0.0	5	1.129	0.0	0.0
Usp31	0.230933	5.28E-07	42.863	GRPALASQES(0.001)S(0.003)LS(0.0	5	1.129	0.0	0.0
Usp31	0.230933	5.28E-07	42.863	GRPALASQES(0.001)S(0.003)LS(0.0	5	1.129	0.0	0.0
Tjap1	0.282741	5.81E-09	53.998	S(0.219)PS(0.249)S(0.249)S(0.283	3	0.15101	0.0	0.0
Clcn6	0.499473	3.38E-63	111.64	ES(0.499)RT(0.499)PEELT(0.001)IL	4	-0.68063	0.0	0.0
Camk1d	0.49655	3.85E-23	68.368	GDVMS(0.497)T(0.497)ACGT(0.00	6	-1.1281	0.0	0.0
Ctnna2	0.447125	8.99E-53	124.19	S(0.447)RT(0.447)S(0.098)VQT(0.0	4	-0.0026117	0.0	0.0
Tmem51	0.309484	2.09E-10	49.662	LS(0.001)IS(0.007)LPS(0.309)Y(0.2	3	0.49245	0.0	0.0
Tmem51	0.309484	2.09E-10	49.662	LS(0.001)IS(0.007)LPS(0.309)Y(0.2	3	0.49245	0.0	0.0
Hecw1	0.431534	1.35E-15	59.352	S(0.284)RPCS(0.284)LPVS(0.432)E	3	-0.54086	0.0	0.0
Fam168a	0.486686	3.05E-31	73.676	VPPT(0.001)QS(0.049)NT(0.038)A	4	-0.013006	0.0	0.0
LOC100901	0.499897	1.52E-09	52.451	ASEQETVKEEDGS(0.5)VELES(0.5)Q	4	-1.1747	0.0	0.0
LOC100901	0.499897	1.52E-09	52.451	ASEQETVKEEDGS(0.5)VELES(0.5)Q	4	-1.1747	0.0	0.0
LOC100901	0.485864	7.35E-36	102.29	DS(0.024)S(0.486)ES(0.486)QLAS(i	3	-0.091433	0.0	0.0
Nck2	0.466771	2.73E-11	56.081	DAS(0.002)PT(0.033)PS(0.467)T(0	3	-2.566	0.0	0.0
Zfp532	0.483894	6.74E-06	52.862	GS(0.021)PS(0.484)S(0.484)PVGS(	3	1.2254	0.0	0.0
Zfp532	0.483894	6.74E-06	52.862	GS(0.021)PS(0.484)S(0.484)PVGS(	3	1.2254	0.0	0.0
Zfp532	0.457447	0.00240966	41.227	GS(0.001)PS(0.02)S(0.065)PVGS(0	2	0.97684	0.0	0.0
C2cd4c	0.33673	7.03E-09	56.748	HGSLs(0.001)ADDS(0.306)T(0.306	3	0.13556	0.0	0.0
Pik3c2a	0.307459	2.00E-05	42.908	S(0.21)T(0.21)GT(0.27)S(0.307)PF	3	0.5053	0.0	0.0
Ube2j1	0.48858	0.000444501	42.785	QIS(0.413)FKAEVNS(0.489)S(0.098	4	1.3111	0.0	0.0
Ccp110	0.333315	2.79E-06	40.492	S(0.333)S(0.333)S(0.333)ACQILIN	4	1.4893	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	337
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	445
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	446
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	144
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	292
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	27
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	626
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	915
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	791
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	793
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	795
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	796
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	171
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	23
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	651;654
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	159
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	532
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	34
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	69
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	94
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	348
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	349
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	273
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1551
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	191
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	382

Ccp110	0.333315	2.79E-06	40.492	S(0.333)S(0.333)S(0.333)ACQILIN	4	1.4893	0.0	0.0
Ccp110	0.454101	6.84E-46	100.7	S(0.273)S(0.273)S(0.454)ACQILIN	3	1.8032	0.0	0.0
Jakmip2	0.499804	5.25E-08	59.227	AGDGSEHCS(0.5)S(0.5)PDLRR	4	0.29636	0.0	0.0
Jakmip2	0.499804	5.25E-08	59.227	AGDGSEHCS(0.5)S(0.5)PDLRR	4	0.29636	0.0	0.0
Afap1l1	0.370397	1.75E-24	63.295	SPEYISS(0.001)HNGCS(0.37)PAQSI	4	-0.17513	0.0	0.0
Usp8	0.448186	9.89E-18	71.894	S(0.448)Y(0.002)S(0.448)S(0.101)F	3	2.7693	0.0	0.0
Usp8	0.37028	1.05E-16	56.688	YYHSPTNTVHMY(0.025)PPEMAPSI	7	0.63328	0.0	0.0
Frmd3	0.498571	2.71E-14	85.554	MDVSESLIS(0.01)S(0.499)S(0.492)	2	0.56111	0.0	0.0
Pik3r4	0.324738	8.39E-23	66.613	SESSAGVCVPLS(0.325)T(0.325)S(0	5	0.24841	0.0	0.0
Pik3r4	0.360016	8.39E-23	66.613	SESSAGVCVPLS(0.128)T(0.36)S(0.3	3	0.24046	0.0	0.0
Ppp6r2	0.39658	1.87E-11	40.906	KAPLVAS(0.023)DS(0.141)S(0.397)	6	0.11372	0.0	0.0
Ppp6r2	0.489699	8.28E-17	92.38	NVPGLAT(0.007)PS(0.49)S(0.49)P	3	-0.26382	0.0	0.0
Dcaf10	0.325533	1.50E-14	69.255	RT(0.22)T(0.22)S(0.326)S(0.116)S(	3	0.028333	0.0	0.0
Nek9	0.43362	1.74E-66	105.35	HCDSINSDFGS(0.434)ES(0.434)GG	4	-0.2162	0.0	0.0
Nek9	0.43362	1.74E-66	105.35	HCDSINSDFGS(0.434)ES(0.434)GG	4	-0.2162	0.0	0.0
Nek9	0.390179	3.50E-07	44.341	IGGGGEEEDS(0.01)QQES(0.39)E	3	0.019882	0.0	0.0
Nek9	0.405378	4.56E-05	46.358	S(0.405)S(0.405)T(0.177)VT(0.012	3	0.82388	0.0	0.0
Map3k3	0.489136	1.10E-09	56.131	VKPS(0.489)QS(0.489)AGDINT(0.0	3	0.24786	0.0	0.0
Map3k3	0.489136	1.10E-09	56.131	VKPS(0.489)QS(0.489)AGDINT(0.0	3	0.24786	0.0	0.0
Farp2	0.465528	7.24E-07	44.788	LGGQT(0.001)AIGVS(0.466)T(0.46	4	0.50591	0.0	0.0
Farp2	0.498514	1.47E-22	65.248	QASLST(0.001)AEQGS(0.499)S(0.4	3	-1.1305	0.0	0.0
Farp2	0.498514	1.47E-22	65.248	QASLST(0.001)AEQGS(0.499)S(0.4	3	-1.1305	0.0	0.0
Farp2	0.41185	2.97E-07	58.885	T(0.412)S(0.412)LHT(0.175)LT(0.0	3	-1.5884	0.0	0.0
Farp2	0.443695	1.79E-07	43.493	T(0.444)S(0.444)AS(0.11)LS(0.002	4	0.26162	0.0	0.0
Eif4g3	0.39415	2.27E-07	81.789	T(0.284)S(0.394)S(0.273)PT(0.048	3	-0.73719	0.0	0.0
Eif4g3	0.490983	1.24E-06	52.569	LDFTESEGPCS(0.491)S(0.491)EALS	3	0.33099	0.0	0.0
Eif4g3	0.490983	1.24E-06	52.569	LDFTESEGPCS(0.491)S(0.491)EALS	3	0.33099	0.0	0.0
Sema5a	0.44277	1.36E-59	99.954	YQQQSHDATVIHPVS(0.005)PAALN	6	1.254	0.0	0.0
Sema5a	0.44277	1.36E-59	99.954	YQQQSHDATVIHPVS(0.005)PAALN	6	1.254	0.0	0.0
Ankrd12	0.327605	2.18E-09	62.658	DNS(0.177)PDS(0.21)T(0.21)PS(0.1	3	-0.77329	0.0	0.0
Phf3	0.268322	1.34E-24	64.726	HACNNQGEVS(0.002)APS(0.268)P	4	-1.4327	0.0	0.0
Phf3	0.268322	1.34E-24	64.726	HACNNQGEVS(0.002)APS(0.268)P	4	-1.4327	0.0	0.0
Phf3	0.268322	1.34E-24	64.726	HACNNQGEVS(0.002)APS(0.268)P	4	-1.4327	0.0	0.0
Phf3	0.49679	0.00476322	74.267	T(0.005)S(0.002)S(0.497)S(0.497)F	2	1.4685	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	383
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	277
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	148
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	679
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	654
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	363
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	903
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	905
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	790
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	669
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	287
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	768
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	145
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	147
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	27
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	506
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	507
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	375
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	397
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	304
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1410
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1016
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1017
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	161
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	165
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	167
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	193

Yeats2	0.486722	3.78E-45	79.616	QGSASAGISNPHAIVDKPGQAT(0.4	4	0.34544	0.0	0.0
Stard13	0.497289	2.40E-10	47.195	AS(0.497)RVS(0.497)IY(0.001)DNV	4	0.7398	0.0	0.0
Stard13	0.497289	2.40E-10	47.195	AS(0.497)RVS(0.497)IY(0.001)DNV	4	0.7398	0.0	0.0
Stard13	0.345457	2.07E-10	48.5	VSIYDENVPS(0.003)S(0.003)HLY(0.3	4	0.75737	0.0	0.0
Stard13	0.473047	4.28E-17	58.565	NTASSES(0.004)VLT(0.473)DLS(0.4	4	1.6435	0.0	0.0
Spry3	0.336494	8.18E-11	62.658	KPT(0.014)LS(0.218)S(0.336)PS(0.	4	0.82738	0.0	0.0
Spry3	0.336494	8.18E-11	62.658	KPT(0.014)LS(0.218)S(0.336)PS(0.	4	0.82738	0.0	0.0
RGD13048	0.436956	1.73E-63	111.93	S(0.437)S(0.437)S(0.123)NES(0.00	3	0.38029	0.0	0.0
Speg	0.441511	4.10E-13	65.16	ALPGS(0.002)S(0.031)AQPPAT(0.1	3	-0.095978	0.0	0.0
Caskin2	0.384932	1.51E-05	44.74	IS(0.089)QPS(0.385)ADDPLPS(0.36	2	-1.4371	0.0	0.0
Caskin2	0.460573	0.000264208	82.202	S(0.461)PS(0.461)QES(0.079)IGAR	2	0.31712	0.0	0.0
Caskin2	0.18755	1.36E-18	50.627	TLSEPT(0.002)GPS(0.06)ES(0.188)	6	0.827	0.0	0.0
Caskin2	0.246447	8.51E-20	53.781	TLSEPTGPS(0.001)ES(0.013)PAPS(i	4	-1.2292	0.0	0.0
Caskin2	0.246447	8.51E-20	53.781	TLSEPTGPS(0.001)ES(0.013)PAPS(i	4	-1.2292	0.0	0.0
Amer1	0.499297	0.000660162	40.493	FY(0.001)QGLPWGVS(0.499)S(0.4	3	-0.94359	0.0	0.0
Fam209a	0.468128	0.00689986	48.284	AQS(0.468)IS(0.468)PS(0.064)K	3	1.295	0.0	0.0
Fam209a	0.468128	0.00689986	48.284	AQS(0.468)IS(0.468)PS(0.064)K	3	1.295	0.0	0.0
Mum111	0.484995	0.00565707	47.574	S(0.057)ES(0.111)PS(0.348)DS(0.4	2	-0.14037	0.0	0.0
Rapgef2	0.246091	5.78E-07	43.233	GLYAAAT(0.001)VIS(0.246)S(0.246	3	0.10412	0.0	0.0
Rapgef2	0.246091	5.78E-07	43.233	GLYAAAT(0.001)VIS(0.246)S(0.246	3	0.10412	0.0	0.0
Rapgef2	0.246091	5.78E-07	43.233	GLYAAAT(0.001)VIS(0.246)S(0.246	3	0.10412	0.0	0.0
Rapgef2	0.426428	6.33E-59	106.99	QAEDTISNAS(0.031)S(0.115)QLS(C	3	0.20743	0.0	0.0
Rapgef2	0.426428	6.33E-59	106.99	QAEDTISNAS(0.031)S(0.115)QLS(C	3	0.20743	0.0	0.0
Rapgef2	0.328018	1.17E-06	45.707	S(0.001)S(0.001)IVS(0.009)NS(0.3	3	1.5421	0.0	0.0
Rapgef2	0.328018	1.17E-06	45.707	S(0.001)S(0.001)IVS(0.009)NS(0.3	3	1.5421	0.0	0.0
Rapgef2	0.328018	1.17E-06	45.707	S(0.001)S(0.001)IVS(0.009)NS(0.3	3	1.5421	0.0	0.0
Arhgef28	0.34733	2.24E-66	96.117	S(0.347)S(0.347)S(0.305)LDALVAC	4	0.37699	0.0	0.0
Arhgef28	0.34733	2.24E-66	96.117	S(0.347)S(0.347)S(0.305)LDALVAC	4	0.37699	0.0	0.0
Bcl9l	0.418393	2.28E-07	46.358	SPTLSQVHS(0.001)PLVT(0.29)S(0.2	4	2.1523	0.0	0.0
Heyl	0.499877	3.87E-06	46.249	SIVPILPCS(0.5)S(0.5)PAAPGAGK	3	-1.4038	0.0	0.0
Heyl	0.499877	3.87E-06	46.249	SIVPILPCS(0.5)S(0.5)PAAPGAGK	3	-1.4038	0.0	0.0
Tbc1d9b	0.444105	1.06E-26	113.88	QFS(0.056)T(0.444)S(0.444)S(0.05	3	0.93992	0.0	0.0
Ythdf3	0.471238	2.11E-35	65.357	GTGFNQNGT(0.001)GS(0.002)EM	4	0.3897	0.0	0.0
Pogz	0.496665	1.15E-10	47.73	LVNTLNT(0.005)IPS(0.497)LGQS(0	3	-2.6625	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	511
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	335
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	351
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	73
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	40
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	254
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	696
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	912
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	916
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	923
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	853
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	104
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	106
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	29
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1019;1376
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1020;1377
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1022;1379
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	912;1269
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	913;1270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	955;1312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	956;1313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	959;1316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	476
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	895
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	277
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	385
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	223



Pogz	0.496665	1.15E-10	47.73	LVNTLNT(0.005)IPS(0.497)LGQS(0	3	-2.6625	0.0	0.0
Trim2	0.438613	3.03E-71	97.94	TGNAYLTAELS(0.123)T(0.439)PDG	4	-0.59904	0.0	0.0
Ncbp3	0.469257	0.00825641	54.259	MIS(0.061)T(0.469)PS(0.469)PKK	3	0.8811	0.0	0.0
Tnip1	0.332815	1.08E-32	75.193	ALEEALS(0.001)IQAS(0.333)PS(0.3	3	-0.49349	0.0	0.0
Tnip1	0.332815	1.08E-32	75.193	ALEEALS(0.001)IQAS(0.333)PS(0.3	3	-0.49349	0.0	0.0
Tnip1	0.332815	1.08E-32	75.193	ALEEALS(0.001)IQAS(0.333)PS(0.3	3	-0.49349	0.0	0.0
Otud7b	0.498246	5.28E-07	51.566	KPEPDGGEDQPS(0.498)DS(0.498)I	4	0.60574	0.0	0.0
Otud7b	0.498246	5.28E-07	51.566	KPEPDGGEDQPS(0.498)DS(0.498)I	4	0.60574	0.0	0.0
Myct1	0.471257	0.00626767	42.425	S(0.471)S(0.471)Y(0.054)NHGLS(0	3	-0.29248	0.0	0.0
Myct1	0.471257	0.00626767	42.425	S(0.471)S(0.471)Y(0.054)NHGLS(0	3	-0.29248	0.0	0.0
Flnb	0.382749	3.84E-05	46.065	T(0.383)S(0.383)RAPS(0.164)VAT(	3	0.055616	0.0	0.0
Cul4b	0.368655	7.29E-31	74.516	DS(0.005)AS(0.063)PS(0.369)T(0.3	3	-1.1876	0.0	0.0
Cul4b	0.19681	4.21E-77	114.37	MAEESSSSSSS(0.015)S(0.197)S(0.1	4	0.28939	0.0	0.0
Cul4b	0.19681	4.21E-77	114.37	MAEESSSSSSS(0.015)S(0.197)S(0.1	4	0.28939	0.0	0.0
Cul4b	0.19681	4.21E-77	114.37	MAEESSSSSSS(0.015)S(0.197)S(0.1	4	0.28939	0.0	0.0
Cul4b	0.430314	5.50E-07	43.241	S(0.002)VCPGT(0.043)S(0.04)GFS(	3	1.6083	0.0	0.0
Cul4b	0.430314	5.50E-07	43.241	S(0.002)VCPGT(0.043)S(0.04)GFS(	3	1.6083	0.0	0.0
Irf2bp1	0.308544	5.39E-15	55.453	HWVAPGGPY(0.056)S(0.309)T(0.3	3	0.31585	0.0	0.0
Irf2bp1	0.237343	4.36E-07	43.164	HWVAPGGPY(0.051)S(0.237)T(0.2	4	0.77418	0.0	0.0
Samd4b	0.280187	5.03E-24	64.213	AAFTTPDHAPLS(0.28)PQS(0.28)S(	3	0.53292	0.0	0.0
Samd4b	0.280187	5.03E-24	64.213	AAFTTPDHAPLS(0.28)PQS(0.28)S(	3	0.53292	0.0	0.0
Samd4b	0.280187	5.03E-24	64.213	AAFTTPDHAPLS(0.28)PQS(0.28)S(	3	0.53292	0.0	0.0
LOC10091	0.431505	6.90E-08	58.693	KKS(0.318)PS(0.432)S(0.183)PS(0.	4	1.4164	0.0	0.0
Uri1	0.45082	4.27E-58	106.1	S(0.091)PS(0.451)S(0.451)EET(0.0	3	-0.62071	0.0	0.0
Wwc2	0.431689	1.91E-16	58.349	SPSQPGQS(0.004)GLCGLGVAAT(0	4	1.627	0.0	0.0
Ccdc97	0.487835	5.13E-30	83.435	S(0.282)GS(0.488)PGT(0.23)PAYPI	3	0.26559	0.0	0.0
Zfp295	0.463287	0.00674243	68.786	AS(0.463)PS(0.224)GS(0.313)VK	2	0.58275	0.0	0.0
Zfp295	0.254034	2.82E-31	86.791	S(0.054)FS(0.254)AS(0.254)QS(0.2	3	-0.32141	0.0	0.0
Zfp295	0.254034	2.82E-31	86.791	S(0.054)FS(0.254)AS(0.254)QS(0.2	3	-0.32141	0.0	0.0
Zfp295	0.254034	2.82E-31	86.791	S(0.054)FS(0.254)AS(0.254)QS(0.2	3	-0.32141	0.0	0.0
Hebp2	0.470082	0.000231589	55.314	VFYTAGY(0.06)S(0.47)S(0.47)PFR	2	0.96494	0.0	0.0
Hebp2	0.470082	0.000231589	55.314	VFYTAGY(0.06)S(0.47)S(0.47)PFR	2	0.96494	0.0	0.0
Aff4	0.429631	4.25E-19	71.143	S(0.231)S(0.231)S(0.43)PGKPQAV!	4	1.3339	0.0	0.0
Ofd1	0.315762	8.97E-07	41.047	VTPYVNT(0.005)AT(0.037)EAS(0.3	3	-0.47681	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	227
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	392
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	410
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	393
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	395
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	396
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	678
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	680
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	66
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	67
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2079
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	201
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	202
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	81
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	82
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	413
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	421
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	274
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	275
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	401
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	442
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	347
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	212
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	177
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	413
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	415
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	175
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	553

Ofd1	0.315762	8.97E-07	41.047	VTPYVNT(0.005)AT(0.037)EAS(0.3	3	-0.47681	0.0	0.0
Ofd1	0.315762	8.97E-07	41.047	VTPYVNT(0.005)AT(0.037)EAS(0.3	3	-0.47681	0.0	0.0
Rapgef6	0.485415	1.74E-31	86.557	S(0.085)LS(0.408)QGS(0.485)T(0.0	3	0.97757	0.0	0.0
Fam195b	0.326124	1.16E-18	75.73	S(0.267)PT(0.078)NS(0.326)S(0.32	2	-0.12409	0.0	0.0
Fam195b	0.326124	1.16E-18	75.73	S(0.267)PT(0.078)NS(0.326)S(0.32	2	-0.12409	0.0	0.0
Tlk1	0.498637	0.000198183	50.305	KAES(0.003)QNES(0.499)S(0.499)(	3	-0.55789	0.0	0.0
Tlk1	0.295467	3.06E-20	59.352	SPQNSHS(0.001)HS(0.005)T(0.014	7	0.57168	0.0	0.0
Tlk1	0.295467	3.06E-20	59.352	SPQNSHS(0.001)HS(0.005)T(0.014	7	0.57168	0.0	0.0
Cope	0.457292	2.06E-09	51.524	APPAPGAVS(0.085)GS(0.457)S(0.4	4	1.3737	0.0	0.0
Tpgs1	0.485556	1.36E-18	72.99	T(0.486)S(0.486)VS(0.029)QAVAA	3	0.076363	0.0	0.0
Ssfa2	0.453036	2.30E-24	62.57	QSAVTDPDFGHDGGS(0.034)MS(0	4	-0.58994	0.0	0.0
Ssfa2	0.442144	1.47E-29	82.639	SAQAS(0.442)S(0.442)S(0.115)EKE	5	1.0271	0.0	0.0
Ssfa2	0.493742	4.78E-15	85.493	S(0.01)LS(0.494)VS(0.494)LS(0.00:	3	0.30404	0.0	0.0
Ssfa2	0.493742	4.78E-15	85.493	S(0.01)LS(0.494)VS(0.494)LS(0.00:	3	0.30404	0.0	0.0
Ssfa2	0.482584	0.000413857	84.352	S(0.046)MNS(0.236)T(0.236)GS(0.	2	0.10391	0.0	0.0
Ctnnd1	0.49803	6.19E-33	110.6	S(0.013)QS(0.498)S(0.498)HS(0.98	3	0.26182	0.0	0.0
Rtp4	0.494945	1.56E-13	119.88	S(0.495)PS(0.495)PS(0.01)PSPSPK	2	0.049966	0.0	0.0
Rtp4	0.494945	1.56E-13	119.88	S(0.495)PS(0.495)PS(0.01)PSPSPK	2	0.049966	0.0	0.0
Ssh2	0.298799	2.50E-06	41.911	IPHS(0.009)S(0.299)S(0.299)S(0.29	4	0.012524	0.0	0.0
Ssh2	0.298799	2.50E-06	41.911	IPHS(0.009)S(0.299)S(0.299)S(0.29	4	0.012524	0.0	0.0
Slc43a1	0.493321	1.20E-15	61.03	IKDCVDDPT(0.001)EGT(0.013)LNE	3	2.0072	0.0	0.0
Slc43a1	0.493321	1.20E-15	61.03	IKDCVDDPT(0.001)EGT(0.013)LNE	3	2.0072	0.0	0.0
Chmp7	0.48912	7.93E-08	55.688	LSLSEGLVPS(0.159)S(0.489)KS(0.	4	1.6482	0.0	0.0
Slc12a6	0.420771	4.21E-08	40.849	T(0.001)S(0.001)NPQDVT(0.421)E	5	0.041672	0.0	0.0
Tbc1d17	0.313046	8.93E-11	41.936	KDPS(0.008)GGEPS(0.038)T(0.313	4	0.13491	0.0	0.0
Usp32	0.26912	1.79E-11	58.349	SPSSLS(0.004)ANIT(0.31)S(0.33)S(	4	0.77993	0.0	0.0
Mmgt1	0.249906	8.53E-08	45.735	VLFRPSDATNSSNLDALS(0.25)S(0.2	4	0.9652	0.0	0.0
Mmgt1	0.249906	8.53E-08	45.735	VLFRPSDATNSSNLDALS(0.25)S(0.2	4	0.9652	0.0	0.0
Mmgt1	0.498211	5.49E-94	149.99	VLFRPSDATNSSNLDALSS(0.003)NT	4	-0.0052607	0.0	0.0
Pcif1	0.421965	2.80E-15	56.882	EEASLLS(0.002)HS(0.103)PGT(0.42	4	-1.2059	0.0	0.0
Pcif1	0.189594	2.94E-15	55.128	IEIPVT(0.003)PT(0.048)S(0.19)QS(	5	-0.5209	0.0	0.0
Pcif1	0.189594	2.94E-15	55.128	IEIPVT(0.003)PT(0.048)S(0.19)QS(	5	-0.5209	0.0	0.0
Pcif1	0.306847	6.73E-16	60.133	IEIPVT(0.008)PT(0.094)S(0.094)QS	3	-0.79719	0.0	0.0
Pcif1	0.306847	6.73E-16	60.133	IEIPVT(0.008)PT(0.094)S(0.094)QS	3	-0.79719	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	554
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	557
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1073
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	26
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	100
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	155
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	157
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	13
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	36
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	424
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	440
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	326
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	328
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	157
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	855
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	438
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	440
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	439
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	96
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	75
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1203
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	23
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	140
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	144

Pcif1	0.294895	6.73E-16	60.133	IEIPVTPT(0.006)S(0.021)QS(0.082)	4	-0.66869	0.0	0.0
Gigyf1	0.47836	3.92E-11	66.606	S(0.478)S(0.431)PS(0.09)LSDSYSH	3	-0.44176	0.0	0.0
Gigyf1	0.444744	3.11E-06	46.543	S(0.392)S(0.116)PS(0.445)LS(0.038)	4	0.74869	0.0	0.0
Ncor2	0.49946	0.000137895	47.712	S(0.001)DHPLT(0.499)S(0.499)PGC	3	-1.6622	0.0	0.0
Ncor2	0.47524	2.21E-09	71.98	S(0.475)S(0.096)S(0.429)GPPHETA	3	0.51833	0.0	0.0
Ldb1	0.469532	3.67E-67	130.57	KMS(0.026)GGS(0.47)T(0.47)MS(C	3	0.25527	0.0	0.0
Cpeb1	0.437655	1.64E-39	84.285	S(0.008)S(0.008)S(0.12)PS(0.438)I	3	1.2489	0.0	0.0
Traf6	0.371672	9.86E-07	40.625	LLAQAVHNVNLS(0.106)LRPCDAS(C	4	-0.20332	0.0	0.0
Traf6	0.371672	9.86E-07	40.625	LLAQAVHNVNLS(0.106)LRPCDAS(C	4	-0.20332	0.0	0.0
Sh3pxd2a	0.48811	3.62E-09	56.882	GS(0.466)S(0.488)GDS(0.039)DS(C	3	-0.085209	0.0	0.0
Sh3pxd2a	0.346256	0.00970539	65.278	NS(0.005)S(0.302)FS(0.346)T(0.34	2	0.10662	0.0	0.0
Rpp25l	0.48205	3.85E-07	44.341	AGS(0.035)VELPAS(0.482)S(0.482)	3	-2.8085	0.0	0.0
Rpp25l	0.48205	3.85E-07	44.341	AGS(0.035)VELPAS(0.482)S(0.482)	3	-2.8085	0.0	0.0
Fam53b	0.472635	1.65E-06	68.164	S(0.067)LS(0.46)FS(0.473)DEMSSC	3	0.029009	0.0	0.0
Aven	0.497975	9.89E-05	70.345	QS(0.004)PS(0.498)EGS(0.498)QK	3	0.89924	0.0	0.0
Ulk1	0.224776	3.24E-18	47.884	AAFGT(0.001)QAS(0.096)DS(0.225	5	0.21588	0.0	0.0
Ulk1	0.224776	3.24E-18	47.884	AAFGT(0.001)QAS(0.096)DS(0.225	5	0.21588	0.0	0.0
Ulk1	0.224776	3.24E-18	47.884	AAFGT(0.001)QAS(0.096)DS(0.225	5	0.21588	0.0	0.0
Ulk1	0.495201	8.46E-16	55.417	AGGASS(0.002)PAPVVFT(0.495)VC	4	-0.08197	0.0	0.0
LOC68003	0.404424	1.27E-05	42.633	ALY(0.002)S(0.148)PLFPT(0.404)S(	3	-2.5791	0.0	0.0
Usp36	0.473146	0.00255244	64.82	DSIFS(0.053)T(0.473)S(0.473)PK	2	1.409	0.0	0.0
Usp36	0.47027	3.31E-09	59.339	GDS(0.006)S(0.024)S(0.096)S(0.47	3	0.83975	0.0	0.0
Usp36	0.488488	1.02E-05	49.066	T(0.206)T(0.206)S(0.488)PT(0.074	3	-2.3132	0.0	0.0
Anks1a	0.446142	3.65E-10	82.529	S(0.446)PS(0.446)FAS(0.108)EWD	3	-0.66423	0.0	0.0
Snph	0.499885	0.0166892	46.159	RT(0.5)S(0.5)PPVSVR	3	0.11868	0.0	0.0
Sec61b	0.440698	6.10E-33	97.689	PGPT(0.003)PS(0.001)AT(0.007)N	4	-0.54835	0.0	0.0
Sec61b	0.440698	6.10E-33	97.689	PGPT(0.003)PS(0.001)AT(0.007)N	4	-0.54835	0.0	0.0
Foxn3	0.312152	2.10E-10	50.088	S(0.091)T(0.091)S(0.312)PT(0.312	3	1.0566	0.0	0.0
Znrf2	0.186051	3.23E-12	45.725	AAQSASF(0.005)IPS(0.186)S(0.186	4	1.0824	0.0	0.0
Znrf2	0.186051	3.23E-12	45.725	AAQSASF(0.005)IPS(0.186)S(0.186	4	1.0824	0.0	0.0
Znrf2	0.186051	3.23E-12	45.725	AAQSASF(0.005)IPS(0.186)S(0.186	4	1.0824	0.0	0.0
Znrf2	0.186051	3.23E-12	45.725	AAQSASF(0.005)IPS(0.186)S(0.186	4	1.0824	0.0	0.0
Papola	0.498984	9.31E-07	62.055	T(0.499)S(0.499)PLNS(0.001)S(0.0	3	-0.26788	0.0	0.0
Rcsd1	0.270101	0.000104625	50.354	EKS(0.036)PS(0.212)S(0.212)T(0.2	4	1.001	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	146
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	857
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	860
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2351
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1266
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	269
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	291
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	587
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	959
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	15
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	91
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	123
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	713
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	715
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	718
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	757
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1207
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	578
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	608
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	547
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	118
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	13
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	14
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	104
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	108
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	545
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	43

Rcsd1	0.426744	1.62E-19	63.427	NT(0.118)CS(0.311)S(0.427)T(0.14	4	-0.10464	0.0	0.0
Ttbk2	0.489837	2.29E-78	149	SGTDGSLTTTT(0.003)T(0.49)S(0.49	3	-0.34408	0.0	0.0
Ccnt2	0.337669	4.99E-06	52.866	HGPAQAVAGT(0.338)S(0.338)VT(0.338	3	0.6106	0.0	0.0
Wiz	0.499841	8.87E-14	68.41	AADSGERPLAT(0.5)S(0.5)PPGTVK	4	0.82672	0.0	0.0
Sbno2	0.34359	2.82E-07	41.908	AIT(0.002)LPCGPGEVLDLT(0.344)Y	4	0.55427	0.0	0.0
Apc	0.357815	6.57E-16	63.625	KLEES(0.055)AS(0.897)FES(0.046)I	4	2.4119	0.0	0.0
Apc	0.445312	2.58E-12	60.419	KLEESASFES(0.016)LS(0.071)PS(0.016	4	1.501	0.0	0.0
Apc	0.499635	0.00407077	62.162	KS(0.5)S(0.5)ADSTSAR	2	-0.081481	0.0	0.0
Apc	0.498859	2.94E-12	92.773	QAS(0.499)S(0.499)DS(0.002)DSIL	3	1.5614	0.0	0.0
Apc	0.498859	2.94E-12	92.773	QAS(0.499)S(0.499)DS(0.002)DSIL	3	1.5614	0.0	0.0
Ppp1r12b	0.421808	0.00014001	45.347	RS(0.422)T(0.422)QGVVT(0.12)LT(0.12	3	-1.12	0.0	0.0
Pitpnm2	0.430845	1.22E-30	124.25	RS(0.431)S(0.431)S(0.109)S(0.028	4	0.30859	0.0	0.0
Pitpnm2	0.430845	1.22E-30	124.25	RS(0.431)S(0.431)S(0.109)S(0.028	4	0.30859	0.0	0.0
Pitpnm2	0.281294	1.56E-07	55.437	S(0.281)S(0.281)S(0.281)S(0.072)T	3	-0.17472	0.0	0.0
Pitpnm2	0.47576	5.37E-152	135.01	YPLGDGCSTLLADALQT(0.004)HNT	4	-0.28446	0.0	0.0
Myo10	0.49761	0.0166842	47.603	SLS(0.001)S(0.004)QGS(0.498)S(0.001	2	-3.0416	0.0	0.0
Myo10	0.49761	0.0166842	47.603	SLS(0.001)S(0.004)QGS(0.498)S(0.001	2	-3.0416	0.0	0.0
Cstf2t	0.377911	4.85E-07	43.841	QGAGQPS(0.012)S(0.116)FS(0.378)S(0.116	3	-0.36842	0.0	0.0
Pak7	0.333312	3.59E-08	52.97	S(0.333)KS(0.333)GS(0.333)GLQEF	4	1.8261	0.0	0.0
Pak7	0.333312	3.59E-08	52.97	S(0.333)KS(0.333)GS(0.333)GLQEF	4	1.8261	0.0	0.0
Pak7	0.333312	3.59E-08	52.97	S(0.333)KS(0.333)GS(0.333)GLQEF	4	1.8261	0.0	0.0
Tmcc3	0.497459	0.00102557	43.592	S(0.497)RT(0.497)APHCLES(0.004)	3	-0.25384	0.0	0.0
Ep400	0.445944	1.70E-05	53.168	S(0.26)S(0.446)PVNRPS(0.279)S(0.26	3	-0.1544	0.0	0.0
Cd3eap	0.353413	2.41E-10	49.087	FSAFGGS(0.004)PPVT(0.04)GPGS(I	4	1.7149	0.0	0.0
Tbc1d10b	0.420093	3.14E-57	88.395	ASAGPVPGAVVIAEGLHPS(0.42)LP	3	-1.7386	0.0	0.0
Tbc1d10b	0.42146	8.81E-85	100.66	ASAGPVPGAVVIAEGLHPS(0.019)LI	4	-0.59054	0.0	0.0
Tbc1d10b	0.257357	3.14E-57	88.395	ASAGPVPGAVVIAEGLHPS(0.216)LI	5	-0.31733	0.0	0.0
Tbc1d10b	0.3984	3.94E-07	52.862	QQPPLGPS(0.101)S(0.398)S(0.398	4	-0.77392	0.0	0.0
Bicd1	0.437961	1.79E-57	100.7	TPTISPVIT(0.123)APPS(0.438)S(0.438	3	-0.26402	0.0	0.0
Bicd1	0.437961	1.79E-57	100.7	TPTISPVIT(0.123)APPS(0.438)S(0.438	3	-0.26402	0.0	0.0
Usp20	0.362957	5.00E-12	63.398	S(0.363)S(0.375)S(0.345)RPCS(0.6	5	1.0248	0.0	0.0
Usp20	0.375111	5.00E-12	63.398	S(0.363)S(0.375)S(0.345)RPCS(0.6	5	1.0248	0.0	0.0
Map4k2	0.249708	3.68E-09	46.145	AS(0.001)DPHLGT(0.25)LS(0.25)PE	5	-0.61875	0.0	0.0
Map4k2	0.249708	3.68E-09	46.145	AS(0.001)DPHLGT(0.25)LS(0.25)PE	5	-0.61875	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	216
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	329
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	828
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1188
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2367
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2691
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2028
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2029
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	475;696
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	686;662
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	687;663
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	688;664
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	805
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1746
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1747
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	580
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	286
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	288
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	648
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	170
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	687
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	690
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	695
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	640
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	609
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	610
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	371
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	233
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	237

Osbp	0.328487	5.50E-63	109.25	GATVLPANT(0.11)PGS(0.328)T(0.3	4	-1.4569	0.0	0.0
Osbp	0.499161	1.57E-28	84.327	RT(0.499)GS(0.499)NIS(0.002)GAS	4	-0.44754	0.0	0.0
Zfp703	0.12372	2.49E-09	52.185	DGGSSSVS(0.001)S(0.009)T(0.124	3	-0.86751	0.0	0.0
Zfp703	0.12372	2.49E-09	52.185	DGGSSSVS(0.001)S(0.009)T(0.124	3	-0.86751	0.0	0.0
Zfp703	0.12372	2.49E-09	52.185	DGGSSSVS(0.001)S(0.009)T(0.124	3	-0.86751	0.0	0.0
Zfp703	0.12372	2.49E-09	52.185	DGGSSSVS(0.001)S(0.009)T(0.124	3	-0.86751	0.0	0.0
Zfp703	0.12372	2.49E-09	52.185	DGGSSSVS(0.001)S(0.009)T(0.124	3	-0.86751	0.0	0.0
Zfp703	0.12372	2.49E-09	52.185	DGGSSSVS(0.001)S(0.009)T(0.124	3	-0.86751	0.0	0.0
Cobl	0.485171	1.63E-14	77.031	KVS(0.344)S(0.485)LAS(0.171)EELI	3	0.78233	0.0	0.0
Nfatc2	0.473276	4.19E-07	56.339	T(0.473)S(0.473)PDPT(0.046)PVS(i	3	-0.21924	0.0	0.0
Scel	0.229228	9.64E-07	40.723	TPAGSSFS(0.005)ANT(0.229)T(0.2	4	0.035048	0.0	0.0
Mphosph1	0.333127	2.58E-10	49.266	VTFALPDDEAEDT(0.333)S(0.333)S	4	2.2717	0.0	0.0
Mphosph1	0.333127	2.58E-10	49.266	VTFALPDDEAEDT(0.333)S(0.333)S	4	2.2717	0.0	0.0
Brd1	0.35005	8.54E-18	71.148	S(0.187)RS(0.187)T(0.276)CGDS(0	4	0.14597	0.0	0.0
Tor4a	0.408871	2.39E-14	55.022	LLQTGTEPS(0.004)VGT(0.067)GT(c	3	3.1994	0.0	0.0
Lage3	0.444529	2.67E-11	55.417	MQTAHAGLS(0.257)HT(0.257)AGC	3	-0.98772	0.0	0.0
Dbr1	0.477136	4.67E-25	72.167	NLPS(0.001)S(0.004)MFVS(0.477)!	3	0.28217	0.0	0.0
Dbr1	0.477136	4.67E-25	72.167	NLPS(0.001)S(0.004)MFVS(0.477)!	3	0.28217	0.0	0.0
Itgb1bp1	0.379507	6.21E-05	46.249	HS(0.005)S(0.017)S(0.077)S(0.38)!	3	-0.31019	0.0	0.0
Itgb1bp1	0.379507	6.21E-05	46.249	HS(0.005)S(0.017)S(0.077)S(0.38)!	3	-0.31019	0.0	0.0
Map7d1	0.306653	6.59E-06	64.244	ARPT(0.307)S(0.307)PS(0.24)T(0.1	4	-0.036654	0.0	0.0
Map7d1	0.441222	2.23E-30	135.8	S(0.118)AS(0.441)AS(0.441)PLTPC	2	-0.62518	0.0	0.0
Map7d1	0.480467	2.19E-13	72.916	S(0.48)S(0.481)QPS(0.798)PT(0.22	3	-1.185	0.0	0.0
Map7d1	0.472355	2.79E-08	58.246	S(0.005)S(0.005)QPS(0.084)PT(0.3	2	1.6938	0.0	0.0
Kank4	0.436313	6.07E-25	69.492	ES(0.986)PVPPS(0.436)S(0.432)T(c	4	-0.083774	0.0	0.0
Ror1	0.498587	5.46E-08	54.281	SPHSDVGCS(0.499)S(0.499)DEDG!	3	1.7541	0.0	0.0
Ror1	0.498587	5.46E-08	54.281	SPHSDVGCS(0.499)S(0.499)DEDG!	3	1.7541	0.0	0.0
Vcl	0.199863	4.85E-07	43.841	TQMQEAMT(0.001)QEVS(0.2)DVF	3	0.50755	0.0	0.0
Vcl	0.199863	4.85E-07	43.841	TQMQEAMT(0.001)QEVS(0.2)DVF	3	0.50755	0.0	0.0
Mtmr2	0.419326	1.81E-06	40.28	LPSEDS(0.003)LS(0.059)S(0.059)A!	4	1.4053	0.0	0.0
Mtmr2	0.343666	7.93E-21	105.9	S(0.272)S(0.344)S(0.283)CES(0.10	2	1.3414	0.0	0.0
Depdc5	0.331936	4.82E-32	91.541	TQKPSTT(0.003)VPPPLS(0.332)S(0	3	0.02787	0.0	0.0
Depdc5	0.331936	4.82E-32	91.541	TQKPSTT(0.003)VPPPLS(0.332)S(0	3	0.02787	0.0	0.0
Ldb2	0.491137	3.67E-38	85.423	NS(0.349)T(0.103)S(0.491)S(0.043	3	1.3607	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	254
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	185
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	187
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1043;1154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	328
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	123
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	341
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	939
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	17
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	479
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	480
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	13
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	14
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	437
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	125
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	635
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	556
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	557
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	596
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	600
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	33
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	5
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	708
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	709
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	264

Fndc3a	0.499686	1.25E-05	63.754	DKMS(0.5)S(0.5)PPPS(0.001)PQK	3	-1.6179	0.0	0.0
Tcp11l1	0.317887	4.32E-09	50.957	VCLEVVS(0.002)S(0.007)CLS(0.318)	3	1.1962	0.0	0.0
Tcp11l1	0.443878	1.74E-11	57.366	VCLEVSS(0.001)CLS(0.101)MCGS(C	3	-1.1746	0.0	0.0
Tcp11l1	0.443878	1.74E-11	57.366	VCLEVSS(0.001)CLS(0.101)MCGS(C	3	-1.1746	0.0	0.0
Pcdh17	0.25701	1.77E-09	59.975	ALSPLLQEVPS(0.243)AS(0.243)S(0	4	-0.094963	0.0	0.0
Mast2	0.365526	1.05E-06	40.625	DS(0.332)S(0.302)PS(0.366)RDFLP	4	1.8438	0.0	0.0
Mast2	0.470586	1.23E-34	115.41	S(0.019)PS(0.471)PLS(0.306)GHGS	3	2.0731	0.0	0.0
Rc3h2	0.440725	1.83E-38	73.574	TPVSSTLPVAT(0.441)QS(0.441)PT(	4	-0.29344	0.0	0.0
Elmo1	0.332544	2.29E-06	48.216	IAFDAES(0.002)EPNNS(0.333)S(0.3	3	0.561	0.0	0.0
Elmo1	0.499637	2.65E-13	66.636	IAFDAESEPNNS(0.145)S(0.5)GS(0.1	3	0.013295	0.0	0.0
Elmo1	0.332544	2.29E-06	48.216	IAFDAES(0.002)EPNNS(0.333)S(0.3	3	0.561	0.0	0.0
Rin3	0.499421	4.93E-19	71.06	S(0.499)S(0.499)VQDFICVS(0.001)	3	-0.92099	0.0	0.0
Rin3	0.499421	4.93E-19	71.06	S(0.499)S(0.499)VQDFICVS(0.001)	3	-0.92099	0.0	0.0
Cables1	0.499636	1.75E-47	142.94	S(0.5)S(0.5)LET(0.001)LEDIEENAPI	3	-0.81221	0.0	0.0
Cables1	0.499636	1.75E-47	142.94	S(0.5)S(0.5)LET(0.001)LEDIEENAPI	3	-0.81221	0.0	0.0
Snx19	0.340336	5.16E-24	56.625	AS(0.34)S(0.311)PVAAPVHLAS(0.1	4	1.0495	0.0	0.0
Nfrkb	0.199576	6.53E-09	44.31	SEAEDLAEPLS(0.2)NT(0.2)EGVPT(C	3	1.8491	0.0	0.0
Nfrkb	0.199576	6.53E-09	44.31	SEAEDLAEPLS(0.2)NT(0.2)EGVPT(C	3	1.8491	0.0	0.0
Nfrkb	0.199576	6.53E-09	44.31	SEAEDLAEPLS(0.2)NT(0.2)EGVPT(C	3	1.8491	0.0	0.0
Foxo3	0.39409	0.0289191	43.897	S(0.059)S(0.07)S(0.394)FPY(0.355	2	0.063375	0.0	0.0
Phf2	0.359513	0.00457575	41.695	RPS(0.36)AS(0.273)S(0.36)PNNT(C	2	-0.047484	0.0	0.0
Trerf1	0.352698	9.68E-54	95.713	S(0.353)S(0.353)S(0.294)IDGSNVT	3	1.7602	0.0	0.0
Trerf1	0.352698	9.68E-54	95.713	S(0.353)S(0.353)S(0.294)IDGSNVT	3	1.7602	0.0	0.0
Peak1	0.418628	6.45E-20	63.625	GS(0.111)S(0.419)S(0.371)T(0.099	5	0.33836	0.0	0.0
Peak1	0.300463	8.33E-20	61.963	GSS(0.001)S(0.003)T(0.013)PNS(0	5	-0.068535	0.0	0.0
Peak1	0.314406	8.33E-20	61.963	GS(0.001)S(0.003)S(0.007)T(0.024	3	-0.18031	0.0	0.0
Peak1	0.471054	6.04E-11	52.273	S(0.001)LFT(0.011)S(0.031)QS(0.4	4	0.040765	0.0	0.0
Peak1	0.363209	4.20E-08	55.972	TESAQGS(0.003)QVPGS(0.135)S(0	3	1.294	0.0	0.0
Peak1	0.363209	4.20E-08	55.972	TESAQGS(0.003)QVPGS(0.135)S(0	3	1.294	0.0	0.0
Luc7l2	0.471631	1.28E-07	54.967	AMLDQLMGT(0.472)S(0.472)RDG	3	-0.54152	0.0	0.0
Efs	0.45553	0.000253262	55.196	S(0.08)CS(0.456)PS(0.456)S(0.006	3	-0.080053	0.0	0.0
Efs	0.45553	0.000253262	55.196	S(0.08)CS(0.456)PS(0.456)S(0.006	3	-0.080053	0.0	0.0
Gltscr1l	0.233476	1.14E-19	56.68	IMPAPLGT(0.023)T(0.023)QPQQEI	5	0.94484	0.0	0.0
Gltscr1l	0.233476	1.14E-19	56.68	IMPAPLGT(0.023)T(0.023)QPQQEI	5	0.94484	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	146
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	409
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	413
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	414
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1038
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1036
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	699
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	341
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	344
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	788
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	789
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	200
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	201
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	206
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	359
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	363
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	412
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	943
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	679
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	680
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	498
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	503
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	507
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	822
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	753
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	755
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	18
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	122
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	673
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	676

Gltscr1l	0.233476	1.14E-19	56.68	IMPAPLGT(0.023)T(0.023)QPQQEI	5	0.94484	0.0	0.0
Gltscr1l	0.233476	1.14E-19	56.68	IMPAPLGT(0.023)T(0.023)QPQQEI	5	0.94484	0.0	0.0
Usp6nl	0.499638	6.79E-06	68.972	KHS(0.5)EPS(0.5)PS(0.001)PSK	3	1.0081	0.0	0.0
Farp1	0.420111	1.05E-09	46.412	SPDEATAADQES(0.159)EDDLS(0.1	3	-1.5884	0.0	0.0
Cyfp1	0.483649	1.09E-07	57.366	T(0.03)LRS(0.484)S(0.484)LEGPT(C	3	0.84583	0.0	0.0
Cyfp1	0.483649	1.09E-07	57.366	T(0.03)LRS(0.484)S(0.484)LEGPT(C	3	0.84583	0.0	0.0
Spire1	0.463185	2.32E-07	67.234	FLPIS(0.074)S(0.463)T(0.463)PQPE	3	-0.18317	0.0	0.0
Zfp800	0.465994	8.68E-20	62.781	VKVEPGDSVES(0.009)S(0.029)PPS	4	-0.063687	0.0	0.0
Gpbp1	0.31989	0.00217381	64.121	S(0.16)NS(0.2)S(0.32)S(0.32)PVDK	2	-0.67398	0.0	0.0
Adgrb3	0.489439	0.000847626	73.666	SIFT(0.021)PVS(0.489)S(0.489)K	2	0.86046	0.0	0.0
Fam172a	0.459966	4.57E-10	73.279	QS(0.018)S(0.46)S(0.46)DGT(0.06	3	-0.67981	0.0	0.0
Gab1	0.49471	4.94E-72	104.97	ESPSSTEADGELYVFNT(0.001)PS(0.	3	2.016	0.0	0.0
Gab1	0.365013	4.59E-14	68.42	QVEYLDLDLES(0.365)GKS(0.365)TI	5	0.18858	0.0	0.0
Gab1	0.365013	4.59E-14	68.42	QVEYLDLDLES(0.365)GKS(0.365)TI	5	0.18858	0.0	0.0
Gab1	0.333333	9.68E-06	61.03	S(0.333)S(0.333)S(0.333)LEGFHNC	4	1.241	0.0	0.0
Gab1	0.333333	9.68E-06	61.03	S(0.333)S(0.333)S(0.333)LEGFHNC	4	1.241	0.0	0.0
Cgn1	0.409107	1.98E-39	116.51	S(0.409)S(0.409)S(0.202)S(0.402)S	3	0.95936	0.0	0.0
Cgn1	0.402415	7.71E-21	82.709	S(0.409)S(0.409)S(0.202)S(0.402)S	3	0.95936	0.0	0.0
Cgn1	0.389246	7.71E-21	82.709	S(0.409)S(0.409)S(0.202)S(0.402)S	3	0.95936	0.0	0.0
Cgn1	0.467631	4.01E-33	79.731	S(0.468)RS(0.468)VDS(0.065)AFPF	4	0.24863	0.0	0.0
Terf2	0.440431	2.53E-12	67.415	DLVLPNLAS(0.44)PS(0.3)S(0.221)P	3	-0.79256	0.0	0.0
Terf2	0.482216	2.55E-08	59.372	DLVLPNLAS(0.003)PS(0.482)S(0.48	4	-0.35371	0.0	0.0
Terf2	0.482216	2.55E-08	59.372	DLVLPNLAS(0.003)PS(0.482)S(0.48	4	-0.35371	0.0	0.0
Reps1	0.473546	9.27E-09	96.464	RQS(0.474)S(0.474)S(0.053)YDDP	3	-1.0109	0.0	0.0
Reps1	0.495896	8.67E-79	123.52	RS(0.496)S(0.496)GDHT(0.008)NP	4	-0.81942	0.0	0.0
Reps1	0.495896	8.67E-79	123.52	RS(0.496)S(0.496)GDHT(0.008)NP	4	-0.81942	0.0	0.0
Reps1	0.499526	1.10E-42	89.721	SSGDHT(0.001)NPT(0.5)S(0.5)PLL	4	0.53183	0.0	0.0
Reps1	0.480488	7.06E-20	64.002	SHSGAS(0.003)PDNT(0.076)APPPF	4	0.17785	0.0	0.0
Reps1	0.320733	2.13E-54	88.241	S(0.321)S(0.321)S(0.281)S(0.071)C	3	-1.1345	0.0	0.0
Reps1	0.320733	2.13E-54	88.241	S(0.321)S(0.321)S(0.281)S(0.071)C	3	-1.1345	0.0	0.0
Pragmin	0.497937	7.09E-15	69.256	AAS(0.498)S(0.498)PDGFFWT(0.00	4	0.88705	0.0	0.0
Rbmxml	0.314058	1.49E-14	78.95	DYS(0.058)HS(0.314)S(0.314)S(0.3	3	-0.042668	0.0	0.0
Rbmxml	0.314058	1.49E-14	78.95	DYS(0.058)HS(0.314)S(0.314)S(0.3	3	-0.042668	0.0	0.0
Nfat5	0.325572	1.03E-15	56.131	DGSTLTTLQT(0.023)PS(0.326)S(0.32	4	0.15723	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	677
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	679
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	498
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	893
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	478
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	422
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	150
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	751
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	294
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	634
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	637
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	417
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	418
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	299
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	300
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	385
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	318
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	320
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	273
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	473
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	474
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	482
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	558;253
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	428
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	429
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	797
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	247
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	248
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	357



Nfat5	0.325572	1.03E-15	56.131	DGSTLTLLQT(0.023)PS(0.326)S(0.3	4	0.15723	0.0	0.0
Tbc1d2b	0.404651	6.10E-07	42.909	LSECEGS(0.001)VS(0.022)S(0.069)	3	3.6468	0.0	0.0
Exoc6b	0.249755	0.00024792	40.941	DVYT(0.001)IFDT(0.25)EVES(0.25)	4	0.48466	0.0	0.0
Mtmr14	0.384682	8.91E-44	83.944	AAAAAS(0.001)AGS(0.027)T(0.111	4	-0.29601	0.0	0.0
Mtmr14	0.384682	8.91E-44	83.944	AAAAAS(0.001)AGS(0.027)T(0.111	4	-0.29601	0.0	0.0
Alg9	0.496891	1.13E-07	45.423	LKGGGGGGGGGS(0.006)GGGS(0.49	4	0.17357	0.0	0.0
Arhgap25	0.462005	0.000557513	45.577	S(0.462)S(0.462)VGWDAT(0.075)E	2	-0.62587	0.0	0.0
Arhgap25	0.462005	0.000557513	45.577	S(0.462)S(0.462)VGWDAT(0.075)E	2	-0.62587	0.0	0.0
Fhdc1	0.352095	0.000405508	52.527	S(0.352)S(0.352)S(0.296)ENDVQM	2	3.9238	0.0	0.0
Fhdc1	0.352095	0.000405508	52.527	S(0.352)S(0.352)S(0.296)ENDVQM	2	3.9238	0.0	0.0
Ppp1r13b	0.318755	1.21E-19	57.154	GPPPIPGVGKPLPPSYGTYPSPGPLGI	4	0.53218	0.0	0.0
Ppp1r13b	0.497283	6.82E-41	123.6	RS(0.497)S(0.304)IT(0.199)EPEGP	4	-0.27859	0.0	0.0
Champ1	0.485115	3.67E-09	50.505	KPS(0.39)PS(0.485)ES(0.125)PELV	4	-0.62134	0.0	0.0
Ap2a1	0.408058	4.69E-66	98.151	DTSSNDINGGVEPT(0.408)PS(0.408	3	-0.0019844	0.0	0.0
Ap2a1	0.288897	2.29E-54	85.881	RDTSSNDINGGVEPT(0.099)PS(0.28	3	2.2099	0.0	0.0
Tppp	0.482927	0.00260337	62.799	AVS(0.483)S(0.483)PT(0.028)VS(0	2	-0.19682	0.0	0.0
Rab23	0.446802	1.75E-17	61.488	IGVFNASVGS(0.002)HLGQNS(0.10	4	-2.8576	0.0	0.0
Rab23	0.446802	1.75E-17	61.488	IGVFNASVGS(0.002)HLGQNS(0.10	4	-2.8576	0.0	0.0
Rab23	0.452231	1.05E-17	73.138	QQVADEPEQT(0.019)HS(0.452)S(C	4	0.51356	0.0	0.0
Rab23	0.452231	1.05E-17	73.138	QQVADEPEQT(0.019)HS(0.452)S(C	4	0.51356	0.0	0.0
Rbm6	0.326409	1.65E-42	77.731	EGETQSGTFEHES(0.021)QS(0.326)	4	0.81143	0.0	0.0
Rbm6	0.499573	3.47E-117	131.13	EGETQSGTFEHESQS(0.001)DFQNS	5	0.011696	0.0	0.0
Arhgap10	0.443006	6.24E-63	110.03	TSPDTTFAEPT(0.192)CLS(0.443)AS	4	0.23451	0.0	0.0
Usp4	0.418182	4.05E-30	84.249	DDECPS(0.011)T(0.056)S(0.418)S(	3	-2.6898	0.0	0.0
Usp4	0.418182	4.05E-30	84.249	DDECPS(0.011)T(0.056)S(0.418)S(	3	-2.6898	0.0	0.0
Usp4	0.286128	2.36E-23	76.817	RDDECPS(0.022)T(0.096)S(0.286)S	5	-0.14188	0.0	0.0
Ppfia2	0.499896	0.000438283	75.115	CET(0.5)S(0.5)PPPTPR	2	-0.57968	0.0	0.0
Zmynd8	0.478561	5.88E-11	56.081	S(0.001)PT(0.001)S(0.002)T(0.001	3	-0.9677	0.0	0.0
Fam129b	0.327061	4.00E-11	43.04	QVVS(0.001)VVQDEES(0.327)GLPF	5	-0.20508	0.0	0.0
Fam129b	0.410211	3.95E-11	43.04	QVVSVVQDEES(0.149)GLPFEAGS(0	4	0.4495	0.0	0.0
Dnajc2	0.446875	7.83E-08	88.768	NAS(0.447)T(0.447)S(0.106)FQELE	3	0.31654	0.0	0.0
Atp7b	0.367832	2.39E-10	49.555	GLLTHQGPGY(0.121)LS(0.368)DS(i	3	4.3952	0.0	0.0
Atp7b	0.42318	2.39E-10	49.555	GLLTHQGPGY(0.007)LS(0.047)DS(i	4	0.72624	0.0	0.0
Atp7b	0.42318	4.17E-07	43.156	GLLTHQGPGY(0.007)LS(0.047)DS(i	4	0.72624	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	358
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	347
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	261
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	18
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	26
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	298
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	498
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	499
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	428
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	662
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	274
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	649
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	652
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	207
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	187
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	355
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	360
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	513
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	882
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	883
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	886
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	621
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	439
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	633
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	645
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	47
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	468
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	470
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	473

Caskin1	0.432362	1.23E-19	64.885	RS(0.432)S(0.432)S(0.135)AMAS(C	3	2.6088	0.0	0.0
Caskin1	0.432362	1.23E-19	64.885	RS(0.432)S(0.432)S(0.135)AMAS(C	3	2.6088	0.0	0.0
Nup153	0.497107	1.48E-07	55.757	IPS(0.006)AVS(0.497)S(0.497)PLN!	3	0.80397	0.0	0.0
Nup153	0.497107	1.48E-07	55.757	IPS(0.006)AVS(0.497)S(0.497)PLN!	3	0.80397	0.0	0.0
Dpysl4	0.43061	9.55E-08	50.783	NLHQS(0.016)GFS(0.163)LS(0.391	4	0.7578	0.0	0.0
Nr3c1	0.409024	9.03E-08	53.625	DT(0.001)GDT(0.001)ILS(0.088)S(C	3	0.93333	0.0	0.0
Synpo	0.498274	1.14E-30	90.718	AWAPPAS(0.093)S(0.498)MADRS(	3	-0.1798	0.0	0.0
Synpo	0.315865	1.01E-19	58.434	SSPGLY(0.001)NAPVQDS(0.316)LC	5	0.23829	0.0	0.0
Synpo	0.399553	5.08E-26	65.891	SSPGLYNAPVQDS(0.165)LQPT(0.4	3	-0.3968	0.0	0.0
Nefh	0.492858	9.60E-60	143.74	S(0.006)S(0.008)S(0.493)T(0.493)I	2	-0.57163	0.0	0.0
Nefh	0.466084	5.09E-13	53.674	FRGAGAAS(0.466)S(0.466)T(0.048	5	-0.70734	0.0	0.0
Nefh	0.272061	4.30E-22	141.59	T(0.174)S(0.272)VS(0.272)S(0.272	2	-0.34557	0.0	0.0
Plaa	0.475439	1.95E-09	54.008	GQT(0.001)LGLGNT(0.475)S(0.475	3	0.036042	0.0	0.0
Tab1	0.499685	3.09E-17	61.03	SLLQSEQQPS(0.5)WT(0.5)DDLPLCI	4	-1.0647	0.0	0.0
Arhgap39	0.493289	0.00130766	45.614	KPS(0.131)S(0.493)DS(0.37)QPS(0	3	1.6495	0.0	0.0
Arhgap39	0.488399	5.25E-05	57.794	KPS(0.001)S(0.006)DS(0.016)QPS(	3	-0.010954	0.0	0.0
Shroom2	0.499358	3.12E-28	141.59	DS(0.001)CS(0.499)S(0.499)PPSLN	2	-0.0065009	0.0	0.0
Shroom2	0.410957	1.67E-07	49.266	S(0.127)RS(0.127)S(0.411)PS(0.16	4	-0.22752	0.0	0.0
lkbkb	0.493835	1.83E-29	124.04	GPVS(0.494)GS(0.494)PDS(0.012)I	2	-0.70654	0.0	0.0
LOC10091	0.310755	7.70E-23	65.298	S(0.311)T(0.311)S(0.272)PS(0.092	3	1.4348	0.0	0.0
Csnk1d	0.453177	8.13E-08	61.265	GAPVNVS(0.077)S(0.318)S(0.453)I	2	1.4857	0.0	0.0
Bsn	0.402585	2.60E-19	54.553	S(0.045)PS(0.045)VS(0.403)PDRG\$	4	0.97753	0.0	0.0
Map1b	0.495258	2.65E-07	80.014	DMS(0.359)LY(0.146)AS(0.495)LA'	3	0.05222	0.0	0.0
Map1b	0.486005	3.17E-43	90.308	ESTAAYQT(0.002)S(0.026)S(0.486)	5	-0.23465	0.0	0.0
Map1b	0.391888	4.51E-07	89.624	SQGS(0.049)T(0.392)S(0.392)NS(0	2	-0.91366	0.0	0.0
Map1b	0.472657	4.93E-33	80.786	QGFS DKES(0.003)PVS(0.024)DLT(C	3	-0.54264	0.0	0.0
Map1b	0.477299	1.25E-25	70.028	S(0.038)EQS(0.477)S(0.373)MS(0.	3	-0.068682	0.0	0.0
Map1b	0.497019	8.60E-08	54.834	S(0.497)S(0.497)MLFDT(0.006)MC	3	-0.33539	0.0	0.0
Map1b	0.497019	8.60E-08	54.834	S(0.497)S(0.497)MLFDT(0.006)MC	3	-0.33539	0.0	0.0
Map1b	0.193967	2.46E-07	41.908	TLEVVS(0.017)PS(0.194)QS(0.194)	5	0.9141	0.0	0.0
Map1b	0.498656	2.61E-107	128.03	TPGDFNYAY(0.005)QKPES(0.499)T	5	-0.16255	0.0	0.0
Scamp1	0.440771	1.61E-16	61.538	NVPPGLDEY(0.103)NPFS(0.441)DS	3	0.86709	0.0	0.0
Phf14	0.243517	2.27E-10	51.758	KAELMGIST(0.003)DIFPVDNS(0.24	3	-0.88833	0.0	0.0
Phf14	0.243517	2.27E-10	51.758	KAELMGIST(0.003)DIFPVDNS(0.24	3	-0.88833	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	883
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	884
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	334
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	335
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	544
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	286
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	638
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	645
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1042;1012
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72;72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	54;54
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	295
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	300
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1130
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	920
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	670
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	129
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	142
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1757;1631
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1811;1685
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	341;215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1443;1317
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1636;1510
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1827;1701
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1828;1702
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1319;1193
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1870;1744
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	590
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	593

Phf14	0.433302	1.98E-06	50.358	NSADDEELT(0.433)NDS(0.433)LT(	3	-0.44365	0.0	0.0
Sos1	0.452801	1.75E-09	59.339	T(0.002)PDVFS(0.093)S(0.453)S(0.	3	-1.8072	0.0	0.0
Sos1	0.165639	9.52E-10	44.955	T(0.044)PLT(0.106)PPPAS(0.166)S	4	-0.48486	0.0	0.0
Sos1	0.165639	9.52E-10	44.955	T(0.044)PLT(0.106)PPPAS(0.166)S	4	-0.48486	0.0	0.0
Sos1	0.165639	9.52E-10	44.955	T(0.044)PLT(0.106)PPPAS(0.166)S	4	-0.48486	0.0	0.0
Sos1	0.165639	9.52E-10	44.955	T(0.044)PLT(0.106)PPPAS(0.166)S	4	-0.48486	0.0	0.0
Hdlbp	0.225031	1.60E-08	43.088	DAPWT(0.011)S(0.028)NS(0.225)S	4	-1.186	0.0	0.0
Hsd17b4	0.438567	1.38E-39	81.974	IDSEGIS(0.001)QNHT(0.122)GQVA	4	0.6204	0.0	0.0
Hsd17b4	0.438567	1.38E-39	81.974	IDSEGIS(0.001)QNHT(0.122)GQVA	4	0.6204	0.0	0.0
Lsp1	0.482522	6.16E-15	56.29	TPSPLALEDT(0.031)AELS(0.483)S(	3	-0.70822	0.0	0.0
Atp7a	0.34503	8.39E-16	55.158	SSEGS(0.001)QQKS(0.066)PAY(0.0	5	0.17367	0.0	0.0
Atp7a	0.34503	8.39E-16	55.158	SSEGS(0.001)QQKS(0.066)PAY(0.0	5	0.17367	0.0	0.0
Grik1	0.465792	0.000175054	46.318	S(0.466)S(0.466)FT(0.062)S(0.007	3	-0.14047	0.0	0.0
Grik1	0.465792	0.000175054	46.318	S(0.466)S(0.466)FT(0.062)S(0.007	3	-0.14047	0.0	0.0
Akap11	0.315926	9.28E-07	40.668	NVIPDT(0.316)PPS(0.316)T(0.316)	4	-0.06867	0.0	0.0
Plcd3	0.431189	1.37E-31	75.88	VSAQVAAPLAPLSPAS(0.001)S(0.0	5	-0.096642	0.0	0.0
Pde4d	0.435753	9.18E-07	41.446	S(0.002)PLDPMT(0.127)S(0.436)P	3	0.48245	0.0	0.0
Pde4d	0.435753	9.18E-07	41.446	S(0.002)PLDPMT(0.127)S(0.436)P	3	0.48245	0.0	0.0
Cnksr2	0.499574	0.0119815	42.083	RQS(0.5)T(0.5)LPT(0.001)QK	3	-0.79769	0.0	0.0
Cnksr2	0.288229	1.46E-05	48.623	S(0.012)PT(0.003)S(0.003)S(0.003	2	-0.56643	0.0	0.0
Cnksr2	0.288229	1.46E-05	48.623	S(0.012)PT(0.003)S(0.003)S(0.003	2	-0.56643	0.0	0.0
Ube2e3	0.142828	1.30E-17	58.565	QRSDDDES(0.143)PS(0.143)T(0.143	3	1.4511	0.0	0.0
Ube2e3	0.142828	1.30E-17	58.565	QRSDDDES(0.143)PS(0.143)T(0.143	3	1.4511	0.0	0.0
Ube2e3	0.186193	8.03E-33	70.264	QRS(0.038)DDES(0.014)PS(0.017)	4	0.14945	0.0	0.0
Ube2e3	0.186193	8.03E-33	70.264	QRS(0.038)DDES(0.014)PS(0.017)	4	0.14945	0.0	0.0
Ube2e3	0.186193	8.03E-33	70.264	QRS(0.038)DDES(0.014)PS(0.017)	4	0.14945	0.0	0.0
Ube2e3	0.186193	8.03E-33	70.264	QRS(0.038)DDES(0.014)PS(0.017)	4	0.14945	0.0	0.0
Ube2e3	0.186193	8.03E-33	70.264	QRS(0.038)DDES(0.014)PS(0.017)	4	0.14945	0.0	0.0
Smarcad1	0.318119	3.22E-20	57.712	SKIEEAPAAPQPS(0.318)QPGPS(0	4	1.1313	0.0	0.0
Smarcad1	0.34444	3.22E-20	57.712	SKIEEAPAAPQPS(0.127)QPGPS(0	5	0.080829	0.0	0.0
Smarcad1	0.34444	3.22E-20	57.712	SKIEEAPAAPQPS(0.127)QPGPS(0	5	0.080829	0.0	0.0
Mcm2	0.333315	0.000240586	54.09	RISDPLT(0.333)S(0.333)S(0.333)P	3	0.24399	0.0	0.0
Mcf2l	0.276964	1.69E-27	79.489	ALEQSHSLPLPT(0.191)PAS(0.277)T	4	3.642	0.0	0.0
Mcf2l	0.454864	2.07E-14	65.833	ALEQS(0.052)HS(0.947)LPLPT(0.19	4	0.22886	0.0	0.0
Mcf2l	0.476818	0.0151876	47.302	AS(0.046)PT(0.477)S(0.477)PDKK	3	0.66537	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1093
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1094
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1096
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1097
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1237
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	317
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	275
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	277
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	885
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	886
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	108
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	111
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	778
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	334
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	335
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	12
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	14
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	17
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	19
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	28
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	33
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	34
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	27
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	915
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	917
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	991

Kcnb2	0.199994	2.36E-22	76.176	DSHEQLNNT(0.2)S(0.2)S(0.2)S(0.2)	4	0.28205	0.0	0.0
Kcnb2	0.199994	2.36E-22	76.176	DSHEQLNNT(0.2)S(0.2)S(0.2)S(0.2)	4	0.28205	0.0	0.0
Kcnb2	0.409928	1.38E-66	128.72	DSHEQLNNT(0.145)S(0.03)S(0.005)	3	0.14931	0.0	0.0
Kcnb2	0.409928	1.38E-66	128.72	DSHEQLNNT(0.145)S(0.03)S(0.005)	3	0.14931	0.0	0.0
Kcnb2	0.48764	3.14E-19	75.018	EEGCVGS(0.021)S(0.488)S(0.488)F	3	0.80247	0.0	0.0
Kcnb2	0.48764	3.14E-19	75.018	EEGCVGS(0.021)S(0.488)S(0.488)F	3	0.80247	0.0	0.0
Helz	0.355444	2.30E-22	65.378	S(0.355)PPAVPS(0.613)PPS(0.343)	4	0.18878	0.0	0.0
Pias1	0.474329	2.47E-12	71.976	TCPS(0.003)LS(0.043)PT(0.474)S(C	3	0.57133	0.0	0.0
Pias1	0.499112	1.83E-11	59.912	T(0.499)PS(0.499)LPAVDT(0.001)S	3	-0.44219	0.0	0.0
Sept9	0.452402	3.66E-12	66.152	ATVAS(0.095)S(0.452)S(0.452)QKf	4	-0.42036	0.0	0.0
Pkn1	0.477585	3.49E-13	67.227	S(0.019)S(0.019)LKGEAENS(0.478)	3	1.3136	0.0	0.0
Ppp4r2	0.499274	8.86E-19	80.69	AEETET(0.001)AS(0.499)S(0.499)P	3	0.27317	0.0	0.0
Ppp4r2	0.375002	1.26E-31	91.657	GHS DSSAS(0.005)DS(0.375)EVS(0.	4	0.15519	0.0	0.0
Clmn	0.364208	2.93E-07	42.399	S(0.364)S(0.364)PS(0.18)S(0.034)S	3	0.66299	0.0	0.0
Clmn	0.364208	2.93E-07	42.399	S(0.364)S(0.364)PS(0.18)S(0.034)S	3	0.66299	0.0	0.0
Clmn	0.438628	8.02E-12	58.093	VFVCDQLES(0.439)PT(0.439)GFS(C	3	2.232	0.0	0.0
Luzp1	0.402203	8.87E-05	53.377	S(0.002)HS(0.034)T(0.159)S(0.402	3	-0.19971	0.0	0.0
Luzp1	0.402203	8.87E-05	53.377	S(0.002)HS(0.034)T(0.159)S(0.402	3	-0.19971	0.0	0.0
Luzp1	0.446593	1.07E-06	83.633	S(0.447)S(0.447)T(0.107)DFLELEQ	2	-0.53182	0.0	0.0
Luzp1	0.446593	1.07E-06	83.633	S(0.447)S(0.447)T(0.107)DFLELEQ	2	-0.53182	0.0	0.0
Luzp1	0.407756	5.09E-06	51.524	T(0.312)FS(0.272)DS(0.408)AHGS(	3	0.04414	0.0	0.0
Luzp1	0.49015	3.00E-21	131.71	T(0.011)QS(0.49)S(0.49)LT(0.008),	2	0.85298	0.0	0.0
Luzp1	0.49015	3.00E-21	131.71	T(0.011)QS(0.49)S(0.49)LT(0.008),	2	0.85298	0.0	0.0
Pdlim5	0.455728	1.93E-45	79.071	ANS(0.001)T(0.003)PEPS(0.06)QQ	4	0.28464	0.0	0.0
Pdlim5	0.302115	1.93E-45	79.071	KANSTPEPS(0.002)QQS(0.302)AS(i	7	0.90759	0.0	0.0
Gipc1	0.499777	9.12E-23	91.647	S(0.5)S(0.5)GGHPGSGPQLGTGR	3	-0.12332	0.0	0.0
Tle3	0.448352	9.98E-06	47.082	DAPT(0.097)S(0.392)PAS(0.448)V/	2	-0.054946	0.0	0.0
Ilf3	0.187974	6.30E-33	74.382	GYGHGQGS(0.003)YS(0.008)S(0.0:	4	0.57854	0.0	0.0
Ilf3	0.187974	6.30E-33	74.382	GYGHGQGS(0.003)YS(0.008)S(0.0:	4	0.57854	0.0	0.0
Ilf3	0.187974	6.30E-33	74.382	GYGHGQGS(0.003)YS(0.008)S(0.0:	4	0.57854	0.0	0.0
Slc4a4	0.499442	0.000205517	80.706	S(0.001)LPS(0.499)S(0.499)DKRK	3	0.46153	0.0	0.0
Picalm	0.48105	7.16E-15	68.445	ATTLS(0.002)NAVS(0.481)S(0.481)	3	0.94456	0.0	0.0
Picalm	0.48105	7.16E-15	68.445	ATTLS(0.002)NAVS(0.481)S(0.481)	3	0.94456	0.0	0.0
Picalm	0.459263	5.29E-14	62.739	ATTLSNAVS(0.007)S(0.03)LAS(0.4	3	0.15668	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	528
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	529
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	530
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	531
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	850
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	851
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1635
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	488
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	510
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	391
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	205
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	206
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	413
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	908
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	909
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	955
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	956
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	515
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	993
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	994
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	225
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	288
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	789
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	791
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	794
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	399;399
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	307
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	311

Madd	0.219111	6.32E-17	56.366	SSSS(0.001)T(0.003)T(0.01)AS(0.0	4	-0.19416	0.0	0.0
Madd	0.219111	6.32E-17	56.366	SSSS(0.001)T(0.003)T(0.01)AS(0.0	4	-0.19416	0.0	0.0
Madd	0.379922	4.77E-17	58.712	SSSST(0.001)T(0.002)AS(0.013)S(0	3	1.1166	0.0	0.0
Madd	0.168973	1.27E-08	43.306	SSS(0.001)S(0.002)T(0.005)T(0.01	5	1.6511	0.0	0.0
Magi2	0.438661	1.09E-08	72.891	S(0.061)S(0.061)FPDS(0.439)T(0.4	2	-0.029891	0.0	0.0
Cdc42bpa	0.414963	0.00140711	46.88	EFS(0.344)GGS(0.415)Y(0.234)NT(	3	0.30117	0.0	0.0
Cdc42bpa	0.401571	8.55E-06	81.904	S(0.027)MS(0.141)AS(0.402)S(0.4	2	-0.22048	0.0	0.0
Cdc42bpa	0.401571	8.55E-06	81.904	S(0.027)MS(0.141)AS(0.402)S(0.4	2	-0.22048	0.0	0.0
Ccn1	0.433923	5.89E-07	46.557	GLNLDGT(0.014)PALS(0.438)T(0.4	3	0.39565	0.0	0.0
Pfce1	0.437771	7.84E-10	65.298	FPGLSTLNS(0.438)S(0.281)GS(0.28	2	1.4506	0.0	0.0
Rgs14	0.249298	1.07E-09	53.033	DSHLPPLS(0.249)S(0.249)S(0.249)	3	1.266	0.0	0.0
Rgs14	0.249298	1.07E-09	53.033	DSHLPPLS(0.249)S(0.249)S(0.249)	3	1.266	0.0	0.0
Rgs14	0.249298	1.07E-09	53.033	DSHLPPLS(0.249)S(0.249)S(0.249)	3	1.266	0.0	0.0
Rgs14	0.249298	1.07E-09	53.033	DSHLPPLS(0.249)S(0.249)S(0.249)	3	1.266	0.0	0.0
Rgs14	0.39997	4.66E-17	56.504	SPLYQECLLAEAGRPLREPGS(0.14)	5	-0.82562	0.0	0.0
Sorbs2	0.268716	3.13E-07	40.067	T(0.033)S(0.033)PGRADLPGS(0.26	3	1.7648	0.0	0.0
Sorbs2	0.268716	3.13E-07	40.067	T(0.033)S(0.033)PGRADLPGS(0.26	3	1.7648	0.0	0.0
Sorbs2	0.268716	3.13E-07	40.067	T(0.033)S(0.033)PGRADLPGS(0.26	3	1.7648	0.0	0.0
Sorbs2	0.435235	1.07E-53	97.771	ADLPGSSSTFT(0.013)T(0.013)S(0.0	3	1.5926	0.0	0.0
Sorbs2	0.3483	1.07E-15	60.419	ADLPGSSSTFT(0.003)T(0.003)S(0.0	3	2.1103	0.0	0.0
Sorbs2	0.40528	1.85E-07	53.454	GSEDY(0.002)PDPPLPHS(0.296)YS	4	-0.36701	0.0	0.0
Sorbs2	0.246456	3.42E-06	88.224	S(0.246)YS(0.246)S(0.246)T(0.239	2	0.074554	0.0	0.0
Sorbs2	0.246456	3.42E-06	88.224	S(0.246)YS(0.246)S(0.246)T(0.239	2	0.074554	0.0	0.0
Sorbs2	0.246456	3.42E-06	88.224	S(0.246)YS(0.246)S(0.246)T(0.239	2	0.074554	0.0	0.0
Sorbs2	0.49931	2.63E-16	61.642	T(0.499)S(0.499)PGRADLPGS(0.00	4	-0.020553	0.0	0.0
Gripap1	0.461547	3.21E-105	143.61	S(0.002)LS(0.075)S(0.462)S(0.462)	4	-0.71721	0.0	0.0
Rtn1	0.486237	1.13E-24	74.44	SPPVAMET(0.003)AS(0.01)T(0.016	5	-0.72091	0.0	0.0
Rtn1	0.38676	1.97E-39	81.844	SPPVAMETAS(0.002)T(0.003)GVA	3	-0.72134	0.0	0.0
Rtn1	0.398404	1.97E-39	81.844	SPPVAMET(0.005)AS(0.121)T(0.12	4	0.49429	0.0	0.0
LOC10091	0.491559	7.08E-20	69.422	SHDFYSHEL(0.492)S(0.492)PVDS(	4	0.61793	0.0	0.0
LOC10091	0.491559	7.08E-20	69.422	SHDFYSHEL(0.492)S(0.492)PVDS(	4	0.61793	0.0	0.0
Trip10	0.449628	2.03E-18	76.301	VPS(0.099)DS(0.45)S(0.45)LGT(0.0	3	0.46354	0.0	0.0
Epb41l3	0.480129	1.65E-09	89.382	EGS(0.043)S(0.48)VT(0.477)EAAK	2	-1.3845	0.0	0.0
Epb41l3	0.483372	8.89E-66	93.596	SAPEQEQPAT(0.483)VS(0.483)QEE	4	-0.016221	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	707
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	708
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	710
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	718
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	731
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1654
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1631
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1632
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1666
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	478
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	479
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	481
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	199
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	382
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	383
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	393
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	396
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	936
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	938
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	939
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	373
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	687
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	90
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	91
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	92
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	496
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	497
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	299
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	916;898;1235;681
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	943;925;1262;708

Epb41l3	0.332832	4.04E-32	71.882	SAPEQEQPAT(0.333)VS(0.333)QEE	4	-0.76313	0.0	0.0
Epb41l3	0.24991	4.77E-16	54.167	TDTAADGET(0.25)S(0.25)AT(0.25)	5	0.58483	0.0	0.0
Epb41l3	0.499742	4.85E-106	144.26	TDTAADGETSAT(0.5)ES(0.5)DQEEI	4	0.034023	0.0	0.0
Lpar1	0.482577	7.64E-13	61.437	S(0.034)AS(0.483)S(0.483)LNHT(0	4	-0.7237	0.0	0.0
Lpar1	0.48518	3.99E-06	40.177	SASSLNHT(0.058)ILAGVHS(0.485)I	3	-1.1062	0.0	0.0
Rims2	0.245221	3.31E-42	107.98	IPDSTHAQLES(0.019)S(0.245)S(0.2	4	0.47108	0.0	0.0
Rims2	0.245221	3.31E-42	107.98	IPDSTHAQLES(0.019)S(0.245)S(0.2	4	0.47108	0.0	0.0
Rims2	0.245221	3.31E-42	107.98	IPDSTHAQLES(0.019)S(0.245)S(0.2	4	0.47108	0.0	0.0
Mark1	0.480311	3.57E-36	102.66	S(0.027)RPS(0.48)S(0.48)DLNNS(0	3	-0.10699	0.0	0.0
Mark1	0.480311	3.57E-36	102.66	S(0.027)RPS(0.48)S(0.48)DLNNS(0	3	-0.10699	0.0	0.0
H3f3c	0.475123	0.00664159	57.225	S(0.283)APS(0.475)T(0.241)GGVK	2	0.16993	0.0	0.0
Cand1	0.352104	0.0282243	41.242	DSSSTNLES(0.295)MDT(0.352)S(0.	2	-2.9103	0.0	0.0
Rgcc	0.254503	1.28E-10	47.73	DSFT(0.001)FS(0.011)DEKLNS(0.2	5	2.3133	0.0	0.0
Rgcc	0.440552	3.05E-78	126.75	RS(0.441)S(0.441)AS(0.118)VS(0.0	3	0.53823	0.0	0.0
Rgcc	0.440552	3.05E-78	126.75	RS(0.441)S(0.441)AS(0.118)VS(0.0	3	0.53823	0.0	0.0
Abcc5	0.394331	9.66E-32	92.264	NATLAWDS(0.005)S(0.03)HS(0.39	3	-0.71853	0.0	0.0
Ap2m1	0.460249	4.65E-05	66.004	GT(0.001)ADET(0.078)S(0.46)KS(0	3	-0.82422	0.0	0.0
Nup88	0.431532	1.76E-71	104.6	NQSPAEDKPAT(0.005)S(0.026)T(	4	0.24927	0.0	0.0
Akap10	0.43289	0.0436948	46.475	NS(0.359)CS(0.433)S(0.208)PLR	2	-0.90701	0.0	0.0
Foxk1	0.494387	2.42E-07	54.281	AASEQQADT(0.494)S(0.494)GGDS	3	-1.1527	0.0	0.0
Foxk1	0.479403	2.25E-33	82.267	SLVS(0.001)PIPS(0.479)PT(0.479)C	3	1.3282	0.0	0.0
Foxk1	0.24823	5.00E-07	42.705	SLVS(0.002)PIPS(0.248)PT(0.248)C	4	0.84794	0.0	0.0
Clec2l	0.406877	6.09E-15	124.81	SGSGYEGS(0.186)T(0.407)S(0.407	2	0.2973	0.0	0.0
Rundc3a	0.482566	4.81E-06	43.326	DPTPS(0.001)MLGLCGS(0.483)LAS	3	-1.3316	0.0	0.0
Epn1	0.484907	5.61E-35	74.321	SPGAFDMSGVGGGS(0.03)LAES(0.48	3	-0.33849	0.0	0.0
Hnrnpk	0.30306	5.43E-124	126.36	IIPTLEEGLQLPS(0.303)PT(0.303)AT	6	1.715	0.0	0.0
Hnrnpk	0.249332	2.31E-85	103.85	IIPTLEEGLQLPS(0.249)PT(0.249)AT	5	-1.9441	0.0	0.0
Hnrnpk	0.199985	1.69E-45	80.943	IIPTLEEGLQLPS(0.2)PT(0.2)AT(0.2)	7	-1.458	0.0	0.0
Atp13a1	0.491814	3.59E-07	63.29	LGS(0.492)T(0.492)DLCY(0.016)IA	3	-0.65429	0.0	0.0
Hadh	0.41978	8.53E-21	121.13	SMS(0.029)S(0.42)S(0.42)S(0.105)	2	0.055932	0.0	0.0
Hadh	0.41978	8.53E-21	121.13	SMS(0.029)S(0.42)S(0.42)S(0.105)	2	0.055932	0.0	0.0
Hbb	0.333293	4.58E-07	52.172	YFDSFGDLS(0.333)S(0.333)AS(0.33	3	0.2733	0.0	0.0
Hbb	0.488618	4.33E-19	71.781	YFDSFGDLS(0.023)S(0.489)AS(0.48	3	0.19833	0.0	0.0
Hbb	0.488618	4.33E-19	71.781	YFDSFGDLS(0.023)S(0.489)AS(0.48	3	0.19833	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	950;932;1269;715
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	720;702
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	724;706
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	347
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	358
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	503
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	504
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	506
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	393
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	394
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	32
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	64
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	65
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	504
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	236
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	47
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	281
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	229
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	235
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	54
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	403
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	453
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	121
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	127
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	638
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	14
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	15
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	50
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	53

Kcnk4	0.43931	8.13E-17	56.854	EQPLLPS(0.439)S(0.439)LPAPPAV/	6	-0.80679	0.0	0.0
Abcc3	0.498048	0.00593042	119.07	YT(0.004)S(0.498)S(0.498)LEK	2	-0.74966	0.0	0.0
Dnm1	0.497577	2.80E-19	51.469	GPAPGPPPAGS(0.005)ALGGAPPVF	4	0.1252	0.0	0.0
Afap1	0.438302	2.59E-39	80.646	KKPST(0.001)DEQT(0.103)S(0.438	4	-0.064646	0.0	0.0
Afap1	0.463763	0.000817654	48.405	S(0.124)GT(0.374)S(0.464)S(0.503	2	-0.7261	0.0	0.0
LOC100911	0.333333	6.36E-05	45.614	VVVLMSG(0.333)T(0.333)S(0.333)	3	-2.0461	0.0	0.0
LOC100911	0.333333	6.36E-05	45.614	VVVLMSG(0.333)T(0.333)S(0.333)	3	-2.0461	0.0	0.0
Khdrbs1	0.454464	0.00012184	49.298	LT(0.454)PS(0.454)RPS(0.091)PLPI	4	-0.64966	0.0	0.0
Slc36a1	0.39364	5.12E-45	79.071	LRNEDYHDY(0.001)S(0.007)S(0.02	4	0.75806	0.0	0.0
Slc36a1	0.39364	5.12E-45	79.071	LRNEDYHDY(0.001)S(0.007)S(0.02	4	0.75806	0.0	0.0
Mark3	0.435391	2.33E-31	88.176	KSAELDASDS(0.003)S(0.435)S(0.43	3	-0.69406	0.0	0.0
Mark3	0.296004	1.21E-30	86.367	SAELDAS(0.001)DS(0.036)S(0.296)	3	1.1832	0.0	0.0
Mark3	0.229963	2.58E-09	58.246	SAELDAS(0.001)DS(0.049)S(0.23)S	3	0.51964	0.0	0.0
Rgs3	0.249873	2.37E-35	73.758	ESFSGQEAAAPGPES(0.25)PS(0.25)S	4	0.96322	0.0	0.0
Rgs3	0.249873	2.37E-35	73.758	ESFSGQEAAAPGPES(0.25)PS(0.25)S	4	0.96322	0.0	0.0
Rgs3	0.249873	2.37E-35	73.758	ESFSGQEAAAPGPES(0.25)PS(0.25)S	4	0.96322	0.0	0.0
Rgs3	0.42687	1.86E-59	97.352	GPCFAS(0.427)DT(0.427)T(0.085)I	4	0.14089	0.0	0.0
Rgs3	0.499749	4.89E-30	85.387	S(0.5)S(0.5)LIET(0.001)GQGAEGGI	3	-0.24404	0.0	0.0
Rgs3	0.493588	4.25E-15	125.33	T(0.013)HS(0.494)EGS(0.494)LLQE	2	-0.21953	0.0	0.0
Prx	0.469603	1.07E-18	72.316	TVPTGDLALRPGT(0.47)VS(0.47)GY	4	1.4935	0.0	0.0
Prx	0.464372	2.19E-16	95.429	S(0.463)LS(0.464)LQEGDQLLS(0.0	2	-0.2247	0.0	0.0
Prx	0.443389	2.03E-54	86.722	VGFS(0.443)QS(0.443)ES(0.098)AS	3	0.3511	0.0	0.0
Prx	0.443389	2.03E-54	86.722	VGFS(0.443)QS(0.443)ES(0.098)AS	3	0.3511	0.0	0.0
Prx	0.496108	1.87E-07	56.882	VT(0.496)S(0.496)GVKPS(0.003)GI	3	0.045423	0.0	0.0
Lphn3	0.48428	3.04E-05	50.966	STES(0.001)S(0.005)IGS(0.051)GK	3	0.78981	0.0	0.0
Ccm2	0.464339	1.90E-78	124.51	AIFDGAS(0.464)T(0.464)PT(0.071)	4	-0.64952	0.0	0.0
Kcnh7	0.47737	2.16E-15	56.854	ALIQPS(0.023)QCS(0.07)PLVNIS(0.	5	1.4726	0.0	0.0
Kcnh7	0.494899	0.000127631	49.149	ES(0.01)CS(0.495)PS(0.495)EADD1	3	0.70542	0.0	0.0
Akap17a	0.318134	3.24E-16	67.928	TWSENMT(0.016)T(0.318)GS(0.31	4	0.14551	0.0	0.0
Akap17a	0.318134	3.24E-16	67.928	TWSENMT(0.016)T(0.318)GS(0.31	4	0.14551	0.0	0.0
Zc3hc1	0.489322	6.92E-07	41.166	DT(0.001)S(0.003)AT(0.014)FQS(0	5	2.7013	0.0	0.0
Brsk1	0.363653	4.38E-15	56.854	MQVPT(0.002)AEEMS(0.326)S(0.3	4	0.51583	0.0	0.0
Brsk1	0.365586	9.74E-07	52.769	SLQPPPGRDPDLS(0.366)S(0.366)	3	0.052708	0.0	0.0
Brsk1	0.365586	9.74E-07	52.769	SLQPPPGRDPDLS(0.366)S(0.366)	3	0.052708	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	307
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	923
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	817
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	343
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	665
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	231
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	233
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	24
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	379
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	380
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	512
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	514
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	515
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	728
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	686
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	716
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113;113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	58;58
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1265;1265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1267;1267
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1052;1052
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1148
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	238
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	238
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	607
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	609
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	58
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	491
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	666
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	667



Brsk1	0.444455	1.40E-19	74.428	SVSGAST(0.001)GLS(0.027)S(0.444	2	0.27402	0.0	0.0
Brsk1	0.345714	1.23E-19	57.533	SVSGAS(0.001)T(0.002)GLS(0.119)	4	1.7127	0.0	0.0
Brsk1	0.345679	1.23E-19	57.533	SVSGAS(0.001)T(0.002)GLS(0.119)	4	1.7127	0.0	0.0
Gas2	0.487531	1.14E-31	87.24	EIEQEET(0.005)LS(0.488)APS(0.48	3	0.15135	0.0	0.0
Gas2	0.327656	1.14E-31	87.24	EIEQEET(0.002)LS(0.328)APS(0.32	4	0.36892	0.0	0.0
Gas2	0.496823	0.000270808	58.32	VDGKT(0.491)S(0.497)PVQS(0.012	3	0.32695	0.0	0.0
Lrch4	0.458517	3.48E-26	77.576	S(0.075)S(0.087)S(0.459)QS(0.325	3	1.7838	0.0	0.0
Lrch4	0.414158	3.27E-26	78	SSSQSGS(0.014)S(0.157)PS(0.414)	3	0.28988	0.0	0.0
Lrch4	0.414158	3.27E-26	78	SSSQSGS(0.014)S(0.157)PS(0.414)	3	0.28988	0.0	0.0
Fam91a1	0.295019	4.27E-58	90.303	SPVQEASSAT(0.002)DT(0.025)DT(i	4	1.0563	0.0	0.0
Arhgef16	0.378988	1.19E-32	95.996	S(0.31)S(0.31)S(0.379)VPY(0.001)I	3	1.3691	0.0	0.0
Stim1	0.497264	4.33E-48	145.43	DLTHSDS(0.002)ES(0.497)S(0.497)	3	-0.68213	0.0	0.0
Stim1	0.497264	4.33E-48	145.43	DLTHSDS(0.002)ES(0.497)S(0.497)	3	-0.68213	0.0	0.0
Stim1	0.333251	8.65E-22	73.448	NTLFGTFHVAHS(0.333)S(0.333)S(	5	0.095494	0.0	0.0
Stim1	0.333251	8.65E-22	73.448	NTLFGTFHVAHS(0.333)S(0.333)S(	5	0.095494	0.0	0.0
Klf16	0.498807	4.95E-91	108.72	GGPGVATAANTAGGT(0.499)S(0.4	3	1.3411	0.0	0.0
Tp53	0.450474	2.09E-07	65.842	ALPTS(0.001)T(0.015)S(0.083)S(0.	3	1.5139	0.0	0.0
Tp53	0.450474	2.09E-07	65.842	ALPTS(0.001)T(0.015)S(0.083)S(0.	3	1.5139	0.0	0.0
Txlna	0.417123	5.50E-12	65.149	EQGVESPGAQPS(0.166)S(0.417)S(	3	-1.3985	0.0	0.0
Pkn2	0.327616	0.000539242	43.761	S(0.307)KS(0.117)EY(0.014)ELNIPI	3	-1.8741	0.0	0.0
Pkn2	0.497172	3.05E-13	63.46	SSVVIEELS(0.497)LVAS(0.016)PT(C	3	-0.05287	0.0	0.0
Ppfia1	0.310342	4.67E-07	48.213	S(0.002)MS(0.001)S(0.001)IPPY(0.	3	-1.5359	0.0	0.0
Ppfia1	0.407752	8.82E-06	53.3	VT(0.001)S(0.003)S(0.013)MS(0.4	3	-2.1127	0.0	0.0
Ppfia1	0.407752	8.82E-06	53.3	VT(0.001)S(0.003)S(0.013)MS(0.4	3	-2.1127	0.0	0.0
Nphp4	0.490688	8.78E-11	68.179	ALT(0.491)S(0.491)PS(0.006)GT(0.	3	0.82986	0.0	0.0
Prkd3	0.488976	2.85E-07	58.04	TIS(0.002)PS(0.02)T(0.489)S(0.489	3	-0.80735	0.0	0.0
Lad1	0.348739	8.93E-07	41.455	IPSKDEDADIS(0.001)S(0.001)PT(0.	4	1.8143	0.0	0.0
Lad1	0.348739	8.93E-07	41.455	IPSKDEDADIS(0.001)S(0.001)PT(0.	4	1.8143	0.0	0.0
Sf3b1	0.493247	3.57E-10	58.024	WDETPAS(0.001)QMGGGS(0.493)TI	3	2.0843	0.0	0.0
Slc25a46	0.450086	2.33E-09	52.96	S(0.45)FGS(0.257)GT(0.291)ELGHV	3	0.0031443	0.0	0.0
Fxr2	0.458096	1.62E-33	83.395	TGGPAY(0.079)GPS(0.458)S(0.458	4	-0.47945	0.0	0.0
Fxr2	0.211071	5.00E-07	41.908	TGGPAY(0.006)GPS(0.064)S(0.064	3	0.80456	0.0	0.0
Kcmf1	0.220974	5.26E-39	73.791	TNTSS(0.001)VT(0.001)T(0.004)T(i	5	-0.21603	0.0	0.0
Scn9a	0.468624	0.00433812	75.652	S(0.469)GS(0.469)EES(0.063)IR	2	0.53441	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	356
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	357
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	283
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	512
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	519
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	520
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	355
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	578
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	523
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	524
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	399
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	400
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	526
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	691
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1170
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1171
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	395;407
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	365
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	366
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	349
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	32
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	448
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	452
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	502

Scn9a	0.468624	0.00433812	75.652	S(0.469)GS(0.469)EES(0.063)IR	2	0.53441	0.0	0.0
Prkcd	0.499582	6.28E-08	51.876	AS(0.5)T(0.5)FCGT(0.001)PDYIAPE	4	-0.20985	0.0	0.0
Hdgfrp2	0.444083	4.41E-49	90.712	GGSSSEELHDS(0.112)PQDS(0.444)S	5	0.45512	0.0	0.0
Hdgfrp2	0.444083	4.41E-49	90.712	GGSSSEELHDS(0.112)PQDS(0.444)S	5	0.45512	0.0	0.0
Camk2g	0.484061	6.50E-34	84.169	KS(0.411)S(0.484)S(0.326)S(0.663	5	0.62852	0.0	0.0
Camk2g	0.422266	4.71E-84	134.91	S(0.077)S(0.077)S(0.423)S(0.423)\	4	-0.77536	0.0	0.0
Efr3a	0.346003	3.37E-10	50.271	LGPPS(0.346)S(0.308)PS(0.346)AA	3	-0.77789	0.0	0.0
Efr3a	0.346003	3.37E-10	50.271	LGPPS(0.346)S(0.308)PS(0.346)AA	3	-0.77789	0.0	0.0
Myo9a	0.453757	9.73E-12	58.952	DS(0.002)FVS(0.099)S(0.454)S(0.3	4	-1.1574	0.0	0.0
Myo9a	0.420594	1.11E-15	65.207	DS(0.002)FVS(0.075)S(0.324)S(0.4	3	-0.82833	0.0	0.0
Gprasp1	0.440945	3.05E-05	50.077	VES(0.441)T(0.441)S(0.11)GS(0.00	3	-0.06094	0.0	0.0
Acsbg1	0.453336	1.16E-52	126.32	T(0.073)LS(0.453)KES(0.181)PS(0.1	4	1.2359	0.0	0.0
Pacs1	0.406794	2.63E-57	101.6	LKPFEGMSQS(0.093)S(0.407)S(0.40	3	0.15839	0.0	0.0
Pacs1	0.406794	2.63E-57	101.6	LKPFEGMSQS(0.093)S(0.407)S(0.40	3	0.15839	0.0	0.0
Pacs1	0.293435	9.43E-12	43.873	VGLVEDS(0.003)PS(0.003)T(0.007)	3	0.25688	0.0	0.0
Pacs1	0.293435	9.43E-12	43.873	VGLVEDS(0.003)PS(0.003)T(0.007)	3	0.25688	0.0	0.0
Agt	0.430689	9.34E-11	50.271	STCAQLENPS(0.431)VET(0.431)LPI	3	-1.3533	0.0	0.0
Chd8	0.294895	9.66E-20	55.059	SQEMTTGGILGPGNHLLDS(0.295)P	4	0.060582	0.0	0.0
Chd8	0.294895	9.66E-20	55.059	SQEMTTGGILGPGNHLLDS(0.295)P	4	0.060582	0.0	0.0
Slc7a6os	0.484062	0.000324485	42.947	NEY(0.032)PDEES(0.484)S(0.484)E	3	0.55999	0.0	0.0
Slc7a6os	0.484062	0.000324485	42.947	NEY(0.032)PDEES(0.484)S(0.484)E	3	0.55999	0.0	0.0
Bclaf1	0.406929	6.43E-40	122.53	NT(0.39)PS(0.407)QHS(0.188)HS(C	3	0.010748	0.0	0.0
Xpo6	0.345661	5.40E-12	47.795	HS(0.001)VT(0.009)AAT(0.237)PPI	6	-0.021923	0.0	0.0
Xpo6	0.334764	5.40E-12	47.795	HS(0.001)VT(0.009)AAT(0.237)PPI	6	-0.021923	0.0	0.0
Xpo6	0.322689	5.40E-12	47.795	HS(0.001)VT(0.009)AAT(0.237)PPI	6	-0.021923	0.0	0.0
Nid2	0.499584	5.31E-15	110.92	ET(0.001)ES(0.5)AS(0.5)LDPQTK	3	0.25154	0.0	0.0
Cntrob	0.485762	9.42E-43	86.08	AQLYLAS(0.002)T(0.027)S(0.486)S	3	0.23353	0.0	0.0
Cntrob	0.485762	9.42E-43	86.08	AQLYLAS(0.002)T(0.027)S(0.486)S	3	0.23353	0.0	0.0
Phf12	0.413655	5.57E-07	45.137	TVQSQIGPS(0.05)LT(0.414)ES(0.41	3	0.42284	0.0	0.0
Uba2	0.199088	4.99E-13	40.286	SIANGS(0.001)DDGAQPS(0.199)T(	4	1.7715	0.0	0.0
Uba2	0.199088	4.99E-13	40.286	SIANGS(0.001)DDGAQPS(0.199)T(	4	1.7715	0.0	0.0
Uba2	0.199088	4.99E-13	40.286	SIANGS(0.001)DDGAQPS(0.199)T(	4	1.7715	0.0	0.0
Knop1	0.483628	4.47E-05	46.318	VASQGS(0.024)GLKT(0.484)S(0.48	4	0.93727	0.0	0.0
RGD13072	0.431722	2.19E-07	47.806	DS(0.054)EDS(0.151)KQS(0.432)P	4	-0.73273	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	504
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	504
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	639
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	640
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	356;356
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	357;357
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	222
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1426
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1427
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	293
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	50
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	408
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	409
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	768
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	772
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	49
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	255
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	256
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	256
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	379
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	62
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	675
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	576
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	578
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	591
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	194
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	422

Camsap2	0.414607	8.62E-09	46.415	QWNL(0.037)S(0.133)PS(0.415)E	3	0.91465	0.0	0.0
Camsap2	0.483456	1.22E-39	84.478	RT(0.29)S(0.226)VHGV(0.483)FD	4	0.99701	0.0	0.0
RGD15626	0.496663	4.48E-19	71.601	YETSLDLVQS(0.497)LS(0.497)PNS	3	-0.90087	0.0	0.0
RGD15626	0.496663	4.48E-19	71.601	YETSLDLVQS(0.497)LS(0.497)PNS	3	-0.90087	0.0	0.0
Qrich1	0.257657	3.50E-35	74.321	GDPQQQSITHIAIPQEAY(0.227)NA'	6	-0.33466	0.0	0.0
Qrich1	0.257657	3.50E-35	74.321	GDPQQQSITHIAIPQEAY(0.227)NA'	6	-0.33466	0.0	0.0
C2cd5	0.429213	0.000317171	43.794	QS(0.028)S(0.093)S(0.429)S(0.38)	3	0.7533	0.0	0.0
C2cd5	0.386412	2.44E-09	43.222	S(0.386)LQRAS(0.307)T(0.307)DNI	5	-0.058879	0.0	0.0
Lbr	0.493975	1.17E-06	84.169	S(0.012)VS(0.494)AS(0.494)YQAD,	3	0.60724	0.0	0.0
Camk1	0.468449	5.73E-19	55.314	LQLGT(0.01)S(0.029)QEGQGQT(0.	3	-0.23087	0.0	0.0
Camk1	0.303916	1.74E-54	88.241	MEDPGS(0.002)VLS(0.304)T(0.304	4	1.1444	0.0	0.0
Nedd4l	0.499817	1.80E-06	40.064	AVKDT(0.207)LS(0.739)NPQS(0.19	6	0.068924	0.0	0.0
Nedd4l	0.408739	2.15E-11	63.302	S(0.09)LS(0.409)S(0.409)PT(0.09)\	2	-0.47197	0.0	0.0
Hspa4l	0.499356	6.26E-05	49.141	T(0.499)S(0.499)FEEGT(0.001)GEC	3	3.0122	0.0	0.0
Prkci	0.423644	2.38E-15	57.144	EGLRPGDT(0.037)T(0.111)S(0.424	4	-0.36464	0.0	0.0
Tnrc6b	0.456205	6.70E-49	121.46	S(0.014)S(0.014)S(0.456)S(0.456)/	3	-1.4812	0.0	0.0
Tnrc6b	0.333272	2.58E-09	58.246	SSSSAGSEVGGQS(0.333)T(0.333)C	3	-0.23983	0.0	0.0
Tnrc6b	0.333272	2.58E-09	58.246	SSSSAGSEVGGQS(0.333)T(0.333)C	3	-0.23983	0.0	0.0
Ankib1	0.485379	7.33E-09	57.173	DFLSNEAS(0.01)LGAIGT(0.485)S(0	3	-1.24	0.0	0.0
Ankib1	0.413148	1.28E-11	52.97	LGADSDPFS(0.001)T(0.001)DT(0.1	3	-0.28067	0.0	0.0
Osbpl9	0.235709	9.84E-16	67.645	LIDSSGSASVLT(0.236)HS(0.236)S(	3	1.1964	0.0	0.0
Osbpl9	0.41659	1.09E-74	146.17	LIDSSGSASVLT(0.014)HS(0.152)S(	3	2.6514	0.0	0.0
Osbpl9	0.332587	2.14E-46	102.21	LIDSSGSAS(0.001)VLT(0.025)HS(0.	4	-0.1435	0.0	0.0
Mast3	0.449392	0.000209235	44.925	GPSPS(0.001)LLS(0.099)T(0.449)IS	3	1.3689	0.0	0.0
Mast3	0.209169	6.29E-17	54.003	SLVVG(0.017)PS(0.209)PT(0.188)	4	0.020078	0.0	0.0
Ap3d1	0.452718	1.42E-18	76.176	HS(0.453)S(0.453)LPT(0.09)ES(0.0	3	-0.22665	0.0	0.0
Tnc	0.448994	7.11E-26	77.631	LPMGSQCS(0.001)VDLES(0.101)T(	3	-0.26186	0.0	0.0
Eif3c	0.456198	2.27E-98	127.53	FFTTGSDSES(0.001)ES(0.086)S(0.4	4	-1.3358	0.0	0.0
Eif3c	0.456198	2.27E-98	127.53	FFTTGSDSES(0.001)ES(0.086)S(0.4	4	-1.3358	0.0	0.0
Inpp5f	0.453394	6.97E-05	43.326	S(0.128)DS(0.453)S(0.394)LET(0.0	3	-1.5412	0.0	0.0
Kank1	0.475431	1.07E-23	68.97	SHVTST(0.001)PIPRPPAPLET(0.475	4	1.2918	0.0	0.0
Synm	0.227134	3.42E-06	44.238	DEQS(0.071)AS(0.227)T(0.227)S(0	3	0.59176	0.0	0.0
Synm	0.440426	2.07E-28	84.249	DEQSAS(0.001)T(0.017)S(0.44)S(0	3	1.8601	0.0	0.0
Synm	0.440426	2.07E-28	84.249	DEQSAS(0.001)T(0.017)S(0.44)S(0	3	1.8601	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	851
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	414
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	460
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	462
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	344
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	346
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	778;803
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	176
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	475
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	437
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	409
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	571
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	581
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	584
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	839
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	891
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	311
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	782
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	754
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	18
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	828
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	157
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1494;1192
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1496;1194
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1497;1195

Sym	0.235247	8.58E-16	65.423	GFLTS(0.003)CY(0.204)S(0.235)S(C	4	0.42357	0.0	0.0
Sym	0.235247	8.58E-16	65.423	GFLTS(0.003)CY(0.204)S(0.235)S(C	4	0.42357	0.0	0.0
Sym	0.235247	8.58E-16	65.423	GFLTS(0.003)CY(0.204)S(0.235)S(C	4	0.42357	0.0	0.0
Sym	0.491338	1.26E-11	63.639	LQT(0.334)S(0.491)S(0.175)EKAEL	3	0.41397	0.0	0.0
Sym	0.421829	7.05E-17	55.765	TEQVS(0.001)Y(0.002)GGPT(0.137	4	0.35794	0.0	0.0
Sym	0.421829	7.05E-17	55.765	TEQVS(0.001)Y(0.002)GGPT(0.137	4	0.35794	0.0	0.0
Sym	0.249353	7.77E-17	55.158	TFVLDS(0.001)S(0.002)VAS(0.249)	3	1.3103	0.0	0.0
Sym	0.305881	8.35E-18	60.95	TFVLDSS(0.001)VAS(0.081)PGPGG	4	-1.0448	0.0	0.0
Sym	0.305881	8.35E-18	60.95	TFVLDSS(0.001)VAS(0.081)PGPGG	4	-1.0448	0.0	0.0
Sym	0.499627	4.98E-07	51.827	VEFST(0.001)PFQVEEVDDVS(0.5)P	2	-0.69555	0.0	0.0
Sym	0.497416	2.42E-170	183.12	VTQGPVSATVEVT(0.497)S(0.497)F	4	-0.73614	0.0	0.0
Sec23ip	0.404982	1.86E-07	87.667	KLS(0.191)VGAY(0.019)VS(0.385)S	3	-0.72583	0.0	0.0
R3hdm1	0.454872	1.23E-07	58.29	S(0.455)T(0.145)NS(0.215)HQS(0.1	3	-0.52095	0.0	0.0
R3hdm1	0.438588	2.81E-07	60.307	STNSHQ(S(0.439)S(0.439)T(0.123)E	2	0.34105	0.0	0.0
Cd44	0.499578	1.17E-08	48.773	KPS(0.001)ELNGEAS(0.5)KS(0.5)QI	4	-1.3249	0.0	0.0
Ctps1	0.469945	1.79E-08	61.165	S(0.03)GS(0.116)S(0.47)S(0.38)PD	3	-1.2623	0.0	0.0
Ddx50	0.465373	0.0011461	57.347	VS(0.071)S(0.447)S(0.465)ENS(0.0	3	0.91031	0.0	0.0
Atp8b2	0.375709	8.32E-26	72.316	S(0.001)T(0.001)S(0.004)APQMS(C	3	0.31731	0.0	0.0
Atp8b2	0.375709	8.32E-26	72.316	S(0.001)T(0.001)S(0.004)APQMS(C	3	0.31731	0.0	0.0
Atp8b2	0.359873	8.73E-20	65.244	S(0.002)T(0.002)S(0.005)APQMS(C	4	0.24366	0.0	0.0
Atp8b2	0.33249	8.95E-20	62.999	S(0.001)T(0.001)S(0.003)APQMS(C	4	-0.36384	0.0	0.0
Psd4	0.488495	3.66E-22	83.423	S(0.012)HS(0.405)S(0.488)PS(0.09	4	1.175	0.0	0.0
Vps13b	0.446623	5.84E-12	68.972	QQSYQAS(0.001)EY(0.16)AS(0.447	3	0.77037	0.0	0.0
Arrdc1	0.223753	1.12E-16	54.748	SHSQQPLS(0.212)T(0.212)T(0.03	3	1.6017	0.0	0.0
LOC10368	0.493166	4.24E-36	102.45	S(0.405)S(0.493)DAVS(0.074)ET(0	3	0.11733	0.0	0.0
Rftn1	0.490949	7.71E-16	59.912	AELPNEG(0.018)ILELDHCS(0.491)	4	-0.59771	0.0	0.0
Rftn1	0.490949	7.71E-16	59.912	AELPNEG(0.018)ILELDHCS(0.491)	4	-0.59771	0.0	0.0
Tgoln2	0.490734	2.36E-05	41.912	T(0.08)ES(0.365)GEKLAGDS(0.491	4	-0.24977	0.0	0.0
Tgoln2	0.457458	7.37E-59	121.56	VLGPS(0.084)S(0.457)S(0.457)ENC	3	0.60807	0.0	0.0
Tdrd7	0.466636	4.62E-71	138.49	S(0.065)S(0.467)S(0.467)FS	4	-0.13433	0.0	0.0
Jund	0.490454	2.03E-24	63.44	LAALKDEPQT(0.001)VPDVPS(0.49)	4	0.23613	0.0	0.0
Jund	0.490454	2.03E-24	63.44	LAALKDEPQT(0.001)VPDVPS(0.49)	4	0.23613	0.0	0.0
Ampd1	0.232744	1.65E-07	45.885	LSHIEEFIS(0.233)S(0.233)S(0.233)I	3	1.0184	0.0	0.0
Ampd1	0.232744	1.65E-07	45.885	LSHIEEFIS(0.233)S(0.233)S(0.233)I	3	1.0184	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	404;404
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	405;405
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	406;406
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	9;9
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1145
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1151
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1433
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1434
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	777;777
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1105;1105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	474
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	296
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	302
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	326
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	574
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	490
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	491
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	496
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	968
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1017
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	326
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	699
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	130
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	222
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	272
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	883
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	197
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	201
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	88
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	89

Ampd1	0.232744	1.65E-07	45.885	LSHIEEFIS(0.233)S(0.233)S(0.233)I	3	1.0184	0.0	0.0
Golgb1	0.363765	1.77E-22	62.582	EQVEDS(0.003)GAES(0.147)S(0.12	5	0.62245	0.0	0.0
Golgb1	0.363765	3.78E-07	41.047	EQVEDS(0.003)GAES(0.147)S(0.12	5	0.62245	0.0	0.0
Golgb1	0.475562	3.45E-53	92.552	QAS(0.476)S(0.476)GT(0.044)S(0.(	3	-0.51156	0.0	0.0
Golgb1	0.475562	3.45E-53	92.552	QAS(0.476)S(0.476)GT(0.044)S(0.(	3	-0.51156	0.0	0.0
Golgb1	0.493654	1.86E-170	214.64	S(0.078)DS(0.301)S(0.494)T(0.127	3	0.36622	0.0	0.0
Ick	0.469817	7.50E-06	50.358	VQLAPLAAPS(0.048)PGY(0.012)S((	3	0.89667	0.0	0.0
Ick	0.469817	7.50E-06	50.358	VQLAPLAAPS(0.048)PGY(0.012)S((	3	0.89667	0.0	0.0
Gpr149	0.249548	3.25E-25	70.538	SKS(0.001)VGHEPNS(0.25)EES(0.2	4	-0.023415	0.0	0.0
Gpr149	0.249548	3.25E-25	70.538	SKS(0.001)VGHEPNS(0.25)EES(0.2	4	-0.023415	0.0	0.0
Gpr149	0.249548	3.25E-25	70.538	SKS(0.001)VGHEPNS(0.25)EES(0.2	4	-0.023415	0.0	0.0
Exoc8	0.498917	8.49E-66	92.904	S(0.499)S(0.499)LES(0.002)IPLALL	4	-0.82609	0.0	0.0
Exoc8	0.498917	8.49E-66	92.904	S(0.499)S(0.499)LES(0.002)IPLALL	4	-0.82609	0.0	0.0
Fkbp3	0.48856	2.64E-05	49.768	QKDS(0.489)KS(0.375)EET(0.137)I	3	-0.015308	0.0	0.0
Kif16b	0.478569	7.74E-16	60.735	TLLAQGNQIALLDS(0.479)PT(0.479	4	0.84199	0.0	0.0
Gpr116	0.494154	2.08E-41	110.34	STSLGSSTPVFS(0.007)MS(0.494)S(	3	-0.49527	0.0	0.0
Hps5	0.313185	1.03E-18	70.452	S(0.313)S(0.313)IS(0.313)S(0.059)	3	-0.17577	0.0	0.0
Hps5	0.313185	1.03E-18	70.452	S(0.313)S(0.313)IS(0.313)S(0.059)	3	-0.17577	0.0	0.0
Hps5	0.313185	1.03E-18	70.452	S(0.313)S(0.313)IS(0.313)S(0.059)	3	-0.17577	0.0	0.0
Lrrc47	0.49909	2.98E-117	134.42	STSENKEEDMLS(0.499)GT(0.499)E	4	-0.65656	0.0	0.0
Ggt7	0.476715	6.11E-60	139.15	LPS(0.298)S(0.477)S(0.223)S(0.00:	3	0.11476	0.0	0.0
Trim67	0.443276	4.61E-89	102.55	LVQPPPPAPPEAT(0.443)S(0.443)	5	-1.012	0.0	0.0
Map9	0.232379	3.38E-66	94.019	GGFTEDDLTT(0.001)DPLLS(0.232)	4	-0.24829	0.0	0.0
Map9	0.232379	3.38E-66	94.019	GGFTEDDLTT(0.001)DPLLS(0.232)	4	-0.24829	0.0	0.0
Map9	0.232379	3.38E-66	94.019	GGFTEDDLTT(0.001)DPLLS(0.232)	4	-0.24829	0.0	0.0
Map9	0.332289	9.48E-22	69.765	STSS(0.001)GENS(0.332)S(0.332)S	4	0.22416	0.0	0.0
Map9	0.332289	9.48E-22	69.765	STSS(0.001)GENS(0.332)S(0.332)S	4	0.22416	0.0	0.0
Map9	0.332289	9.48E-22	69.765	STSS(0.001)GENS(0.332)S(0.332)S	4	0.22416	0.0	0.0
LOC10091	0.351444	4.34E-07	44.848	DSMNAT(0.001)S(0.004)T(0.012)P	4	-0.18675	0.0	0.0
LOC10091	0.351444	4.34E-07	44.848	DSMNAT(0.001)S(0.004)T(0.012)P	4	-0.18675	0.0	0.0
Ston2	0.399459	6.14E-11	52.675	KPNAPSAAT(0.001)AGPDVPFNS(0	4	0.79677	0.0	0.0
Ranbp10	0.439048	0.000140987	40.493	HDDLQT(0.122)DES(0.439)S(0.439	3	0.25442	0.0	0.0
Ppp6r1	0.467175	1.72E-11	54.008	EADIS(0.003)S(0.011)IQILS(0.467):	3	-0.77859	0.0	0.0
Ppp6r1	0.447833	1.38E-20	60.146	T(0.448)S(0.448)PS(0.066)S(0.027	6	-0.37939	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	90
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	916
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	917
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2937;2937
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2938;2938
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	499;499
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	581
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	602
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	605
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	607
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	92
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	93
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	98
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	398
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1309
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	436
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	437
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	439
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	518
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	18
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	261
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	335
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	337
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	165
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	166
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	167
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	468
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	267
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	517
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	739
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	693

PlekHg2	0.457343	7.62E-26	75.695	QGPGGEGMAAS(0.055)QGHWS(0	3	0.70429	0.0	0.0
Sqrdl	0.480356	1.88E-05	49.768	YPNVFGIGDCT(0.039)NLPT(0.48)S	3	-0.14337	0.0	0.0
Its1	0.406733	9.59E-05	45.916	LLS(0.234)PGT(0.365)S(0.407)KIT(	4	0.7123	0.0	0.0
Its1	0.452495	7.58E-17	73.386	S(0.001)GS(0.005)GMS(0.055)VIS(	2	0.072853	0.0	0.0
Synj1	0.340947	1.73E-33	83.467	T(0.341)S(0.341)PCQS(0.311)PT(0	4	-2.8777	0.0	0.0
Trim28	0.228918	2.93E-18	47.884	LAS(0.001)PS(0.002)GS(0.013)T(0.	4	1.4367	0.0	0.0
Trim28	0.228918	2.93E-18	47.884	LAS(0.001)PS(0.002)GS(0.013)T(0.	4	1.4367	0.0	0.0
Trim28	0.228918	2.93E-18	47.884	LAS(0.001)PS(0.002)GS(0.013)T(0.	4	1.4367	0.0	0.0
Trim28	0.457399	2.59E-22	86.777	LSPPY(0.085)S(0.457)S(0.457)PQE	3	-0.9929	0.0	0.0
Trim28	0.249992	2.22E-19	54.466	PAASSAAAAS(0.25)AS(0.25)AS(0.2	4	0.46703	0.0	0.0
Trim28	0.249992	2.22E-19	54.466	PAASSAAAAS(0.25)AS(0.25)AS(0.2	4	0.46703	0.0	0.0
Trim28	0.49916	2.64E-124	129.68	RPAASSAAAASAS(0.001)AS(0.499)	3	0.38196	0.0	0.0
Trim28	0.49916	2.64E-124	129.68	RPAASSAAAASAS(0.001)AS(0.499)	3	0.38196	0.0	0.0
Gpr3711	0.435674	1.82E-05	44.577	LKAEVS(0.121)S(0.436)S(0.436)IY(	5	0.71419	0.0	0.0
Zyx	0.207433	6.19E-07	41.446	SVPLEAPS(0.207)S(0.207)VGT(0.2(	5	-1.4409	0.0	0.0
Zyx	0.207433	6.19E-07	41.446	SVPLEAPS(0.207)S(0.207)VGT(0.2(	5	-1.4409	0.0	0.0
Zyx	0.485458	8.65E-49	92.01	SVPLEAPS(0.005)S(0.022)VGT(0.4(	3	-0.46468	0.0	0.0
Pls3	0.288737	2.31E-15	55.051	EGICALGGT(0.021)S(0.076)ELS(0.2	3	2.7084	0.0	0.0
Pls3	0.288737	2.31E-15	55.051	EGICALGGT(0.021)S(0.076)ELS(0.2	3	2.7084	0.0	0.0
Arhgap1	0.436042	7.41E-08	56.081	S(0.002)DDS(0.029)KS(0.089)S(0.4	4	0.5357	0.0	0.0
Hspbp1	0.41435	4.64E-08	57.973	LLQT(0.002)CFS(0.414)S(0.414)PT	3	0.17372	0.0	0.0
Hmga1	0.499881	9.58E-27	81.157	KLEKEEEEGISQES(0.5)S(0.5)EEEEQ	4	-0.70583	0.0	0.0
Sipa111	0.315053	1.59E-08	119.39	EYGS(0.315)T(0.315)S(0.315)S(0.0	2	0.51223	0.0	0.0
Sipa111	0.315053	1.59E-08	119.39	EYGS(0.315)T(0.315)S(0.315)S(0.0	2	0.51223	0.0	0.0
Brd4	0.324089	1.93E-17	58.858	EAPSPLMIHS(0.028)PQMPQFQS(0	4	0.48345	0.0	0.0
Brd4	0.324089	1.93E-17	58.858	EAPSPLMIHS(0.028)PQMPQFQS(0	4	0.48345	0.0	0.0
Brd4	0.49286	8.25E-43	92.474	MPDEPEEPVVT(0.014)VS(0.493)S(	4	1.1733	0.0	0.0
Brd4	0.49286	8.25E-43	92.474	MPDEPEEPVVT(0.014)VS(0.493)S(	4	1.1733	0.0	0.0
Exoc4	0.495813	3.10E-24	94.632	T(0.407)LS(0.496)T(0.093)S(0.004	4	0.41881	0.0	0.0
Wdr47	0.447045	1.79E-48	90.559	IS(0.001)DLGNKT(0.447)S(0.447)P	5	0.36443	0.0	0.0
Cacng7	0.495612	1.30E-05	64.82	YPDHLHIS(0.009)T(0.496)S(0.496)	3	0.23849	0.0	0.0
Stx17	0.352612	8.91E-107	123.41	S(0.353)T(0.353)T(0.295)IDGVHTC	4	-0.37828	0.0	0.0
Zfp61	0.442078	1.80E-15	53.987	QKS(0.442)S(0.442)PY(0.051)KEA\	4	2.1816	0.0	0.0
Zfp61	0.442078	1.80E-15	53.987	QKS(0.442)S(0.442)PY(0.051)KEA\	4	2.1816	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	343
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	324
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1049
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	601
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	602
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	613
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	757
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	47
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	49
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	52
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	462
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	294
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	295
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	300
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	50
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	348
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103;92
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	937
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	942
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	322
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	323
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	32
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	273
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	134
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	236
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	237

Dync1li1	0.375238	1.76E-06	50.178	KPASVSPT(0.001)T(0.006)PPS(0.2	3	-0.6734	0.0	0.0
Dync1li1	0.409308	0.000159539	40.88	S(0.124)VS(0.409)S(0.409)NVAS(0	3	1.851	0.0	0.0
Dync1li1	0.308744	2.35E-08	45.489	TGSPGGPGVGGG(0.069)PGGGAAC	3	0.62055	0.0	0.0
Dync1li1	0.308744	2.35E-08	45.489	TGSPGGPGVGGG(0.069)PGGGAAC	3	0.62055	0.0	0.0
Drgx	0.187601	1.57E-07	45.099	EHSEAVLQS(0.059)ANLLPS(0.188)	4	0.12027	0.0	0.0
Drgx	0.187601	1.57E-07	45.099	EHSEAVLQS(0.059)ANLLPS(0.188)	4	0.12027	0.0	0.0
Drgx	0.351682	4.61E-15	54.003	EHSEAVLQS(0.011)ANLLPS(0.113)	3	1.4484	0.0	0.0
Drgx	0.187601	1.57E-07	45.099	EHSEAVLQS(0.059)ANLLPS(0.188)	4	0.12027	0.0	0.0
Slc38a3	0.391249	4.33E-09	55.128	GFLQQS(0.391)S(0.302)S(0.302)KE	4	-0.25419	0.0	0.0
Casc3	0.483541	4.60E-15	63.302	GTVTGERQS(0.033)GDGQES(0.48	3	-3.9813	0.0	0.0
Camsap3	0.279899	1.02E-31	71.117	AEAES(0.003)GT(0.011)GS(0.146)I	3	0.61793	0.0	0.0
Camsap3	0.396973	2.13E-11	44.289	LLPDGAADGS(0.004)FY(0.05)LHS(	4	0.076442	0.0	0.0
Camsap3	0.396973	2.13E-11	44.289	LLPDGAADGS(0.004)FY(0.05)LHS(	4	0.076442	0.0	0.0
Camsap3	0.297404	1.81E-66	121.92	NTET(0.001)VPS(0.29)QNNS(0.05	3	0.65593	0.0	0.0
Camsap3	0.297404	1.81E-66	121.92	NTET(0.001)VPS(0.29)QNNS(0.05	3	0.65593	0.0	0.0
Plekha7	0.498247	1.21E-47	85.337	NQRPS(0.498)S(0.498)MVS(0.003)	5	1.9832	0.0	0.0
Plekha7	0.498247	1.21E-47	85.337	NQRPS(0.498)S(0.498)MVS(0.003)	5	1.9832	0.0	0.0
Wipf3	0.2	3.08E-07	42.863	AAVAPPPPPLPGS(0.2)S(0.2)NS(0.2	5	0.39919	0.0	0.0
Wipf3	0.2	3.08E-07	42.863	AAVAPPPPPLPGS(0.2)S(0.2)NS(0.2	5	0.39919	0.0	0.0
Wipf3	0.2	3.08E-07	42.863	AAVAPPPPPLPGS(0.2)S(0.2)NS(0.2	5	0.39919	0.0	0.0
Wipf3	0.2	3.08E-07	42.863	AAVAPPPPPLPGS(0.2)S(0.2)NS(0.2	5	0.39919	0.0	0.0
Irak4	0.332984	1.68E-19	57.238	LEPSCLPDS(0.333)S(0.333)S(0.33	3	1.5938	0.0	0.0
Irak4	0.332984	1.68E-19	57.238	LEPSCLPDS(0.333)S(0.333)S(0.33	3	1.5938	0.0	0.0
Irak4	0.332984	1.68E-19	57.238	LEPSCLPDS(0.333)S(0.333)S(0.33	3	1.5938	0.0	0.0
Arpp21	0.321137	8.58E-94	179.37	T(0.046)GS(0.321)ES(0.321)S(0.11	2	-0.13779	0.0	0.0
Pde1c	0.498846	8.14E-08	59.252	RS(0.499)S(0.499)LNS(0.002)INSSI	4	0.83928	0.0	0.0
Pde1c	0.499821	1.73E-18	71.905	RT(0.5)S(0.5)NMVGLSYPPAVIDAL	3	-1.7835	0.0	0.0
Hspa4	0.493225	0.00161885	41.996	AES(0.001)EEMET(0.493)S(0.493)(	3	-0.69795	0.0	0.0
Rps6ka4	0.481272	3.81E-19	71.756	S(0.481)S(0.481)PPLRT(0.037)PDV	4	1.1847	0.0	0.0
Canx	0.439345	0.000110108	54.898	S(0.052)KS(0.052)DT(0.439)S(0.43	3	1.1663	0.0	0.0
Osbpl1a	0.497948	0.000445133	79.697	T(0.498)S(0.498)LPS(0.004)PMFSF	2	1.0167	0.0	0.0
Gorasp1	0.494349	3.38E-32	71.297	GGEATWS(0.001)GS(0.008)EFEIS(	4	0.22094	0.0	0.0
Gorasp1	0.494349	3.38E-32	71.297	GGEATWS(0.001)GS(0.008)EFEIS(	4	0.22094	0.0	0.0
Pex14	0.210996	5.39E-12	48.226	SPSPSSPAAVNHHS(0.071)S(0.211)	4	-0.36795	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	523
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	415
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	476
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	478
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	229
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	231
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	232
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	233
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	151
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	590;591
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	489;490
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	494;495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	349;350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	350;351
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	71
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	334
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	336
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	152
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	355
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	552
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	682
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	52
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	536
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	376
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	261



Pex14	0.210996	5.39E-12	48.226	SPSPSSPAAVNHHS(0.071)S(0.211)	4	-0.36795	0.0	0.0
Pex14	0.340511	1.12E-17	60.029	SPSPSSPAAVNHHS(0.027)S(0.085)	4	-0.52614	0.0	0.0
Pex14	0.390024	6.30E-33	68.234	SPSPSSPAAVNHHS(0.003)S(0.012)	4	-1.1524	0.0	0.0
Pex14	0.390024	6.30E-33	68.234	SPSPSSPAAVNHHS(0.003)S(0.012)	4	-1.1524	0.0	0.0
Fam102b	0.480086	5.81E-09	53.998	ILQSQDFS(0.11)LDS(0.48)S(0.409)	3	1.0986	0.0	0.0
Plec	0.499441	0.000219487	44.734	ES(0.001)ADPLS(0.499)S(0.499)W	3	0.18798	0.0	0.0
Plec	0.499441	0.000219487	44.734	ES(0.001)ADPLS(0.499)S(0.499)W	3	0.18798	0.0	0.0
Plec	0.488485	3.80E-33	99.409	S(0.001)S(0.001)S(0.003)VGS(0.48	3	-1.2089	0.0	0.0
Plec	0.485976	5.46E-105	208.66	RT(0.028)S(0.486)S(0.486)EDNLYL	2	-1.2386	0.0	0.0
Hcn4	0.425921	2.30E-08	43.088	AGGGS(0.426)GS(0.426)S(0.147)G	4	2.9023	0.0	0.0
Hcn4	0.425921	2.30E-08	43.088	AGGGS(0.426)GS(0.426)S(0.147)G	4	2.9023	0.0	0.0
Hcn4	0.487166	4.25E-52	113.73	ALGGS(0.012)LS(0.487)S(0.487)S(	3	-0.86426	0.0	0.0
Hcn4	0.487166	4.25E-52	113.73	ALGGS(0.012)LS(0.487)S(0.487)S(	3	-0.86426	0.0	0.0
Hcn4	0.413725	1.25E-17	72.916	KT(0.033)S(0.294)S(0.414)GS(0.26	3	-0.33068	0.0	0.0
Slc20a1	0.463767	6.29E-15	80.738	EVKS(0.108)S(0.425)PS(0.464)ES(C	4	0.68582	0.0	0.0
Ip6k1	0.166594	1.46E-12	48.655	HVDMGLPEVPPLCGPS(0.167)T(0.1	5	-0.1712	0.0	0.0
Ip6k1	0.166594	1.46E-12	48.655	HVDMGLPEVPPLCGPS(0.167)T(0.1	5	-0.1712	0.0	0.0
Ip6k1	0.166594	1.46E-12	48.655	HVDMGLPEVPPLCGPS(0.167)T(0.1	5	-0.1712	0.0	0.0
Ip6k1	0.166594	1.46E-12	48.655	HVDMGLPEVPPLCGPS(0.167)T(0.1	5	-0.1712	0.0	0.0
Crmp1	0.464049	1.29E-07	80.746	S(0.227)S(0.309)PS(0.464)KHQPPF	4	0.23784	0.0	0.0
Kcna2	0.470018	9.81E-09	58.479	ETEGEEQAQY(0.06)LQVT(0.47)S(0	3	0.4165	0.0	0.0
Pi4ka	0.332287	1.13E-14	84.859	T(0.332)S(0.332)S(0.332)VS(0.003	3	-0.092931	0.0	0.0
Pi4ka	0.492438	1.69E-38	81.532	YLTAS(0.005)QLVPPDNQDT(0.492	4	0.38093	0.0	0.0
Fam129a	0.449956	5.94E-58	109.65	HNLFEDNMALPS(0.45)ES(0.45)VS(	4	0.48978	0.0	0.0
Daxx	0.467843	8.03E-15	54.66	ISVLS(0.006)T(0.037)PS(0.468)S(0	2	-0.071095	0.0	0.0
Daxx	0.467843	8.03E-15	54.66	ISVLS(0.006)T(0.037)PS(0.468)S(0	2	-0.071095	0.0	0.0
Wdr91	0.368417	1.41E-06	42.347	LGDSELALVCS(0.179)QRPAS(0.368	4	1.5106	0.0	0.0
Mdc1	0.447309	1.50E-20	77.871	ETAVQEGS(0.105)S(0.447)S(0.447	2	-0.058516	0.0	0.0
Mdc1	0.447309	1.50E-20	77.871	ETAVQEGS(0.105)S(0.447)S(0.447	2	-0.058516	0.0	0.0
Mdc1	0.426838	1.54E-11	54.834	LFS(0.001)PVPEAS(0.102)AS(0.427	3	2.4022	0.0	0.0
Mdc1	0.257172	7.32E-13	43.392	S(0.257)S(0.257)T(0.257)RT(0.224	4	-1.5978	0.0	0.0
Mdc1	0.257172	7.32E-13	43.392	S(0.257)S(0.257)T(0.257)RT(0.224	4	-1.5978	0.0	0.0
Lzts2	0.241138	7.65E-11	40.602	AS(0.035)PGS(0.241)S(0.241)S(0.2	5	-0.23004	0.0	0.0
Lzts2	0.241138	7.65E-11	40.602	AS(0.035)PGS(0.241)S(0.241)S(0.2	5	-0.23004	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	262
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	268
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	325
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1360;1246;1217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1361;1247;1218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4393;4279;4250
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1126
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	918
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	919
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	367
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	369
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	371
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	524;638
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	434
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	198
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1375
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	576
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	660
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	661
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	200
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	549
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	550
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	804
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	885
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	886
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	304
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	305

Lzts2	0.241138	7.65E-11	40.602	AS(0.035)PGS(0.241)S(0.241)S(0.2	5	-0.23004	0.0	0.0
Lzts2	0.241138	7.65E-11	40.602	AS(0.035)PGS(0.241)S(0.241)S(0.2	5	-0.23004	0.0	0.0
Hbp1	0.498651	0.000316286	53.377	S(0.499)S(0.499)PVHIIAT(0.002)S(	3	-0.98311	0.0	0.0
Hbp1	0.498651	0.000316286	53.377	S(0.499)S(0.499)PVHIIAT(0.002)S(	3	-0.98311	0.0	0.0
Nup214	0.297684	6.51E-21	49.022	TGGFGAAPVFGS(0.103)PPT(0.298	4	-3.5594	0.0	0.0
Nup214	0.297684	6.51E-21	49.022	TGGFGAAPVFGS(0.103)PPT(0.298	4	-3.5594	0.0	0.0
Eif3m	0.395906	0.000531995	61.577	VVVS(0.229)HS(0.396)T(0.375)HR	3	-0.24318	0.0	0.0
Sntb2	0.321072	3.14E-33	76.573	KPSLVSDLPWEGAS(0.321)PQS(0.3	4	-0.89543	0.0	0.0
Sntb2	0.321072	3.14E-33	76.573	KPSLVSDLPWEGAS(0.321)PQS(0.3	4	-0.89543	0.0	0.0
Sntb2	0.321072	3.14E-33	76.573	KPSLVSDLPWEGAS(0.321)PQS(0.3	4	-0.89543	0.0	0.0
Sntb2	0.274431	6.07E-17	58.168	KPSLVSDLPWEGAS(0.168)PQS(0.1	5	-1.2986	0.0	0.0
Irs2	0.499527	6.94E-05	61.423	LCPS(0.001)LPAS(0.5)S(0.5)PK	3	-0.51274	0.0	0.0
Irs2	0.413059	5.16E-10	56.681	S(0.413)KS(0.413)QS(0.12)S(0.036	4	1.4899	0.0	0.0
Irs2	0.400802	4.30E-09	56.131	S(0.037)KS(0.144)QS(0.401)S(0.28	3	0.28753	0.0	0.0
Irs2	0.331979	3.02E-57	88.544	SSEGENSILGGS(0.002)DEPS(0.332)T	4	0.13091	0.0	0.0
Irs2	0.331979	3.02E-57	88.544	SSEGENSILGGS(0.002)DEPS(0.332)T	4	0.13091	0.0	0.0
Pcm1	0.495661	0.0396184	41.598	QAES(0.496)LS(0.496)LT(0.009)R	2	0.44795	0.0	0.0
Pcm1	0.300705	1.41E-05	40.986	TEY(0.001)MAFPKPFES(0.301)S(0.	3	0.56069	0.0	0.0
Pcm1	0.300705	1.41E-05	40.986	TEY(0.001)MAFPKPFES(0.301)S(0.	3	0.56069	0.0	0.0
Pcm1	0.300705	1.41E-05	40.986	TEY(0.001)MAFPKPFES(0.301)S(0.	3	0.56069	0.0	0.0
Vps54	0.205093	6.93E-07	40.625	NT(0.053)S(0.053)PHS(0.205)EPCS	3	1.2799	0.0	0.0
Pcyt1b	0.377376	2.95E-06	44.6	S(0.108)PS(0.41)PT(0.512)FS(0.37	4	0.12846	0.0	0.0
Pex5l	0.464723	1.61E-22	87.676	GPET(0.071)S(0.465)S(0.465)LDLD	4	-0.24387	0.0	0.0
Gng3	0.487973	4.44E-12	61.942	MKGET(0.201)PVNS(0.488)T(0.29:	4	0.89442	0.0	0.0
Gng3	0.458211	1.13E-23	92.913	MKGETPVNS(0.083)T(0.458)MS(0.	3	-0.93485	0.0	0.0
Elmsan1	0.467805	2.17E-08	46.15	S(0.468)NS(0.389)S(0.136)EVT(0.C	3	0.2647	0.0	0.0
Elmsan1	0.489467	2.36E-10	49.623	S(0.322)NS(0.489)S(0.183)EVT(0.C	3	0.71142	0.0	0.0
Nav2	0.41716	6.78E-05	46.514	S(0.001)PS(0.003)DAGRS(0.417)S(	3	-0.11288	0.0	0.0
Pou2f1	0.15568	2.07E-08	40.064	WLNDAENLS(0.057)S(0.156)DS(0.	3	1.8015	0.0	0.0
Pou2f1	0.15568	2.07E-08	40.064	WLNDAENLS(0.057)S(0.156)DS(0.	3	1.8015	0.0	0.0
Pou2f1	0.15568	2.07E-08	40.064	WLNDAENLS(0.057)S(0.156)DS(0.	3	1.8015	0.0	0.0
Pou2f1	0.15568	2.07E-08	40.064	WLNDAENLS(0.057)S(0.156)DS(0.	3	1.8015	0.0	0.0
Pou2f1	0.15568	2.07E-08	40.064	WLNDAENLS(0.057)S(0.156)DS(0.	3	1.8015	0.0	0.0
Zfp91	0.474368	2.40E-07	44.167	S(0.439)S(0.474)PS(0.14)NRPPDGI	4	0.65785	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	311
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	144
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	145
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1962
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1973
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	337
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	201
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	204
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	206
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	617
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	302
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1191
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1193
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	370
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	532
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	301
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	140
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	9
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	12
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	690
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	692
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	772
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	381
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	383
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	386
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	387
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	389
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	83

Son	0.287796	1.02E-49	82.808	VLEPS(0.001)ET(0.009)LT(0.028)IV	4	0.66597	0.0	0.0
Son	0.166497	1.02E-49	82.808	VLEPSETLT(0.001)IVS(0.166)ET(0.1	5	0.66753	0.0	0.0
Son	0.166497	1.02E-49	82.808	VLEPSETLT(0.001)IVS(0.166)ET(0.1	5	0.66753	0.0	0.0
Pcnx	0.333801	0.00411294	54.286	T(0.332)T(0.334)S(0.334)AHKPGR	3	1.5223	0.0	0.0
Map3k2	0.498355	1.04E-30	86.508	DRS(0.498)S(0.498)PPPGY(0.003)I	4	0.87306	0.0	0.0
Map3k2	0.179309	5.41E-08	44.164	SPVSFSPT(0.001)DHS(0.005)LS(0.C	4	-1.865	0.0	0.0
Map3k2	0.179309	5.41E-08	44.164	SPVSFSPT(0.001)DHS(0.005)LS(0.C	4	-1.865	0.0	0.0
Map3k2	0.179309	5.41E-08	44.164	SPVSFSPT(0.001)DHS(0.005)LS(0.C	4	-1.865	0.0	0.0
Map3k2	0.179309	5.41E-08	44.164	SPVSFSPT(0.001)DHS(0.005)LS(0.C	4	-1.865	0.0	0.0
Megf10	0.225936	5.60E-12	51.783	NSEYNS(0.001)S(0.002)T(0.004)CS	5	0.20489	0.0	0.0
Megf10	0.225936	5.60E-12	51.783	NSEYNS(0.001)S(0.002)T(0.004)CS	5	0.20489	0.0	0.0
Megf10	0.225936	5.60E-12	51.783	NSEYNS(0.001)S(0.002)T(0.004)CS	5	0.20489	0.0	0.0
Megf10	0.225936	5.60E-12	51.783	NSEYNS(0.001)S(0.002)T(0.004)CS	5	0.20489	0.0	0.0
Fry	0.473163	1.32E-06	50.831	LLLPGS(0.473)S(0.473)PS(0.039)S(	4	-2.3026	0.0	0.0
Fry	0.49705	7.11E-08	43.903	NPS(0.004)VIFS(0.497)S(0.497)CG	3	1.7147	0.0	0.0
Fry	0.424509	4.40E-42	108.14	S(0.034)AS(0.425)S(0.425)T(0.093	4	0.4956	0.0	0.0
Kdm2b	0.493431	2.77E-09	70.089	VISRPPPS(0.013)T(0.493)S(0.493)F	4	0.49656	0.0	0.0
Zc3h13	0.432507	0.00927532	40.767	T(0.433)S(0.433)CHT(0.135)PGQE	3	-0.028437	0.0	0.0
Zfp423	0.375009	1.19E-05	45.221	S(0.027)KAEQS(0.218)PVS(0.375)S	4	0.37049	0.0	0.0
Zfp423	0.375009	1.19E-05	45.221	S(0.027)KAEQS(0.218)PVS(0.375)S	4	0.37049	0.0	0.0
Stt3b	0.479825	6.51E-13	62.707	S(0.48)S(0.48)LNS(0.028)S(0.013)F	3	1.055	0.0	0.0
Stt3b	0.479825	6.51E-13	62.707	S(0.48)S(0.48)LNS(0.028)S(0.013)F	3	1.055	0.0	0.0
Cdk5rap2	0.328809	2.03E-14	79.346	AAHPGT(0.329)S(0.329)S(0.329)P!	3	0.24962	0.0	0.0
Cdk5rap2	0.328809	2.03E-14	79.346	AAHPGT(0.329)S(0.329)S(0.329)P!	3	0.24962	0.0	0.0
RGD13117	0.498397	2.71E-101	157.88	SAS(0.003)PDDDLGS(0.498)S(0.49	3	1.1323	0.0	0.0
RGD13117	0.498397	2.71E-101	157.88	SAS(0.003)PDDDLGS(0.498)S(0.49	3	1.1323	0.0	0.0
Ptpn13	0.499675	2.23E-21	106.6	AIS(0.5)T(0.5)GS(0.001)LASSTFNK	3	-0.57185	0.0	0.0
Ptpn13	0.331781	0.00010067	60.364	S(0.255)S(0.332)T(0.332)S(0.08)D,	3	-0.63147	0.0	0.0
Pus7	0.245141	1.72E-14	48.392	VSEGCVT(0.009)NS(0.245)PDGVE!	4	0.89561	0.0	0.0
Pus7	0.245141	1.72E-14	48.392	VSEGCVT(0.009)NS(0.245)PDGVE!	4	0.89561	0.0	0.0
Pus7	0.245141	1.72E-14	48.392	VSEGCVT(0.009)NS(0.245)PDGVE!	4	0.89561	0.0	0.0
Gnl3	0.499093	3.46E-33	81.884	KLEISPDDEQS(0.499)NVET(0.499)(	4	-0.39899	0.0	0.0
Lrp1	0.49895	0.000500071	56.02	HS(0.002)LAS(0.499)T(0.499)DEKF	4	-0.84401	0.0	0.0
Psip1	0.249961	1.45E-22	65.428	QSNASSDVEAEKET(0.25)S(0.25)V	4	-1.0539	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	557
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	164
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	311
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	315
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1022
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1024
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1025
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1026
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2419
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2367
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1000
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1701
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	634
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	635
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	13
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	14
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1787
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1788
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	24
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	901
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	40
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	48
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4524
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116

Psip1	0.249961	1.45E-22	65.428	QSNASSDVEAEKET(0.25)S(0.25)V	4	-1.0539	0.0	0.0
Psip1	0.438458	1.96E-23	68.657	QS(0.123)NAS(0.438)S(0.438)DVE	5	-3.5634	0.0	0.0
Psip1	0.455721	2.10E-63	114.68	QVDTEEAGVVT(0.054)AAT(0.17)A	3	-0.56512	0.0	0.0
Gas7	0.333268	8.30E-07	53.981	STGDSQNLGS(0.333)S(0.333)S(0.3	2	-0.031083	0.0	0.0
Myo18a	0.375323	4.87E-31	74.321	GSIIILDS(0.001)GHLS(0.097)T(0.04	4	-0.11976	0.0	0.0
Myo18a	0.375323	4.87E-31	74.321	GSIIILDS(0.001)GHLS(0.097)T(0.04	4	-0.11976	0.0	0.0
Prkcb	0.499053	4.81E-10	48.077	NIDQS(0.002)EFEGFS(0.499)FVNSI	3	1.6097	0.0	0.0
Ap1f	0.325323	1.39E-26	66.58	S(0.001)QGCHPES(0.149)S(0.539)!	4	-1.4105	0.0	0.0
Ap1f	0.281971	1.39E-26	66.58	SQGCHPES(0.001)S(0.004)S(0.029	4	0.01066	0.0	0.0
Ap1f	0.281971	1.39E-26	66.58	SQGCHPES(0.001)S(0.004)S(0.029	4	0.01066	0.0	0.0
Tle1	0.286776	0.000105052	43.208	DAS(0.002)GS(0.017)PAS(0.287)T(	2	0.93736	0.0	0.0
Tle1	0.286776	0.000105052	43.208	DAS(0.002)GS(0.017)PAS(0.287)T(	2	0.93736	0.0	0.0
Aak1	0.381663	1.56E-08	45.666	REQGSSGLGS(0.008)GS(0.055)S(0.	4	-0.038993	0.0	0.0
Aak1	0.482442	9.52E-08	68.243	S(0.065)KS(0.482)AT(0.298)T(0.16	3	1.013	0.0	0.0
Top2b	0.491752	1.57E-05	44.998	VVEPANS(0.016)DS(0.492)DS(0.49	3	0.43931	0.0	0.0
Mtmt10	0.498179	0.000400858	52.576	IWLS(0.498)T(0.498)ET(0.004)LAN	2	-0.95161	0.0	0.0
Trappc10	0.486628	0.000444394	44.612	GSAHS(0.004)T(0.023)S(0.487)S(0	3	-0.53096	0.0	0.0
Trappc10	0.486628	0.000444394	44.612	GSAHS(0.004)T(0.023)S(0.487)S(0	3	-0.53096	0.0	0.0
LOC10369	0.492963	4.47E-11	66.215	VLANS(0.006)NPS(0.493)S(0.493	3	1.6266	0.0	0.0
LOC10369	0.492963	4.47E-11	66.215	VLANS(0.006)NPS(0.493)S(0.493	3	1.6266	0.0	0.0
Ngfr	0.329346	1.53E-07	58.885	ADIVESLCS(0.001)ES(0.011)T(0.32	2	-1.1689	0.0	0.0
Ngfr	0.454157	1.15E-78	102.21	LHSDSGIS(0.001)VDS(0.454)QS(0.	5	0.36719	0.0	0.0
Ngfr	0.454157	1.15E-78	102.21	LHSDSGIS(0.001)VDS(0.454)QS(0.	5	0.36719	0.0	0.0
Aldoa	0.4972	4.77E-66	96.052	TVPPAVPGVT(0.004)FLS(0.497)GG	4	0.71091	0.0	0.0
Aldoa	0.4972	4.77E-66	96.052	TVPPAVPGVT(0.004)FLS(0.497)GG	4	0.71091	0.0	0.0
Aldoa	0.396066	1.68E-11	46.862	TVPPAVPGVT(0.104)FLS(0.104)GG	5	2.6183	0.0	0.0
Aldoa	0.431711	7.62E-12	58.272	YTPSGQSGAAAS(0.261)ES(0.261)L	3	-0.35687	0.0	0.0
Cenpv	0.498761	1.26E-05	50.358	AGGGGGAASS(0.002)QLS(0.499)S	3	-0.80095	0.0	0.0
Cenpv	0.498761	1.26E-05	50.358	AGGGGGAASS(0.002)QLS(0.499)S	3	-0.80095	0.0	0.0
Pitpnc1	0.450835	1.91E-10	48.616	SAPS(0.001)S(0.002)APS(0.01)T(0.	3	0.96669	0.0	0.0
lqce	0.476111	2.51E-07	54.768	S(0.262)S(0.262)S(0.476)HGHVSG	3	1.4646	0.0	0.0
Mia3	0.33332	1.12E-151	131.08	GLLSQNGSFGPS(0.333)PVS(0.333)	6	-0.027391	0.0	0.0
Mia3	0.33332	1.12E-151	131.08	GLLSQNGSFGPS(0.333)PVS(0.333)	6	-0.027391	0.0	0.0
Mia3	0.359247	1.45E-05	46.953	HSASDPGPPPVVNS(0.359)S(0.359	3	0.70087	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	118
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	171
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	97
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	664
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	354
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	355
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	359
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	185
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	26
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	671
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1514
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	681
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	194
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	195
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	272
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	276
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	281
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	360
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	52
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	53
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	281
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	130
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1688
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1691
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1755

Mia3	0.422462	4.08E-12	62.792	HSASDPGPPPVVNS(0.289)S(0.422	3	0.19153	0.0	0.0
Bod111	0.46545	6.48E-17	73.918	AGS(0.06)VS(0.465)S(0.465)EDVD	2	0.47131	0.0	0.0
Bod111	0.46545	6.48E-17	73.918	AGS(0.06)VS(0.465)S(0.465)EDVD	2	0.47131	0.0	0.0
Dgkh	0.311642	6.10E-12	47.383	VMDEQT(0.005)VQPCEPVS(0.312)	6	1.7238	0.0	0.0
Dgkh	0.311642	6.10E-12	47.383	VMDEQT(0.005)VQPCEPVS(0.312)	6	1.7238	0.0	0.0
Nek3	0.394398	1.70E-07	49.188	AS(0.001)ILT(0.099)S(0.394)S(0.39	4	0.27341	0.0	0.0
Nek3	0.394398	1.70E-07	49.188	AS(0.001)ILT(0.099)S(0.394)S(0.39	4	0.27341	0.0	0.0
RGD15620	0.491776	0.00151063	41.227	DQQT(0.012)QT(0.492)S(0.492)FP	3	-1.1348	0.0	0.0
RGD15620	0.477096	3.77E-09	56.681	GLS(0.477)T(0.477)PNFPS(0.046)L	3	2.6029	0.0	0.0
RGD15620	0.498904	1.07E-21	78.326	VES(0.002)HAS(0.499)S(0.499)PQI	3	-0.066986	0.0	0.0
RGD15620	0.498904	1.07E-21	78.326	VES(0.002)HAS(0.499)S(0.499)PQI	3	-0.066986	0.0	0.0
Tmx3	0.227165	3.34E-09	45.558	SEMENQEQIEES(0.064)KEQES(0.2	5	2.8668	0.0	0.0
Tmx3	0.227165	3.34E-09	45.558	SEMENQEQIEES(0.064)KEQES(0.2	5	2.8668	0.0	0.0
Tmx3	0.227165	3.34E-09	45.558	SEMENQEQIEES(0.064)KEQES(0.2	5	2.8668	0.0	0.0
Tmx3	0.227165	3.34E-09	45.558	SEMENQEQIEES(0.064)KEQES(0.2	5	2.8668	0.0	0.0
Epb4112	0.325637	5.37E-16	53.794	AKEVVENEQT(0.013)AAS(0.326)EL	4	0.21617	0.0	0.0
Epb4112	0.329219	1.44E-70	95.002	ASQPGPT(0.014)AES(0.329)QS(0.3	3	-0.00078867	0.0	0.0
Epb4112	0.499591	2.29E-43	98.543	VTPLSCQILAS(0.5)S(0.5)HET(0.001	3	-1.905	0.0	0.0
Kif7	0.483346	6.56E-38	137.69	S(0.483)GS(0.483)NGS(0.033)VVSI	3	-0.14295	0.0	0.0
Kif7	0.483346	6.56E-38	137.69	S(0.483)GS(0.483)NGS(0.033)VVSI	3	-0.14295	0.0	0.0
Pcnx13	0.353036	0.00489389	73.841	T(0.257)PS(0.353)T(0.353)AS(0.03	2	0.34429	0.0	0.0
Alpk1	0.49966	5.63E-30	85.563	SSFGLT(0.001)GQT(0.5)S(0.5)QEI	3	-0.57083	0.0	0.0
Fam102a	0.426366	2.14E-22	76.176	GGGTSSGGS(0.001)S(0.019)S(0.42	3	-0.26309	0.0	0.0
Lpar5	0.332845	5.15E-16	65.184	GELT(0.001)EPPS(0.333)ES(0.333)	3	1.1522	0.0	0.0
Lpar5	0.332845	5.15E-16	65.184	GELT(0.001)EPPS(0.333)ES(0.333)	3	1.1522	0.0	0.0
Fbxo10	0.219985	3.90E-15	57.802	TCDIVIEGSQS(0.049)PT(0.17)S(0.1	3	0.97957	0.0	0.0
Phactr4	0.489798	2.79E-60	163	RPLS(0.49)S(0.49)S(0.02)DEGNEG	3	0.5031	0.0	0.0
Phactr4	0.24954	6.68E-12	50.413	TVSLCLEPPLT(0.25)IPPS(0.25)S(0.2	4	0.53981	0.0	0.0
Phactr4	0.24954	6.68E-12	50.413	TVSLCLEPPLT(0.25)IPPS(0.25)S(0.2	4	0.53981	0.0	0.0
Phactr4	0.24954	6.68E-12	50.413	TVSLCLEPPLT(0.25)IPPS(0.25)S(0.2	4	0.53981	0.0	0.0
Sun2	0.196786	8.03E-16	59.359	YSQDDNDGS(0.014)S(0.197)S(0.19	3	1.2644	0.0	0.0
Sun2	0.196786	8.03E-16	59.359	YSQDDNDGS(0.014)S(0.197)S(0.19	3	1.2644	0.0	0.0
Sun2	0.196786	8.03E-16	59.359	YSQDDNDGS(0.014)S(0.197)S(0.19	3	1.2644	0.0	0.0
Sun2	0.196786	8.03E-16	59.359	YSQDDNDGS(0.014)S(0.197)S(0.19	3	1.2644	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1756
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1684
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1685
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	647
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	649
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	332
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	564
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	901
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	414
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	415
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	434
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	435
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	436
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	439
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39;39;39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55;55;55
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	674
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	891
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	893
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	493
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	952
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	187
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	175
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	341
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	343
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	21
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25

Sun2	0.196786	8.03E-16	59.359	YSQDDNDGS(0.014)S(0.197)S(0.197)	3	1.2644	0.0	0.0
Arhgap42	0.477041	0.00731262	58.172	RS(0.477)S(0.477)AS(0.021)S(0.021)	2	0.28912	0.0	0.0
Arhgap42	0.490476	0.00178662	84.615	S(0.074)S(0.019)AS(0.151)S(0.266)	2	0.019287	0.0	0.0
Cbl	0.455478	8.47E-43	132.73	IKPS(0.089)S(0.455)S(0.455)ANAIY	3	-0.71856	0.0	0.0
Stac	0.389749	0.00347554	42.947	KS(0.008)S(0.103)S(0.103)GS(0.103)	2	0.3342	0.0	0.0
Stac	0.38455	2.30E-06	45.579	S(0.12)NS(0.385)VFT(0.12)Y(0.282)	3	1.1028	0.0	0.0
Phf6	0.284497	7.42E-06	52.19	S(0.284)T(0.284)S(0.244)S(0.187)T	3	-0.13054	0.0	0.0
Phf6	0.404921	1.98E-17	71.592	S(0.013)T(0.013)S(0.405)S(0.405)T	3	-0.23219	0.0	0.0
Phf6	0.404921	1.98E-17	71.592	S(0.013)T(0.013)S(0.405)S(0.405)T	3	-0.23219	0.0	0.0
LOC10036	0.440174	0.0567798	44.318	S(0.225)S(0.225)IS(0.44)S(0.11)VL	2	2.1206	0.0	0.0
Ube2o	0.293937	9.24E-12	49.707	EEPEDVGMT(0.294)PGEAS(0.294)	4	0.14962	0.0	0.0
RGD13100	0.323512	3.77E-59	93.949	AIGSGES(0.004)ET(0.324)PPS(0.324)	3	1.6616	0.0	0.0
LOC10036	0.499816	5.60E-17	61.488	NSGSSPEAAGVPAS(0.5)VS(0.5)PPC	3	1.4084	0.0	0.0
LOC10036	0.499816	5.60E-17	61.488	NSGSSPEAAGVPAS(0.5)VS(0.5)PPC	3	1.4084	0.0	0.0
Bai1	0.459583	5.16E-15	84.94	NENVAT(0.003)LS(0.083)VS(0.46)S	3	1.0442	0.0	0.0
Glcci1	0.354691	2.86E-18	70.345	RT(0.355)S(0.355)S(0.265)LDT(0.0)	3	0.48533	0.0	0.0
Kalrn	0.495513	1.02E-57	103.73	SESVANLQSQPS(0.496)LNS(0.496)	3	-1.2272	0.0	0.0
Kalrn	0.495513	1.02E-57	103.73	SESVANLQSQPS(0.496)LNS(0.496)	3	-1.2272	0.0	0.0
Ablim2	0.340733	1.32E-20	78.272	T(0.085)S(0.1)S(0.341)ES(0.46)IVS	2	-0.61413	0.0	0.0
Ablim2	0.442058	3.04E-26	76.208	T(0.143)NS(0.442)PDLDS(0.325)Q	3	1.1768	0.0	0.0
Ablim2	0.346084	2.57E-07	47.648	T(0.031)S(0.031)S(0.088)PS(0.346)	3	-0.10351	0.0	0.0
Ablim2	0.346084	2.57E-07	47.648	T(0.031)S(0.031)S(0.088)PS(0.346)	3	-0.10351	0.0	0.0
LOC10036	0.499879	1.29E-58	116.74	LLDFGS(0.5)LS(0.5)NLQVTQPTVGM	4	-0.77996	0.0	0.0
Coil	0.355706	1.49E-07	70.438	LIIDS(0.003)S(0.022)S(0.161)S(0.161)	3	-0.35699	0.0	0.0
Coil	0.355706	1.49E-07	70.438	LIIDS(0.003)S(0.022)S(0.161)S(0.161)	3	-0.35699	0.0	0.0
Rab13	0.285798	8.29E-07	61.495	S(0.286)GNS(0.286)S(0.286)KPS(0.286)	3	0.2466	0.0	0.0
Rab13	0.285798	8.29E-07	61.495	S(0.286)GNS(0.286)S(0.286)KPS(0.286)	3	0.2466	0.0	0.0
Sh3kbp1	0.473334	3.61E-12	45.803	RPPSQSLTSS(0.001)S(0.002)LS(0.002)	5	-1.3745	0.0	0.0
Xpo1	0.474066	3.10E-15	57.985	ES(0.001)PFS(0.006)T(0.042)S(0.42)	4	2.7091	0.0	0.0
Xpo1	0.473395	1.75E-06	41.256	ESPFS(0.001)T(0.002)S(0.006)AS(C	3	-0.79657	0.0	0.0
Xpo1	0.473395	1.75E-06	41.256	ESPFS(0.001)T(0.002)S(0.006)AS(C	3	-0.79657	0.0	0.0
Ptprn	0.499421	0.0645483	51.346	VES(0.499)S(0.499)PS(0.001)R	2	0.0021679	0.0	0.0
Ptprn	0.499421	0.0645483	51.346	VES(0.499)S(0.499)PS(0.001)R	2	0.0021679	0.0	0.0
Disp2	0.24323	7.69E-07	41.115	DLLLDHQT(0.009)VFS(0.243)QCPA	5	1.9614	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	26
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	680
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	684
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	667
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	223
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	256
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	104
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466;495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	994
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	251
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	253
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1741
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1744
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	280
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477;540
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	367;397
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	368;398
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	567
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	568
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	323
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	329
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	761
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	762
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1172

Disp2	0.325782	4.49E-20	64.522	DLLLDHQTVFS(0.004)QCPALQT(0.	4	2.3919	0.0	0.0
Disp2	0.471776	4.49E-20	64.522	DLLLDHQT(0.001)VFS(0.179)QCPA	3	0.44308	0.0	0.0
Mylk	0.440101	3.44E-08	60.062	KS(0.44)S(0.44)T(0.112)GS(0.008)	4	0.78963	0.0	0.0
Mylk	0.495922	1.04E-15	105.53	LS(0.496)S(0.496)MAMIS(0.008)G	2	0.38576	0.0	0.0
Mylk	0.495922	1.04E-15	105.53	LS(0.496)S(0.496)MAMIS(0.008)G	2	0.38576	0.0	0.0
Mylk	0.498681	1.27E-32	107.97	S(0.499)S(0.499)LT(0.003)PVLGTE	3	-0.068529	0.0	0.0
Mylk	0.498681	1.27E-32	107.97	S(0.499)S(0.499)LT(0.003)PVLGTE	3	-0.068529	0.0	0.0
Akap9	0.454572	3.84E-08	52.898	LSALEEELHS(0.455)QRGS(0.455)P1	4	-0.63059	0.0	0.0
Akap9	0.454572	3.84E-08	52.898	LSALEEELHS(0.455)QRGS(0.455)P1	4	-0.63059	0.0	0.0
Tlk2	0.482105	0.00278384	42.947	S(0.121)S(0.361)PQHS(0.482)LS(0.	2	1.3362	0.0	0.0
Tmem104	0.495817	5.02E-07	75.018	RS(0.496)S(0.496)AS(0.008)LFEITE	3	0.43331	0.0	0.0
Tmem104	0.495817	5.02E-07	75.018	RS(0.496)S(0.496)AS(0.008)LFEITE	3	0.43331	0.0	0.0
Tmem104	0.364097	1.03E-05	69.209	S(0.313)S(0.313)AS(0.364)LFEIT(0.	2	0.28344	0.0	0.0
Dopey2	0.412526	8.89E-07	44.054	NIFAAS(0.038)LT(0.413)VS(0.413)I	4	-0.43894	0.0	0.0
Dopey2	0.488682	2.69E-37	105.51	SEDSGIGLS(0.022)AS(0.489)S(0.48	3	-0.43129	0.0	0.0
Baz1b	0.383562	2.05E-07	45.099	KS(0.001)DGT(0.002)CDS(0.033)P!	5	-0.30446	0.0	0.0
Baz1b	0.383562	2.05E-07	45.099	KS(0.001)DGT(0.002)CDS(0.033)P!	5	-0.30446	0.0	0.0
Baz1b	0.472564	2.35E-25	69.779	SDGTCDS(0.003)PS(0.026)S(0.026	4	-0.23166	0.0	0.0
Baz1b	0.472564	2.35E-25	69.779	SDGTCDS(0.003)PS(0.026)S(0.026	4	-0.23166	0.0	0.0
Limch1	0.448895	1.01E-23	96.247	RQNT(0.192)PLQENDS(0.449)DS(C	3	0.105	0.0	0.0
Spata13	0.39994	0.000281827	62.68	RT(0.4)S(0.4)S(0.081)S(0.12)VEPD.	3	0.8423	0.0	0.0
Lrrc16a	0.437745	3.40E-19	72.316	TASKPEDTPDS(0.007)PS(0.118)GP	4	-0.26923	0.0	0.0
Ablim3	0.421961	2.93E-13	67.217	S(0.053)GPES(0.947)GRS(0.422)S(	3	0.40317	0.0	0.0
Ablim3	0.361406	1.66E-06	50.005	S(0.002)GPES(0.025)GRS(0.361)S(	4	0.1408	0.0	0.0
Zfyve16	0.165148	1.23E-12	47.319	SNHSNECVT(0.004)AQPLQET(0.16	6	-1.3343	0.0	0.0
Zfyve16	0.165148	1.23E-12	47.319	SNHSNECVT(0.004)AQPLQET(0.16	6	-1.3343	0.0	0.0
Zfyve16	0.165148	1.23E-12	47.319	SNHSNECVT(0.004)AQPLQET(0.16	6	-1.3343	0.0	0.0
Synpo2	0.33982	2.03E-06	42.068	APPPVAY(0.021)NPIHS(0.34)PS(0.	4	0.93415	0.0	0.0
Synpo2	0.33982	2.03E-06	42.068	APPPVAY(0.021)NPIHS(0.34)PS(0.	4	0.93415	0.0	0.0
Synpo2	0.157638	2.09E-18	50.224	ASSVYSVPAY(0.046)T(0.158)S(0.1!	4	-0.66826	0.0	0.0
Synpo2	0.157638	2.09E-18	50.224	ASSVYSVPAY(0.046)T(0.158)S(0.1!	4	-0.66826	0.0	0.0
Synpo2	0.157638	2.09E-18	50.224	ASSVYSVPAY(0.046)T(0.158)S(0.1!	4	-0.66826	0.0	0.0
Synpo2	0.157638	2.09E-18	50.224	ASSVYSVPAY(0.046)T(0.158)S(0.1!	4	-0.66826	0.0	0.0
Ddx20	0.230096	9.36E-14	69.188	AAMHT(0.007)YS(0.23)S(0.161)PS	3	0.11366	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1806
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1793
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1794
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	862
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	858
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	122
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	649
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	596
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	160
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	161
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	166
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	167
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	723;737
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1295
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	408
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	409
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	848
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	849
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	852
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	928
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	930
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1031
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1041
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1044
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1046
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	463



Ddx20	0.284881	1.68E-13	68.972	AAMHT(0.001)YS(0.013)S(0.071)P	4	-0.01197	0.0	0.0
Ddx20	0.451874	2.17E-24	95.264	AAMHTYSS(0.002)PS(0.008)IS(0.4	4	-1.4096	0.0	0.0
Ryr2	0.441229	4.60E-06	86.756	DGPSPT(0.003)S(0.441)GS(0.441)S	2	0.27337	0.0	0.0
Ryr2	0.497991	4.56E-20	65.244	QS(0.498)S(0.498)MDS(0.004)EGN	4	0.21267	0.0	0.0
Slc37a2	0.212776	8.75E-07	43.241	DNPEDPVNS(0.082)PY(0.063)S(0.2	4	0.31084	0.0	0.0
Slc37a2	0.212776	8.75E-07	43.241	DNPEDPVNS(0.082)PY(0.063)S(0.2	4	0.31084	0.0	0.0
Slc37a2	0.212776	8.75E-07	43.241	DNPEDPVNS(0.082)PY(0.063)S(0.2	4	0.31084	0.0	0.0
Ago1	0.439573	3.45E-08	41.936	YHLVDKEHDS(0.44)GEGS(0.071)HI	5	-4.0355	0.0	0.0
Plekhm2	0.434803	1.22E-06	96.059	STAS(0.09)DLT(0.435)S(0.435)S(0.	2	0.024838	0.0	0.0
Trip11	0.229835	1.80E-10	50.255	LDS(0.001)MS(0.004)PQLS(0.23)P	3	2.2174	0.0	0.0
Trip11	0.229835	1.80E-10	50.255	LDS(0.001)MS(0.004)PQLS(0.23)P	3	2.2174	0.0	0.0
Trip11	0.229835	1.80E-10	50.255	LDS(0.001)MS(0.004)PQLS(0.23)P	3	2.2174	0.0	0.0
Srgap1	0.423006	1.65E-15	63.225	NS(0.001)PT(0.009)PAT(0.113)S(0	3	-1.1302	0.0	0.0
Srgap1	0.302674	1.30E-19	75.224	S(0.303)T(0.303)S(0.303)S(0.073)S	4	-0.018198	0.0	0.0
Srgap1	0.447739	1.30E-19	75.224	S(0.099)T(0.099)S(0.448)S(0.115)S	3	-0.38025	0.0	0.0
Lrrk2	0.482522	1.54E-06	74.89	QS(0.018)DS(0.187)S(0.298)S(0.4E	2	-2.7136	0.0	0.0
Pard3b	0.499696	9.56E-12	62.055	ANS(0.001)PEGEES(0.5)PS(0.5)PQ	3	-0.19159	0.0	0.0
Pard3b	0.429601	9.29E-13	68.952	KPS(0.122)S(0.43)PS(0.43)LS(0.01	3	1.9997	0.0	0.0
Pard3b	0.429601	9.29E-13	68.952	KPS(0.122)S(0.43)PS(0.43)LS(0.01	3	1.9997	0.0	0.0
Pard3b	0.499542	5.88E-15	82.265	S(0.5)DS(0.5)PGKDFGPT(0.001)LG	3	1.3954	0.0	0.0
Pard3b	0.499701	4.08E-49	78.801	RS(0.5)S(0.5)DPAPGPHADAQPSTA	6	0.16995	0.0	0.0
Pard3b	0.499701	4.08E-49	78.801	RS(0.5)S(0.5)DPAPGPHADAQPSTA	6	0.16995	0.0	0.0
Tns1	0.481144	2.14E-59	98.636	LVIPSRDPT(0.01)DES(0.027)KDS(0	4	-0.21777	0.0	0.0
Tns1	0.481144	2.14E-59	98.636	LVIPSRDPT(0.01)DES(0.027)KDS(0	4	-0.21777	0.0	0.0
Tns1	0.123786	3.23E-31	64.221	NGTPGGSFVS(0.001)PS(0.004)PLS	4	-1.7492	0.0	0.0
Tns1	0.123786	3.23E-31	64.221	NGTPGGSFVS(0.001)PS(0.004)PLS	4	-1.7492	0.0	0.0
Tns1	0.123786	3.23E-31	64.221	NGTPGGSFVS(0.001)PS(0.004)PLS	4	-1.7492	0.0	0.0
Tns1	0.123786	3.23E-31	64.221	NGTPGGSFVS(0.001)PS(0.004)PLS	4	-1.7492	0.0	0.0
Tns1	0.123786	3.23E-31	64.221	NGTPGGSFVS(0.001)PS(0.004)PLS	4	-1.7492	0.0	0.0
Tns1	0.123786	3.23E-31	64.221	NGTPGGSFVS(0.001)PS(0.004)PLS	4	-1.7492	0.0	0.0
Tns1	0.415564	1.48E-30	63.698	QS(0.167)S(0.416)AS(0.416)GYQA	3	1.2497	0.0	0.0
Tns1	0.167967	1.19E-18	49.77	QSSASGY(0.001)QAPS(0.168)T(0.1	4	1.995	0.0	0.0
Tns1	0.191337	4.61E-24	57.783	QSSASGY(0.002)QAPS(0.074)T(0.1	4	0.38815	0.0	0.0
Tns1	0.191337	4.61E-24	57.783	QSSASGY(0.002)QAPS(0.074)T(0.1	4	0.38815	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	468
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2358
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2685
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	263
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	264
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	267
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	822
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	257
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1311
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1315
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	942
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	964
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	966
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	974
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	286
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	670
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	82
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	83
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1735
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1736
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1232
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1233
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1237
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1240
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1501
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1504
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1508

Tns1	0.482929	7.51E-24	54.338	QSSASGYQAPSTPS(0.002)FPVS(0.0	4	0.28001	0.0	0.0
Tns1	0.317945	9.96E-18	57.981	QVMGPGSGPGFHGNVVS(0.001)GH	5	-0.021479	0.0	0.0
Tns1	0.410381	5.88E-15	50.464	S(0.005)PAS(0.005)S(0.014)T(0.01	4	-0.7956	0.0	0.0
Tns1	0.410381	5.88E-15	50.464	S(0.005)PAS(0.005)S(0.014)T(0.01	4	-0.7956	0.0	0.0
Tns1	0.453261	1.28E-79	102.48	S(0.102)QS(0.453)VPGAWPGAS(0.	4	0.6517	0.0	0.0
Tns1	0.329321	4.94E-13	52.17	SQSVPGAWPGAS(0.329)PLS(0.329	4	1.4866	0.0	0.0
Tns1	0.329321	4.94E-13	52.17	SQSVPGAWPGAS(0.329)PLS(0.329	4	1.4866	0.0	0.0
Tns1	0.329321	4.94E-13	52.17	SQSVPGAWPGAS(0.329)PLS(0.329	4	1.4866	0.0	0.0
Tns1	0.452266	1.48E-42	79.512	VSSSPVANGMAS(0.452)PS(0.125)G	4	0.30272	0.0	0.0
Tns1	0.169776	3.77E-32	70.718	VSSSPVANGMAS(0.17)PS(0.17)GS	3	0.57263	0.0	0.0
Tns1	0.169776	3.77E-32	70.718	VSSSPVANGMAS(0.17)PS(0.17)GS	3	0.57263	0.0	0.0
Tns1	0.169776	3.77E-32	70.718	VSSSPVANGMAS(0.17)PS(0.17)GS	3	0.57263	0.0	0.0
Tns1	0.164705	3.77E-32	70.718	VSSSPVANGMAS(0.165)PS(0.165)G	5	0.62163	0.0	0.0
Tns1	0.136417	1.65E-11	47.73	VSSSPVANGMAS(0.136)PS(0.136)G	4	0.31017	0.0	0.0
Tns1	0.346793	1.55E-15	54.12	VVPVHSS(0.001)HS(0.011)APIRPS(	5	0.074508	0.0	0.0
Tns1	0.346793	1.55E-15	54.12	VVPVHSS(0.001)HS(0.011)APIRPS(	5	0.074508	0.0	0.0
Mtss1l	0.371557	1.05E-05	40.492	GSDY(0.001)S(0.001)WS(0.01)Y(0.	3	-0.96362	0.0	0.0
Mtss1l	0.197732	1.74E-12	48.655	LSSVSSHDS(0.002)GFVS(0.198)QD	4	0.82938	0.0	0.0
Mtss1l	0.197732	1.74E-12	48.655	LSSVSSHDS(0.002)GFVS(0.198)QD	4	0.82938	0.0	0.0
Mtss1l	0.28987	4.92E-33	70.701	LSSVSSHDSGFVS(0.065)QDAT(0.2:	5	0.096717	0.0	0.0
Fam120a	0.328522	8.82E-05	43.557	VEGS(0.001)S(0.003)T(0.01)AS(0.3	3	-0.24209	0.0	0.0
Trpm3	0.467763	0.00144122	55.314	AT(0.059)S(0.468)S(0.468)HS(0.00	3	-0.87601	0.0	0.0
Trpm3	0.439331	2.85E-05	51.566	EAELS(0.002)HPS(0.439)S(0.439)D	2	0.34303	0.0	0.0
Shc4	0.499728	3.42E-28	69.197	GS(0.5)S(0.5)PPPYAALTPHLPAEDA	5	0.23464	0.0	0.0
Shc4	0.499728	3.42E-28	69.197	GS(0.5)S(0.5)PPPYAALTPHLPAEDA	5	0.23464	0.0	0.0
Frmd4a	0.332559	1.35E-06	47.548	AAGALGS(0.002)AS(0.333)S(0.333	3	-0.83786	0.0	0.0
Frmd4a	0.32682	1.19E-33	81.144	IISGSSGS(0.003)LLS(0.327)S(0.327	5	-0.81285	0.0	0.0
Frmd4a	0.32682	1.19E-33	81.144	IISGSSGS(0.003)LLS(0.327)S(0.327	5	-0.81285	0.0	0.0
Frmd4a	0.32682	1.19E-33	81.144	IISGSSGS(0.003)LLS(0.327)S(0.327	5	-0.81285	0.0	0.0
Frmd4a	0.389011	9.41E-07	51.31	SLPHWNS(0.389)QS(0.3)S(0.3)MP	4	0.65047	0.0	0.0
Frmd4a	0.475768	7.32E-07	52.451	SLPHWNS(0.016)QS(0.476)S(0.438	3	-0.99423	0.0	0.0
Wipf2	0.48042	2.17E-19	63.225	QPPGVPNGPS(0.48)S(0.48)PT(0.0:	3	0.67846	0.0	0.0
Wipf2	0.48042	2.17E-19	63.225	QPPGVPNGPS(0.48)S(0.48)PT(0.0:	3	0.67846	0.0	0.0
Ccny	0.30777	8.72E-11	61.52	YS(0.005)S(0.092)CS(0.106)T(0.09	2	1.4248	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1523
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1388
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1002
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1003
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	918
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	927
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	930
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	931
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1574
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1576
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1578
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1579
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1584
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	754
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	756
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	261;240
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	295;306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	301;312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	305;316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	509
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1609
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	56
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	830
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	404
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	405
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	407
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	700
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	702
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	266
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	267
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	109



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	696;753
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	697;754
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	700;757
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2121
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1506
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1643
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2148
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2073
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2074
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2079
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2080
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1315
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1137
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1109
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1111
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	540
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	547
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	322
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	323
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	49
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	538
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	427
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	428
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	430
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	431
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	434
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	436
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	439

Coro7	0.133613	3.35E-32	69.075	ADTELSEGF(0.003)S(0.011)PS(0.1	4	0.10728	0.0	0.0
Coro7	0.246803	1.81E-24	58.98	ADTELSEGF(0.009)S(0.009)PS(0.0	4	2.1527	0.0	0.0
Coro7	0.3292	1.06E-18	49.06	ADTELSEGF(0.001)S(0.001)PS(0.0	4	0.34985	0.0	0.0
Ulk2	0.493987	1.20E-15	58.952	VCVGS(0.012)PPAPGFGS(0.494)S(	4	0.73708	0.0	0.0
Dcx	0.407115	1.63E-15	58.565	S(0.327)KS(0.264)PADS(0.407)GNI	4	0.1938	0.0	0.0
MAST1	0.499701	4.16E-17	80.361	HFGS(0.5)T(0.5)ES(0.001)ITDEDG	3	0.65084	0.0	0.0
MAST1	0.497345	0.000353863	42.118	RPPRPS(0.497)S(0.497)DPPS(0.00	3	0.33269	0.0	0.0
MAST1	0.472502	1.46E-31	73.758	SASATALSVMIPAVDPHGGS(0.055)	3	-1.8529	0.0	0.0
MAST1	0.332459	1.20E-09	45.983	S(0.002)LILT(0.332)S(0.332)T(0.33	6	2.253	0.0	0.0
MAST1	0.47645	3.86E-12	53.064	S(0.001)LILT(0.039)S(0.119)T(0.41	4	1.5413	0.0	0.0
MAST1	0.410484	1.38E-30	85.518	S(0.079)LS(0.41)S(0.41)S(0.095)D	3	-0.75474	0.0	0.0
MAST1	0.410484	1.38E-30	85.518	S(0.079)LS(0.41)S(0.41)S(0.095)D	3	-0.75474	0.0	0.0
MAST1	0.403976	8.78E-08	47.195	WLASLPS(0.001)S(0.001)GY(0.00	4	-1.4771	0.0	0.0
MAST1	0.496419	2.38E-06	42.639	Y(0.001)HHVNS(0.496)Y(0.441)DE	3	-2.414	0.0	0.0
Rab11fip1	0.245522	9.74E-23	62.57	NKDNTSDTAS(0.002)AIVPS(0.246)	3	-1.3326	0.0	0.0
Rab11fip1	0.245522	9.74E-23	62.57	NKDNTSDTAS(0.002)AIVPS(0.246)	3	-1.3326	0.0	0.0
Oxr1	0.497716	3.82E-30	83.423	SSSEVGALSHET(0.003)GLS(0.498)	4	-2.3505	0.0	0.0
Oxr1	0.497716	3.82E-30	83.423	SSSEVGALSHET(0.003)GLS(0.498)	4	-2.3505	0.0	0.0
Ptpn23	0.420335	2.77E-26	64.645	RGAAAADLLS(0.118)S(0.42)S(0.42	4	-0.31489	0.0	0.0
Ptpn23	0.451967	1.40E-24	65.766	GAAAADLLS(0.015)S(0.051)S(0.03	3	-0.2958	0.0	0.0
Sgsm1	0.440881	0.000298569	42.314	HS(0.441)S(0.441)GS(0.118)MDDF	4	0.84371	0.0	0.0
Sgsm1	0.201871	2.21E-07	45.579	S(0.007)PQGS(0.063)S(0.202)ES(0	3	-0.95187	0.0	0.0
Sgsm1	0.201871	2.21E-07	45.579	S(0.007)PQGS(0.063)S(0.202)ES(0	3	-0.95187	0.0	0.0
Sgsm1	0.482109	1.00E-62	109.56	SPQGSSES(0.007)T(0.029)S(0.482)	3	-0.52957	0.0	0.0
Sgsm1	0.482109	1.00E-62	109.56	SPQGSSES(0.007)T(0.029)S(0.482)	3	-0.52957	0.0	0.0
Mycbp2	0.289293	1.11E-07	45.042	HEDEQVLLDQNS(0.236)QT(0.236)	4	-0.77597	0.0	0.0
Mycbp2	0.463829	2.28E-20	113.11	VNS(0.274)GDT(0.241)VGS(0.464)	2	1.0197	0.0	0.0
Naca	0.332394	8.04E-134	132.6	VQGEAVSNIQENT(0.003)QT(0.332	5	0.12389	0.0	0.0
Ppp2r5b	0.258035	4.08E-23	63.893	LPPAS(0.002)T(0.009)PT(0.131)S(	4	-0.96351	0.0	0.0
Ppp2r5b	0.423903	1.25E-39	89.297	LPPASTPT(0.006)S(0.023)PS(0.424	4	0.25343	0.0	0.0
Ppp2r5b	0.423903	1.25E-39	89.297	LPPASTPT(0.006)S(0.023)PS(0.424	4	0.25343	0.0	0.0
Ppp2r5b	0.318071	8.37E-11	49.141	LPPAS(0.001)T(0.004)PT(0.011)S(	3	-0.27238	0.0	0.0
Map7	0.42514	1.90E-16	67.586	S(0.425)KS(0.425)T(0.14)AALS(0.0	5	0.56522	0.0	0.0
Map7	0.42514	4.15E-07	45.042	S(0.425)KS(0.425)T(0.14)AALS(0.0	5	0.56522	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	440
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	444
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	454
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	734
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	139
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	828
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	937
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1121
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1122
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	689
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	198
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	202
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	415
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	416
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	402
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	404
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	406
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	407
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2713
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3586
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	13
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	15
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	262
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	264

Map7	0.405692	8.58E-16	65.223	S(0.281)KS(0.22)T(0.066)AALS(0.4	3	-1.015	0.0	0.0
Map7	0.496474	3.08E-13	115.34	VT(0.007)IES(0.496)S(0.496)PDLEH	2	-0.70621	0.0	0.0
Sf3b2	0.499387	8.93E-10	53.625	IEEAMDGS(0.499)ET(0.499)PQLFT	4	0.26984	0.0	0.0
Sf3b2	0.499188	5.46E-07	51.827	S(0.499)S(0.499)LGQS(0.001)ASET	3	-0.3385	0.0	0.0
Sf3b2	0.499188	5.46E-07	51.827	S(0.499)S(0.499)LGQS(0.001)ASET	3	-0.3385	0.0	0.0
Wnk1	0.187756	8.93E-50	83.026	IFTSEIPDPVAAS(0.169)T(0.169)S(0	4	-0.74066	0.0	0.0
Wnk1	0.187756	8.93E-50	83.026	IFTSEIPDPVAAS(0.169)T(0.169)S(0	4	-0.74066	0.0	0.0
Wnk1	0.499421	2.50E-32	72.791	QVAVDSS(0.001)QEELS(0.499)PQS	4	0.17307	0.0	0.0
Wnk1	0.452125	5.32E-05	47.089	S(0.05)GS(0.171)GS(0.327)GGAS(C	3	0.31874	0.0	0.0
Spag9	0.398609	2.06E-05	45.363	S(0.025)HT(0.354)S(0.399)LKDELS	3	2.2911	0.0	0.0
Mcmbp	0.499859	0.000328647	62.287	VS(0.335)PS(0.5)T(0.134)S(0.03)Y(	2	-0.7737	0.0	0.0
Car3	0.350631	1.63E-06	49.343	HDPS(0.001)LQPWS(0.351)VS(0.3	4	0.40719	0.0	0.0
Car3	0.350631	1.63E-06	49.343	HDPS(0.001)LQPWS(0.351)VS(0.3	4	0.40719	0.0	0.0
LOC100911	0.249711	0.000686514	43.592	IIS(0.001)IFS(0.25)S(0.25)T(0.25)E	3	0.30554	0.0	0.0
Tsc2	0.436472	4.36E-10	48.634	AIS(0.436)S(0.436)EGARPT(0.043)	3	0.16195	0.0	0.0
Tsc2	0.483685	6.44E-23	67.217	IQTSLT(0.001)S(0.003)AS(0.029)LC	4	0.58242	0.0	0.0
Tsc2	0.483685	6.44E-23	67.217	IQTSLT(0.001)S(0.003)AS(0.029)LC	4	0.58242	0.0	0.0
Tsc2	0.482353	3.14E-11	67.153	ITVPPEGPLPS(0.482)S(0.312)S(0.2	3	0.15821	0.0	0.0
Tsc2	0.333325	9.90E-08	57.708	ITVPPEGPLPS(0.333)S(0.333)S(0.3	3	-0.11312	0.0	0.0
Tsc2	0.333325	9.90E-08	57.708	ITVPPEGPLPS(0.333)S(0.333)S(0.3	3	-0.11312	0.0	0.0
Tsc2	0.427945	4.36E-20	73.574	S(0.099)S(0.099)S(0.428)S(0.369)F	3	-0.52942	0.0	0.0
Tsc2	0.492353	5.05E-56	132.72	S(0.056)S(0.056)S(0.395)S(0.492)F	3	-0.20826	0.0	0.0
Sqstm1	0.197803	4.24E-20	60.029	EVDPS(0.002)T(0.007)GELQS(0.19	6	0.14564	0.0	0.0
Sqstm1	0.330569	3.07E-72	99.987	EVDPSTGELQS(0.002)LQMPES(0.3	5	0.017154	0.0	0.0
Sqstm1	0.330569	3.07E-72	99.987	EVDPSTGELQS(0.002)LQMPES(0.3	5	0.017154	0.0	0.0
Sqstm1	0.330569	3.07E-72	99.987	EVDPSTGELQS(0.002)LQMPES(0.3	5	0.017154	0.0	0.0
Sqstm1	0.197803	4.24E-20	60.029	EVDPS(0.002)T(0.007)GELQS(0.19	6	0.14564	0.0	0.0
Sqstm1	0.488742	1.16E-11	46.847	IALES(0.001)VGQPEELMES(0.489)	4	2.5462	0.0	0.0
Sqstm1	0.488742	1.16E-11	46.847	IALES(0.001)VGQPEELMES(0.489)	4	2.5462	0.0	0.0
Tbx3	0.499314	6.46E-31	71.06	DLCPS(0.001)EAES(0.499)DAEAEI	4	0.57687	0.0	0.0
Tbx3	0.499314	6.46E-31	71.06	DLCPS(0.001)EAES(0.499)DAEAEI	4	0.57687	0.0	0.0
Sgtb	0.449754	2.26E-05	91.549	SFS(0.04)S(0.45)S(0.45)T(0.04)EEH	2	-0.76146	0.0	0.0
Hdac9	0.453507	5.09E-07	51.971	T(0.021)HS(0.072)S(0.072)PAPS(0	3	0.94573	0.0	0.0
Ankhd1	0.436441	0.00341879	42.475	S(0.007)LPLS(0.436)S(0.423)PT(0.	3	-1.6311	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	269
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	675
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	760
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	284
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	285
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1540
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1542
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1095
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	189
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	48
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	50
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	64
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	943
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	948
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1392
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1393
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1394
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1330
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	327
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	337
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	300
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	304
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	355
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	361
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	294
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	625
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1659

Ankhd1	0.33755	7.81E-11	41.24	VS(0.338)T(0.314)S(0.338)PVGLPS	3	-1.2226	0.0	0.0
Ankhd1	0.420043	1.68E-14	50.464	VS(0.142)T(0.132)S(0.42)PVGLPS(I	3	-0.54133	0.0	0.0
Raph1	0.375115	1.36E-12	67.164	S(0.375)S(0.375)IT(0.114)S(0.135)	3	-0.27501	0.0	0.0
Raph1	0.375115	1.36E-12	67.164	S(0.375)S(0.375)IT(0.114)S(0.135)	3	-0.27501	0.0	0.0
Alkbh5	0.47736	8.82E-36	103.75	KS(0.044)YES(0.477)S(0.477)EDCP	3	-0.56069	0.0	0.0
Alkbh5	0.495598	3.67E-14	64.589	KYQEDS(0.496)DPERS(0.496)DY(0.	5	-0.28351	0.0	0.0
Hck	0.499257	0.000931996	49.333	GPVY(0.001)VPDPT(0.499)S(0.499	2	-1.4777	0.0	0.0
Tns3	0.429189	7.77E-33	73.761	VMNGVVHQELNPGPS(0.429)PGS(	4	-1.2434	0.0	0.0
Tns3	0.429189	7.77E-33	73.761	VMNGVVHQELNPGPS(0.429)PGS(	4	-1.2434	0.0	0.0
Senp6	0.330327	2.38E-06	42.639	EST(0.001)S(0.003)PQPADS(0.33)/	3	1.6869	0.0	0.0
Senp6	0.330327	2.38E-06	42.639	EST(0.001)S(0.003)PQPADS(0.33)/	3	1.6869	0.0	0.0
Senp6	0.330327	2.38E-06	42.639	EST(0.001)S(0.003)PQPADS(0.33)/	3	1.6869	0.0	0.0
Nabp2	0.31882	2.24E-09	51.31	SQPNHT(0.001)PS(0.008)GPPGPS(	4	-0.28556	0.0	0.0
Nabp2	0.31882	2.24E-09	51.31	SQPNHT(0.001)PS(0.008)GPPGPS(	4	-0.28556	0.0	0.0
Nabp2	0.31882	2.24E-09	51.31	SQPNHT(0.001)PS(0.008)GPPGPS(	4	-0.28556	0.0	0.0
Mdm1	0.495732	0.000111214	72.898	GNS(0.496)S(0.496)FEILS(0.009)PI	3	0.93824	0.0	0.0
Mdm1	0.495732	0.000111214	72.898	GNS(0.496)S(0.496)FEILS(0.009)PI	3	0.93824	0.0	0.0
Mdm1	0.498421	4.06E-15	86.548	S(0.003)AVS(0.498)S(0.498)LQAF	3	0.53813	0.0	0.0
Mdm1	0.498421	4.06E-15	86.548	S(0.003)AVS(0.498)S(0.498)LQAF	3	0.53813	0.0	0.0
Rangap1	0.186563	1.29E-32	71.67	ILDPNSEGEAPVLS(0.187)S(0.187)F	4	1.0558	0.0	0.0
Rangap1	0.485589	6.84E-67	98.657	ILDPNSEGEAPVLS(0.128)S(0.486)F	4	-0.88043	0.0	0.0
Rangap1	0.186563	1.29E-32	71.67	ILDPNSEGEAPVLS(0.187)S(0.187)F	4	1.0558	0.0	0.0
Nfatc1	0.25	7.68E-16	55.986	VEPAGEDLGT(0.25)T(0.25)PPT(0.2	4	1.7814	0.0	0.0
Fzr1	0.434475	0.000682566	40.278	T(0.002)LT(0.006)PANS(0.434)PVS	3	0.46232	0.0	0.0
Fzr1	0.434475	0.000682566	40.278	T(0.002)LT(0.006)PANS(0.434)PVS	3	0.46232	0.0	0.0
Plekha5	0.205559	1.66E-06	40.849	GLNVLS(0.001)AS(0.025)DPS(0.07	3	0.21265	0.0	0.0
Plekha5	0.205559	1.66E-06	40.849	GLNVLS(0.001)AS(0.025)DPS(0.07	3	0.21265	0.0	0.0
Plekha5	0.499708	0.00286991	80.755	HS(0.001)CLS(0.5)S(0.5)PK	2	0.57638	0.0	0.0
Plekha5	0.32971	3.75E-07	40.456	VSDQT(0.001)MHS(0.006)IPT(0.33	4	-0.0028018	0.0	0.0
Plekha5	0.32971	3.75E-07	40.456	VSDQT(0.001)MHS(0.006)IPT(0.33	4	-0.0028018	0.0	0.0
LOC10091	0.482694	1.91E-32	93.495	EGT(0.002)GS(0.01)T(0.01)ATSSS(I	3	-2.4714	0.0	0.0
Slc1a4	0.465298	5.91E-16	63.893	VEAIPNS(0.465)KS(0.465)EEET(0.0	4	-1.6547	0.0	0.0
Clip1	0.494899	2.33E-53	98.133	S(0.495)PS(0.495)AS(0.01)SLSSMS	3	-1.5652	0.0	0.0
Clip1	0.365531	2.33E-53	98.133	S(0.206)PS(0.366)AS(0.366)S(0.05	3	-0.06751	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2269
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	376
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	56
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	688
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	691
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	281
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	195
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	196
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	197
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	260
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	261
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	687
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	688
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	426
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	427
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	434
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	366
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	36
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	872
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	874
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	303
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	322
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	324
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	17
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	499
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	311
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313

Dag1	0.31882	3.68E-31	73.435	GVPIIFADELDDS(0.044)KPPPS(0.3	4	1.1034	0.0	0.0
Dag1	0.486649	7.17E-72	103.53	GVPIIFADELDDS(0.001)KPPPS(0.0	4	0.95188	0.0	0.0
Dag1	0.486649	7.17E-72	103.53	GVPIIFADELDDS(0.001)KPPPS(0.0	4	0.95188	0.0	0.0
Mkl2	0.174685	2.77E-07	43.696	VASHEDS(0.051)LS(0.175)PT(0.17	4	-0.2295	0.0	0.0
Mkl2	0.174685	2.77E-07	43.696	VASHEDS(0.051)LS(0.175)PT(0.17	4	-0.2295	0.0	0.0
Mkl2	0.174685	2.77E-07	43.696	VASHEDS(0.051)LS(0.175)PT(0.17	4	-0.2295	0.0	0.0
Cdr2l	0.486393	6.75E-19	72.167	LHS(0.103)S(0.41)S(0.486)LELGPR	3	0.88158	0.0	0.0
LOC10091	0.407813	3.88E-05	42.384	KS(0.105)S(0.408)S(0.129)S(0.158	5	0.69324	0.0	0.0
Aspscr1	0.374579	1.53E-42	77.728	S(0.027)KPPGS(0.221)PVS(0.375)S	5	-0.26339	0.0	0.0
Aspscr1	0.331009	2.07E-32	72.791	SKPPGSPVSSMS(0.007)ADQAS(0.3	4	-0.025812	0.0	0.0
Aspscr1	0.331009	2.07E-32	72.791	SKPPGSPVSSMS(0.007)ADQAS(0.3	4	-0.025812	0.0	0.0
Aspscr1	0.331009	2.07E-32	72.791	SKPPGSPVSSMS(0.007)ADQAS(0.3	4	-0.025812	0.0	0.0
Aspscr1	0.415359	9.85E-11	62.203	S(0.075)S(0.075)T(0.415)S(0.415)F	4	1.0232	0.0	0.0
Tbc1d23	0.489	1.67E-23	95.307	GS(0.489)IS(0.378)S(0.132)VDGES	2	1.3704	0.0	0.0
Gpr161	0.485144	4.66E-33	108.14	S(0.485)S(0.485)VT(0.03)FEDEVEC	4	-0.61404	0.0	0.0
Gpr161	0.485144	4.66E-33	108.14	S(0.485)S(0.485)VT(0.03)FEDEVEC	4	-0.61404	0.0	0.0
Tbc1d1	0.459958	1.14E-07	67.136	KLHS(0.011)S(0.069)S(0.46)S(0.46	4	2.0369	0.0	0.0
Tbc1d1	0.459958	1.14E-07	67.136	KLHS(0.011)S(0.069)S(0.46)S(0.46	4	2.0369	0.0	0.0
Dlg5	0.461608	4.70E-05	73.632	LGS(0.462)S(0.462)S(0.077)NLQFK	3	0.6924	0.0	0.0
Dock5	0.321046	1.13E-06	40.622	LTPFHS(0.008)PS(0.024)PLQS(0.32	3	0.94044	0.0	0.0
Rprd1a	0.408222	7.10E-24	66.88	TYEQIKVDENENC(0.408)S(0.249)	4	0.27248	0.0	0.0
Vat1l	0.249998	1.14E-91	109.44	TPTPLMANDS(0.25)T(0.25)ET(0.25	4	-0.65973	0.0	0.0
Vat1l	0.249998	1.14E-91	109.44	TPTPLMANDS(0.25)T(0.25)ET(0.25	4	-0.65973	0.0	0.0
Sash1	0.49929	1.31E-05	51.798	DS(0.001)GCYES(0.499)S(0.499)EN	3	0.70298	0.0	0.0
Sash1	0.49929	1.31E-05	51.798	DS(0.001)GCYES(0.499)S(0.499)EN	3	0.70298	0.0	0.0
Sash1	0.499831	1.01E-08	49.141	KPS(0.5)T(0.5)EGGEEHVFESPPVQ[	4	-0.12532	0.0	0.0
Sash1	0.355073	3.00E-17	75.589	S(0.294)CET(0.35)LEGPEPVES(0.35	2	1.2213	0.0	0.0
Sash1	0.332061	1.10E-12	51.758	YSSPVTEQDS(0.11)GLDGT(0.332)P	5	0.94385	0.0	0.0
Klc2	0.484139	2.04E-05	46.099	SVEEPVQPGGT(0.032)GLS(0.484)[	3	-0.040829	0.0	0.0
Klc2	0.484139	2.04E-05	46.099	SVEEPVQPGGT(0.032)GLS(0.484)[	3	-0.040829	0.0	0.0
Mtx3	0.330799	0.00013543	44.132	LTPAEES(0.008)NS(0.331)S(0.331	3	0.38024	0.0	0.0
Mtx3	0.330799	0.00013543	44.132	LTPAEES(0.008)NS(0.331)S(0.331	3	0.38024	0.0	0.0
LOC68359	0.499763	1.38E-07	59.585	RVS(0.5)S(0.5)PMDEVLASLK	3	1.566	0.0	0.0
LOC68359	0.499763	1.38E-07	59.585	RVS(0.5)S(0.5)PMDEVLASLK	3	1.566	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	810
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	811
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	812
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	537
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	540
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	541
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	130
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	127
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	128
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	129
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	428
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	429
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	476
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1788
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	152
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	390
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	394
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	727
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	728
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	829
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	483
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	602
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	604
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	305
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	778
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	779



LOC68359	0.49916	0.00202622	52.527	SQAWT(0.002)ES(0.499)GS(0.499)	2	-0.43293	0.0	0.0
LOC68359	0.49916	0.00202622	52.527	SQAWT(0.002)ES(0.499)GS(0.499)	2	-0.43293	0.0	0.0
Pkp4	0.486696	8.84E-06	122.7	S(0.487)PS(0.487)IDS(0.027)IQK	2	0.71886	0.0	0.0
Pkp4	0.257599	1.80E-10	47.937	TEPEQGALY(0.225)S(0.258)PEQT((	4	0.13779	0.0	0.0
Pkp4	0.257599	1.80E-10	47.937	TEPEQGALY(0.225)S(0.258)PEQT((	4	0.13779	0.0	0.0
Dzank1	0.478937	1.36E-06	48.597	S(0.479)S(0.479)LVS(0.04)AY(0.00	3	0.03769	0.0	0.0
Dzank1	0.478937	1.36E-06	48.597	S(0.479)S(0.479)LVS(0.04)AY(0.00	3	0.03769	0.0	0.0
Parp12	0.49974	3.82E-32	142.4	VS(0.001)S(0.5)S(0.5)PAGPQGTSE	2	2.1505	0.0	0.0
Parp12	0.49974	3.82E-32	142.4	VS(0.001)S(0.5)S(0.5)PAGPQGTSE	2	2.1505	0.0	0.0
Rab11fip5	0.43658	3.46E-58	103.42	LPSGTLIGEPELEDVVGET(0.111)S(0	3	0.40786	0.0	0.0
Rab11fip5	0.43658	3.46E-58	103.42	LPSGTLIGEPELEDVVGET(0.111)S(0	3	0.40786	0.0	0.0
Rab11fip5	0.463199	2.12E-53	129.51	GS(0.001)HGT(0.073)S(0.463)S(0.4	3	0.26584	0.0	0.0
Rab11fip5	0.369607	1.97E-05	43.823	GSPS(0.001)LGAS(0.246)PHHS(0.2	4	-0.10123	0.0	0.0
Rab11fip5	0.477107	6.69E-07	41.06	KYDLES(0.006)AS(0.03)AILPS(0.47	5	0.71473	0.0	0.0
Rab11fip5	0.477107	6.69E-07	41.06	KYDLES(0.006)AS(0.03)AILPS(0.47	5	0.71473	0.0	0.0
Rab11fip5	0.390656	4.73E-55	134.29	S(0.305)S(0.305)IS(0.391)GPFPS	3	0.29723	0.0	0.0
Rab11fip5	0.498341	6.96E-10	83.929	T(0.498)S(0.498)LS(0.003)TALSSGI	3	1.4905	0.0	0.0
Frmd4b	0.488855	4.59E-58	100.66	S(0.489)GS(0.489)LES(0.022)QSHL	5	0.88123	0.0	0.0
Frmd4b	0.26045	1.15E-10	51.758	S(0.236)GS(0.213)LES(0.26)QS(0.2	4	-0.05039	0.0	0.0
Atf7ip	0.497018	7.97E-27	81.574	MEGS(0.005)FGS(0.497)PS(0.497)	4	3.2663	0.0	0.0
Atf7ip	0.497018	7.97E-27	81.574	MEGS(0.005)FGS(0.497)PS(0.497)	4	3.2663	0.0	0.0
Atf7ip	0.405847	5.25E-43	96.016	NKQEDLNSEALS(0.094)PS(0.406)IT	4	-0.16196	0.0	0.0
Eps8	0.493048	4.17E-28	140.03	DS(0.006)VS(0.493)S(0.493)VS(0.0	3	-0.12479	0.0	0.0
Eps8	0.493048	4.17E-28	140.03	DS(0.006)VS(0.493)S(0.493)VS(0.0	3	-0.12479	0.0	0.0
Eps8	0.419795	1.22E-14	89.374	QNS(0.267)S(0.42)S(0.151)S(0.045	2	0.77989	0.0	0.0
Itsn2	0.196797	2.36E-58	104.81	AQSLIDLGSS(0.002)S(0.01)S(0.197	3	-0.057239	0.0	0.0
Itsn2	0.196797	2.36E-58	104.81	AQSLIDLGSS(0.002)S(0.01)S(0.197	3	-0.057239	0.0	0.0
Itsn2	0.196797	2.36E-58	104.81	AQSLIDLGSS(0.002)S(0.01)S(0.197	3	-0.057239	0.0	0.0
Itsn2	0.407527	3.72E-59	107.15	AQSLIDLGSS(0.002)S(0.044)S(0.04	4	0.057399	0.0	0.0
Itsn2	0.304376	0.000129402	61.167	MLS(0.304)S(0.304)DKT(0.196)PS(	3	0.7312	0.0	0.0
Itsn2	0.304376	0.000129402	61.167	MLS(0.304)S(0.304)DKT(0.196)PS(	3	0.7312	0.0	0.0
Micall1	0.469406	0.00027025	40.211	S(0.002)PAPPMGS(0.059)S(0.469)	3	0.10585	0.0	0.0
Micall1	0.469406	0.00027025	40.211	S(0.002)PAPPMGS(0.059)S(0.469)	3	0.10585	0.0	0.0
RGD13075	0.439594	8.96E-44	83.939	NS(0.383)PGLGS(0.018)LVS(0.159)	4	-0.74395	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	107
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	509;515
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	127
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	132
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	593
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	594
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	251
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	252
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	866
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	867
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	394;394
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	494;494
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	214;214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	215;215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	359;359
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1109;542
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	529
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	534
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	528
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	530
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	122
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	57
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	58
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	660
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	220
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	222
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	223
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	228
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	779
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	780
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	483
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	484
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	530;375

RGD13075	0.436628	4.39E-16	59.912	SLSFPILNPALS(0.437)QS(0.437)NC	3	0.41973	0.0	0.0
RGD13075	0.436628	4.39E-16	59.912	SLSFPILNPALS(0.437)QS(0.437)NC	3	0.41973	0.0	0.0
Scaper	0.438103	1.28E-16	68.074	CAPAES(0.438)PS(0.438)KDS(0.12	5	-0.18046	0.0	0.0
Rbms3	0.222575	2.49E-24	68.434	QSYAPAPHPMAPPS(0.223)PS(0.22	4	0.26575	0.0	0.0
Rbms3	0.222575	2.49E-24	68.434	QSYAPAPHPMAPPS(0.223)PS(0.22	4	0.26575	0.0	0.0
Rbms3	0.186053	4.31E-32	64.213	QSYAPAPHPMAPPS(0.147)PS(0.14	4	0.13395	0.0	0.0
Ranbp3	0.457212	1.60E-26	77.221	ETTHAQSGS(0.003)ES(0.082)S(0.4	4	-1.3364	0.0	0.0
Ranbp3	0.457212	1.60E-26	77.221	ETTHAQSGS(0.003)ES(0.082)S(0.4	4	-1.3364	0.0	0.0
Ranbp3	0.475305	2.67E-43	81.721	VPQKT(0.114)PS(0.475)GGG(0.181	4	1.4566	0.0	0.0
LOC68999	0.370032	8.79E-18	74.618	S(0.315)S(0.315)S(0.37)MVAAAPS	3	-1.6282	0.0	0.0
Gigyf2	0.185936	4.56E-15	52.63	AGTDANEEVPQT(0.186)S(0.186)LS	4	-0.60742	0.0	0.0
Gigyf2	0.185936	4.56E-15	52.63	AGTDANEEVPQT(0.186)S(0.186)LS	4	-0.60742	0.0	0.0
Gigyf2	0.185936	4.56E-15	52.63	AGTDANEEVPQT(0.186)S(0.186)LS	4	-0.60742	0.0	0.0
Gigyf2	0.443289	1.16E-07	53.359	ALS(0.443)S(0.443)GGG(0.101)IT(C	4	-0.64445	0.0	0.0
Gigyf2	0.443289	1.16E-07	53.359	ALS(0.443)S(0.443)GGG(0.101)IT(C	4	-0.64445	0.0	0.0
Kif1a	0.487809	4.91E-09	40.286	DLLY(0.001)AQGLGDIT(0.188)DM	4	0.48836	0.0	0.0
Kif1a	0.490314	1.80E-08	46.15	DPS(0.49)MS(0.49)PLGAAT(0.016)	3	-0.43428	0.0	0.0
Kif1a	0.303566	7.65E-16	60.379	DPSMSPLGAAT(0.144)LT(0.144)PS	3	-0.54243	0.0	0.0
Ythdc2	0.499203	0.0102613	50.194	GS(0.002)KS(0.499)PS(0.499)PR	3	-0.01977	0.0	0.0
Ythdc2	0.440367	4.91E-10	77.185	RS(0.059)T(0.009)DDRS(0.405)DQ	4	0.82536	0.0	0.0
Ythdc2	0.322541	8.75E-09	49.066	STDSS(0.001)S(0.003)Y(0.023)PS(C	4	-0.0059861	0.0	0.0
Ythdc2	0.448437	1.25E-15	64.705	STDSSSY(0.004)PS(0.096)PCAS(0.4	3	0.96699	0.0	0.0
Ythdc2	0.448437	1.25E-15	64.705	STDSSSY(0.004)PS(0.096)PCAS(0.4	3	0.96699	0.0	0.0
Zc3h4	0.383808	1.54E-16	54.087	AAKPCPT(0.014)EAS(0.384)PPAAS	4	1.8928	0.0	0.0
Zc3h4	0.328549	2.11E-23	62.052	AAKPCPTEAS(0.001)PPAAS(0.329)	4	-0.15191	0.0	0.0
Zc3h4	0.328549	2.11E-23	62.052	AAKPCPTEAS(0.001)PPAAS(0.329)	4	-0.15191	0.0	0.0
Zc3h4	0.328549	2.11E-23	62.052	AAKPCPTEAS(0.001)PPAAS(0.329)	4	-0.15191	0.0	0.0
Zc3h4	0.198651	2.12E-10	48.053	DYS(0.003)PPY(0.01)VPS(0.199)HC	4	0.32034	0.0	0.0
Zc3h4	0.198651	2.12E-10	48.053	DYS(0.003)PPY(0.01)VPS(0.199)HC	4	0.32034	0.0	0.0
Zc3h4	0.198651	2.12E-10	48.053	DYS(0.003)PPY(0.01)VPS(0.199)HC	4	0.32034	0.0	0.0
Zc3h4	0.198651	2.12E-10	48.053	DYS(0.003)PPY(0.01)VPS(0.199)HC	4	0.32034	0.0	0.0
Zc3h4	0.49703	2.38E-05	48.216	TEGS(0.002)LHS(0.497)S(0.497)PA	3	0.85264	0.0	0.0
Zc3h4	0.49703	2.38E-05	48.216	TEGS(0.002)LHS(0.497)S(0.497)PA	3	0.85264	0.0	0.0
LOC10091	0.499724	3.11E-108	122.47	PAPTVPAAAPS(0.5)S(0.5)PDTTSEPK	3	-0.032893	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	494;339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	496;341
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	324
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	44
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	283
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	167
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	386
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	375
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	377
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	19
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	402
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1501
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1513
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1235
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1205
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1221
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1223
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1023
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1028
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1030
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1033
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	166
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	171
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	172
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	173
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	834
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	835
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	89

Rplp2	0.493347	1.20E-17	55.765	LASVPAGGAVAVS(0.493)AAPGS(0	4	-1.0341	0.0	0.0
LOC10091	0.258402	3.42E-07	41.115	NAPT(0.007)LIS(0.258)EY(0.231)S(	5	1.7496	0.0	0.0
LOC10091	0.258402	3.42E-07	41.115	NAPT(0.007)LIS(0.258)EY(0.231)S(	5	1.7496	0.0	0.0
Hepacam	0.437392	0.000447018	48.907	T(0.018)HT(0.3)S(0.302)PPRAPS(0	3	-0.59672	0.0	0.0
Rbm15b	0.264837	3.39E-11	44.31	S(0.001)S(0.001)S(0.001)S(0.003)S	4	0.55973	0.0	0.0
Nufip2	0.499423	0.000140708	45.083	KS(0.499)S(0.499)DIKPGLS(0.001)S	3	-0.11864	0.0	0.0
Nufip2	0.316012	1.04E-58	94.834	TVQNS(0.002)S(0.008)VS(0.113)P	3	0.078358	0.0	0.0
Arhgap23	0.360728	1.12E-05	50.305	GLGS(0.361)S(0.306)T(0.306)DDD	4	-0.41152	0.0	0.0
Arhgap23	0.415822	7.51E-66	95.319	VAPLAT(0.001)T(0.002)EDS(0.036)	5	-1.265	0.0	0.0
Hmgn1	0.33843	3.78E-09	42.314	QAEVADQQT(0.162)T(0.135)DLPA	4	-0.79432	0.0	0.0
Mlxip	0.466739	3.10E-09	42.669	SVLLKQPVEDDDDS(0.467)DT(0.4	4	-0.55622	0.0	0.0
Hnrnpc	0.295706	2.42E-24	67.911	SAAEMYGSVPEHPS(0.296)PS(0.29	4	-0.5178	0.0	0.0
Hnrnpc	0.295706	2.42E-24	67.911	SAAEMYGSVPEHPS(0.296)PS(0.29	4	-0.5178	0.0	0.0
Hnrnpc	0.295706	2.42E-24	67.911	SAAEMYGSVPEHPS(0.296)PS(0.29	4	-0.5178	0.0	0.0
Irf2bp2	0.46064	2.10E-69	117.94	IPITPTS(0.001)S(0.004)FVS(0.065)	3	-0.03127	0.0	0.0
Irf2bp2	0.495072	3.11E-36	139.49	NS(0.01)S(0.495)S(0.495)PPSPSSM	2	-0.1564	0.0	0.0
Irf2bp2	0.495072	3.11E-36	139.49	NS(0.01)S(0.495)S(0.495)PPSPSSM	2	-0.1564	0.0	0.0
Bcr	0.417132	4.88E-11	68.525	GRGS(0.189)PAS(0.417)GALEPT(0.	3	0.068825	0.0	0.0
Bcr	0.248103	1.77E-16	67.396	SPSQNS(0.001)QQS(0.248)FDS(0.2	4	0.38333	0.0	0.0
Bcr	0.248103	1.77E-16	67.396	SPSQNS(0.001)QQS(0.248)FDS(0.2	4	0.38333	0.0	0.0
Bcr	0.248103	1.77E-16	67.396	SPSQNS(0.001)QQS(0.248)FDS(0.2	4	0.38333	0.0	0.0
Bcr	0.248103	1.77E-16	67.396	SPSQNS(0.001)QQS(0.248)FDS(0.2	4	0.38333	0.0	0.0
Dync1i2	0.468582	5.21E-21	74.876	S(0.004)VS(0.025)T(0.469)PS(0.46	2	-0.183	0.0	0.0
Chgb	0.362082	8.12E-59	119.76	NHPDSELES(0.362)T(0.362)ANRHS	4	-0.097411	0.0	0.0
Chgb	0.429149	6.73E-06	41.446	WAS(0.429)S(0.429)REET(0.138)G	4	0.71644	0.0	0.0
Chgb	0.429149	6.73E-06	41.446	WAS(0.429)S(0.429)REET(0.138)G	4	0.71644	0.0	0.0
Spg20	0.389203	3.96E-05	48.907	QS(0.105)S(0.389)S(0.389)S(0.105	3	1.0649	0.0	0.0
Spg20	0.389203	3.96E-05	48.907	QS(0.105)S(0.389)S(0.389)S(0.105	3	1.0649	0.0	0.0
Arhgap17	0.267294	3.30E-24	66.294	ADSNSVGGPVPS(0.267)S(0.267)S(	5	-0.39734	0.0	0.0
Arhgap17	0.267294	3.30E-24	66.294	ADSNSVGGPVPS(0.267)S(0.267)S(	5	-0.39734	0.0	0.0
Arhgap17	0.267294	3.30E-24	66.294	ADSNSVGGPVPS(0.267)S(0.267)S(	5	-0.39734	0.0	0.0
Arhgap17	0.228319	9.98E-13	53.064	ADSNSVGGPVPS(0.228)S(0.228)S(	4	0.52335	0.0	0.0
Arhgap17	0.399436	7.47E-12	46.76	ADSNSVGGPVPS(0.066)S(0.066)S(	5	-0.465	0.0	0.0
Arhgap17	0.4	1.34E-10	50.783	LGEQGPEPGPT(0.4)PPQT(0.4)PT(0	5	-0.64999	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	74
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	537
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	540
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	375
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	233
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	302
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	980
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	346
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	84
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	33
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	390;240
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	440;290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	441;291
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	409
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	315
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	91
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	391
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	99
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	100
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	373
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	560
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	561
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	562
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	570
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	574
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	751

Arhgap17	0.498614	4.17E-15	119.77	S(0.499)S(0.499)GT(0.003)NFQGLI	3	-0.062769	0.0	0.0
Arhgap17	0.498614	4.17E-15	119.77	S(0.499)S(0.499)GT(0.003)NFQGLI	3	-0.062769	0.0	0.0
Prkce	0.487887	8.34E-26	76.161	LAAGAES(0.01)PQPAS(0.012)GNS(	3	-0.57024	0.0	0.0
Ndrp2	0.456934	3.48E-26	105.02	T(0.04)AS(0.147)LT(0.356)S(0.457	2	-0.023211	0.0	0.0
Ndrp2	0.477811	1.11E-19	65.801	T(0.007)LS(0.026)QS(0.478)S(0.47	3	0.42087	0.0	0.0
Plekha4	0.4975	2.20E-73	144.82	S(0.497)S(0.497)LS(0.005)LTSSAST	4	-0.60681	0.0	0.0
Plekha4	0.4975	2.20E-73	144.82	S(0.497)S(0.497)LS(0.005)LTSSAST	4	-0.60681	0.0	0.0
Plekha4	0.216559	1.33E-15	62.617	S(0.001)S(0.001)LS(0.003)LT(0.003	4	-1.1338	0.0	0.0
Plekha4	0.216559	3.37E-42	95.205	S(0.001)S(0.001)LS(0.003)LT(0.003	4	-1.1338	0.0	0.0
Plekha4	0.216559	3.37E-42	95.205	S(0.001)S(0.001)LS(0.003)LT(0.003	4	-1.1338	0.0	0.0
Hp1bp3	0.489124	3.52E-150	153.02	LAEGEEKEPEPDGSSEES(0.019)IS(0	4	0.88924	0.0	0.0
Cct3	0.499474	0.000495427	49.448	IVLLDS(0.499)S(0.499)LEY(0.001)K	3	0.88627	0.0	0.0
Ppfia3	0.294974	1.65E-47	79.382	SSCSLPPS(0.001)LT(0.071)T(0.295	3	0.28458	0.0	0.0
Ppfia3	0.195116	2.74E-16	59.628	SSCSLPPS(0.005)LT(0.195)T(0.195	4	0.92325	0.0	0.0
Epb41l1	0.410351	1.51E-30	71.623	S(0.18)LDGAEFS(0.087)RPAS(0.32	5	1.091	0.0	0.0
Macf1	0.486141	3.14E-08	59.585	MIS(0.486)S(0.486)S(0.027)DAITQ	3	0.15638	0.0	0.0
Macf1	0.486141	3.14E-08	59.585	MIS(0.486)S(0.486)S(0.027)DAITQ	3	0.15638	0.0	0.0
Macf1	0.479786	1.62E-42	80.117	RQQHEQLTEAAQGILT(0.48)GPGDV	4	0.52186	0.0	0.0
Fam134a	0.415822	9.48E-15	48.405	FLPDVS(0.007)APPPEEPHS(0.416)I	5	1.096	0.0	0.0
Zhx2	0.333312	8.55E-25	68.834	LDQLSGAQLAGPLPS(0.333)PS(0.33	4	-1.1028	0.0	0.0
Zhx2	0.333312	8.55E-25	68.834	LDQLSGAQLAGPLPS(0.333)PS(0.33	4	-1.1028	0.0	0.0
Zhx2	0.333312	8.55E-25	68.834	LDQLSGAQLAGPLPS(0.333)PS(0.33	4	-1.1028	0.0	0.0
Snx16	0.422066	1.35E-11	49.095	DTEEQHPDALNWEDRPS(0.422)T(C	4	1.3358	0.0	0.0
Efnb1	0.469493	5.24E-18	71.148	GGG(0.469)GT(0.469)AGT(0.048)E	2	-0.54146	0.0	0.0
Smad1	0.368398	9.15E-06	51.771	VLTQMGSPHNPIIS(0.368)S(0.368)\	3	-2.9699	0.0	0.0
Smad1	0.368398	9.15E-06	51.771	VLTQMGSPHNPIIS(0.368)S(0.368)\	3	-2.9699	0.0	0.0
Myo9b	0.496494	1.38E-10	51.323	QVPIVGDPPRS(0.496)PS(0.496)PLI	4	0.79426	0.0	0.0
Myo9b	0.303442	6.02E-07	42.384	VS(0.003)PVLPS(0.303)S(0.303)S(C	5	0.9167	0.0	0.0
Myo9b	0.303442	6.02E-07	42.384	VS(0.003)PVLPS(0.303)S(0.303)S(C	5	0.9167	0.0	0.0
Myo9b	0.303442	6.02E-07	42.384	VS(0.003)PVLPS(0.303)S(0.303)S(C	5	0.9167	0.0	0.0
Marcks	0.48015	5.95E-32	75.695	EAAEAEPAPGS(0.48)PS(0.48)AET	3	-2.043	0.0	0.0
Marcks	0.48015	5.95E-32	75.695	EAAEAEPAPGS(0.48)PS(0.48)AET	3	-2.043	0.0	0.0
Marcks	0.29388	3.83E-16	53.987	EAAEAEPAPGS(0.037)PS(0.037)A	4	-0.94566	0.0	0.0
Marcks	0.494624	1.25E-52	126.04	GEAAAERPGEAAVAS(0.495)S(0.49	3	-0.28635	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	161
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	162
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	8;8;8
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	9;9;9
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	17;17;17
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20;20;20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	21;21;21
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	76
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	661
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	665
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	443
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1376;1318
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1377;1319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4608;4550
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	135
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	628
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	630
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	631
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	108
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	291
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	465
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1220
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1244
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	122
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	27

Marcks	0.333333	1.83E-23	66.925	GEAAAERPGEAAVAS(0.333)S(0.33	6	-0.013956	0.0	0.0
Hdac4	0.415174	1.69E-30	62.853	EGSVAPLPLY(0.01)T(0.035)S(0.112	4	-0.14484	0.0	0.0
Ncor1	0.498792	1.12E-08	44.721	DS(0.001)AFGGKHEAPS(0.499)S(0	4	-1.5384	0.0	0.0
Ncor1	0.397372	3.90E-06	49.125	S(0.105)DS(0.397)RS(0.352)PGS(0	3	-0.06478	0.0	0.0
Ppm1h	0.498628	4.38E-10	75.018	GGVGAPGS(0.091)PS(0.499)T(0.40	3	0.75524	0.0	0.0
Maged2	0.296933	1.30E-59	95.519	APEASEAAAATQAS(0.297)PT(0.297)	3	-0.28078	0.0	0.0
Maged2	0.199317	4.52E-11	48.025	APEASEAAAAT(0.003)QAS(0.199)PT	4	1.26	0.0	0.0
Fam168b	0.264229	1.19E-22	62.032	VS(0.041)CS(0.128)PT(0.264)S(0.2	4	0.29858	0.0	0.0
S1pr3	0.345047	1.51E-07	54.764	S(0.345)KS(0.345)S(0.09)S(0.09)S(	4	-0.3611	0.0	0.0
S1pr3	0.492804	1.91E-09	72.904	S(0.02)S(0.022)S(0.49)S(0.493)NN	3	0.87828	0.0	0.0
S1pr3	0.332308	1.27E-09	73.435	SSSS(0.001)NNS(0.332)S(0.332)S(	4	0.32846	0.0	0.0
S1pr3	0.332308	1.27E-09	73.435	SSSS(0.001)NNS(0.332)S(0.332)S(	4	0.32846	0.0	0.0
Fnip1	0.456031	1.03E-11	59.55	S(0.113)AS(0.396)LS(0.456)S(0.03	3	-0.081626	0.0	0.0
Trpm7	0.497441	2.55E-10	49.266	EFNIPEAGS(0.497)S(0.497)CGALFF	3	2.8057	0.0	0.0
Trpm7	0.497441	2.55E-10	49.266	EFNIPEAGS(0.497)S(0.497)CGALFF	3	2.8057	0.0	0.0
Trpm7	0.475671	0.00245434	42.708	T(0.338)PT(0.171)S(0.476)LHS(0.0	2	0.40089	0.0	0.0
Fnip2	0.48248	1.01E-08	54.582	VTFHIGS(0.482)S(0.422)IS(0.092)F	3	1.0435	0.0	0.0
Scaf11	0.333478	9.70E-19	69.935	FHS(0.235)PS(0.333)T(0.333)T(0.0	4	1.1403	0.0	0.0
Sbf1	0.498315	3.84E-23	145.92	LGLGT(0.498)LS(0.498)S(0.003)SL	2	0.94828	0.0	0.0
Ppp4r3a	0.38403	3.62E-56	91.603	TNLTSQSS(0.001)AT(0.054)S(0.147	4	-0.66996	0.0	0.0
Ppp4r3a	0.383964	3.62E-56	91.603	TNLTSQSS(0.001)AT(0.054)S(0.147	4	-0.66996	0.0	0.0
Ppp4r3a	0.38391	3.62E-56	91.603	TNLTSQSS(0.001)AT(0.054)S(0.147	4	-0.66996	0.0	0.0
Ppp4r3a	0.384159	3.15E-24	62.213	TNLTSQSS(0.001)AT(0.054)S(0.147	4	-0.66996	0.0	0.0
Ppp4r3a	0.402387	4.12E-13	52.198	TNLTSQSSAT(0.005)S(0.012)LPGS(	4	0.7435	0.0	0.0
Ppp4r3a	0.146512	1.20E-09	44.31	TNLTSQSS(0.002)AT(0.122)S(0.122	6	1.2071	0.0	0.0
Triobp	0.496552	0.000279991	50.305	T(0.006)VRPT(0.497)S(0.497)APD\	3	1.5346	0.0	0.0
Smarca1	0.402855	0.00960006	56.404	S(0.194)PT(0.403)S(0.403)PLNMK	2	-0.26298	0.0	0.0
Ube4b	0.284994	1.88E-47	84.903	SQSSEGVVS(0.012)S(0.052)LS(0.285	4	-1.4216	0.0	0.0
Ube4b	0.483732	7.91E-111	150.73	SQSSEGVSS(0.001)LS(0.031)S(0.48	3	-0.45755	0.0	0.0
Ube4b	0.392557	1.53E-72	107.58	SQSSEGVSS(0.004)LS(0.081)S(0.25	4	-1.0171	0.0	0.0
Kif19	0.464014	2.11E-10	49.623	RPPS(0.464)PT(0.246)LQHAI(0.24	4	-0.96807	0.0	0.0
Usp24	0.465042	1.21E-19	66.828	QEAEDLS(0.015)LS(0.196)APS(0.15	4	0.51026	0.0	0.0
Usp24	0.480254	3.19E-08	40.286	QEAEDLS(0.176)LS(0.244)APS(0.14	4	0.24127	0.0	0.0
Usp24	0.421682	7.66E-31	88.09	TLLS(0.015)ET(0.101)S(0.422)S(0.0	4	0.90944	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	29
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	322
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2157
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	222
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	84
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	90
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	66
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	300
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	303
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	307
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	263
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1349
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1488
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	721
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	784
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1044
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	755
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	758
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	761
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	764
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	767
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	770
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1542
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	86
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	87
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	90
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	831
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2073
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2077
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1131

Rai1	0.472487	1.72E-19	64.502	AAS(0.472)S(0.472)PS(0.055)NPA/	4	-0.27607	0.0	0.0
Rai1	0.472487	1.72E-19	64.502	AAS(0.472)S(0.472)PS(0.055)NPA/	4	-0.27607	0.0	0.0
Usp34	0.498412	1.19E-11	55.453	DSSIIDPGT(0.498)EQDLPS(0.498)P	4	1.0436	0.0	0.0
Ralgapb	0.492993	7.55E-19	76.574	LSMPQS(0.493)AAVNT(0.041)T(0.	3	-0.87051	0.0	0.0
Ralgapb	0.293572	7.07E-08	44.6	T(0.007)NS(0.018)GIS(0.223)S(0.2	3	-0.71345	0.0	0.0
Ralgapb	0.336723	7.07E-08	44.6	T(0.007)NS(0.018)GIS(0.223)S(0.2	3	-0.71345	0.0	0.0
Ralgapb	0.414849	5.69E-77	113.31	VQHQAS(0.016)S(0.415)T(0.283)S	4	0.69512	0.0	0.0
Tfe3	0.489109	0.00450167	55.261	RS(0.105)S(0.489)FS(0.073)MEDE!	2	-1.2831	0.0	0.0
Rgs6	0.328645	1.49E-10	49.765	KSVYGVGT(0.001)DES(0.329)QS(0.3	6	0.92823	0.0	0.0
Numa1	0.476569	3.26E-07	98.811	ATS(0.014)S(0.477)T(0.477)QS(0.C	2	1.1326	0.0	0.0
Numa1	0.249995	7.77E-79	102.39	IASSSENFLS(0.25)GS(0.25)PS(0.	4	0.11645	0.0	0.0
Numa1	0.30658	1.76E-117	134.4	IASSSENFLS(0.08)GS(0.307)PS(C	4	-0.4836	0.0	0.0
Numa1	0.30658	1.76E-117	134.4	IASSSENFLS(0.08)GS(0.307)PS(C	4	-0.4836	0.0	0.0
Numa1	0.30658	1.76E-117	134.4	IASSSENFLS(0.08)GS(0.307)PS(C	4	-0.4836	0.0	0.0
Tmem117	0.499633	0.000316711	108.35	KS(0.001)PS(0.5)EHS(0.5)K	3	0.80386	0.0	0.0
Fam21c	0.42677	7.89E-20	70.783	GLFSDEEDS(0.017)EDLFS(0.427)S(	3	1.0512	0.0	0.0
Fam21c	0.42677	7.89E-20	70.783	GLFSDEEDS(0.017)EDLFS(0.427)S(	3	1.0512	0.0	0.0
Fam21c	0.422902	3.91E-53	92.563	GPVTQLS(0.154)S(0.423)S(0.423)F	4	-0.75428	0.0	0.0
Fam21c	0.495033	0.00275667	43.761	S(0.495)DS(0.495)HQDVVS(0.01)K	3	-0.34708	0.0	0.0
Fam21c	0.495033	0.00275667	43.761	S(0.495)DS(0.495)HQDVVS(0.01)K	3	-0.34708	0.0	0.0
Fam21c	0.493871	2.51E-33	78.913	T(0.494)S(0.494)PDS(0.012)EQPP/	4	0.72977	0.0	0.0
Stxbp5l	0.332937	1.34E-16	49.087	LQCDVEDIIT(0.333)PEPET(0.333)S	4	-0.52791	0.0	0.0
Stxbp5l	0.457999	2.92E-21	87.654	S(0.458)LS(0.136)GS(0.136)T(0.13	2	0.49287	0.0	0.0
Stxbp5l	0.487617	9.72E-21	81.368	S(0.001)LS(0.018)GS(0.488)T(0.48	3	-2.0927	0.0	0.0
Stxbp5l	0.422376	3.47E-11	64.705	SLSGST(0.001)NT(0.009)VS(0.422)	2	0.91342	0.0	0.0
Stxbp5l	0.242056	3.66E-10	46.273	SLSGS(0.001)T(0.003)NT(0.023)VS	4	1.2534	0.0	0.0
Mff	0.493146	1.68E-07	56.527	GGG(0.014)AAAT(0.493)S(0.493)N	3	1.762	0.0	0.0
Ppp1r21	0.316106	3.23E-23	64.221	S(0.316)T(0.316)S(0.284)S(0.083)/	4	0.46162	0.0	0.0
Galnt11	0.488241	6.01E-29	153.2	S(0.488)S(0.488)S(0.024)ELGMIFN	2	-1.1168	0.0	0.0
Galnt11	0.488241	6.01E-29	153.2	S(0.488)S(0.488)S(0.024)ELGMIFN	2	-1.1168	0.0	0.0
Arhgef40	0.325915	4.95E-124	141.97	ADSASSAGAQHGAHS(0.002)PS(0.2	4	0.72767	0.0	0.0
Arhgef40	0.340992	5.81E-09	43.905	ADSASSAGAQHGAHS(0.001)PS(0.(	4	1.0496	0.0	0.0
Arhgef40	0.499595	1.31E-48	83.992	ASVAVSSFEHAGPS(0.5)LPGLS(0.5)	4	1.4718	0.0	0.0
Arhgef40	0.499595	1.31E-48	83.992	ASVAVSSFEHAGPS(0.5)LPGLS(0.5)	4	1.4718	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1088
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1089
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3447
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	307
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	650
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	653
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	349
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	240
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1833
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	196
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	198
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	200
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	201
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	443
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	541
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	542
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1059;1025
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1207;1173
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1209;1175
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	5;5
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	573
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	588
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	592
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	598
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	605
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	212;263;159
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	560
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	95
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	96
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	987
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	994
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1430
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1435

Arhgef40	0.498824	7.58E-16	63.225	QPEVLS(0.002)LPS(0.499)PS(0.499)	3	-0.98975	0.0	0.0
Arhgef40	0.498824	7.58E-16	63.225	QPEVLS(0.002)LPS(0.499)PS(0.499)	3	-0.98975	0.0	0.0
Nexn	0.434597	4.09E-11	56.688	AVS(0.435)QES(0.435)LT(0.131)PC	3	1.1576	0.0	0.0
Anks1b	0.495569	2.73E-05	50.222	SST(0.001)AERS(0.496)S(0.496)KD	4	0.22994	0.0	0.0
Anks1b	0.495569	2.73E-05	50.222	SST(0.001)AERS(0.496)S(0.496)KD	4	0.22994	0.0	0.0
Rap1gap	0.491928	6.41E-07	42.813	RGSALGIGAVEES(0.492)LIVPGKS(C	4	0.57523	0.0	0.0
Rap1gap	0.47812	3.73E-08	58.693	SENS(0.001)S(0.004)T(0.019)QS(0	3	0.77572	0.0	0.0
Slc9a9	0.487778	5.69E-43	98.062	VGVDLDES(0.024)LKEEPS(0.488)S(	4	1.9578	0.0	0.0
Slc9a9	0.487778	5.69E-43	98.062	VGVDLDES(0.024)LKEEPS(0.488)S(	4	1.9578	0.0	0.0
Cfdp1	0.485849	6.83E-09	50.505	EKPQALVT(0.125)S(0.486)AAT(0.3	5	1.5033	0.0	0.0
Flcn	0.331969	4.09E-13	63.682	AHS(0.257)PAEGAS(0.332)T(0.332	2	0.417	0.0	0.0
Flcn	0.199999	4.09E-13	63.682	AHSPAEGAS(0.2)T(0.2)DS(0.2)S(0.	4	0.579	0.0	0.0
Flcn	0.199999	4.09E-13	63.682	AHSPAEGAS(0.2)T(0.2)DS(0.2)S(0.	4	0.579	0.0	0.0
Flcn	0.199999	4.09E-13	63.682	AHSPAEGAS(0.2)T(0.2)DS(0.2)S(0.	4	0.579	0.0	0.0
C2cd2	0.460741	7.31E-10	57.21	FDT(0.199)GRAS(0.792)PLS(0.461)	3	2.444	0.0	0.0
C2cd2	0.450585	0.0287416	64.374	QLS(0.451)ES(0.451)S(0.099)K	2	-1.005	0.0	0.0
C2cd2	0.450585	0.0287416	64.374	QLS(0.451)ES(0.451)S(0.099)K	2	-1.005	0.0	0.0
Xrcc5	0.493867	1.10E-19	64.589	NGEPGET(0.001)EDHDS(0.494)S(0	4	-0.029074	0.0	0.0
Plekhg5	0.496725	4.15E-34	83.567	S(0.497)KS(0.497)EAS(0.007)LLQL	5	-0.52745	0.0	0.0
Plekhg5	0.425358	9.19E-07	51.827	S(0.101)LS(0.425)LPALRPS(0.425)(	3	0.79146	0.0	0.0
Plekhg5	0.425358	9.19E-07	51.827	S(0.101)LS(0.425)LPALRPS(0.425)(	3	0.79146	0.0	0.0
Zc3h18	0.499861	0.00257264	62.894	LGVSVS(0.5)PS(0.5)R	2	1.5651	0.0	0.0
Inpp5e	0.190528	3.81E-09	45.558	GSLQDSVAQS(0.064)PAY(0.173)S(	4	-0.84866	0.0	0.0
Inpp5e	0.190528	3.81E-09	45.558	GSLQDSVAQS(0.064)PAY(0.173)S(	4	-0.84866	0.0	0.0
Inpp5e	0.190528	3.81E-09	45.558	GSLQDSVAQS(0.064)PAY(0.173)S(	4	-0.84866	0.0	0.0
Kctd1	0.498279	4.85E-19	71.148	ALYESVFGS(0.003)GEICGPS(0.498)	3	1.2726	0.0	0.0
Kctd1	0.498279	4.85E-19	71.148	ALYESVFGS(0.003)GEICGPS(0.498)	3	1.2726	0.0	0.0
Nfkb1	0.303754	3.23E-55	135.54	KLS(0.304)FS(0.304)ES(0.304)LT(0	3	0.17735	0.0	0.0
Nfkb1	0.380471	2.62E-76	111.93	T(0.004)PET(0.016)T(0.074)AS(0.3	3	-0.027861	0.0	0.0
Ncoa6	0.247642	1.49E-07	44.625	ATPVPLPS(0.248)PPCT(0.248)S(0.2	4	0.55415	0.0	0.0
Ncoa6	0.247642	1.49E-07	44.625	ATPVPLPS(0.248)PPCT(0.248)S(0.2	4	0.55415	0.0	0.0
Ncoa6	0.247642	1.49E-07	44.625	ATPVPLPS(0.248)PPCT(0.248)S(0.2	4	0.55415	0.0	0.0
Prkd1	0.494994	0.0304073	45.022	RS(0.495)S(0.495)T(0.01)VMK	3	0.80219	0.0	0.0
Arfgef1	0.430445	6.72E-11	50.285	TTIPHALLT(0.051)WRPT(0.128)S(0	6	1.1597	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	414
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	416
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	281
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	74
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	75
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	567
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	631;639
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	504
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	505
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	203
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	68
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	71
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	73
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	903
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	202
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	209
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	555
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	140
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	545
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	546
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	945
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	898
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1728
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1733
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1734
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	426
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1552



Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Clu	0.398881	9.19E-08	58.848	VS(0.001)T(0.002)VT(0.086)T(0.39	3	0.18938	0.0	0.0
Mid1ip1	0.499816	1.31E-38	81.974	NDIEWGVLHQPS(0.5)S(0.5)PPAGS	4	2.1854	0.0	0.0
Mid1ip1	0.499816	1.31E-38	81.974	NDIEWGVLHQPS(0.5)S(0.5)PPAGS	4	2.1854	0.0	0.0
Mid1ip1	0.311817	2.13E-10	48.773	NDIEWGVLHQPS(0.312)S(0.312)PI	6	1.4989	0.0	0.0
Srrm2	0.458077	9.46E-05	65.842	S(0.011)GS(0.458)ES(0.458)S(0.07	3	0.12232	0.0	0.0
Srrm2	0.498914	2.13E-08	111.96	S(0.001)GS(0.001)ES(0.499)S(0.49	2	-0.015514	0.0	0.0
Srrm2	0.498914	2.13E-08	111.96	S(0.001)GS(0.001)ES(0.499)S(0.49	2	-0.015514	0.0	0.0
Srrm2	0.412165	2.64E-05	61.213	HS(0.004)GS(0.105)T(0.412)S(0	3	-0.64938	0.0	0.0
Srrm2	0.491547	4.83E-05	49.298	QS(0.001)HS(0.016)ES(0.492)S(0.4	3	0.23685	0.0	0.0
Srrm2	0.491547	4.83E-05	49.298	QS(0.001)HS(0.016)ES(0.492)S(0.4	3	0.23685	0.0	0.0
Srrm2	0.496496	4.10E-05	93.623	QS(0.007)S(0.496)S(0.496)PYEDK	2	0.39788	0.0	0.0
Srrm2	0.407024	1.74E-05	67.102	RS(0.296)S(0.383)S(0.407)ELS(0.9	2	0.5179	0.0	0.0
Srrm2	0.333313	3.32E-08	57.595	SGSVTNMQAECS(0.333)T(0.333)	2	-0.098504	0.0	0.0
Srrm2	0.484058	3.15E-11	55.209	S(0.005)IAQT(0.113)T(0.323)PVAC	3	-0.098349	0.0	0.0
Srrm2	0.305398	6.49E-05	47.016	S(0.003)IAQT(0.055)T(0.305)PVAC	4	0.22571	0.0	0.0
Srrm2	0.429803	7.82E-09	50.986	S(0.007)MLQT(0.993)PPDQNL(0.	5	1.0715	0.0	0.0
Srrm2	0.321775	1.30E-23	54.155	S(0.322)RDS(0.272)PT(0.101)GS(0	6	-1.1362	0.0	0.0
Srrm2	0.465268	2.51E-121	118.94	S(0.04)RDS(0.465)PT(0.135)GS(0.1	4	-0.86124	0.0	0.0
Srrm2	0.32626	4.30E-23	67.655	TPAALAALS(0.02)LT(0.326)GS(0.3	3	-0.70121	0.0	0.0
LOC36198	0.496209	0.0137778	74.173	NT(0.008)S(0.496)T(0.496)PFK	2	1.3722	0.0	0.0
Gpi	0.291019	1.42E-11	53.553	KIEPELDGS(0.097)S(0.291)AVT(0.0	4	0.39408	0.0	0.0
Dbnl	0.410455	5.03E-30	129.01	AMS(0.034)T(0.269)T(0.269)S(0.4	2	-0.88383	0.0	0.0
Dbnl	0.349684	7.10E-29	119.54	AMS(0.01)T(0.072)T(0.218)S(0.25	2	-1.3027	0.0	0.0
Tomm70a	0.493626	9.87E-15	55.337	ASPALGSGPDGSGDS(0.012)LEMS(	3	1.0248	0.0	0.0
Tomm70a	0.493626	4.00E-07	44.264	ASPALGSGPDGSGDS(0.012)LEMS(	3	1.0248	0.0	0.0
Prrc2a	0.284367	8.19E-11	52.249	AS(0.284)S(0.255)LLS(0.23)RFS(0.	4	-3.0765	0.0	0.0
LOC10090	0.497558	5.49E-31	71.882	KADTTTPTPT(0.001)AILAPGS(0.49	4	-0.074265	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	667
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	669
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	670
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	671
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	675
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	677
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	681
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	391
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	110
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	111
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1478
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1480
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1481
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	966
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	849
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	850
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	838
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2429
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2431
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	982
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	992
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	995
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	125
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	533
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	280
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	111
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	112
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	159
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181

LOC10090	0.430584	1.12E-10	47.331	KADTTT(0.001)PT(0.001)PT(0.003)	6	-0.6015	0.0	0.0
Skiv2l	0.463943	3.16E-27	66.974	LLEPLDLSSGGDEGEAAGGPRGDA	4	1.5616	0.0	0.0
Slc30a6	0.491765	1.94E-10	49.66	TPVTS(0.001)T(0.002)PAKPS(0.49	4	0.58295	0.0	0.0
Slc30a6	0.491765	1.94E-10	49.66	TPVTS(0.001)T(0.002)PAKPS(0.49	4	0.58295	0.0	0.0
Map3k5	0.49264	4.54E-39	78.079	SISLPVPLVEDT(0.02)S(0.02)S(0.0	3	0.76997	0.0	0.0
Map3k5	0.186797	3.89E-16	53.987	SISLPVPLVEDT(0.117)S(0.117)S(C	5	-0.29933	0.0	0.0
lqsec2	0.458999	1.35E-10	63.691	GALS(0.08)S(0.459)S(0.459)LRDLS	3	0.65173	0.0	0.0
lqsec2	0.407323	0.000151933	45.384	S(0.407)S(0.407)LEDT(0.162)Y(0.0	3	0.27436	0.0	0.0
lqsec2	0.407323	0.000151933	45.384	S(0.407)S(0.407)LEDT(0.162)Y(0.0	3	0.27436	0.0	0.0
Usp19	0.478368	1.30E-11	52.249	VAVPT(0.001)GPT(0.042)PLDS(0.4	4	-0.020548	0.0	0.0
Wipf1	0.430292	7.21E-05	45.438	NLS(0.012)LT(0.123)S(0.43)PT(0.4	3	1.224	0.0	0.0
Cdkn1b	0.333333	2.61E-33	81.884	HLVDQMPDS(0.333)S(0.333)DS(0.	3	-1.215	0.0	0.0
Cdkn1b	0.333333	2.61E-33	81.884	HLVDQMPDS(0.333)S(0.333)DS(0.	3	-1.215	0.0	0.0
Cdkn1b	0.333333	2.61E-33	81.884	HLVDQMPDS(0.333)S(0.333)DS(0.	3	-1.215	0.0	0.0
Sgce	0.443471	1.26E-08	59.339	NMQT(0.113)PDIQLVHHS(0.443)S	4	-0.26399	0.0	0.0
Agtr1a	0.488379	0.00258481	81.771	S(0.02)HS(0.488)S(0.488)LS(0.002	2	0.72028	0.0	0.0
Agtr1a	0.488379	0.00258481	81.771	S(0.02)HS(0.488)S(0.488)LS(0.002	2	0.72028	0.0	0.0
Stau2	0.445342	2.24E-05	48.907	GS(0.105)S(0.445)PT(0.445)PPCS(i	4	-0.10876	0.0	0.0
Rffl	0.306717	2.34E-33	83.064	TQAYSNPGY(0.073)S(0.307)S(0.30	3	1.0895	0.0	0.0
Rffl	0.306717	2.34E-33	83.064	TQAYSNPGY(0.073)S(0.307)S(0.30	3	1.0895	0.0	0.0
Rffl	0.306717	2.34E-33	83.064	TQAYSNPGY(0.073)S(0.307)S(0.30	3	1.0895	0.0	0.0
Pcdh7	0.452295	1.01E-10	62.203	LT(0.095)S(0.452)S(0.452)YETFSA/	3	-0.18176	0.0	0.0
Pcdh7	0.452295	1.01E-10	62.203	LT(0.095)S(0.452)S(0.452)YETFSA/	3	-0.18176	0.0	0.0
Sipa1	0.49069	1.74E-55	91.269	S(0.491)S(0.491)MS(0.019)DEAPV	3	2.3313	0.0	0.0
Sipa1	0.49069	1.74E-55	91.269	S(0.491)S(0.491)MS(0.019)DEAPV	3	2.3313	0.0	0.0
Arfip2	0.489039	9.22E-22	84.046	HPSHS(0.021)T(0.489)S(0.489)PSC	3	0.35569	0.0	0.0
Nup35	0.322359	2.30E-15	83.54	GVLS(0.045)S(0.322)PS(0.322)LAF	3	-0.74791	0.0	0.0
Dctn2	0.45267	5.71E-10	47.371	S(0.002)T(0.002)GGT(0.033)PPDS(	3	3.3234	0.0	0.0
Dctn2	0.45267	5.71E-10	47.371	S(0.002)T(0.002)GGT(0.033)PPDS(	3	3.3234	0.0	0.0
Esam	0.498437	8.18E-26	75.718	AAPPRPGTFTPTPSVSS(0.003)QALS	3	-0.68324	0.0	0.0
Syap1	0.433455	8.53E-158	161.15	NQEDEEEIS(0.02)T(0.433)S(0.433)	4	-0.54174	0.0	0.0
Syap1	0.304311	5.39E-124	128.71	NQEDEEEIS(0.013)T(0.304)S(0.30	6	-0.32716	0.0	0.0
Tox4	0.476346	1.41E-05	48.376	LS(0.001)T(0.003)T(0.01)PS(0.033	3	1.196	0.0	0.0
Zbtb1	0.48896	6.20E-18	73.294	EDASQAPDDS(0.489)AS(0.489)PT(	3	0.025738	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	185
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	237
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	381
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	382
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	991
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	993
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1142
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1123;918
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1124;919
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	445
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	327
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	137
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	140
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	363
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	328
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	329
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	455
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	36
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1203
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1204
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	840
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	841
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	76
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	203
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	204
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	347
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	296

Pdia6	0.499788	0.00114376	76.85	SGGYS(0.5)S(0.5)GK	2	-0.033996	0.0	0.0
Tacc1	0.352628	1.96E-07	43.306	DGSSKPVGVEQLT(0.002)DPT(0.03	4	-0.59903	0.0	0.0
Tacc2	0.333333	8.70E-13	65.231	VEPGQEDHADT(0.333)S(0.333)S(C	3	1.4945	0.0	0.0
Tacc2	0.333333	8.70E-13	65.231	VEPGQEDHADT(0.333)S(0.333)S(C	3	1.4945	0.0	0.0
Dmd	0.449204	7.32E-12	131.49	S(0.102)DS(0.449)S(0.449)QPMLLI	2	1.1798	0.0	0.0
Pcyt1a	0.490643	8.54E-06	68.283	TSPS(0.001)S(0.006)S(0.125)PAS(C	2	-0.038257	0.0	0.0
Ptbp2	0.464752	2.26E-55	91.599	GSDLLSGSVLS(0.465)S(0.4)PNS(0	5	0.24087	0.0	0.0
Ptbp2	0.303791	1.06E-54	86.449	GSDLLSGS(0.001)VLS(0.304)S(0.3	4	0.88446	0.0	0.0
Ptbp2	0.303791	1.06E-54	86.449	GSDLLSGS(0.001)VLS(0.304)S(0.3	4	0.88446	0.0	0.0
Ptbp2	0.249686	4.20E-43	82.6	GSDLLSGS(0.001)VLS(0.25)S(0.25	4	1.1276	0.0	0.0
Arhgef6	0.476364	3.35E-08	102.28	GPAS(0.014)CS(0.476)S(0.476)LS(C	2	0.32194	0.0	0.0
Arhgef6	0.476364	3.35E-08	102.28	GPAS(0.014)CS(0.476)S(0.476)LS(C	2	0.32194	0.0	0.0
Sorbs3	0.492794	7.83E-22	85.087	QPAPQNAQNWS(0.493)AT(0.493)	3	0.053555	0.0	0.0
Nudt9	0.498888	0.00277853	50.314	ART(0.499)S(0.499)PY(0.001)PGS(C	3	0.40629	0.0	0.0
Kars	0.396549	3.17E-12	63.682	ETATAT(0.005)ET(0.108)PES(0.397	2	-0.58061	0.0	0.0
Kars	0.423449	4.50E-18	71.98	ETATATET(0.001)PES(0.076)T(0.07	2	0.13816	0.0	0.0
Irf3	0.495277	0.00117183	41.621	DFVHLDT(0.495)S(0.495)PDT(0.00	3	-4.1482	0.0	0.0
Sdpr	0.489378	0.00111627	62.088	AS(0.003)S(0.018)GKS(0.489)S(0.4	2	-0.2923	0.0	0.0
Sdpr	0.499626	0.000201305	56.956	EGES(0.5)S(0.5)AENET(0.001)K	3	-1.6807	0.0	0.0
Sdpr	0.23013	3.10E-20	57.15	LEEQVQDDHEEGS(0.23)FT(0.23)E(C	4	-0.0043579	0.0	0.0
Sdpr	0.23013	3.10E-20	57.15	LEEQVQDDHEEGS(0.23)FT(0.23)E(C	4	-0.0043579	0.0	0.0
Tex264	0.333277	3.72E-32	70.718	SEHSYSESGAS(0.333)GS(0.333)S(0	4	-0.61481	0.0	0.0
Tex264	0.489865	1.72E-78	101.66	SEHSYSESGAS(0.02)GS(0.49)S(0.49	3	0.0048447	0.0	0.0
Tex264	0.489865	1.72E-78	101.66	SEHSYSESGAS(0.02)GS(0.49)S(0.49	3	0.0048447	0.0	0.0
Mief1	0.220551	1.34E-14	57.142	S(0.157)LQT(0.157)LPT(0.221)DS(C	3	0.99048	0.0	0.0
Mief1	0.220551	1.34E-14	57.142	S(0.157)LQT(0.157)LPT(0.221)DS(C	3	0.99048	0.0	0.0
Tmem109	0.491199	0.00729614	41.164	S(0.491)S(0.491)GT(0.018)HLEAK	3	0.26612	0.0	0.0
Tmem109	0.491199	0.00729614	41.164	S(0.491)S(0.491)GT(0.018)HLEAK	3	0.26612	0.0	0.0
Agtrap	0.299114	1.91E-24	67.396	SDFFGPSQEHSAY(0.008)QT(0.091)	4	-1.1412	0.0	0.0
Agtrap	0.299114	1.91E-24	67.396	SDFFGPSQEHSAY(0.008)QT(0.091)	4	-1.1412	0.0	0.0
Agtrap	0.299114	1.91E-24	67.396	SDFFGPSQEHSAY(0.008)QT(0.091)	4	-1.1412	0.0	0.0
Agtrap	0.488138	3.98E-17	55.9	SDFFGPSQEHS(0.001)AY(0.013)QT	4	-1.5502	0.0	0.0
Abhd6	0.499879	1.74E-09	73.415	S(0.5)S(0.5)LDDLIVGQVK	3	0.10797	0.0	0.0
Abhd6	0.499879	1.74E-09	73.415	S(0.5)S(0.5)LDDLIVGQVK	3	0.10797	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	152
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	370
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	733
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	734
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	542
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	26
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	27
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	30
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	33
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	400;578;578
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	401;579;579
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	100
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	18
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	590
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	594
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	287
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	332
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	335
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	268
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	207
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	139
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	141
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	148
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115

Gpr126	0.399777	3.17E-08	57.366	S(0.005)LS(0.019)S(0.08)S(0.4)S(0.	3	4.4266	0.0	0.0
Gpr126	0.399777	3.17E-08	57.366	S(0.005)LS(0.019)S(0.08)S(0.4)S(0.	3	4.4266	0.0	0.0
Crtc3	0.462331	1.38E-30	70.57	IALS(0.12)S(0.462)S(0.408)LNS(0.0	4	-0.97605	0.0	0.0
Kndc1	0.446415	1.13E-05	47.726	AAAS(0.107)PS(0.446)S(0.446)PRC	4	-0.52475	0.0	0.0
Kndc1	0.446415	1.13E-05	47.726	AAAS(0.107)PS(0.446)S(0.446)PRC	4	-0.52475	0.0	0.0
Kndc1	0.427528	8.68E-07	44.164	VVNGPAS(0.428)PS(0.397)ES(0.12	3	0.6503	0.0	0.0
Lcor	0.307308	2.48E-05	49.343	T(0.307)S(0.307)S(0.26)PQDLET(0	3	-0.78096	0.0	0.0
Afap1l2	0.333333	7.54E-14	114.31	KKS(0.333)T(0.333)S(0.333)LEPPD	3	-0.42145	0.0	0.0
Ablim1	0.472029	3.11E-18	76.176	DCLCQLCAQPMS(0.056)S(0.472)S(	2	0.35631	0.0	0.0
Ablim1	0.472029	3.11E-18	76.176	DCLCQLCAQPMS(0.056)S(0.472)S(	2	0.35631	0.0	0.0
Ablim1	0.285489	7.41E-11	52.402	T(0.222)S(0.222)S(0.251)ES(0.285	4	1.4403	0.0	0.0
Ablim1	0.333331	6.14E-17	92.633	S(0.333)T(0.333)S(0.333)QGSINSP	3	0.26913	0.0	0.0
Ablim1	0.493258	0.000292849	44.641	Y(0.009)DS(0.627)PLHS(0.212)AS(	3	0.62143	0.0	0.0
Fam169a	0.441674	7.78E-27	83.251	AVDS(0.442)S(0.442)S(0.117)EEIE'	3	-0.49639	0.0	0.0
Fam169a	0.441674	7.78E-27	83.251	AVDS(0.442)S(0.442)S(0.117)EEIE'	3	-0.49639	0.0	0.0
Fam169a	0.488597	1.24E-19	72.99	SQSEEQSEAS(0.489)S(0.489)EQLEI	4	-0.11816	0.0	0.0
Fam169a	0.488597	1.24E-19	72.99	SQSEEQSEAS(0.489)S(0.489)EQLEI	4	-0.11816	0.0	0.0
Fam169a	0.333198	8.25E-35	71.623	TSLAAEENDS(0.333)S(0.333)S(0.3	4	1.2942	0.0	0.0
Fam169a	0.333198	8.25E-35	71.623	TSLAAEENDS(0.333)S(0.333)S(0.3	4	1.2942	0.0	0.0
Fam169a	0.333198	8.25E-35	71.623	TSLAAEENDS(0.333)S(0.333)S(0.3	4	1.2942	0.0	0.0
Parp8	0.368468	0.0187045	70.747	T(0.132)CS(0.132)S(0.368)T(0.368	2	1.0877	0.0	0.0
Rictor	0.43745	1.07E-21	78.354	S(0.125)NS(0.437)VS(0.437)LVPPC	3	1.5112	0.0	0.0
Rictor	0.43745	1.07E-21	78.354	S(0.125)NS(0.437)VS(0.437)LVPPC	3	1.5112	0.0	0.0
Rictor	0.129573	7.44E-06	41.615	SQSFNTDT(0.01)T(0.13)T(0.13)S(0	3	0.099821	0.0	0.0
Rictor	0.129573	7.44E-06	41.615	SQSFNTDT(0.01)T(0.13)T(0.13)S(0	3	0.099821	0.0	0.0
Rictor	0.129573	7.44E-06	41.615	SQSFNTDT(0.01)T(0.13)T(0.13)S(0	3	0.099821	0.0	0.0
Sh3d19	0.45926	0.00011185	44.252	KS(0.013)AS(0.133)PDAPPY(0.395	4	-0.65582	0.0	0.0
Prrc2b	0.489818	1.28E-15	63.906	S(0.49)S(0.49)PY(0.001)GT(0.015)	4	0.28941	0.0	0.0
Prrc2b	0.489818	1.28E-15	63.906	S(0.49)S(0.49)PY(0.001)GT(0.015)	4	0.28941	0.0	0.0
Ralgps1	0.499607	1.05E-06	49.266	LVS(0.5)S(0.5)KEDLAGPS(0.001)AC	4	0.90771	0.0	0.0
Gapvd1	0.499888	2.19E-40	84.398	EELQNMSADDLPDS(0.5)AS(0.5)QA	3	-0.7421	0.0	0.0
Gapvd1	0.499888	2.19E-40	84.398	EELQNMSADDLPDS(0.5)AS(0.5)QA	3	-0.7421	0.0	0.0
Gapvd1	0.392369	1.21E-22	64.726	EVS(0.392)S(0.392)RPS(0.106)T(0.	4	0.40304	0.0	0.0
Gapvd1	0.466775	3.08E-66	95.13	EVS(0.144)S(0.467)RPS(0.194)T(0.	5	-2.1453	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1134
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1135
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	343
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	842
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	843
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	951
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	240
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	365
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242;143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243;144
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	382;283
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477;378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	630;543
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	628
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	629
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	611
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	612
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	445
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	446
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	447
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	324
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1231
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1233
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1174
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1177
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	434
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1702
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1703
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1055
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1057
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	757
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	758

Gapvd1	0.342644	4.15E-10	49.559	S(0.343)S(0.343)S(0.311)LDMT(0.0	5	-0.33812	0.0	0.0
Gapvd1	0.342644	4.15E-10	49.559	S(0.343)S(0.343)S(0.311)LDMT(0.0	5	-0.33812	0.0	0.0
Soga1	0.215412	1.30E-10	51.323	T(0.177)KS(0.177)VS(0.215)S(0.21	4	1.1578	0.0	0.0
Soga1	0.215412	1.30E-10	51.323	T(0.177)KS(0.177)VS(0.215)S(0.21	4	1.1578	0.0	0.0
Soga1	0.215412	1.30E-10	51.323	T(0.177)KS(0.177)VS(0.215)S(0.21	4	1.1578	0.0	0.0
Tshz2	0.417865	2.93E-10	47.803	VFDVNRPCS(0.418)PDS(0.17)T(0.1	4	-0.38926	0.0	0.0
Tshz2	0.221661	1.56E-06	41.166	VFDVNRPCS(0.065)PDS(0.222)T(0	3	0.52176	0.0	0.0
Tshz2	0.221661	1.56E-06	41.166	VFDVNRPCS(0.065)PDS(0.222)T(0	3	0.52176	0.0	0.0
Dido1	0.333547	1.78E-31	72.474	YLS(0.001)VPPS(0.334)PNT(0.291)	4	-0.42494	0.0	0.0
Dido1	0.492521	9.11E-56	91.767	YSVHSADTT(0.001)AS(0.028)S(0.4	6	0.1437	0.0	0.0
Dido1	0.492719	9.11E-56	91.767	YSVHSADTT(0.001)AS(0.028)S(0.4	6	0.1437	0.0	0.0
Lsm14b	0.33328	1.84E-05	42.633	SPMVEQAVQT(0.333)S(0.333)S(0.	4	1.2196	0.0	0.0
Lsm14b	0.398743	1.29E-06	48.907	SPMVEQAVQT(0.301)S(0.301)S(0.	3	0.99494	0.0	0.0
Ccdc136	0.310919	2.83E-38	79.512	S(0.001)YAS(0.066)S(0.311)S(0.31	3	-1.9248	0.0	0.0
Dennd2a	0.247881	9.61E-07	50.188	CVLT(0.005)FPGS(0.248)PT(0.248)	3	0.79021	0.0	0.0
Dennd2a	0.247881	9.61E-07	50.188	CVLT(0.005)FPGS(0.248)PT(0.248)	3	0.79021	0.0	0.0
Dennd2a	0.247881	9.61E-07	50.188	CVLT(0.005)FPGS(0.248)PT(0.248)	3	0.79021	0.0	0.0
Dennd2a	0.49903	1.65E-91	123.24	NLPLPLSPPPPPPLPS(0.499)S(0.49	3	0.37948	0.0	0.0
Osbp13	0.436874	6.79E-20	64.845	DVNHFFPGS(0.437)S(0.437)VT(0.1	3	-1.7411	0.0	0.0
Osbp13	0.436874	6.79E-20	64.845	DVNHFFPGS(0.437)S(0.437)VT(0.1	3	-1.7411	0.0	0.0
Osbp13	0.41309	1.27E-10	51.617	DVNHFFPGSSVTDSAPGVFES(0.325	3	2.2548	0.0	0.0
Osbp13	0.325528	6.46E-15	69.188	QLMELDT(0.004)S(0.019)S(0.326):	3	-2.0178	0.0	0.0
Osbp13	0.325528	6.46E-15	69.188	QLMELDT(0.004)S(0.019)S(0.326):	3	-2.0178	0.0	0.0
Fbln2	0.295144	1.42E-07	45.347	SGLAGLS(0.002)PS(0.017)LAT(0.22	3	-3.5371	0.0	0.0
Prrt3	0.309936	4.05E-07	43.841	GSVGPAPS(0.277)LS(0.31)ELDLRPI	4	0.0096289	0.0	0.0
Caprin2	0.483611	3.50E-23	64.547	S(0.008)MT(0.025)PVDVPVT(0.48	4	-0.097304	0.0	0.0
Asph	0.310233	2.16E-43	83.332	GGGGNSSSS(0.001)GS(0.024)GS(0	3	1.0555	0.0	0.0
Asph	0.310233	2.16E-43	83.332	GGGGNSSSS(0.001)GS(0.024)GS(0	3	1.0555	0.0	0.0
Asph	0.310233	2.16E-43	83.332	GGGGNSSSS(0.001)GS(0.024)GS(0	3	1.0555	0.0	0.0
Fsd1l	0.446633	2.10E-11	63.447	SENGMT(0.001)GS(0.06)AS(0.447)	2	0.56024	0.0	0.0
Fsd1l	0.446633	2.32E-05	52.019	SENGMT(0.001)GS(0.06)AS(0.447)	2	0.56024	0.0	0.0
Dennd4c	0.493831	1.54E-10	49.66	HS(0.002)QPT(0.005)PEPQS(0.494	4	0.23125	0.0	0.0
Dennd4c	0.499122	6.06E-14	62.193	KS(0.499)S(0.499)LDLNS(0.001)SE	4	0.42578	0.0	0.0
Dennd4c	0.499122	6.06E-14	62.193	KS(0.499)S(0.499)LDLNS(0.001)SE	4	0.42578	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	452
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	453
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	959
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	960
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	962
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	336
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	988
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1213
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	164
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	165
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	942
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	395
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	398
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	399
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	300
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	165
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	166
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	370
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	371
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	363
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	796
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	890
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	21
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	23
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	467;489
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	468;490
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	931
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1018
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1019

Dennd4c	0.470805	5.14E-07	47.058	KS(0.077)S(0.077)LDLNS(0.375)S(	3	-1.2736	0.0	0.0
Dennd4c	0.407635	0.0108565	52.6	S(0.055)CS(0.068)FS(0.408)S(0.40	2	-0.71252	0.0	0.0
Dennd4c	0.407635	0.0108565	52.6	S(0.055)CS(0.068)FS(0.408)S(0.40	2	-0.71252	0.0	0.0
Dennd4c	0.496091	1.98E-52	124.1	S(0.496)S(0.496)PNS(0.008)SLGSV	3	1.3251	0.0	0.0
Dennd4c	0.496091	1.98E-52	124.1	S(0.496)S(0.496)PNS(0.008)SLGSV	3	1.3251	0.0	0.0
Dennd4c	0.332495	1.84E-15	54.517	S(0.332)S(0.332)S(0.332)MELHGEI	4	0.80133	0.0	0.0
Dennd4c	0.332495	1.84E-15	54.517	S(0.332)S(0.332)S(0.332)MELHGEI	4	0.80133	0.0	0.0
Dennd4c	0.470081	0.0207456	45.653	S(0.106)T(0.106)S(0.47)LS(0.318)A	2	1.9499	0.0	0.0
Hectd1	0.333011	1.43E-93	130.15	APGESSAISMGIVS(0.333)VS(0.333	4	-0.42673	0.0	0.0
Hectd1	0.333011	1.43E-93	130.15	APGESSAISMGIVS(0.333)VS(0.333	4	-0.42673	0.0	0.0
Hectd1	0.333011	1.43E-93	130.15	APGESSAISMGIVS(0.333)VS(0.333	4	-0.42673	0.0	0.0
Hectd1	0.464421	1.67E-15	88.781	EAASQRPLS(0.066)S(0.464)S(0.46	3	-0.57893	0.0	0.0
Hectd1	0.464421	1.67E-15	88.781	EAASQRPLS(0.066)S(0.464)S(0.46	3	-0.57893	0.0	0.0
Hectd1	0.476148	1.62E-16	68.835	KGS(0.357)S(0.116)S(0.476)S(0.05	5	2.2412	0.0	0.0
Hectd1	0.40061	2.06E-33	80.067	LS(0.255)VS(0.344)S(0.401)LLAAG	3	-0.12959	0.0	0.0
Hectd1	0.432187	0.000783621	42.52	S(0.361)S(0.432)S(0.192)DNNT(0.0	3	-1.2717	0.0	0.0
Cep170b	0.430922	2.99E-12	61.039	GAS(0.002)PVT(0.026)PS(0.109)S(	3	0.4158	0.0	0.0
Cep170b	0.494951	5.18E-09	57.525	GHKHEDGT(0.01)QS(0.495)DS(0.4	4	-1.0138	0.0	0.0
Cep170b	0.430371	1.63E-27	101.49	QES(0.041)FT(0.266)KEPT(0.262)S	3	-1.9244	0.0	0.0
Cep170b	0.419843	0.000357786	56.569	S(0.094)NS(0.42)LS(0.42)T(0.066)I	3	-0.12147	0.0	0.0
Cep170b	0.456404	5.35E-08	68.481	S(0.015)QS(0.456)FT(0.456)HT(0.0	3	-0.1577	0.0	0.0
Pacs2	0.127924	1.90E-18	49.038	VGIVEPSS(0.002)AT(0.042)S(0.128	5	0.3084	0.0	0.0
Pacs2	0.139134	3.86E-24	58.867	VGIVEPSSAT(0.005)S(0.014)GDS(0	4	0.056916	0.0	0.0
Pacs2	0.139134	3.86E-24	58.867	VGIVEPSSAT(0.005)S(0.014)GDS(0	4	0.056916	0.0	0.0
Pacs2	0.139134	3.86E-24	58.867	VGIVEPSSAT(0.005)S(0.014)GDS(0	4	0.056916	0.0	0.0
Pacs2	0.139134	3.86E-24	58.867	VGIVEPSSAT(0.005)S(0.014)GDS(0	4	0.056916	0.0	0.0
Pacs2	0.139134	3.86E-24	58.867	VGIVEPSSAT(0.005)S(0.014)GDS(0	4	0.056916	0.0	0.0
Pacs2	0.139134	3.86E-24	58.867	VGIVEPSSAT(0.005)S(0.014)GDS(0	4	0.056916	0.0	0.0
Esyt2	0.428671	9.36E-13	70.986	S(0.351)S(0.429)S(0.11)S(0.11)LLA	3	-0.23529	0.0	0.0
Pram1	0.436345	0.000472308	44.44	S(0.367)S(0.436)QS(0.195)ELS(0.0	3	0.010627	0.0	0.0
Deptor	0.392365	0.00160771	45.438	KS(0.191)T(0.392)S(0.392)FMS(0.0	3	1.484	0.0	0.0
Deptor	0.42377	2.83E-101	156.31	LMELLNEKS(0.424)PS(0.258)S(0.3	4	0.61716	0.0	0.0
Deptor	0.468462	2.12E-23	61.889	S(0.468)S(0.468)MS(0.059)S(0.00	4	-0.80865	0.0	0.0
Deptor	0.468462	2.12E-23	61.889	S(0.468)S(0.468)MS(0.059)S(0.00	4	-0.80865	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1025
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1006
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1007
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1284
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1285
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1207
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1277
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1367
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1369
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1370
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1392
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1393
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1268
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1402
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1452
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	568
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	390
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	897
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1129
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	449
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	691
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	694
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	700
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	702
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	703
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	706
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	707
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	667
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	53
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	159
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	134
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179

Deptor	0.137397	6.29E-18	61.522	SSMSSCGSS(0.001)GY(0.037)FS(0.	4	0.84887	0.0	0.0
Deptor	0.137397	6.29E-18	61.522	SSMSSCGSS(0.001)GY(0.037)FS(0.	4	0.84887	0.0	0.0
Deptor	0.137397	6.29E-18	61.522	SSMSSCGSS(0.001)GY(0.037)FS(0.	4	0.84887	0.0	0.0
Deptor	0.137397	6.29E-18	61.522	SSMSSCGSS(0.001)GY(0.037)FS(0.	4	0.84887	0.0	0.0
Deptor	0.137397	6.29E-18	61.522	SSMSSCGSS(0.001)GY(0.037)FS(0.	4	0.84887	0.0	0.0
Deptor	0.137397	6.29E-18	61.522	SSMSSCGSS(0.001)GY(0.037)FS(0.	4	0.84887	0.0	0.0
Tbc1d22a	0.429171	1.76E-29	78.736	S(0.429)VS(0.429)ES(0.127)HT(0.0	4	0.18551	0.0	0.0
LOC100911	0.494787	4.23E-11	61.437	DVLNPVVPVPS(0.495)S(0.37)PT(0.	3	0.54107	0.0	0.0
Arhgap32	0.241783	8.59E-52	95.666	DVEAGGSQSQT(0.013)PGS(0.242)	3	-0.18127	0.0	0.0
Arhgap32	0.241783	8.59E-52	95.666	DVEAGGSQSQT(0.013)PGS(0.242)	3	-0.18127	0.0	0.0
Arhgap32	0.241783	8.59E-52	95.666	DVEAGGSQSQT(0.013)PGS(0.242)	3	-0.18127	0.0	0.0
Arhgap32	0.493792	5.92E-15	54.66	VSEVIGT(0.005)VS(0.077)NT(0.20	4	-2.4795	0.0	0.0
Dopey1	0.499353	0.000108355	88.021	S(0.001)HS(0.499)S(0.499)IQFSFK	2	0.14511	0.0	0.0
Safb2	0.3582	1.15E-15	57.997	SEPVKEEGSELEQPFAQAT(0.358)S(	4	2.588	0.0	0.0
Dst	0.493526	5.79E-32	109.5	SES(0.012)NS(0.494)S(0.494)IT(0.	3	0.5776	0.0	0.0
Dst	0.204513	3.94E-11	53.064	S(0.182)T(0.205)S(0.205)AS(0.205	4	-0.24579	0.0	0.0
Dst	0.204513	3.94E-11	53.064	S(0.182)T(0.205)S(0.205)AS(0.205	4	-0.24579	0.0	0.0
Plekhn3	0.473125	2.99E-13	73.138	KS(0.473)S(0.473)GLLAS(0.054)PV	4	1.4511	0.0	0.0
Pikfyve	0.429518	1.77E-05	43.349	SGSPMVPS(0.012)Y(0.007)ET(0.13	3	-1.8295	0.0	0.0
Ercc5	0.331529	2.09E-10	49.662	NTCNS(0.001)S(0.003)HLS(0.332)S	3	-1.2761	0.0	0.0
Ercc5	0.331529	2.09E-10	49.662	NTCNS(0.001)S(0.003)HLS(0.332)S	3	-1.2761	0.0	0.0
Ccnyl1	0.477156	1.84E-21	70.449	KYS(0.477)S(0.477)CS(0.037)T(0.0	4	-0.78047	0.0	0.0
Mtcl1	0.429605	1.56E-06	75.01	AVS(0.43)VS(0.43)CMS(0.141)EFQ	2	-0.71925	0.0	0.0
Mtcl1	0.429605	1.56E-06	75.01	AVS(0.43)VS(0.43)CMS(0.141)EFQ	2	-0.71925	0.0	0.0
Mtcl1	0.286213	5.43E-11	48.773	GLPS(0.021)AS(0.286)S(0.286)REC	3	1.6087	0.0	0.0
Mtcl1	0.286213	5.43E-11	48.773	GLPS(0.021)AS(0.286)S(0.286)REC	3	1.6087	0.0	0.0
Sh3pxd2b	0.444602	5.51E-72	104.4	KAS(0.445)S(0.445)DLS(0.07)AS(0.	4	-0.64034	0.0	0.0
Sh3pxd2b	0.447496	4.50E-08	45.983	KS(0.447)GS(0.447)DPT(0.052)S(0	4	0.83327	0.0	0.0
Sh3pxd2b	0.447496	4.50E-08	45.983	KS(0.447)GS(0.447)DPT(0.052)S(0	4	0.83327	0.0	0.0
Larp1	0.449554	7.39E-16	69.331	GLS(0.009)AS(0.236)LPDLDS(0.30	3	0.27539	0.0	0.0
Larp1	0.317115	5.63E-31	73.361	T(0.001)AS(0.004)IS(0.07)S(0.317)	5	-0.85936	0.0	0.0
Larp1	0.392651	8.32E-07	41.468	T(0.003)AS(0.013)IS(0.086)S(0.23	4	0.50518	0.0	0.0
Larp1	0.339643	2.71E-38	77.576	TASISSPSEGT(0.015)PAVGS(0.34)	3	2.6529	0.0	0.0
Tex2	0.428827	5.03E-07	43.103	CVPQDGQS(0.429)PHRS(0.429)PV	4	0.71273	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	190
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	191
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	192
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	196
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	197
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	198
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	142
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	580
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	499
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	502
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	503
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	586
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1254
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	240;246
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	7289;7461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	7346;7518
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	7347;7519
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	344
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	358
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	569
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	570
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1037
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1039
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1063
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1064
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	500
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	142
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	144
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	425
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	719
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	722
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	730
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	791



Tex2	0.497531	0.000197959	67.334	S(0.005)LS(0.498)T(0.498)EVEPK	3	0.012081	0.0	0.0
Tex2	0.249724	1.41E-07	45.423	SPVLS(0.006)S(0.018)S(0.056)AS(C	4	-0.74435	0.0	0.0
Tex2	0.249724	1.41E-07	45.423	SPVLS(0.006)S(0.018)S(0.056)AS(C	4	-0.74435	0.0	0.0
Tex2	0.249724	1.41E-07	45.423	SPVLS(0.006)S(0.018)S(0.056)AS(C	4	-0.74435	0.0	0.0
Tex2	0.483942	1.70E-20	106.2	TAPS(0.484)S(0.484)PLT(0.023)S(C	2	0.041051	0.0	0.0
Tex2	0.483942	1.70E-20	106.2	TAPS(0.484)S(0.484)PLT(0.023)S(C	2	0.041051	0.0	0.0
Tex2	0.45727	5.96E-16	130.1	T(0.003)S(0.001)S(0.063)S(0.457)S	2	0.91521	0.0	0.0
Tex2	0.45727	5.96E-16	130.1	T(0.003)S(0.001)S(0.063)S(0.457)S	2	0.91521	0.0	0.0
Crybg3	0.458333	1.85E-15	65.248	S(0.458)RES(0.458)ANQPS(0.081)S	3	-0.68155	0.0	0.0
Crybg3	0.458333	1.85E-15	65.248	S(0.458)RES(0.458)ANQPS(0.081)S	3	-0.68155	0.0	0.0
Vps8	0.452719	0.00190235	52.6	MS(0.236)PS(0.453)Y(0.219)HQS(C	3	-2.1386	0.0	0.0
Vps8	0.404619	0.00280917	62.166	MS(0.201)PS(0.383)Y(0.011)HQS(C	2	-0.1913	0.0	0.0
Eif4g1	0.423539	1.28E-06	42.052	PIPES(0.01)EFS(0.095)S(0.424)S(0.	4	2.4532	0.0	0.0
Eif4g1	0.423539	1.28E-06	42.052	PIPES(0.01)EFS(0.095)S(0.424)S(0.	4	2.4532	0.0	0.0
Eif4g1	0.329311	2.13E-19	56.22	T(0.017)AS(0.053)T(0.176)PT(0.09	5	1.4501	0.0	0.0
Ints1	0.467069	5.72E-05	61.757	LS(0.064)S(0.467)T(0.467)PPLS(0.(	2	2.159	0.0	0.0
Micall2	0.499315	1.25E-06	43.241	ESS(0.001)AILDNDLVS(0.499)PDE/	3	1.3488	0.0	0.0
Hectd4	0.287243	1.57E-07	52.185	ASPSATLAALT(0.287)GS(0.287)T(0	3	0.35748	0.0	0.0
Hectd4	0.479002	3.30E-10	83.692	S(0.007)IS(0.479)GT(0.479)PAET(C	3	-0.25557	0.0	0.0
Hectd4	0.480585	3.96E-14	63.398	S(0.102)MS(0.417)APS(0.481)DLEI	3	0.17257	0.0	0.0
Ssh1	0.387405	0.00399328	46.069	S(0.047)S(0.047)S(0.228)S(0.271)I	2	-0.10131	0.0	0.0
LOC68698	0.322077	3.68E-10	47.058	TQLWAS(0.008)EPGT(0.322)PPAP	5	-0.96258	0.0	0.0
Clasp1	0.270412	0.000185754	43.208	AQTTNS(0.002)NS(0.022)S(0.076)S	2	0.83035	0.0	0.0
Clasp1	0.361317	4.01E-32	92.8	AQTTNSNS(0.013)S(0.275)S(0.275	3	0.95918	0.0	0.0
Clasp1	0.270412	0.000185754	43.208	AQTTNS(0.002)NS(0.022)S(0.076)S	2	0.83035	0.0	0.0
Clasp1	0.465988	8.35E-22	80.419	RQS(0.674)S(0.308)GS(0.466)T(0.4	3	-0.17516	0.0	0.0
Clasp1	0.255721	3.64E-27	66.1	TSPLTSPNTCS(0.003)HGGLS(0.256	4	-0.76045	0.0	0.0
Clasp1	0.255721	3.64E-27	66.1	TSPLTSPNTCS(0.003)HGGLS(0.256	4	-0.76045	0.0	0.0
Plekha6	0.299513	1.22E-61	84.845	GGLGPSATYS(0.001)S(0.002)NS(0.	6	1.0349	0.0	0.0
LOC68570	0.48138	3.44E-26	80.994	GGPRPVS(0.036)S(0.481)S(0.481)I	3	-0.40039	0.0	0.0
LOC68570	0.48138	3.44E-26	80.994	GGPRPVS(0.036)S(0.481)S(0.481)I	3	-0.40039	0.0	0.0
LOC68570	0.435948	5.13E-22	74.876	LYHLPPPS(0.436)VGPHS(0.323)IAS	4	0.15219	0.0	0.0
LOC68570	0.378223	4.23E-42	85.855	SASSYSDIEEIIAT(0.101)PDS(0.378)S	3	0.22252	0.0	0.0
LOC68570	0.446333	4.23E-42	85.855	SASSYSDIEEIIAT(0.294)PDS(0.399)S	3	0.58147	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	196
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	266
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	161
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	162
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2092
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2095
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1344
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	344
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	109
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	822
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1579
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1614
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	791
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	358
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1531;1464
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1532;1465
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1533;1466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	649;649
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1096
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1098
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	919;235
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	975
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	976
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2085
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1515
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1516

LOC68570	0.367415	4.82E-33	88.573	SASSYSDIEEIAT(0.009)PDS(0.128)S	3	1.7837	0.0	0.0
LOC68570	0.421521	2.28E-06	48.623	SLAES(0.001)GLS(0.03)WFS(0.422	3	0.95831	0.0	0.0
LOC68570	0.421521	2.28E-06	48.623	SLAES(0.001)GLS(0.03)WFS(0.422	3	0.95831	0.0	0.0
LOC68570	0.491219	1.63E-28	84.653	T(0.001)PPVAVT(0.491)S(0.491)PI	4	1.261	0.0	0.0
RGD13046	0.465223	1.30E-07	50.783	S(0.465)FS(0.413)VEQLQPS(0.117)	3	-0.81651	0.0	0.0
Cep170	0.425597	7.19E-05	54.859	CS(0.006)T(0.096)S(0.426)S(0.426	3	-1.8511	0.0	0.0
Cep170	0.487683	9.86E-24	95.988	LGS(0.001)LS(0.009)ARS(0.488)DS	3	-1.374	0.0	0.0
Cep170	0.494129	1.93E-58	116.05	S(0.494)S(0.494)PVNNHS(0.011)S(	3	0.015984	0.0	0.0
Cep170	0.459735	5.45E-05	47	T(0.061)PLT(0.252)S(0.224)ADEHS	3	0.6312	0.0	0.0
LOC10036	0.3333	9.18E-43	80.729	TPDLSLSAEET(0.333)GLS(0.333)DT	4	-1.4245	0.0	0.0
Fryl	0.480653	1.06E-09	61.903	S(0.158)T(0.158)S(0.481)S(0.158)T	4	-0.75353	0.0	0.0
Ehbp1	0.415269	4.29E-28	83.395	S(0.085)AS(0.415)S(0.415)S(0.085	4	-0.60117	0.0	0.0
Ehbp1	0.415269	4.29E-28	83.395	S(0.085)AS(0.415)S(0.415)S(0.085	4	-0.60117	0.0	0.0
Ehbp1	0.487502	5.94E-58	106.11	T(0.488)S(0.488)GS(0.025)DDPGLS	3	-0.12004	0.0	0.0
Ehbp1	0.377629	1.09E-09	45.941	T(0.307)S(0.307)GS(0.378)DDPGLS	3	1.7996	0.0	0.0
Ehbp1	0.246841	2.01E-15	59.339	TSGSDDPGLS(0.013)S(0.247)S(0.2	3	1.0215	0.0	0.0
Ehbp1	0.246841	2.01E-15	59.339	TSGSDDPGLS(0.013)S(0.247)S(0.2	3	1.0215	0.0	0.0
Ehbp1	0.246841	2.01E-15	59.339	TSGSDDPGLS(0.013)S(0.247)S(0.2	3	1.0215	0.0	0.0
Ehbp1	0.498844	6.34E-22	86.497	VGNYETDT(0.002)NS(0.499)S(0.49	3	-0.43503	0.0	0.0
Ktn1	0.364599	9.62E-23	66.124	LSDASPVEDEQFVPAPLS(0.004)VAE	3	-0.86565	0.0	0.0
Pbrm1	0.301263	2.19E-15	55.406	AT(0.026)S(0.086)PS(0.301)S(0.27	3	0.45058	0.0	0.0
Psd3	0.332226	8.62E-18	76.118	S(0.045)HS(0.29)S(0.332)PS(0.332	2	0.23163	0.0	0.0
RGD15613	0.349982	0.000860701	64.711	RAAVAAS(0.052)S(0.248)S(0.35)S(	2	0.44131	0.0	0.0
RGD15613	0.349982	0.000860701	64.711	RAAVAAS(0.052)S(0.248)S(0.35)S(	2	0.44131	0.0	0.0
Pcdh1	0.490937	1.01E-46	106.74	ECSEFGHSDT(0.002)CWMPGQS(0.	3	-0.42216	0.0	0.0
Pcdh1	0.490937	1.01E-46	106.74	ECSEFGHSDT(0.002)CWMPGQS(0.	3	-0.42216	0.0	0.0
Pcdh1	0.441026	4.27E-05	40.997	S(0.441)NS(0.442)PLPS(0.121)IQL	4	-0.63665	0.0	0.0
Dmxl1	0.468002	2.38E-09	58.516	ALS(0.003)AIS(0.121)S(0.468)HS(0	3	-0.18368	0.0	0.0
Dmxl1	0.368474	2.66E-06	46.415	ISEAIWLPEEHY(0.176)S(0.087)S(0.	4	0.069349	0.0	0.0
Dmxl1	0.497337	2.22E-43	99.407	QEPVIADSY(0.001)NGS(0.497)T(0.	3	0.42382	0.0	0.0
Dmxl1	0.332962	3.86E-05	54.09	S(0.333)T(0.333)S(0.333)MLIS(0.0	3	-0.41899	0.0	0.0
Fbxo38	0.192145	1.16E-43	81.844	DVYPSCS(0.001)T(0.002)T(0.003)A	3	-1.2047	0.0	0.0
Fbxo38	0.192145	1.16E-43	81.844	DVYPSCS(0.001)T(0.002)T(0.003)A	3	-1.2047	0.0	0.0
Fbxo38	0.192145	1.16E-43	81.844	DVYPSCS(0.001)T(0.002)T(0.003)A	3	-1.2047	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1519
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	754
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	756
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	821
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	954
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1024
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1556
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	129
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2347
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243;243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	244;244
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	642;642
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	644;644
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	651;651
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	652;652
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	655;655
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	557;557
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	108
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	33
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1262
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	106
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	107
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1080
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1081
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	912
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2406
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	917
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1257
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	572
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	711
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	716
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	717

Fbxo38	0.192145	1.16E-43	81.844	DVYPSCS(0.001)T(0.002)T(0.003)A	3	-1.2047	0.0	0.0
Piezo2	0.472086	5.23E-05	41.115	AVS(0.472)FEHLS(0.273)FAS(0.245	3	-1.0784	0.0	0.0
Rltpr	0.244326	8.10E-28	82.877	AGS(0.212)DGDIMDS(0.244)S(0.2	3	0.61548	0.0	0.0
Rltpr	0.244326	8.10E-28	82.877	AGS(0.212)DGDIMDS(0.244)S(0.2	3	0.61548	0.0	0.0
Rltpr	0.46049	3.96E-41	110.33	GEEPGBAEGGT(0.079)S(0.46)S(0.4	3	0.55971	0.0	0.0
Rltpr	0.48217	3.96E-41	110.33	GEEPGBAEGGT(0.259)S(0.259)S(0	2	0.31737	0.0	0.0
Nhsl2	0.332348	1.85E-31	75.529	ILPYASTS(0.001)S(0.001)EGS(0.33	3	-0.1476	0.0	0.0
Nhsl2	0.332348	1.85E-31	75.529	ILPYASTS(0.001)S(0.001)EGS(0.33	3	-0.1476	0.0	0.0
Nhsl2	0.313245	2.48E-10	49.266	S(0.076)LS(0.247)VPT(0.313)DS(0.	4	2.2175	0.0	0.0
LOC100911	0.486518	0.00149559	54.898	SSQCHS(0.027)GS(0.487)S(0.487)F	2	-0.57175	0.0	0.0
LOC100911	0.486518	0.00149559	54.898	SSQCHS(0.027)GS(0.487)S(0.487)F	2	-0.57175	0.0	0.0
Zfp280c	0.316954	3.81E-12	61.616	S(0.317)S(0.317)S(0.271)PPS(0.09	3	0.12681	0.0	0.0
Zfp280c	0.316954	3.81E-12	61.616	S(0.317)S(0.317)S(0.271)PPS(0.09	3	0.12681	0.0	0.0
LOC10255	0.498198	2.96E-05	49.036	SQSSAT(0.003)EVDHDS(0.498)S(0.	3	1.4063	0.0	0.0
Tab2	0.431614	3.82E-08	56.488	S(0.136)NS(0.432)MS(0.432)QIPS(	3	-1.3168	0.0	0.0
Tab2	0.431614	3.82E-08	56.488	S(0.136)NS(0.432)MS(0.432)QIPS(	3	-1.3168	0.0	0.0
Syne1	0.418299	2.43E-07	57.703	GGG(0.418)DS(0.142)S(0.418)LS(0	3	-0.027487	0.0	0.0
Syne1	0.418299	2.43E-07	57.703	GGG(0.418)DS(0.142)S(0.418)LS(0	3	-0.027487	0.0	0.0
Fndc1	0.416066	1.11E-21	83.252	QSHS(0.03)S(0.137)T(0.416)S(0.41	3	0.67973	0.0	0.0
Gramd1a	0.499389	0.000427544	86.879	GS(0.001)DS(0.499)S(0.499)S(0.00	3	0.98309	0.0	0.0
Gramd1a	0.499389	0.000427544	86.879	GS(0.001)DS(0.499)S(0.499)S(0.00	3	0.98309	0.0	0.0
Gramd1a	0.333322	0.0016277	86.879	GSDS(0.333)S(0.333)S(0.333)EK	2	0.047095	0.0	0.0
Plekha4	0.488023	9.98E-09	48.773	AEGEDWPFS(0.488)PLS(0.137)RPF	3	0.084023	0.0	0.0
Plekha4	0.477883	0.000299213	67.656	S(0.001)S(0.001)GS(0.034)WS(0.4	2	-0.80467	0.0	0.0
Plekha4	0.477883	0.000299213	67.656	S(0.001)S(0.001)GS(0.034)WS(0.4	2	-0.80467	0.0	0.0
Tjp1	0.331445	4.15E-11	43.416	ADGAT(0.001)S(0.002)DDLHLHDD	4	-0.25625	0.0	0.0
Tjp1	0.331445	4.15E-11	43.416	ADGAT(0.001)S(0.002)DDLHLHDD	4	-0.25625	0.0	0.0
Tjp1	0.36032	1.90E-79	100.66	SSEPVEDSSGMHHENQT(0.023)Y(	5	-0.42394	0.0	0.0
Tjp1	0.344326	5.08E-11	47.286	VQIPVSHPPDPVVS(0.344)DNEDDS	4	0.90048	0.0	0.0
Hcfc1	0.316686	5.66E-11	42.319	GTSVMVT(0.001)HY(0.033)FLPPDI	4	1.9223	0.0	0.0
Hcfc1	0.316686	5.66E-11	42.319	GTSVMVT(0.001)HY(0.033)FLPPDI	4	1.9223	0.0	0.0
Hcfc1	0.497874	1.88E-16	96.096	VAS(0.498)S(0.498)PVMVS(0.004)	2	0.10985	0.0	0.0
Hcfc1	0.497874	1.88E-16	96.096	VAS(0.498)S(0.498)PVMVS(0.004)	2	0.10985	0.0	0.0
Hcfc1	0.307694	3.20E-39	84.327	YDIPATAAT(0.001)AT(0.308)S(0.30	3	0.60476	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	718
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1906
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1213
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	556
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	558
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	527
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	524
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	525
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	510
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	511
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	47
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	584
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2943;8749
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2946;8752
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	577
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	49
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	50
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	162
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	654
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	655
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	967
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	970
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1045
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	277
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1849
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1853
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	597
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	598
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	411

Hcfc1	0.249955	1.08E-30	71.651	YDIPATAATAT(0.25)S(0.25)PT(0.25)	5	0.14214	0.0	0.0
Pak1	0.498174	5.67E-43	96.238	DVAT(0.001)S(0.003)PIS(0.498)PT	3	0.015291	0.0	0.0
Map6	0.376091	2.50E-11	53.444	SGLGLGAAS(0.097)GS(0.376)T(0.3	3	-0.27285	0.0	0.0
Map6	0.430032	7.95E-22	80.236	T(0.002)T(0.002)ES(0.255)PS(0.43	4	-0.30794	0.0	0.0
RGD13107	0.329517	2.80E-07	79.337	T(0.01)NS(0.33)S(0.33)S(0.307)S(C	3	-0.00034854	0.0	0.0
RGD13107	0.329517	2.80E-07	79.337	T(0.01)NS(0.33)S(0.33)S(0.307)S(C	3	-0.00034854	0.0	0.0
RGD13107	0.230573	0.00019871	56.514	T(0.055)NS(0.231)S(0.231)S(0.231	2	0.53102	0.0	0.0
RGD13107	0.230573	0.00019871	56.514	T(0.055)NS(0.231)S(0.231)S(0.231	2	0.53102	0.0	0.0
Stard10	0.491389	6.29E-17	96.673	AGGAGEGS(0.491)DDDT(0.491)S(0.4	2	0.20598	0.0	0.0
St5	0.443141	0.000314894	40.432	S(0.001)ET(0.003)PGNS(0.105)S(0.0	3	0.73584	0.0	0.0
St5	0.399111	6.07E-05	41.166	T(0.399)LS(0.399)ECS(0.16)Y(0.03	2	2.0723	0.0	0.0
Sox6	0.361761	3.84E-08	52.898	TAEPVKS(0.021)PT(0.084)S(0.362)	4	0.58154	0.0	0.0
Eef2k	0.478864	6.11E-15	54.097	DSENSGDS(0.007)GY(0.035)PS(0.4	4	-0.20972	0.0	0.0
Eef2k	0.457539	0.000162417	51.004	T(0.085)LS(0.458)GS(0.458)RPPLLI	3	1.1095	0.0	0.0
Eef2k	0.457539	0.000162417	51.004	T(0.085)LS(0.458)GS(0.458)RPPLLI	3	1.1095	0.0	0.0
Sh2b1	0.308404	2.36E-14	53.886	VGGPLAVLGPS(0.308)RS(0.308)S(0.3	4	-0.26214	0.0	0.0
Mark2	0.290835	5.07E-08	41.65	SSELEGDT(0.009)IT(0.022)LKPRPSI	5	-1.708	0.0	0.0
Mark2	0.290835	5.07E-08	41.65	SSELEGDT(0.009)IT(0.022)LKPRPSI	5	-1.708	0.0	0.0
Anxa1	0.434517	2.40E-10	51.46	S(0.163)Y(0.004)KGGPGS(0.313)A'	4	0.22994	0.0	0.0
Tjp2	0.496781	1.25E-07	69.92	ERPS(0.497)S(0.497)REET(0.006)S	4	-0.05153	0.0	0.0
Tjp2	0.424308	1.26E-15	56.474	MGAT(0.011)PT(0.128)PFKS(0.424	5	0.2881	0.0	0.0
Tjp2	0.388572	2.43E-07	60.489	QQYSDQEY(0.13)HS(0.389)S(0.389	2	-0.17333	0.0	0.0
Tjp2	0.333333	8.37E-39	79.382	SILKPSTPVPMPES(0.333)EEVGES(C	5	1.6299	0.0	0.0
Tjp2	0.494124	3.19E-39	79.382	SILKPSTPVPMPES(0.012)EEVGES(C	4	-1.2867	0.0	0.0
Gbf1	0.361856	6.21E-12	63.639	AAS(0.024)S(0.096)S(0.417)S(0.47	3	-0.089697	0.0	0.0
Gbf1	0.499372	4.35E-60	99.838	ADAPDAGAQS(0.499)DS(0.499)EL	4	-0.39468	0.0	0.0
Gbf1	0.293177	3.44E-20	56.729	AQS(0.001)AS(0.004)VES(0.293)IP	5	-1.5101	0.0	0.0
Gbf1	0.333374	1.01E-45	79.59	AQS(0.001)AS(0.006)VES(0.225)IP	4	-1.3538	0.0	0.0
Gbf1	0.332229	3.00E-16	55.662	EITT(0.001)T(0.002)EPGS(0.332)T(	4	-0.41746	0.0	0.0
Gbf1	0.332229	3.00E-16	55.662	EITT(0.001)T(0.002)EPGS(0.332)T(	4	-0.41746	0.0	0.0
Gbf1	0.488863	9.78E-22	78.917	GYT(0.489)S(0.489)DS(0.022)EVYT	4	-0.46372	0.0	0.0
Srek1	0.425275	0.00818163	43.501	KS(0.425)S(0.425)S(0.149)DRDGK	3	-0.62949	0.0	0.0
Srek1	0.462217	0.00265033	47.712	KS(0.221)S(0.317)S(0.462)DRDGK	4	-0.39705	0.0	0.0
Sub1	0.265883	3.63E-05	47.68	QS(0.266)S(0.202)S(0.266)S(0.266	4	0.19993	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	419
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	222
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	108
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	592
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	173
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	174
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	175
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	176
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	283
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	383
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	247
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	402
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	448
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	365
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	367
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	386
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	387
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	420;447
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	441;468
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	411;438
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1036;1026
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1042;1032
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1787
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1301
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	363
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	325
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	426
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	428
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55

Sub1	0.329802	9.08E-51	154.39	QS(0.011)S(0.33)S(0.33)S(0.33)RD	3	-1.1702	0.0	0.0
Sub1	0.329802	9.08E-51	154.39	QS(0.011)S(0.33)S(0.33)S(0.33)RD	3	-1.1702	0.0	0.0
Sub1	0.329802	9.08E-51	154.39	QS(0.011)S(0.33)S(0.33)S(0.33)RD	3	-1.1702	0.0	0.0
Rai14	0.4226	1.95E-08	54.225	EALNSLS(0.004)QLS(0.423)Y(0.225)	3	0.53524	0.0	0.0
Rai14	0.173289	5.95E-05	43.216	EALNSLS(0.001)QLS(0.071)Y(0.061)	3	0.48115	0.0	0.0
Rai14	0.173289	5.95E-05	43.216	EALNSLS(0.001)QLS(0.071)Y(0.061)	3	0.48115	0.0	0.0
Rai14	0.173289	5.95E-05	43.216	EALNSLS(0.001)QLS(0.071)Y(0.061)	3	0.48115	0.0	0.0
Rai14	0.173289	5.95E-05	43.216	EALNSLS(0.001)QLS(0.071)Y(0.061)	3	0.48115	0.0	0.0
Tpd52	0.47088	0.000192042	44.998	AS(0.002)AAFS(0.471)S(0.471)VG	3	2.5368	0.0	0.0
RGD13071	0.250201	4.79E-35	74.321	LFLGDQT(0.001)VNLPT(0.25)S(0.2	4	-0.20299	0.0	0.0
RGD13071	0.498574	9.80E-22	128.74	YT(0.002)AGS(0.499)AS(0.499)PTF	2	0.01792	0.0	0.0
Arhgef2	0.454277	1.33E-47	89.742	LQDS(0.007)S(0.008)DPDT(0.966)S	4	0.88719	0.0	0.0
Arhgef2	0.41231	2.49E-24	81.65	S(0.064)VS(0.412)T(0.412)T(0.111	3	1.6382	0.0	0.0
Arhgef11	0.49313	2.45E-15	82.709	LHQS(0.001)AS(0.075)S(0.493)S(0	3	-1.4249	0.0	0.0
Arhgef11	0.487338	8.55E-138	149.52	SGAYAALTLLGS(0.487)S(0.487)PP	4	0.3578	0.0	0.0
Arhgef11	0.487338	8.55E-138	149.52	SGAYAALTLLGS(0.487)S(0.487)PP	4	0.3578	0.0	0.0
Arhgef11	0.320363	2.21E-43	78.319	SGAYAALTLLGS(0.32)S(0.32)PPS(0	3	1.4126	0.0	0.0
Arhgef11	0.249921	2.21E-43	78.319	SGAYAALTLLGS(0.25)S(0.25)PPS(0	5	0.085265	0.0	0.0
Arhgef11	0.249459	6.22E-09	46.569	S(0.001)LGGES(0.249)S(0.249)GG	4	0.96715	0.0	0.0
Arhgef11	0.428309	7.08E-43	94.594	S(0.262)S(0.308)S(0.428)QS(0.001	4	2.4359	0.0	0.0
Prpf38b	0.353843	2.21E-18	76.378	DGHGS(0.354)S(0.354)S(0.292)FD	4	-1.1628	0.0	0.0
Prpf38b	0.353843	2.21E-18	76.378	DGHGS(0.354)S(0.354)S(0.292)FD	4	-1.1628	0.0	0.0
Arhgap29	0.498553	6.03E-17	92.773	AEEEQLS(0.003)S(0.499)S(0.499)V	3	-1.5372	0.0	0.0
Arhgap29	0.498553	6.03E-17	92.773	AEEEQLS(0.003)S(0.499)S(0.499)V	3	-1.5372	0.0	0.0
Srsf11	0.470334	0.0116202	49.715	ERS(0.47)T(0.47)S(0.059)KK	4	0.14171	0.0	0.0
Srsf11	0.45971	9.75E-05	60.47	S(0.08)AS(0.46)S(0.46)LHICDSR	3	0.034867	0.0	0.0
Srsf11	0.45971	9.75E-05	60.47	S(0.08)AS(0.46)S(0.46)LHICDSR	3	0.034867	0.0	0.0
Sec16a	0.493926	1.25E-21	72.359	MCS(0.494)PS(0.171)HS(0.139)NS	4	0.0059733	0.0	0.0
Sec16a	0.412202	3.77E-29	79.489	MCS(0.08)PS(0.412)HS(0.412)NS(	3	-0.51274	0.0	0.0
Sec16a	0.313796	1.78E-07	57.788	RS(0.314)S(0.314)LS(0.161)S(0.16	3	0.90322	0.0	0.0
Sec16a	0.474246	4.12E-26	110.22	S(0.012)S(0.012)LS(0.474)S(0.474)	3	-0.80121	0.0	0.0
Sec16a	0.474246	4.12E-26	110.22	S(0.012)S(0.012)LS(0.474)S(0.474)	3	-0.80121	0.0	0.0
Sec16a	0.142976	4.32E-11	41.936	SQNYCSS(0.001)LS(0.007)QPS(0.1	5	-0.071074	0.0	0.0
Sec16a	0.142976	4.32E-11	41.936	SQNYCSS(0.001)LS(0.007)QPS(0.1	5	-0.071074	0.0	0.0

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0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	57
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	58
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	853;874
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	855;876
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	857;878
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	858;879
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	859;880
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2601
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1152
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	344
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	696;685
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	123;162
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124;163
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	127;166
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131;170
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1496;1485
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	589
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	213
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	267
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	268
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	394
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	334
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1017
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1019
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1375
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	606
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	609

Sec16a	0.142976	4.32E-11	41.936	SQNYCSS(0.001)LS(0.007)QPS(0.1	5	-0.071074	0.0	0.0
Camsap1	0.464606	2.82E-06	41.798	ISQQQEQLLMKS(0.465)PT(0.465)\	4	2.093	0.0	0.0
Surf6	0.376977	0.00966591	43.635	KS(0.321)PT(0.135)S(0.057)S(0.37	3	0.18512	0.0	0.0
Surf6	0.458138	9.73E-29	117.65	QGS(0.283)S(0.458)GS(0.247)LGS(	2	0.35765	0.0	0.0
Lrrc8a	0.485058	5.94E-12	70.114	KS(0.485)S(0.373)T(0.126)VS(0.01	3	0.46676	0.0	0.0
Lrrc8a	0.441392	5.94E-12	70.114	S(0.441)S(0.441)T(0.115)VS(0.003	3	0.35057	0.0	0.0
Fubp3	0.432636	3.52E-08	46.065	QQAIFYGQTLGQAQHS(0.134)Q\	3	-0.31012	0.0	0.0
Fubp3	0.432636	3.52E-08	46.065	QQAIFYGQTLGQAQHS(0.134)Q\	3	-0.31012	0.0	0.0
Fubp3	0.480653	6.30E-33	74.382	VGGASLGAPT(0.039)AFGQS(0.481	4	0.50888	0.0	0.0
Fubp3	0.480653	6.30E-33	74.382	VGGASLGAPT(0.039)AFGQS(0.481	4	0.50888	0.0	0.0
Zeb2	0.332984	3.32E-17	59.567	DPCSQPEEQGVT(0.333)S(0.333)PS	5	1.4698	0.0	0.0
Zeb2	0.332984	3.32E-17	59.567	DPCSQPEEQGVT(0.333)S(0.333)PS	5	1.4698	0.0	0.0
Tanc1	0.263294	1.91E-06	41.615	ADNCS(0.009)PVAEEET(0.242)T(0.	3	-1.4908	0.0	0.0
Tanc1	0.405059	2.66E-14	47.167	AESSAGDGPVPY(0.097)S(0.106)QS	4	0.8953	0.0	0.0
Tanc1	0.493971	7.45E-07	58.079	GVS(0.001)MS(0.011)LPS(0.494)S(	2	1.0195	0.0	0.0
Tanc1	0.392576	5.67E-06	45.577	HPAS(0.001)LS(0.004)S(0.005)S(0.	3	-0.32978	0.0	0.0
Tanc1	0.392576	5.67E-06	45.577	HPAS(0.001)LS(0.004)S(0.005)S(0.	3	-0.32978	0.0	0.0
Tanc1	0.395963	5.81E-05	53.3	QIAS(0.067)S(0.396)S(0.396)PS(0.	3	-0.36735	0.0	0.0
Tanc1	0.482808	1.00E-08	50.232	T(0.003)AANKS(0.086)PCET(0.203	4	-0.012437	0.0	0.0
Tanc1	0.454886	1.00E-08	50.232	T(0.003)AANKS(0.086)PCET(0.203	4	-0.012437	0.0	0.0
Tanc1	0.347269	1.41E-30	75.766	TSDPTHDLPGTPLL(0.005)PS(0.12	3	-0.33135	0.0	0.0
Tanc1	0.347269	1.41E-30	75.766	TSDPTHDLPGTPLL(0.005)PS(0.12	3	-0.33135	0.0	0.0
Rbms1	0.113535	1.43E-12	45.775	QQLVPAHPMAPP(0.114)PS(0.11	4	-1.4907	0.0	0.0
Rbms1	0.113535	1.43E-12	45.775	QQLVPAHPMAPP(0.114)PS(0.11	4	-1.4907	0.0	0.0
Rbms1	0.113535	1.43E-12	45.775	QQLVPAHPMAPP(0.114)PS(0.11	4	-1.4907	0.0	0.0
Rbms1	0.113535	1.43E-12	45.775	QQLVPAHPMAPP(0.114)PS(0.11	4	-1.4907	0.0	0.0
Rbms1	0.113535	1.43E-12	45.775	QQLVPAHPMAPP(0.114)PS(0.11	4	-1.4907	0.0	0.0
Rbms1	0.113535	1.43E-12	45.775	QQLVPAHPMAPP(0.114)PS(0.11	4	-1.4907	0.0	0.0
Scn7a	0.366617	3.89E-15	52.697	TVSTEAT(0.002)DQT(0.124)CDPS(i	4	0.68361	0.0	0.0
Scn7a	0.460242	7.33E-16	58.812	QS(0.002)S(0.002)S(0.005)S(0.015	3	0.84632	0.0	0.0
Scn7a	0.330457	7.33E-16	58.812	QSS(0.001)S(0.002)S(0.005)ECS(0.	4	1.4406	0.0	0.0
Scn7a	0.249945	8.38E-124	124.98	TPVTESESQSLIAS(0.25)PS(0.25)VS	4	-0.32382	0.0	0.0
Scn7a	0.298735	8.38E-124	124.98	TPVTESESQSLIAS(0.08)PS(0.299)V	5	0.97928	0.0	0.0
Scn7a	0.298735	8.38E-124	124.98	TPVTESESQSLIAS(0.08)PS(0.299)V	5	0.97928	0.0	0.0

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0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	50
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	198
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	199
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0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1663
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1665
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0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	36
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0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	42
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	47
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	783
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	874
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	881
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	828
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	830
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	832

Scn7a	0.166087	8.11E-15	49.209	TPVTESES(0.001)QS(0.002)LIAS(0.	5	0.35129	0.0	0.0
Scn7a	0.166087	8.11E-15	49.209	TPVTESES(0.001)QS(0.002)LIAS(0.	5	0.35129	0.0	0.0
Scn7a	0.476057	0.00463669	43.761	Y(0.04)KDQS(0.476)S(0.476)GT(0.1	3	0.045898	0.0	0.0
Scn7a	0.476057	0.00463669	43.761	Y(0.04)KDQS(0.476)S(0.476)GT(0.1	3	0.045898	0.0	0.0
Cobll1	0.4811	7.65E-07	50.271	S(0.135)NT(0.382)IS(0.481)KPYIS(	5	-0.058117	0.0	0.0
Cobll1	0.380967	2.65E-09	59.537	S(0.381)T(0.381)S(0.237)VDDT(0.(	4	0.80203	0.0	0.0
Cobll1	0.228071	1.45E-30	87.457	T(0.025)GS(0.129)LQLS(0.203)GS(	3	-0.43897	0.0	0.0
Celf1	0.33068	6.44E-09	50.358	LDFLPEMMVDHCS(0.331)LNS(0.33	4	-0.70301	0.0	0.0
Celf1	0.33068	6.44E-09	50.358	LDFLPEMMVDHCS(0.331)LNS(0.33	4	-0.70301	0.0	0.0
Arfgap2	0.473262	6.58E-89	145.61	S(0.473)S(0.473)IS(0.023)HS(0.03	4	-3.5286	0.0	0.0
Arfgap2	0.473262	6.58E-89	145.61	S(0.473)S(0.473)IS(0.023)HS(0.03	4	-3.5286	0.0	0.0
Arfgap2	0.332774	1.90E-11	57.21	S(0.333)S(0.333)RS(0.333)QLDLFD	4	-0.15492	0.0	0.0
Arfgap2	0.332774	1.90E-11	57.21	S(0.333)S(0.333)RS(0.333)QLDLFD	4	-0.15492	0.0	0.0
Arfgap2	0.332774	1.90E-11	57.21	S(0.333)S(0.333)RS(0.333)QLDLFD	4	-0.15492	0.0	0.0
Caprin1	0.420788	7.89E-09	57.238	S(0.421)S(0.421)FS(0.107)NT(0.03	3	2.9954	0.0	0.0
Caprin1	0.420788	7.89E-09	57.238	S(0.421)S(0.421)FS(0.107)NT(0.03	3	2.9954	0.0	0.0
Kcna4	0.446	1.01E-30	72.935	ETENEEQT(0.001)QLT(0.446)QNA	4	2.2623	0.0	0.0
Map1a	0.372804	8.24E-24	68.97	APSLDS(0.002)S(0.006)LPQLPS(0.3	4	1.9131	0.0	0.0
Map1a	0.473816	9.49E-80	107.34	ATVSPSTDET(0.092)PAGT(0.402)L	5	0.93612	0.0	0.0
Map1a	0.493392	6.29E-26	79.467	DLSPLNGS(0.856)T(0.145)VS(0.4	4	-0.19154	0.0	0.0
Map1a	0.471827	6.29E-26	79.467	DLSPLNGS(0.028)T(0.028)VS(0.4	3	-0.27808	0.0	0.0
Map1a	0.278033	2.42E-07	44.848	DLWPMVS(0.076)PEDT(0.278)QS(	4	-1.9707	0.0	0.0
Map1a	0.278033	2.42E-07	44.848	DLWPMVS(0.076)PEDT(0.278)QS(	4	-1.9707	0.0	0.0
Map1a	0.249944	1.28E-10	47.73	EGEGGAGAPDS(0.25)S(0.25)S(0.2	5	-0.34283	0.0	0.0
Map1a	0.492207	1.28E-10	47.73	EGEGGAGAPDS(0.367)S(0.492)S(0	3	0.61621	0.0	0.0
Map1a	0.326464	2.34E-59	99.064	FTDQSLSPEDAES(0.326)LS(0.326)\	3	0.0075875	0.0	0.0
Map1a	0.326464	2.34E-59	99.064	FTDQSLSPEDAES(0.326)LS(0.326)\	3	0.0075875	0.0	0.0
Map1a	0.416338	1.13E-20	61.337	KPS(0.014)PFLS(0.416)PS(0.416)G	4	-0.42931	0.0	0.0
Map1a	0.432606	4.91E-20	73.138	VAELEEESQS(0.433)QGS(0.433)S(0.	3	-0.50892	0.0	0.0
Map1a	0.192796	2.85E-06	43.946	VAELEEESQS(0.193)QGS(0.193)S(0.	4	1.6548	0.0	0.0
Map1a	0.192796	2.85E-06	43.946	VAELEEESQS(0.193)QGS(0.193)S(0.	4	1.6548	0.0	0.0
Map1a	0.44004	5.47E-71	102.16	LSSFATSVAEDQS(0.44)VAS(0.44)L	3	0.12711	0.0	0.0
Map1a	0.329997	9.30E-08	44.6	SPQAQDT(0.01)PVS(0.33)IAGGQT	4	3.1861	0.0	0.0
Map1a	0.481527	6.84E-14	50.783	SSGGPPCS(0.034)LS(0.482)S(0.48	3	1.5843	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	839
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	842
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	809
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	810
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	309
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	380
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	21
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	336
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	337
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	560
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	561
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	586
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2445
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1505
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2292
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1422
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1424
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2132
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1380
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2567
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	355
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	356
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	357
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1086
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2642



Map1a	0.481527	6.84E-14	50.783	SSGGPPCS(0.034)LS(0.482)S(0.482)	3	1.5843	0.0	0.0
Map1a	0.487605	5.72E-15	81.606	SSLLLD(0.015)VT(0.488)S(0.488)I	3	0.22207	0.0	0.0
Map1a	0.429577	1.56E-07	59.372	SSLLLD(0.002)VT(0.029)S(0.11)IP	2	-0.62165	0.0	0.0
Map1a	0.48345	1.08E-111	150.94	TEATQGLDY(0.018)VPS(0.483)AGT	5	-0.7153	0.0	0.0
Ppip5k1	0.224429	1.18E-23	64.213	QSGGLSQCT(0.001)GLFS(0.224)T(	3	0.4311	0.0	0.0
Tp53bp1	0.412951	4.93E-15	52.697	SATVKPGT(0.001)VGAAELVS(0.41:	4	-0.5839	0.0	0.0
Tp53bp1	0.412951	4.93E-15	52.697	SATVKPGT(0.001)VGAAELVS(0.41:	4	-0.5839	0.0	0.0
Tp53bp1	0.427037	2.84E-26	63.706	SLAEDSASSQLGFGVLELS(0.427)QS	4	-0.81726	0.0	0.0
Tp53bp1	0.427037	2.84E-26	63.706	SLAEDSASSQLGFGVLELS(0.427)QS	4	-0.81726	0.0	0.0
Tp53bp1	0.439245	1.61E-46	106.12	TEEVGENTQVEDT(0.119)EPS(0.43:	4	-1.5815	0.0	0.0
Fbn1	0.486981	1.66E-15	58.324	GGPEPPAS(0.11)GEMDDNS(0.396	4	-0.15013	0.0	0.0
Dtd1	0.497406	3.62E-138	201.14	S(0.005)AS(0.497)S(0.497)GAEGD'	2	0.77108	0.0	0.0
Acss2	0.483501	2.47E-15	57.238	AELGMNDS(0.033)PS(0.484)QS(0.	4	-0.13672	0.0	0.0
Rbm12	0.485356	0.0177046	43.808	S(0.233)KS(0.282)PS(0.485)GQK	3	-0.11073	0.0	0.0
Lpin3	0.461129	1.93E-07	54.09	S(0.224)DS(0.315)EELRPLEPS(0.4	3	-0.53959	0.0	0.0
Jph2	0.460679	0.033666	66.273	T(0.461)S(0.461)LGS(0.079)QR	2	-0.22474	0.0	0.0
Stx16	0.433853	2.28E-48	117.35	QLLAEQVS(0.003)S(0.014)HT(0.04	3	-0.035693	0.0	0.0
Slc4a2	0.307157	8.93E-23	57.735	APPQQPS(0.307)PAS(0.307)S(0.30	4	-0.9582	0.0	0.0
Slc4a2	0.307157	8.93E-23	57.735	APPQQPS(0.307)PAS(0.307)S(0.30	4	-0.9582	0.0	0.0
Slc4a2	0.249998	2.69E-10	47.331	APPQQPS(0.25)PAS(0.25)S(0.25)P	3	0.7629	0.0	0.0
Slc4a2	0.333107	2.57E-45	81.844	RPASGADSLHT(0.001)PEPES(0.333	4	0.47447	0.0	0.0
Slc4a2	0.333107	2.57E-45	81.844	RPASGADSLHT(0.001)PEPES(0.333	4	0.47447	0.0	0.0
Prkag2	0.498933	1.16E-05	67.997	EVS(0.499)S(0.499)PGGS(0.002)SC	3	0.37147	0.0	0.0
Ppp1r9a	0.478485	2.64E-07	50.957	DLT(0.001)GGDLT(0.478)S(0.478	3	-1.0015	0.0	0.0
Tmem209	0.292648	3.24E-07	45.357	DLAAT(0.001)QIS(0.118)PS(0.293)	4	0.38338	0.0	0.0
Tmem209	0.292648	3.24E-07	45.357	DLAAT(0.001)QIS(0.118)PS(0.293)	4	0.38338	0.0	0.0
Tmem209	0.292648	3.24E-07	45.357	DLAAT(0.001)QIS(0.118)PS(0.293)	4	0.38338	0.0	0.0
Tmem209	0.294202	8.38E-11	50.627	DLAATQIS(0.012)PS(0.138)PPS(0.1	3	1.4195	0.0	0.0
Serbp1	0.327999	0.0036926	55.04	S(0.207)S(0.207)FS(0.328)HY(0.19	2	0.30534	0.0	0.0
Capg	0.415346	8.11E-06	82.437	T(0.053)T(0.075)S(0.415)GT(0.333	2	-0.58184	0.0	0.0
Pcbp1	0.294732	6.70E-16	53.123	CSDAAGYPHATHDLEGPLDAY(0.2	5	1.6962	0.0	0.0
Pcbp1	0.333071	2.00E-26	75.529	QQSHFAMMHGGT(0.001)GFAGID	5	-0.17201	0.0	0.0
Pcbp1	0.333071	2.00E-26	75.529	QQSHFAMMHGGT(0.001)GFAGID	5	-0.17201	0.0	0.0
Pcbp1	0.398021	2.00E-26	75.529	QQSHFAMMHGGTGFAGIDS(0.301	4	-0.81684	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2643
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1110
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1127
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	818
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1661
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1665
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	553
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2712
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	196
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	309
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	415
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	229
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	231
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	34
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	148
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	149
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	151
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	24
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	15
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	127
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	130
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	132
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	140
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	205
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	130
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	212
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	244
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	245

Pcbp1	0.481962	1.53E-10	50.202	VMT(0.002)IPY(0.034)QPMPAS(0.	4	-0.11013	0.0	0.0
Magi1	0.333101	9.13E-23	66.772	AENEVPS(0.333)PAS(0.333)S(0.33	5	-0.93764	0.0	0.0
Magi1	0.333101	9.13E-23	66.772	AENEVPS(0.333)PAS(0.333)S(0.33	5	-0.93764	0.0	0.0
Magi1	0.333101	9.13E-23	66.772	AENEVPS(0.333)PAS(0.333)S(0.33	5	-0.93764	0.0	0.0
Necap1	0.305894	7.15E-07	41.475	VT(0.004)IPPPS(0.306)S(0.277)S(0	5	-0.022886	0.0	0.0
Necap1	0.498345	2.82E-25	72.09	VTIPPPSS(0.001)S(0.001)VAIS(0.49	3	-0.18928	0.0	0.0
Fam110b	0.493009	5.28E-18	75.376	AIPCS(0.089)S(0.493)S(0.418)APPI	3	0.37989	0.0	0.0
Fam110b	0.460794	5.28E-18	75.376	AIPCS(0.078)S(0.461)S(0.461)APPI	4	-0.23495	0.0	0.0
RGD15598	0.488547	3.83E-157	170.27	LAEAPSCSVS(0.001)IS(0.01)HVGPI	3	0.14666	0.0	0.0
RGD15598	0.488547	3.83E-157	170.27	LAEAPSCSVS(0.001)IS(0.01)HVGPI	3	0.14666	0.0	0.0
RGD15598	0.197039	4.15E-80	105.9	LAEAPSCSVSISHVGPADS(0.197)S(	5	-0.25534	0.0	0.0
RGD15598	0.380189	4.86E-118	133.15	RLAEAPSCSVSISHVGPADS(0.131)S	5	-0.96099	0.0	0.0
RGD15598	0.394746	4.15E-80	105.9	LAEAPSCSVSIS(0.001)HVGPIADS(0	3	0.92821	0.0	0.0
Mpdz	0.358976	3.42E-12	60.95	DSSQT(0.001)PAVPAPDLEPIPS(0.3	3	0.84218	0.0	0.0
Mpdz	0.19848	2.46E-07	41.908	EVEPS(0.001)IT(0.019)T(0.06)S(0.1	5	-0.21308	0.0	0.0
Mpdz	0.19848	2.46E-07	41.908	EVEPS(0.001)IT(0.019)T(0.06)S(0.1	5	-0.21308	0.0	0.0
Mpdz	0.19848	2.46E-07	41.908	EVEPS(0.001)IT(0.019)T(0.06)S(0.1	5	-0.21308	0.0	0.0
Mpdz	0.19848	2.46E-07	41.908	EVEPS(0.001)IT(0.019)T(0.06)S(0.1	5	-0.21308	0.0	0.0
Mpdz	0.136195	3.15E-09	45.137	QHAGS(0.02)PPT(0.039)DMS(0.13	4	1.1392	0.0	0.0
Mpdz	0.136195	3.15E-09	45.137	QHAGS(0.02)PPT(0.039)DMS(0.13	4	1.1392	0.0	0.0
Mpdz	0.136195	3.15E-09	45.137	QHAGS(0.02)PPT(0.039)DMS(0.13	4	1.1392	0.0	0.0
Mpdz	0.428028	1.01E-15	55.314	S(0.428)S(0.428)T(0.14)PAIFAS(0.(	3	0.40474	0.0	0.0
Mpdz	0.428028	1.01E-15	55.314	S(0.428)S(0.428)T(0.14)PAIFAS(0.(	3	0.40474	0.0	0.0
Elavl2	0.494682	2.95E-05	65.753	VSYPARPS(0.495)S(0.495)AS(0.01)II	2	0.11772	0.0	0.0
Inadl	0.493752	2.84E-26	77.221	KT(0.017)S(0.354)QNS(0.494)QGC	4	0.77757	0.0	0.0
Dock7	0.429171	0.0169016	47.154	S(0.19)MS(0.429)IDDT(0.381)PR	2	-0.93112	0.0	0.0
Pgm1	0.397978	1.36E-12	101.75	LS(0.018)GT(0.215)GS(0.398)AGA	2	0.17543	0.0	0.0
Dnajc6	0.278872	9.42E-07	42.468	KKT(0.279)S(0.279)S(0.279)DGY(0	4	0.39674	0.0	0.0
Dnajc6	0.278872	9.42E-07	42.468	KKT(0.279)S(0.279)S(0.279)DGY(0	4	0.39674	0.0	0.0
Dnajc6	0.366093	5.11E-13	64.454	S(0.106)AAT(0.367)S(0.366)PT(0.3	3	1.9508	0.0	0.0
Dnajc6	0.454364	5.11E-13	64.454	S(0.003)AAT(0.049)S(0.271)PT(0.4	4	-0.52467	0.0	0.0
Dnajc6	0.488107	3.35E-05	42.633	GAS(0.02)S(0.064)PDMEPS(0.488)	2	0.2893	0.0	0.0
Cldn19	0.490627	9.83E-06	83.53	LS(0.019)T(0.491)S(0.491)VKGPLG	2	0.67333	0.0	0.0
Thrap3	0.442601	0.00172872	41.014	ES(0.01)VDS(0.132)RDS(0.443)S(0	3	0.49029	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	170
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	909
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	912
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	913
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	347
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	348
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	354
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1554
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1425
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1430
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1431
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	913
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	918
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	923
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1558
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1559
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119;139
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1647
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	509
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	12
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	13
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	713;683
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	717;687
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	42
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	743

Thrap3	0.487624	0.0559166	53.404	S(0.314)S(0.089)FS(0.488)IT(0.11)	2	-0.28403	0.0	0.0
Thrap3	0.372876	3.11E-11	55.051	S(0.079)S(0.088)S(0.088)KDS(0.37	5	0.047033	0.0	0.0
Arid1a	0.499344	9.99E-06	51.566	SAY(0.001)PPPPQAYALS(0.499)S(C	3	0.66155	0.0	0.0
Arid1a	0.499344	9.99E-06	51.566	SAY(0.001)PPPPQAYALS(0.499)S(C	3	0.66155	0.0	0.0
Arid1a	0.454157	1.52E-06	57.288	T(0.014)PQS(0.077)S(0.454)S(0.45	3	0.26108	0.0	0.0
Arid1a	0.454157	1.52E-06	57.288	T(0.014)PQS(0.077)S(0.454)S(0.45	3	0.26108	0.0	0.0
Srrm1	0.460834	3.14E-05	60.196	APQT(0.078)S(0.461)S(0.461)PPP\	3	-0.33602	0.0	0.0
Srrm1	0.494225	3.19E-57	88.395	AVAVATPAPAAPAAS(0.494)AAA\	5	1.2337	0.0	0.0
Ubr4	0.494381	7.53E-24	59.793	T(0.494)S(0.494)PADHGG(0.011)	4	-1.8228	0.0	0.0
Fbxo42	0.309026	2.88E-26	63.706	GPS(0.002)AS(0.003)AALS(0.12)PF	3	-0.0044657	0.0	0.0
Fbxo42	0.309026	2.88E-26	63.706	GPS(0.002)AS(0.003)AALS(0.12)PF	3	-0.0044657	0.0	0.0
Fbxo42	0.192075	2.88E-26	63.706	GPSASAALS(0.017)PPLGS(0.192)S(	4	1.4299	0.0	0.0
Fbxo42	0.192075	2.88E-26	63.706	GPSASAALS(0.017)PPLGS(0.192)S(	4	1.4299	0.0	0.0
Fbxo42	0.192075	2.88E-26	63.706	GPSASAALS(0.017)PPLGS(0.192)S(	4	1.4299	0.0	0.0
Fbxo42	0.161298	2.88E-26	63.706	GPSASAALS(0.011)PPLGS(0.161)S(	5	0.85665	0.0	0.0
Vps13d	0.490473	1.65E-07	49.076	EYLS(0.49)QS(0.49)CPS(0.011)VS(	3	-0.13567	0.0	0.0
Vps13d	0.49569	3.40E-05	65.219	NAS(0.496)S(0.496)ES(0.009)AVVI	3	-0.75365	0.0	0.0
Vps13d	0.49569	3.40E-05	65.219	NAS(0.496)S(0.496)ES(0.009)AVVI	3	-0.75365	0.0	0.0
Vps13d	0.499734	3.08E-28	105.79	S(0.5)S(0.5)YEVEELPVT(0.001)EQE	3	1.1438	0.0	0.0
Vps13d	0.499734	3.08E-28	105.79	S(0.5)S(0.5)YEVEELPVT(0.001)EQE	3	1.1438	0.0	0.0
Strn	0.453261	1.14E-23	60.194	ALLGFS(0.409)S(0.453)DVT(0.135)	4	-1.1894	0.0	0.0
Rps6ka5	0.28773	7.57E-05	49.036	S(0.061)S(0.07)S(0.288)S(0.288)H:	4	0.062928	0.0	0.0
Rps6ka5	0.287937	7.57E-05	49.036	S(0.061)S(0.07)S(0.288)S(0.288)H:	4	0.062928	0.0	0.0
Rps6ka5	0.325527	7.57E-05	49.036	S(0.061)S(0.07)S(0.288)S(0.288)H:	4	0.062928	0.0	0.0
Rps6ka5	0.356625	0.000529649	40.432	T(0.003)S(0.003)T(0.003)S(0.008)T	3	-0.6777	0.0	0.0
Pan2	0.464945	7.48E-06	83.204	VPEPES(0.07)QS(0.465)S(0.465)PK	2	0.60924	0.0	0.0
Pan2	0.464945	7.48E-06	83.204	VPEPES(0.07)QS(0.465)S(0.465)PK	2	0.60924	0.0	0.0
Atp2b1	0.499273	2.83E-07	62.861	S(0.499)S(0.499)IHNFMT(0.001)HI	4	0.38161	0.0	0.0
Atp2b1	0.499273	2.83E-07	62.861	S(0.499)S(0.499)IHNFMT(0.001)HI	4	0.38161	0.0	0.0
Ppp1r12a	0.333302	3.12E-08	102.87	S(0.333)AS(0.333)YS(0.333)YLEER	2	0.29797	0.0	0.0
Ppp1r12a	0.333302	3.12E-08	102.87	S(0.333)AS(0.333)YS(0.333)YLEER	2	0.29797	0.0	0.0
Ppp1r12a	0.333302	3.12E-08	102.87	S(0.333)AS(0.333)YS(0.333)YLEER	2	0.29797	0.0	0.0
Ndr1	0.499888	0.00127154	108.26	SHT(0.5)S(0.5)EGPR	2	-0.436	0.0	0.0
Ndr1	0.402414	7.86E-21	82.609	YFVQGMGYMPS(0.402)AS(0.195)I	2	0.23103	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	559
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	190
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	229
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	377
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	629
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	785
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2924
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	584
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	586
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	587
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	590
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	592
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1708
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2435
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2436
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3802
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3803
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	191
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	742
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	743
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	745
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	734
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1168
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1169
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	910
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	912
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	914
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	347
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	317

Maf1	0.479028	1.46E-71	106.37	QFCQEGQPHVLEALS(0.052)PPQT(I	4	0.5792	0.0	0.0
Scrib	0.327987	1.47E-17	54.466	AFAAVPT(0.003)VHPPENS(0.328)/	4	0.79886	0.0	0.0
Scrib	0.498477	1.55E-20	76.301	NSLES(0.001)IS(0.498)S(0.498)IDR	3	1.0647	0.0	0.0
Scrib	0.498477	1.55E-20	76.301	NSLES(0.001)IS(0.498)S(0.498)IDR	3	1.0647	0.0	0.0
Pacsin2	0.264962	3.39E-08	42.301	AADGVTLT(0.001)GINQT(0.124)GI	4	-0.1177	0.0	0.0
Sreb2	0.492114	0.00405358	41.242	T(0.099)DS(0.492)LVLT(0.357)T(0.	3	-0.33	0.0	0.0
Hnrnpa1	0.442598	9.98E-36	101.17	NQGGYGGG(0.003)S(0.003)S(0.01	3	0.32488	0.0	0.0
Atf7	0.461025	1.19E-05	48.216	SAAGPLDMS(0.078)LPS(0.461)T(0	3	1.4552	0.0	0.0
Pcbp2	0.365623	9.93E-33	77.169	GVT(0.007)IPYRPKPS(0.366)S(0.36	4	-0.21027	0.0	0.0
Pcbp2	0.365623	9.93E-33	77.169	GVT(0.007)IPYRPKPS(0.366)S(0.36	4	-0.21027	0.0	0.0
Pcbp2	0.228865	2.87E-32	70.145	LHQLAMQQSHFPMT(0.019)HGNT	5	-0.98641	0.0	0.0
Pcbp2	0.228865	2.87E-32	70.145	LHQLAMQQSHFPMT(0.019)HGNT	5	-0.98641	0.0	0.0
Pcbp2	0.228865	2.87E-32	70.145	LHQLAMQQSHFPMT(0.019)HGNT	5	-0.98641	0.0	0.0
Yap1	0.498545	3.28E-144	144.7	AHS(0.499)S(0.499)PAS(0.003)LQL	4	-0.057037	0.0	0.0
Kank2	0.195973	3.57E-13	44.6	LEDQAAAPS(0.029)S(0.074)GGLGS	4	1.0827	0.0	0.0
Kank2	0.213855	2.42E-61	88.087	RLEDQAAAPSSGGLGS(0.001)LT(0.1	4	-0.53583	0.0	0.0
Kank2	0.213855	2.42E-61	88.087	RLEDQAAAPSSGGLGS(0.001)LT(0.1	4	-0.53583	0.0	0.0
Kank2	0.213855	2.42E-61	88.087	RLEDQAAAPSSGGLGS(0.001)LT(0.1	4	-0.53583	0.0	0.0
Kank2	0.164742	2.42E-61	88.087	RLEDQAAAPSSGGLGS(0.011)LT(0.1	6	-0.0030388	0.0	0.0
Kank2	0.492876	6.85E-33	97.732	S(0.493)S(0.493)GLS(0.009)T(0.00	3	0.025402	0.0	0.0
Dnm2	0.337627	2.99E-49	80	EALNIIGDISTSTVSTPVPVDDT(0.1	5	-0.2251	0.0	0.0
Ei24	0.323298	1.57E-15	49.765	TVYLQS(0.002)ALS(0.323)S(0.323)	4	0.81619	0.0	0.0
Ei24	0.420235	1.57E-15	55.051	TVYLQS(0.001)ALS(0.149)S(0.42)S	4	0.73366	0.0	0.0
Ei24	0.452907	1.04E-30	91.589	TVYLQSALS(0.01)S(0.015)S(0.069)	3	0.14699	0.0	0.0
Ei24	0.452907	1.04E-30	91.589	TVYLQSALS(0.01)S(0.015)S(0.069)	3	0.14699	0.0	0.0
Hyou1	0.426661	3.38E-05	44.998	LGNT(0.001)IS(0.004)S(0.026)LFGI	3	0.43951	0.0	0.0
C2cd2l	0.423602	3.04E-22	87.652	LADS(0.891)PS(0.195)RS(0.43)PS(I	3	0.20247	0.0	0.0
C2cd2l	0.393446	2.02E-06	51.469	NLGT(0.007)PT(0.026)S(0.109)S(0	3	-1.0647	0.0	0.0
C2cd2l	0.442893	1.97E-22	91.166	LDS(0.778)PS(0.331)RS(0.443)PS(I	3	-0.98658	0.0	0.0
Ncam1	0.369868	6.08E-13	70.167	GVT(0.005)AS(0.081)S(0.37)S(0.37	3	0.41415	0.0	0.0
Ncam1	0.369868	6.08E-13	70.167	GVT(0.005)AS(0.081)S(0.37)S(0.37	3	0.41415	0.0	0.0
Nptn	0.453604	0.000196973	61.167	T(0.093)NS(0.454)T(0.454)NNHKD	4	-0.35849	0.0	0.0
Tcf12	0.467255	8.79E-14	67.645	AGGQAPS(0.023)S(0.11)PS(0.467)	3	-2.8646	0.0	0.0
Tcf12	0.428774	8.33E-07	40.044	LS(0.003)Y(0.001)PPHS(0.139)VS(I	4	-0.07845	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	68
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1345;1317;1296
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1209;1209;1209
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1210;1210;1210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	100
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	187
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	188
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	266
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	149
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	157
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	159
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	160
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	174
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	761
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	318
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	320
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	590
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	471
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	421;421
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	470
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	896
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	897
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	262
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	252
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	147

Snap91	0.497916	2.53E-07	58.835	S(0.498)S(0.499)PAT(0.791)T(0.19	4	0.46228	0.0	0.0
Snap91	0.498953	2.53E-07	58.835	S(0.498)S(0.499)PAT(0.791)T(0.19	4	0.46228	0.0	0.0
Snap91	0.388667	9.26E-12	62.287	SSPAT(0.001)T(0.004)VT(0.261)S(	3	0.037062	0.0	0.0
Nckipsd	0.249946	4.61E-33	81.48	G TSAASASVMT(0.25)PS(0.25)T(0.2	3	0.54952	0.0	0.0
Nckipsd	0.358862	1.25E-25	72.474	QHS(0.274)LPS(0.359)S(0.359)EHL	4	-1.2345	0.0	0.0
Nckipsd	0.358862	1.25E-25	72.474	QHS(0.274)LPS(0.359)S(0.359)EHL	4	-1.2345	0.0	0.0
Map4	0.49726	4.82E-11	65.477	AAS(0.497)S(0.497)IS(0.005)SAPKI	4	0.72707	0.0	0.0
Map4	0.49726	4.82E-11	65.477	AAS(0.497)S(0.497)IS(0.005)SAPKI	4	0.72707	0.0	0.0
Map4	0.406674	1.87E-09	80.585	ATSPSTLVS(0.407)T(0.107)GS(0.1€	2	2.7973	0.0	0.0
Map4	0.287014	0.00133061	43.761	ATSPST(0.001)LVS(0.15)T(0.15)GS	2	0.33069	0.0	0.0
Map4	0.49861	6.31E-15	82.59	DT(0.002)MS(0.499)S(0.499)VEPD	3	0.85646	0.0	0.0
Map4	0.499629	1.09E-09	56.569	EPQTLDS(0.001)QIQET(0.5)S(0.5)I	2	-3.8686	0.0	0.0
Map4	0.347679	4.47E-15	48.392	EVTVPLEAAGPLVS(0.348)DMT(0.1	5	0.81006	0.0	0.0
Map4	0.382171	7.30E-72	103.33	NADLHS(0.001)GT(0.002)ELT(0.11	3	-0.0023447	0.0	0.0
Map4	0.456865	7.30E-72	103.33	NADLHSGTELTLDNS(0.086)MT(0.4	4	-0.56721	0.0	0.0
Map4	0.495862	1.51E-27	100.41	RT(0.496)S(0.496)PS(0.008)KPSSA	4	0.20058	0.0	0.0
Plcd1	0.498525	6.03E-57	86.191	KLGLLPAGGENGS(0.003)EAT(0.4	4	-0.21509	0.0	0.0
Golga4	0.484732	0.0147773	45.28	DT(0.485)ES(0.485)QLS(0.031)ELR	2	0.19553	0.0	0.0
Golga4	0.48523	2.73E-19	64.16	S(0.001)PDGVNREES(0.485)S(0.48	3	0.90566	0.0	0.0
Golga4	0.344612	3.55E-98	190.55	T(0.239)S(0.345)S(0.345)FT(0.072	2	0.2605	0.0	0.0
Hdgfrp2	0.44238	9.25E-16	54.997	GGs(0.442)S(0.442)EELHDPQDS(0	4	0.10219	0.0	0.0
Hdgfrp2	0.44238	9.25E-16	54.997	GGs(0.442)S(0.442)EELHDPQDS(0	4	0.10219	0.0	0.0
Tgfbra1	0.484427	1.96E-05	59.68	HT(0.001)NPS(0.484)S(0.484)PS(0	3	-2.7306	0.0	0.0
Kansl3	0.365537	5.06E-07	43.732	LPT(0.102)S(0.366)PS(0.366)GS(0.	3	1.0785	0.0	0.0
Kansl3	0.365537	5.06E-07	43.732	LPT(0.102)S(0.366)PS(0.366)GS(0.	3	1.0785	0.0	0.0
Sphkap	0.324768	1.84E-22	63.376	IIADDGEEANAS(0.325)PGPVS(0.32	5	0.5007	0.0	0.0
Sphkap	0.324768	1.84E-22	63.376	IIADDGEEANAS(0.325)PGPVS(0.32	5	0.5007	0.0	0.0
Sphkap	0.401908	7.63E-12	96.773	QS(0.03)S(0.148)T(0.148)ES(0.402	2	1.6918	0.0	0.0
Sphkap	0.483843	1.59E-17	72.662	S(0.085)NS(0.269)LLES(0.484)T(0.	3	-0.52264	0.0	0.0
Lrrfip1	0.345633	5.83E-06	46.818	NMP SLS(0.001)AAT(0.007)LAS(0.C	3	1.4629	0.0	0.0
Mgrn1	0.473004	0.000415133	55.415	T(0.024)QS(0.274)KS(0.473)PDS(0	3	0.77132	0.0	0.0
Tbc1d24	0.469594	0.0102931	58.132	QKS(0.47)VS(0.151)LS(0.379)K	3	-0.84107	0.0	0.0
Tbc1d24	0.486799	1.17E-16	55.9	SSEAAANPCLIS(0.041)HS(0.07)VS(	4	-0.50644	0.0	0.0
Mapk8ip3	0.36365	4.38E-09	45.253	S(0.001)NT(0.002)PT(0.004)S(0.0C	5	0.2798	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	305
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	62
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	92
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	93
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2029;953
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2030;954
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1868;792
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1873;797
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	323;323
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2201;1125
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	447;447
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	544;544
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	549;549
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1837;761
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	460
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1694
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	40
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	628
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	629
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	852
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	396
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	398
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1364
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1367
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	79
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	291
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	428
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	322
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	483
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	291

Mapk8ip3	0.420065	3.08E-32	70.57	SNTPTS(0.001)S(0.002)VPS(0.157)	4	0.49275	0.0	0.0
Mapk8ip3	0.465919	2.15E-16	61.241	T(0.417)S(0.466)PT(0.017)S(0.027	4	0.70239	0.0	0.0
Rhbdf1	0.344817	0.000588137	75.819	RDS(0.966)T(0.345)S(0.345)S(0.34	2	0.077748	0.0	0.0
Pdlim4	0.499245	9.61E-23	140.31	S(0.499)S(0.499)IS(0.002)GISLEDN	3	-0.29247	0.0	0.0
Mprip	0.475904	4.22E-48	87.739	AKDQPDGTSLS(0.002)PVQS(0.354	4	-0.38646	0.0	0.0
Specc1	0.358787	1.48E-53	94.028	S(0.359)S(0.359)KGS(0.203)PT(0.1	4	-0.63889	0.0	0.0
Specc1	0.35879	1.48E-53	94.028	S(0.359)S(0.359)KGS(0.203)PT(0.1	4	-0.63889	0.0	0.0
Specc1	0.491156	1.97E-35	159.58	T(0.005)S(0.005)GS(0.491)S(0.491	3	-0.15598	0.0	0.0
Specc1	0.491156	1.97E-35	159.58	T(0.005)S(0.005)GS(0.491)S(0.491	3	-0.15598	0.0	0.0
Tom1l2	0.418313	2.35E-35	70.136	T(0.054)T(0.054)AGS(0.418)Y(0.00	4	0.13016	0.0	0.0
Tom1l2	0.418313	2.35E-35	70.136	T(0.054)T(0.054)AGS(0.418)Y(0.00	4	0.13016	0.0	0.0
Llgl1	0.481102	0.00826174	113.71	ATT(0.037)AS(0.481)S(0.481)K	2	0.26838	0.0	0.0
Llgl1	0.481102	0.00826174	113.71	ATT(0.037)AS(0.481)S(0.481)K	2	0.26838	0.0	0.0
Epn2	0.307705	1.09E-29	87.429	GSS(0.009)QPNSL(0.308)T(0.308)S	2	0.5308	0.0	0.0
Epn2	0.307705	1.09E-29	87.429	GSS(0.009)QPNSL(0.308)T(0.308)S	2	0.5308	0.0	0.0
Epn2	0.381863	5.31E-05	48.907	AGGS(0.039)PAS(0.861)Y(0.149)H	3	0.68996	0.0	0.0
Vamp2	0.498768	3.41E-22	89.011	ADALQAGAS(0.002)QFET(0.499)S(	3	0.12134	0.0	0.0
RGD13081	0.3333	1.13E-11	54.834	LGELTMQLHPVS(0.333)DS(0.333)S	4	1.4724	0.0	0.0
RGD13081	0.3333	1.13E-11	54.834	LGELTMQLHPVS(0.333)DS(0.333)S	4	1.4724	0.0	0.0
RGD13081	0.3333	1.13E-11	54.834	LGELTMQLHPVS(0.333)DS(0.333)S	4	1.4724	0.0	0.0
Mybbp1a	0.3268	0.000121319	42.314	SPAPNNPT(0.02)LS(0.327)PS(0.32	3	0.19837	0.0	0.0
Mybbp1a	0.492226	2.53E-08	113.82	S(0.492)PS(0.492)LLQS(0.016)GIR	2	0.42919	0.0	0.0
Myh10	0.457286	0.0246554	40.724	GGPIS(0.001)FS(0.084)S(0.457)S(C	2	1.1747	0.0	0.0
Lig3	0.499497	0.000163478	52.247	LTTT(0.001)GQVT(0.499)S(0.499)F	3	0.47305	0.0	0.0
Luc7l3	0.498992	3.16E-26	78.95	LALSQNQQS(0.499)S(0.499)GAAG	3	2.2435	0.0	0.0
Luc7l3	0.498992	3.16E-26	78.95	LALSQNQQS(0.499)S(0.499)GAAG	3	2.2435	0.0	0.0
Luc7l3	0.496706	4.28E-13	66.152	SEVNGTSEDIKS(0.007)EGDT(0.497	3	0.081757	0.0	0.0
Epn3	0.329881	2.84E-06	40.384	T(0.001)PES(0.002)FLGPS(0.33)AS	4	0.66583	0.0	0.0
Epn3	0.49665	1.76E-21	71.592	TPESFLGPS(0.005)AS(0.497)S(0.49	3	1.6198	0.0	0.0
Epn3	0.49665	1.76E-21	71.592	TPESFLGPS(0.005)AS(0.497)S(0.49	3	1.6198	0.0	0.0
Epn3	0.415063	2.33E-27	78.674	GKS(0.093)PS(0.394)PVELDPFGDS	4	-0.46682	0.0	0.0
Epn3	0.468671	2.28E-07	47.082	GKS(0.047)PS(0.117)PVELDPFGDS	5	0.2513	0.0	0.0
Epn3	0.433376	1.32E-09	62.528	GS(0.055)PS(0.023)S(0.007)YT(0.0	2	-0.44403	0.0	0.0
Epn3	0.385304	1.31E-10	65.477	GSPS(0.002)S(0.009)Y(0.034)T(0.3	3	0.43106	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	300
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1191
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	10
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	59;118
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	232;232
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	351
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	191;191
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	193;193
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	680
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	681
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178;178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180;180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	199
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	80
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	33
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	36
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1257
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1325
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1959
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	431
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	474
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	476
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	429
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	430
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	185

Epn3	0.484223	7.69E-09	56.29	SQPWDLPT(0.003)LS(0.135)S(0.4	3	0.48778	0.0	0.0
Nbr1	0.499269	1.96E-16	58.349	SAPCGQY(0.001)EAPRVDS(0.499)F	4	1.7084	0.0	0.0
Cdc27	0.138969	1.82E-11	40.864	EAT(0.001)PVLVAQT(0.139)QS(0.1	4	2.0944	0.0	0.0
Cdc27	0.138969	1.82E-11	40.864	EAT(0.001)PVLVAQT(0.139)QS(0.1	4	2.0944	0.0	0.0
Cdc27	0.138969	1.82E-11	40.864	EAT(0.001)PVLVAQT(0.139)QS(0.1	4	2.0944	0.0	0.0
Fam20a	0.349178	9.34E-12	60.764	VIADGSAQHS(0.005)APDS(0.297)C	3	1.0051	0.0	0.0
Slc16a6	0.373411	5.34E-12	65.374	TSIDSIDSGVELT(0.253)T(0.373)S(0	3	1.1804	0.0	0.0
Hgs	0.331592	4.94E-43	91.276	AATTELPPEY(0.002)LT(0.332)S(0.	3	-0.60382	0.0	0.0
Hgs	0.336317	1.28E-10	50.752	AATTELPPEY(0.049)LT(0.205)S(0.	4	-0.44678	0.0	0.0
Hgs	0.249634	5.12E-46	81.718	SEPAPLASS(0.001)APPAGS(0.25)L	4	-0.019769	0.0	0.0
Hgs	0.249634	5.12E-46	81.718	SEPAPLASS(0.001)APPAGS(0.25)L	4	-0.019769	0.0	0.0
Hgs	0.249634	5.12E-46	81.718	SEPAPLASS(0.001)APPAGS(0.25)L	4	-0.019769	0.0	0.0
Hgs	0.168807	3.69E-27	66.1	SEPAPLASS(0.002)APPAGS(0.169)I	3	0.38599	0.0	0.0
Hgs	0.168807	3.69E-27	66.1	SEPAPLASS(0.002)APPAGS(0.169)I	3	0.38599	0.0	0.0
Tfg	0.466455	0.00137415	42.314	EEKPAAS(0.067)DS(0.466)S(0.466)	3	-1.7212	0.0	0.0
Tfg	0.466455	0.00137415	42.314	EEKPAAS(0.067)DS(0.466)S(0.466)	3	-1.7212	0.0	0.0
Tfg	0.332985	2.65E-10	49.266	LLDSLEPPGEPGPS(0.333)T(0.333)S	3	-0.48519	0.0	0.0
Spice1	0.349609	4.57E-14	68.458	LVGLTLS(0.006)S(0.35)S(0.35)PVS	3	-0.80408	0.0	0.0
LOC10255	0.448371	0.0043937	40.377	AGAGDS(0.103)S(0.448)GS(0.448)	3	2.5715	0.0	0.0
LOC10255	0.448371	0.0043937	40.377	AGAGDS(0.103)S(0.448)GS(0.448)	3	2.5715	0.0	0.0
Dgkg	0.478258	9.15E-23	63.433	QETPDHPKEGAS(0.033)S(0.478)S(	5	-0.90295	0.0	0.0
Dgkg	0.499849	2.25E-33	94.845	EGASSEPNVS(0.5)DS(0.5)NAESTA	3	-0.4222	0.0	0.0
Dgkg	0.499849	2.25E-33	94.845	EGASSEPNVS(0.5)DS(0.5)NAESTA	3	-0.4222	0.0	0.0
Trmt2a	0.406084	1.04E-11	68.283	NLPDLTAQET(0.104)ET(0.406)S(0.	2	0.0044478	0.0	0.0
Arvcf	0.34552	1.69E-18	50.604	SLPEHFQAEPY(0.309)GLEDDT(0.34	4	-0.25747	0.0	0.0
Zscan21	0.263115	1.11E-19	65.801	ISTSGTAMES(0.001)LS(0.051)S(0.2	3	-1.8793	0.0	0.0
Clip2	0.323476	1.17E-19	55.779	QPAAEGSGSDAHS(0.011)VES(0.32	3	0.85857	0.0	0.0
Pxn	0.326035	1.00E-06	43.841	SAEPS(0.002)PT(0.008)VMS(0.326	3	-0.62283	0.0	0.0
Pxn	0.326035	1.00E-06	43.841	SAEPS(0.002)PT(0.008)VMS(0.326	3	-0.62283	0.0	0.0
Pxn	0.335907	6.28E-46	82.988	SPSGFSADEAES(0.336)S(0.294)PPI	4	-0.60987	0.0	0.0
Pxn	0.317761	2.34E-35	73.227	SPSGFSADEAES(0.075)S(0.318)PPI	5	-1.3667	0.0	0.0
Pxn	0.317761	2.34E-35	73.227	SPSGFSADEAES(0.075)S(0.318)PPI	5	-1.3667	0.0	0.0
Pxn	0.203185	3.02E-11	41.174	SPSGFS(0.001)ADEAES(0.203)S(0.	4	-4.2968	0.0	0.0
Pxn	0.458171	5.13E-66	96.158	T(0.012)GS(0.071)S(0.458)S(0.458	2	-0.21488	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	335
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	855
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	223
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	409
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	247
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	246
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	309
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	315
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	134
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	720
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	26
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	28
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	97
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	600
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	204
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	245
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	164
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	135
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	136
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	169
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	170
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	287



Pxn	0.413998	4.25E-23	62.032	T(0.001)GS(0.004)S(0.015)S(0.053	3	-0.63046	0.0	0.0
Pxn	0.312719	3.85E-08	41.422	T(0.028)GS(0.071)S(0.184)S(0.169	4	0.21478	0.0	0.0
Cmklr1	0.483499	0.000929933	48.188	ASVNEKET(0.033)S(0.483)T(0.483)	3	-0.39143	0.0	0.0
Ubxn4	0.380194	3.84E-41	126.84	ATSTEPS(0.087)NS(0.38)AS(0.38)S	3	0.85132	0.0	0.0
Srgap2	0.468278	1.25E-10	51.39	SDS(0.001)HGLGS(0.468)S(0.468)I	3	0.88215	0.0	0.0
Srgap2	0.468278	1.25E-10	51.39	SDS(0.001)HGLGS(0.468)S(0.468)I	3	0.88215	0.0	0.0
Srgap2	0.249898	4.04E-24	68.835	TSPVVAPT(0.25)S(0.25)EPS(0.25)S	5	2.7467	0.0	0.0
Srgap2	0.484625	4.04E-24	68.835	TSPVVAPT(0.006)S(0.024)EPS(0.48	3	0.097041	0.0	0.0
Srgap2	0.484625	4.04E-24	68.835	TSPVVAPT(0.006)S(0.024)EPS(0.48	3	0.097041	0.0	0.0
Ivns1abp	0.441777	4.03E-29	78.418	QISGSST(0.001)GCLS(0.442)S(0.44	4	1.0971	0.0	0.0
Rasal2	0.458453	7.00E-12	131.79	QNS(0.458)T(0.458)GQS(0.083)QI	2	-1.0231	0.0	0.0
Rasal2	0.276973	9.20E-58	106.38	S(0.017)IS(0.004)GT(0.062)S(0.11)	3	-1.4473	0.0	0.0
Rasal2	0.456161	4.33E-11	53.033	S(0.006)IS(0.002)GT(0.007)S(0.008	4	0.50092	0.0	0.0
Rasal2	0.42939	1.34E-23	66.294	SISGTSTSEKPN(0.012)MDT(0.128	5	1.4513	0.0	0.0
Enah	0.428607	5.44E-27	83.602	NS(0.032)RPS(0.429)S(0.429)PVN	4	0.14505	0.0	0.0
Enah	0.497507	2.17E-22	62.193	SCAWPT(0.001)S(0.003)NFS(0.498	4	-0.12523	0.0	0.0
Enah	0.497507	2.17E-22	62.193	SCAWPT(0.001)S(0.003)NFS(0.498	4	-0.12523	0.0	0.0
Eprs	0.248537	1.98E-32	69.492	EYVPGQLPAS(0.249)QNS(0.249)H!	5	-0.10604	0.0	0.0
Eprs	0.248537	1.98E-32	69.492	EYVPGQLPAS(0.249)QNS(0.249)H!	5	-0.10604	0.0	0.0
Eprs	0.248537	1.98E-32	69.492	EYVPGQLPAS(0.249)QNS(0.249)H!	5	-0.10604	0.0	0.0
Eprs	0.280433	9.11E-58	98.009	TGQEYRPGNPPTAAVQT(0.005)VS(	4	-0.20303	0.0	0.0
Ptpn14	0.431099	7.41E-07	40.986	AEQLAVNGAS(0.115)LGPS(0.431)I	4	-0.0069986	0.0	0.0
Ptpn14	0.431099	7.41E-07	40.986	AEQLAVNGAS(0.115)LGPS(0.431)I	4	-0.0069986	0.0	0.0
Rps6kc1	0.451388	8.96E-06	44.998	ALFT(0.002)LEDGDS(0.451)PS(0.4!	3	4.2743	0.0	0.0
Rps6kc1	0.451388	8.96E-06	44.998	ALFT(0.002)LEDGDS(0.451)PS(0.4!	3	4.2743	0.0	0.0
Rps6kc1	0.346052	1.06E-18	72.99	IDS(0.219)KDS(0.346)T(0.346)S(0.!	3	0.33768	0.0	0.0
Rps6kc1	0.328138	6.51E-09	56.339	SFPAS(0.006)LT(0.328)ADS(0.328)	4	0.77477	0.0	0.0
Ankrd17	0.487753	7.65E-22	71.894	EHY(0.002)PVS(0.488)S(0.496)PS(i	3	0.080481	0.0	0.0
Ankrd17	0.495743	7.65E-22	71.894	EHY(0.002)PVS(0.488)S(0.496)PS(i	3	0.080481	0.0	0.0
Ythdc1	0.396369	0.000722214	50.897	LS(0.077)S(0.396)S(0.396)S(0.109)	3	-3.7834	0.0	0.0
Fip1l1	0.495138	4.30E-12	69.081	DHS(0.495)PT(0.495)PS(0.01)VFN!	3	-0.61321	0.0	0.0
Ociad1	0.309376	5.07E-16	59.359	YDSNVS(0.001)GQS(0.309)S(0.309	4	0.72981	0.0	0.0
Ociad1	0.309376	5.07E-16	59.359	YDSNVS(0.001)GQS(0.309)S(0.309	4	0.72981	0.0	0.0
Atp8a1	0.422095	2.47E-09	42.856	CTIAGVAY(0.002)GHVPEPEDY(0.2!	4	0.7533	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	294
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	302
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	370
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	454
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	706
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	707
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	837
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	840
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	841
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	276
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	860
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	26
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	31
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	337
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	361
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	366
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	880
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	885
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	886
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	813
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	809
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	811
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	454
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	456
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	422
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	376
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1775
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1776
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	479
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	142
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	488

Fam114a1	0.493823	0.000119303	50.493	EQNDVAVDS(0.494)S(0.494)PPT(0	2	1.2527	0.0	0.0
Fam114a1	0.479259	0.00283417	58.17	T(0.449)VS(0.479)LS(0.072)QMLR	2	-0.03985	0.0	0.0
Jakmip1	0.499786	3.59E-07	91.093	RAS(0.5)ES(0.5)LSASQR	3	0.72443	0.0	0.0
Add1	0.425934	3.06E-41	113.63	T(0.426)S(0.426)T(0.121)S(0.027)P	3	-1.0736	0.0	0.0
Add1	0.469307	1.23E-24	66.88	KYSDVEVPAS(0.002)VT(0.015)GHS	5	2.0168	0.0	0.0
Add1	0.498205	2.02E-11	52.97	SPGT(0.003)PAGEGS(0.498)GS(0.4	5	-0.68748	0.0	0.0
Add1	0.49975	4.31E-22	93.551	S(0.5)RS(0.5)PGTPAGEGSGSPPK	3	0.051194	0.0	0.0
Camk2b	0.215311	6.15E-15	54.582	GSLPPAALES(0.215)S(0.215)DS(0.2	3	2.2238	0.0	0.0
Camk2b	0.283812	1.61E-42	87.208	GSLPPAALES(0.06)S(0.284)DS(0.28	3	0.71483	0.0	0.0
Camk2b	0.283812	1.61E-42	87.208	GSLPPAALES(0.06)S(0.284)DS(0.28	3	0.71483	0.0	0.0
Pik3ip1	0.499868	1.81E-22	63.376	CLNWLAAGS(0.5)GES(0.5)LAQPS	4	0.33276	0.0	0.0
Pik3ip1	0.499868	1.81E-22	63.376	CLNWLAAGS(0.5)GES(0.5)LAQPS	4	0.33276	0.0	0.0
Mtmr3	0.417982	5.14E-12	65.423	EVGHS(0.015)VLS(0.418)S(0.301)S	3	-1.3095	0.0	0.0
Rgs12	0.497463	4.56E-11	66.152	TLPDSQQVPS(0.497)S(0.497)PAS(0	3	1.906	0.0	0.0
Rgs12	0.497463	4.56E-11	66.152	TLPDSQQVPS(0.497)S(0.497)PAS(0	3	1.906	0.0	0.0
Whsc1	0.366496	1.58E-17	74.657	RS(0.366)S(0.366)S(0.239)AENQE(	3	0.12784	0.0	0.0
Whsc1	0.366496	1.58E-17	74.657	RS(0.366)S(0.366)S(0.239)AENQE(	3	0.12784	0.0	0.0
Whsc1	0.343536	1.50E-21	72.399	S(0.344)S(0.344)S(0.292)PS(0.021	3	1.2311	0.0	0.0
Whsc1	0.343536	1.50E-21	72.399	S(0.344)S(0.344)S(0.292)PS(0.021	3	1.2311	0.0	0.0
Grb10	0.24992	4.93E-19	51.903	TSSLPAIPNPFPELAGGAPGS(0.25)P	6	-0.45876	0.0	0.0
Grb10	0.24992	4.93E-19	51.903	TSSLPAIPNPFPELAGGAPGS(0.25)P	6	-0.45876	0.0	0.0
Grb10	0.24992	4.93E-19	51.903	TSSLPAIPNPFPELAGGAPGS(0.25)P	6	-0.45876	0.0	0.0
Grb10	0.24992	4.93E-19	51.903	TSSLPAIPNPFPELAGGAPGS(0.25)P	6	-0.45876	0.0	0.0
Sec24c	0.478246	1.78E-06	50.255	NCAS(0.365)PS(0.478)S(0.157)AGI	3	-1.1963	0.0	0.0
Ddhd1	0.193704	1.83E-24	65.378	KPVSSPSTT(0.001)T(0.001)VAT(0.1	5	1.117	0.0	0.0
Ddhd1	0.419288	5.62E-25	67.682	KPVSSPSTTTVAT(0.003)QT(0.063)I	4	1.3755	0.0	0.0
Ddhd1	0.193704	1.83E-24	65.378	KPVSSPSTT(0.001)T(0.001)VAT(0.1	5	1.117	0.0	0.0
Ddhd1	0.478336	4.12E-49	78.552	YYSEGESAGGGS(0.009)S(0.033)S(0	4	0.82992	0.0	0.0
Ddhd1	0.478336	4.12E-49	78.552	YYSEGESAGGGS(0.009)S(0.033)S(0	4	0.82992	0.0	0.0
Acin1	0.440588	0.0316112	54.259	KIS(0.119)VVS(0.441)T(0.441)K	2	-0.88452	0.0	0.0
Mtmr6	0.282557	2.50E-11	55.827	AVEGS(0.283)S(0.283)PADNRY(0.0	4	0.64165	0.0	0.0
Dmtn	0.470446	1.42E-33	80.36	LQS(0.47)T(0.47)EFS(0.021)PS(0.0	4	1.9156	0.0	0.0
Dmtn	0.412857	0.000661135	41.542	T(0.001)PFHT(0.008)S(0.033)LHS(0	3	0.59136	0.0	0.0
Elf1	0.495532	0.00319452	58.433	MS(0.009)S(0.496)S(0.496)PGIK	3	0.010253	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	118
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	260
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	749
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	481;496
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	423;423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	364;364
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353;353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	379
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	380
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	382
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	58
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	775
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	201
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	202
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	406
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	407
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	616
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	617
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	135
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	142
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	875
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	787
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	788
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	789
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	106
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	107
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	829
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	584
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	303
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	296

Elf1	0.495532	0.00319452	58.433	MS(0.009)S(0.496)S(0.496)PGIK	3	0.010253	0.0	0.0
Lmo7	0.455088	8.09E-05	52.172	S(0.087)HS(0.455)PS(0.455)MS(0.1	2	-1.3392	0.0	0.0
Ednrb	0.493732	0.000635849	43.208	ANDHGY(0.013)DNFRS(0.494)S(0.	3	-0.72739	0.0	0.0
Ednrb	0.493732	0.000635849	43.208	ANDHGY(0.013)DNFRS(0.494)S(0.	3	-0.72739	0.0	0.0
Ldb3	0.453959	1.62E-31	86.987	DPSLDT(0.002)NS(0.011)S(0.011)L	3	-0.79385	0.0	0.0
RGD13073	0.496319	4.54E-05	73.435	VSSVT(0.007)PS(0.496)S(0.496)PK	3	0.49713	0.0	0.0
Mtus1	0.477793	1.29E-05	44.238	DTPNPQVPGGS(0.478)S(0.478)PT(	3	3.2059	0.0	0.0
Mtus1	0.477793	1.29E-05	44.238	DTPNPQVPGGS(0.478)S(0.478)PT(	3	3.2059	0.0	0.0
Mtmr7	0.328162	2.40E-42	87.352	HSGFS(0.001)T(0.005)S(0.005)DN:	4	-0.050725	0.0	0.0
Dbn1	0.461762	2.97E-17	61.504	VAS(0.001)AS(0.008)GGG(0.194)C	5	-1.1925	0.0	0.0
Ptpdc1	0.431231	0.000389533	45.438	S(0.009)PCS(0.129)PLHCDT(0.431)	3	-0.53544	0.0	0.0
Cdyl	0.496359	0.00124527	40.432	GRT(0.496)S(0.496)IDGFHGES(0.0	3	-0.67814	0.0	0.0
Rbm17	0.275776	3.07E-15	52.642	AAIPPPVY(0.082)EEPDRPRS(0.09)F	7	-1.1667	0.0	0.0
Rbm17	0.275776	3.07E-15	52.642	AAIPPPVY(0.082)EEPDRPRS(0.09)F	7	-1.1667	0.0	0.0
Optn	0.391042	0.00487995	73.887	T(0.344)DS(0.265)IS(0.391)MGK	2	-0.40389	0.0	0.0
Abi1	0.332144	2.37E-18	48.614	ENSGSSS(0.001)IGIPIAVPT(0.332)F	4	0.287	0.0	0.0
Rock1	0.237527	1.29E-07	45.042	LLDLS(0.024)DS(0.233)T(0.238)S(C	4	0.53914	0.0	0.0
Rock1	0.23598	5.48E-07	41.047	LLDLS(0.003)DS(0.025)T(0.236)S(C	4	0.24106	0.0	0.0
Dtna	0.451032	5.80E-22	86.222	S(0.344)S(0.451)PS(0.204)HT(0.00	4	-1.0127	0.0	0.0
Camk4	0.314373	5.64E-24	96.143	LGS(0.045)AS(0.314)S(0.314)S(0.3	3	1.5237	0.0	0.0
Matr3	0.408836	0.00232295	63.662	S(0.409)QES(0.087)GY(0.252)Y(0.2	2	-0.80493	0.0	0.0
lws1	0.498971	5.70E-05	50.305	HS(0.002)ENET(0.499)S(0.499)DRI	3	0.72737	0.0	0.0
Slc12a2	0.471711	3.56E-17	57.712	LLRPSLAELHDELEKEPFEDGFANGEE	5	0.015992	0.0	0.0
Rnmt	0.491353	2.84E-07	44.848	ASVDS(0.001)ET(0.011)ES(0.491)S	3	-0.53833	0.0	0.0
Rnmt	0.491353	2.84E-07	44.848	ASVDS(0.001)ET(0.011)ES(0.491)S	3	-0.53833	0.0	0.0
Rnmt	0.315092	2.20E-05	48.376	TQDDLVEQNS(0.315)S(0.315)Y(0.2	2	0.54684	0.0	0.0
Dync1li2	0.374904	5.08E-05	48.288	GGPASVPS(0.012)AS(0.238)PGT(0	3	-0.96211	0.0	0.0
Dync1li2	0.457872	7.61E-05	47.037	KPDSMVT(0.001)NS(0.083)S(0.458	3	-0.10841	0.0	0.0
Smarca5	0.291647	5.21E-11	41.174	GGPEGGAAPAAPS(0.292)AT(0.292	4	-1.4052	0.0	0.0
Smarca5	0.45616	0.0252359	66.546	T(0.452)PT(0.092)S(0.456)PLK	2	1.6613	0.0	0.0
Ednra	0.498561	2.21E-07	54.898	SLMT(0.001)S(0.002)VPMNGT(0.4	3	-0.024109	0.0	0.0
Aif1	0.457519	2.78E-08	57.366	HFLDDPKY(0.085)S(0.458)S(0.458)	4	1.3264	0.0	0.0
Aif1	0.457519	2.78E-08	57.366	HFLDDPKY(0.085)S(0.458)S(0.458)	4	1.3264	0.0	0.0
Zbtb22	0.355099	0.00171628	40.724	AS(0.002)ENQS(0.355)PS(0.355)S(	2	0.62524	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1324;1307
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	435
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	436
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	168
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	234
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	531
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	532
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	574
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	627
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	227
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	229
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	262
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1108
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	588
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	54;54
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	256
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	15
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	52
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	487
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	37
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	205

Hmga1	0.447531	3.22E-05	49.537	KQPS(0.254)KEPS(0.448)EVPT(0.2	4	0.10707	0.0	0.0
Specc1l	0.467249	4.45E-32	95.666	KGS(0.246)S(0.467)GNAS(0.278)E'	3	0.47421	0.0	0.0
Specc1l	0.474436	5.73E-07	64.066	RS(0.474)S(0.474)T(0.041)S(0.009	3	-0.65311	0.0	0.0
MGC1127:	0.419845	1.81E-32	76.909	MDS(0.42)S(0.42)NT(0.16)QGIENF	4	0.64013	0.0	0.0
Gja1	0.469761	1.21E-16	61.186	MGQAGS(0.037)T(0.128)IS(0.366)	5	-1.0857	0.0	0.0
Ostm1	0.404131	0.000253678	47.082	LKS(0.404)S(0.404)T(0.112)S(0.03:	2	0.29112	0.0	0.0
Ostm1	0.404131	0.000253678	47.082	LKS(0.404)S(0.404)T(0.112)S(0.03:	2	0.29112	0.0	0.0
Usp9x	0.472346	4.14E-22	84.159	EICSLFGEAPQNLS(0.055)S(0.472)S	3	0.54943	0.0	0.0
Usp9x	0.472346	4.14E-22	84.159	EICSLFGEAPQNLS(0.055)S(0.472)S	3	0.54943	0.0	0.0
Dlg3	0.43956	3.63E-32	94.281	SIQEQGV(0.003)S(0.096)NT(0.44	3	-0.26836	0.0	0.0
LOC68307	0.358831	3.72E-07	43.795	DQPQS(0.109)S(0.359)S(0.359)GE	4	0.68247	0.0	0.0
LOC68307	0.358831	3.72E-07	43.795	DQPQS(0.109)S(0.359)S(0.359)GE	4	0.68247	0.0	0.0
Apool	0.383438	2.06E-05	48.053	IKS(0.087)ES(0.383)T(0.11)S(0.38	3	1.4989	0.0	0.0
Apool	0.383438	2.06E-05	48.053	IKS(0.087)ES(0.383)T(0.11)S(0.38	3	1.4989	0.0	0.0
Drp2	0.39585	3.94E-10	41.601	ELLLQPPT(0.255)ES(0.255)DGNGS	3	-2.1268	0.0	0.0
Drp2	0.399191	1.14E-91	110.9	GYLPVQS(0.004)VLES(0.399)DCS(C	4	-0.16612	0.0	0.0
Drp2	0.399191	1.14E-91	110.9	GYLPVQS(0.004)VLES(0.399)DCS(C	4	-0.16612	0.0	0.0
Drp2	0.399191	7.31E-17	57.347	GYLPVQS(0.004)VLES(0.399)DCS(C	4	-0.16612	0.0	0.0
Drp2	0.399191	7.31E-17	57.347	GYLPVQS(0.004)VLES(0.399)DCS(C	4	-0.16612	0.0	0.0
Prph	0.499709	3.46E-14	65.022	T(0.001)FGPPPS(0.5)LS(0.5)PGAFS	3	-0.31234	0.0	0.0
Prph	0.44638	5.66E-08	56.769	TFGPPPSLS(0.001)PGAFS(0.118)YS	3	1.2145	0.0	0.0
Prph	0.476222	1.97E-31	91.643	TFGPPPSLSPGAFS(0.002)YS(0.15)S	3	0.1776	0.0	0.0
Cacnb3	0.465134	1.31E-08	46.399	S(0.002)GNPS(0.015)S(0.042)LS(0.	3	-1.037	0.0	0.0
Eif4b	0.433739	0.000244048	41.422	S(0.258)T(0.083)PKEDDS(0.434)S(i	3	0.73029	0.0	0.0
Tnk2	0.499462	1.60E-43	99.6	S(0.499)S(0.499)GGEVT(0.001)LID	3	1.9326	0.0	0.0
Tnk2	0.499462	1.60E-43	99.6	S(0.499)S(0.499)GGEVT(0.001)LID	3	1.9326	0.0	0.0
Lrpprc	0.314189	1.47E-05	46.892	S(0.002)S(0.002)LS(0.017)S(0.062]	3	0.75639	0.0	0.0
Lrpprc	0.314189	1.47E-05	46.892	S(0.002)S(0.002)LS(0.017)S(0.062]	3	0.75639	0.0	0.0
Twf1	0.492241	1.01E-30	85.563	YLLS(0.015)QS(0.492)S(0.492)PAP	3	0.51687	0.0	0.0
Eps15	0.449005	3.05E-17	61.612	FHDS(0.099)S(0.449)S(0.449)PLLT	4	-0.085812	0.0	0.0
Eps15	0.496	1.53E-13	75.334	NT(0.008)IGS(0.496)S(0.496)PVAC	3	2.5593	0.0	0.0
Eps15	0.499404	1.95E-19	63.095	S(0.499)S(0.499)PEIAPS(0.001)DV	3	1.5522	0.0	0.0
Lars	0.499713	0.000235778	44.577	S(0.5)T(0.5)GNFLTLSQAVDK	3	1.3606	0.0	0.0
Lpxn	0.499545	7.08E-05	56.936	TLST(0.001)QGNT(0.5)S(0.5)PLK	3	1.1536	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	386
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	832
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	234
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	330
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	326
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	327
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	589
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	590
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	149
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	341
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	223
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	225
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	808
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	622
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	625
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	630
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	631
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	32
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	42
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	132
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	347
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	563
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	564
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1026
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1028
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	107
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	323
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	562
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	722
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	54

LOC10369	0.497319	0.00245448	84.31	AQPS(0.005)T(0.497)S(0.497)PK	2	-0.30127	0.0	0.0
Sipa1l2	0.330402	3.23E-15	52.697	NITGAS(0.002)AAS(0.33)QT(0.33	6	-1.2747	0.0	0.0
Sipa1l2	0.46062	6.88E-15	129.54	T(0.079)LS(0.461)DES(0.461)VCSN	2	-0.92783	0.0	0.0
Sipa1l2	0.391825	0.00107355	47.774	T(0.039)LS(0.238)DES(0.331)VCS(	2	-0.30966	0.0	0.0
RGD13114	0.494759	0.00070999	40.014	S(0.495)S(0.495)PQS(0.007)S(0.00	3	1.8006	0.0	0.0
RGD13114	0.494759	0.00070999	40.014	S(0.495)S(0.495)PQS(0.007)S(0.00	3	1.8006	0.0	0.0
Map7d2	0.499669	0.00633383	109.88	RS(0.001)S(0.5)S(0.5)PVK	2	-1.2179	0.0	0.0
Cnp	0.474	0.00185496	70.942	KMS(0.474)S(0.474)S(0.052)GAK	3	0.56774	0.0	0.0
Cnp	0.483612	0.00193375	93.561	MS(0.033)S(0.484)S(0.484)GAK	2	-1.2278	0.0	0.0
Cnp	0.315409	1.60E-11	45.084	TAGAQVVLNEQELQLWPS(0.02)DL	5	0.25173	0.0	0.0
Mri1	0.334213	2.97E-05	41.115	AALSAT(0.001)IFS(0.332)EGQT(0.3	3	1.8674	0.0	0.0
Tmem17	0.47685	5.70E-08	53.958	FHLQDFDQLS(0.011)AS(0.477)S(0.4	3	0.42773	0.0	0.0
Abcf3	0.45186	0.000888928	74.15	EQS(0.452)S(0.173)T(0.376)VNAK	2	-1.2182	0.0	0.0
Hsph1	0.49854	1.94E-09	45.983	VPT(0.001)EEEDGS(0.499)S(0.499)	5	-1.0874	0.0	0.0
Hsph1	0.49854	1.94E-09	45.983	VPT(0.001)EEEDGS(0.499)S(0.499)	5	-1.0874	0.0	0.0
Lap3	0.499741	0.00110152	40.137	T(0.5)KS(0.5)WIEEQEMGSFLSVAK	4	-0.488	0.0	0.0
Sugp1	0.450503	2.48E-18	75.533	AGS(0.451)T(0.451)GS(0.099)LPAL	3	0.014742	0.0	0.0
Bag3	0.280366	1.38E-07	45.579	SQSPAAS(0.029)DCS(0.28)S(0.28)S	3	0.44265	0.0	0.0
Bag3	0.280366	1.38E-07	45.579	SQSPAAS(0.029)DCS(0.28)S(0.28)S	3	0.44265	0.0	0.0
Bag3	0.405867	6.03E-49	77.807	S(0.406)QS(0.332)PLRGGVT(0.17)I	5	-0.88294	0.0	0.0
Zfp281	0.331849	9.16E-49	88.573	VDLHTSGEHSSELVQEEHLS(0.332)PC	5	-1.685	0.0	0.0
Mnda	0.332148	1.02E-13	63.46	CLSPIPQT(0.332)S(0.332)S(0.332)I	3	1.5358	0.0	0.0
Mnda	0.332148	1.02E-13	63.46	CLSPIPQT(0.332)S(0.332)S(0.332)I	3	1.5358	0.0	0.0
Lpin1	0.309645	3.39E-15	56.366	GLDPTTAAQGLPPS(0.234)DT(0.18	4	-0.1745	0.0	0.0
Lpin1	0.315659	3.39E-11	49.141	SANQS(0.001)PQS(0.038)VGS(0.3	3	-0.98474	0.0	0.0
Lpin1	0.315659	3.39E-11	49.141	SANQS(0.001)PQS(0.038)VGS(0.3	3	-0.98474	0.0	0.0
Ptdss1	0.347733	2.31E-10	59.372	TYSECEDGT(0.348)Y(0.297)S(0.34	4	0.10285	0.0	0.0
Prr5	0.461922	2.16E-07	72.891	FMS(0.462)S(0.462)PS(0.076)LSDL	3	0.70539	0.0	0.0
Rpp25	0.329492	2.84E-07	44.341	QLGY(0.008)QPPNLS(0.329)PGPS(	4	-1.4498	0.0	0.0
Rpp25	0.329492	2.84E-07	44.341	QLGY(0.008)QPPNLS(0.329)PGPS(	4	-1.4498	0.0	0.0
Rpp25	0.329492	2.84E-07	44.341	QLGY(0.008)QPPNLS(0.329)PGPS(	4	-1.4498	0.0	0.0
Zfand3	0.497341	4.20E-08	58.885	SCGADSQS(0.005)ES(0.497)EAS(0.	3	0.29329	0.0	0.0
Fxr1	0.279268	5.74E-14	49.765	RGPNY(0.018)T(0.279)S(0.279)GY	3	0.95736	0.0	0.0
Traf3ip1	0.398293	0.00687818	59.35	S(0.398)S(0.398)S(0.203)AEHK	3	-0.52864	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	366
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1491
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1494
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	285
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	286
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	315
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	24
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	366
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	416
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	417
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	238
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	320
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	185
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	136
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	644
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	150
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	478
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	479
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	425
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	11
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	157
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	161
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	162
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	126
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	426
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	175

Traf3ip1	0.398293	0.00687818	59.35	S(0.398)S(0.398)S(0.203)AEHK	3	-0.52864	0.0	0.0
Ppapdc3	0.42086	9.21E-22	78.358	KAS(0.158)GPS(0.421)T(0.421)QPI	4	0.44534	0.0	0.0
Irf2bpl	0.427329	1.75E-18	100.01	QS(0.415)PNS(0.427)S(0.147)S(0.0	2	0.11366	0.0	0.0
Wbp4	0.287459	1.32E-16	59.372	LGLQS(0.001)DIS(0.013)EPT(0.287	4	0.93344	0.0	0.0
Lmna	0.466028	3.60E-05	45.916	AS(0.466)S(0.409)HS(0.117)S(0.00	4	2.0443	0.0	0.0
Lmna	0.45282	9.15E-06	51.771	GSHCS(0.094)S(0.453)S(0.453)GDI	3	-0.17731	0.0	0.0
Eef1d	0.490391	5.90E-15	123.72	LSTLEKS(0.49)S(0.49)PT(0.019)HR	2	-0.22465	0.0	0.0
Arhgef12	0.331324	1.64E-07	54.103	S(0.331)T(0.331)S(0.331)HDFDPT(	4	0.27359	0.0	0.0
Rab10	0.490436	2.08E-19	62.193	KTPVKEPNSENVDIS(0.49)S(0.49)G	4	1.7111	0.0	0.0
Rab10	0.490436	2.08E-19	62.193	KTPVKEPNSENVDIS(0.49)S(0.49)G	4	1.7111	0.0	0.0
Ppap2a	0.32405	3.31E-05	41.672	KEDS(0.002)HT(0.011)T(0.014)LHE	4	-0.64164	0.0	0.0
Cldn11	0.482983	1.94E-14	87.519	FYYSS(0.002)GS(0.483)S(0.483)S(C	2	-0.6192	0.0	0.0
Prkd2	0.482419	1.34E-21	82.755	LGS(0.482)S(0.482)ES(0.035)LPCT,	3	0.039598	0.0	0.0
Prkd2	0.482419	1.34E-21	82.755	LGS(0.482)S(0.482)ES(0.035)LPCT,	3	0.039598	0.0	0.0
LOC10254	0.434382	1.06E-08	49.66	SVTSNQS(0.003)DGT(0.434)QES(0	3	2.9582	0.0	0.0
Cdkn2aip	0.451037	0.000128912	56.817	GIS(0.451)S(0.451)S(0.098)NEGVE	2	-0.96444	0.0	0.0
LOC30676	0.402505	3.79E-13	65.477	HPAS(0.007)AQS(0.471)S(0.403)P!	3	0.61945	0.0	0.0
LOC30676	0.386654	1.40E-21	72.09	EEKHPAS(0.005)AQS(0.434)S(0.37	4	-0.090365	0.0	0.0
LOC30676	0.47237	3.39E-31	91.616	HPASAQS(0.003)S(0.015)PS(0.022	3	-0.048679	0.0	0.0
LOC30676	0.249774	2.53E-51	110.03	EEKHPASAQS(0.014)S(0.014)PS(0.	4	-0.36307	0.0	0.0
Fam122a	0.405782	5.02E-71	128.47	S(0.219)NS(0.339)APLIHGLS(0.40€	4	-0.10335	0.0	0.0
Cmtr1	0.45125	6.03E-33	77.221	ASTTSLS(0.001)GS(0.095)DS(0.451	4	1.3669	0.0	0.0
Mef2a	0.311047	6.92E-28	82.877	GCDS(0.038)PDPDT(0.311)S(0.311	3	-2.8996	0.0	0.0
Rmdn3	0.347138	0.000142967	40.798	SQSLPNS(0.004)LDY(0.301)AQT(0.	3	1.5499	0.0	0.0
Amz2	0.434513	8.74E-06	51.566	S(0.435)S(0.435)S(0.104)EHVY(0.0	4	0.8513	0.0	0.0
Amz2	0.434513	8.74E-06	51.566	S(0.435)S(0.435)S(0.104)EHVY(0.0	4	0.8513	0.0	0.0
Rell2	0.362901	1.96E-23	68.664	T(0.363)S(0.363)RGS(0.274)EPDD,	4	0.067373	0.0	0.0
Glod4	0.441546	3.70E-06	53.453	FYLQDRS(0.442)PS(0.442)QS(0.11	3	1.2897	0.0	0.0
Armcx2	0.332957	5.38E-10	49.125	SGTEANMES(0.001)IVMT(0.333)S(	3	-1.641	0.0	0.0
Ncbp1	0.499797	2.49E-32	95.122	RKT(0.5)S(0.5)DANETEDHLES LICK	5	0.10965	0.0	0.0
Vgll4	0.440725	0.000809393	43.316	DS(0.003)AS(0.101)S(0.441)S(0.44	3	0.67895	0.0	0.0
Vgll4	0.440725	0.000809393	43.316	DS(0.003)AS(0.101)S(0.441)S(0.44	3	0.67895	0.0	0.0
Tcea3	0.493219	0.00205819	83.647	SST(0.002)T(0.012)S(0.493)S(0.49:	2	-0.02834	0.0	0.0
Tcea3	0.493219	0.00205819	83.647	SST(0.002)T(0.012)S(0.493)S(0.49:	2	-0.02834	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	176
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	206
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	95
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	403
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	575
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	487;488
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	187
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	188
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	275
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	196
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	212
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	189
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	176
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	44
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	54
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	76
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	57
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	329
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	330
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	49
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	132
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	252
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	253
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	139
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	140

Usp1	0.248963	3.37E-15	54.072	DNTVNGS(0.002)GPAS(0.249)PGS	4	-1.5659	0.0	0.0
Usp1	0.248963	3.37E-15	54.072	DNTVNGS(0.002)GPAS(0.249)PGS	4	-1.5659	0.0	0.0
Usp1	0.248963	3.37E-15	54.072	DNTVNGS(0.002)GPAS(0.249)PGS	4	-1.5659	0.0	0.0
Tbc1d10a	0.479249	1.40E-16	55.662	ESLAQGPDAAT(0.025)ADELS(0.47)	3	0.87373	0.0	0.0
Tbc1d10a	0.479249	1.40E-16	55.662	ESLAQGPDAAT(0.025)ADELS(0.47)	3	0.87373	0.0	0.0
Ino80c	0.427608	2.41E-30	85.062	RPAS(0.162)PS(0.162)HNS(0.428)	4	0.29464	0.0	0.0
Lysmd1	0.333124	0.000323578	42.958	SYGS(0.001)LVQS(0.333)S(0.333)C	3	3.0485	0.0	0.0
Lysmd1	0.333124	0.000323578	42.958	SYGS(0.001)LVQS(0.333)S(0.333)C	3	3.0485	0.0	0.0
Taok3	0.336821	1.33E-11	58.938	EVDSLGSIH(0.017)IPS(0.052)VS(C	3	0.078919	0.0	0.0
Gmps	0.493106	9.08E-06	83.877	TLNMT(0.014)T(0.493)S(0.493)PEI	2	-0.086449	0.0	0.0
Snx15	0.397988	8.11E-09	46.862	EES(0.035)T(0.032)GPS(0.398)PT((	3	-0.02696	0.0	0.0
Slc39a6	0.499769	7.17E-05	61.344	YESQLS(0.5)T(0.5)NEEK	3	0.43052	0.0	0.0
Ncoa7	0.299667	3.26E-16	56.172	LSSSTPGAT(0.021)VS(0.3)PS(0.3)S	4	-1.8541	0.0	0.0
Ncoa7	0.299667	3.26E-16	56.172	LSSSTPGAT(0.021)VS(0.3)PS(0.3)S	4	-1.8541	0.0	0.0
Ncoa7	0.299667	3.26E-16	56.172	LSSSTPGAT(0.021)VS(0.3)PS(0.3)S	4	-1.8541	0.0	0.0
Ncoa7	0.229136	3.04E-20	60.288	SIEPDGIDIT(0.059)LS(0.229)S(0.22	6	-1.8535	0.0	0.0
Ncoa7	0.229136	3.04E-20	60.288	SIEPDGIDIT(0.059)LS(0.229)S(0.22	6	-1.8535	0.0	0.0
Ncoa7	0.229136	3.04E-20	60.288	SIEPDGIDIT(0.059)LS(0.229)S(0.22	6	-1.8535	0.0	0.0
Ncoa7	0.229136	3.04E-20	60.288	SIEPDGIDIT(0.059)LS(0.229)S(0.22	6	-1.8535	0.0	0.0
Ncoa7	0.492891	4.96E-30	119.45	VLS(0.493)S(0.493)T(0.014)S(0.00	4	0.44606	0.0	0.0
Dmwd	0.195215	5.88E-15	50.464	AEETASAS(0.001)GDGDPS(0.195)C	4	2.3725	0.0	0.0
Dmwd	0.195215	5.88E-15	50.464	AEETASAS(0.001)GDGDPS(0.195)C	4	2.3725	0.0	0.0
Dmwd	0.195215	5.88E-15	50.464	AEETASAS(0.001)GDGDPS(0.195)C	4	2.3725	0.0	0.0
Dmwd	0.249588	6.02E-07	53.565	SVVEGISS(0.001)QPGS(0.25)S(0.25	2	-2.594	0.0	0.0
Dmwd	0.249588	6.02E-07	53.565	SVVEGISS(0.001)QPGS(0.25)S(0.25	2	-2.594	0.0	0.0
Dmwd	0.2694	1.06E-07	53.565	SVVEGIS(0.001)S(0.002)QPGS(0.25	3	-0.063642	0.0	0.0
Pcf11	0.249585	2.03E-16	59.912	SPDEPSTPGT(0.001)VVS(0.25)S(0.25	4	0.84349	0.0	0.0
Pcf11	0.249585	2.03E-16	59.912	SPDEPSTPGT(0.001)VVS(0.25)S(0.25	4	0.84349	0.0	0.0
Pcf11	0.249585	2.03E-16	59.912	SPDEPSTPGT(0.001)VVS(0.25)S(0.25	4	0.84349	0.0	0.0
Cpeb3	0.472399	2.89E-119	159.42	SSLFPFEDAFLDDSHGDQALS(0.108	3	0.52023	0.0	0.0
Brsk2	0.302322	2.67E-07	44.848	KLQVPT(0.002)PEEMS(0.092)NLT(	5	-0.44959	0.0	0.0
Brsk2	0.496216	4.18E-06	47.937	KS(0.899)MEVLS(0.496)VT(0.221)I	3	0.59926	0.0	0.0
Brsk2	0.498408	5.35E-06	48.423	SISGAS(0.001)S(0.003)GLS(0.498)	3	-0.78837	0.0	0.0
Prune2	0.166614	9.19E-56	83.567	ADGENPDILTHCDQDS(0.167)NS(0	4	-0.66408	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	398
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	401
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	402
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	40
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	31
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	30
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	31
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	356
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	332
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	228
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	464
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	94
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	96
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	97
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	464
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	465
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	473
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	393
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	403
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	404
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	658
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	659
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	661
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	182
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	672
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	403
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	459
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1837



Prune2	0.223899	9.19E-56	97.352	ADGENPDILTHCDQDS(0.045)NS(0	4	-0.56898	0.0	0.0
Prune2	0.224111	9.19E-56	97.352	ADGENPDILT(0.007)HCDQDS(0.22	5	-0.2977	0.0	0.0
Prune2	0.223899	9.19E-56	97.352	ADGENPDILTHCDQDS(0.045)NS(0	4	-0.56898	0.0	0.0
Prune2	0.166614	9.19E-56	83.567	ADGENPDILTHCDQDS(0.167)NS(0	4	-0.66408	0.0	0.0
Prune2	0.334736	2.68E-08	42.885	QGQAGLDAVPT(0.332)QAAT(0.33	4	-1.1632	0.0	0.0
Sorbs1	0.462573	1.14E-18	99.747	ET(0.002)PS(0.071)S(0.463)S(0.46	3	-1.0245	0.0	0.0
Sorbs1	0.482921	2.73E-23	54.681	RPHHSQPAS(0.002)ACGS(0.067)LS	7	0.37093	0.0	0.0
Sorbs1	0.48292	2.73E-23	54.681	RPHHSQPAS(0.002)ACGS(0.067)LS	7	0.37093	0.0	0.0
Sorbs1	0.369469	1.25E-20	79.489	TPVDYIDLAYS(0.369)S(0.369)S(0.2	2	0.49599	0.0	0.0
Sorbs1	0.213781	1.07E-15	53.553	S(0.001)PT(0.001)AHVPQS(0.069):	5	-0.9128	0.0	0.0
Sorbs1	0.213781	1.07E-15	53.553	S(0.001)PT(0.001)AHVPQS(0.069):	5	-0.9128	0.0	0.0
Sorbs1	0.499866	3.07E-11	66.893	YS(0.5)FS(0.5)EDTKSPLSVPR	4	0.27022	0.0	0.0
Sorbs1	0.487526	3.43E-11	66.76	RPS(0.058)S(0.872)S(0.488)AS(0.2	4	-0.059789	0.0	0.0
Sorbs1	0.200525	9.07E-16	52.697	FFSELEFGRPS(0.068)S(0.068)AVS(I	7	-0.28934	0.0	0.0
Ccdc186	0.283843	2.14E-08	105.38	S(0.169)S(0.043)S(0.284)S(0.284)C	2	0.35454	0.0	0.0
Ccdc186	0.283843	2.14E-08	105.38	S(0.169)S(0.043)S(0.284)S(0.284)C	2	0.35454	0.0	0.0
Nipbl	0.339772	9.26E-16	56.68	LSQNSMHS(0.003)S(0.011)PAS(0.1	4	-1.4951	0.0	0.0
Rapgef1	0.4678	3.48E-10	83.087	AVS(0.468)GS(0.468)S(0.064)LPVC	3	-0.81626	0.0	0.0
Rapgef1	0.4678	3.48E-10	83.087	AVS(0.468)GS(0.468)S(0.064)LPVC	3	-0.81626	0.0	0.0
Rapgef1	0.498045	0.00132647	47.712	HGS(0.498)LPVPS(0.441)Y(0.061)K	3	0.24662	0.0	0.0
Garnl3	0.326073	2.66E-13	45.223	S(0.304)AS(0.304)S(0.326)DRIPS(C	4	-1.2548	0.0	0.0
LOC10036	0.355605	0.0121886	42.338	S(0.286)T(0.355)S(0.356)DIGS(0.0	3	1.0839	0.0	0.0
LOC68801	0.495542	1.01E-08	92.856	S(0.007)LS(0.496)ES(0.496)S(0.00:	3	-0.73632	0.0	0.0
LOC68801	0.495542	1.01E-08	92.856	S(0.007)LS(0.496)ES(0.496)S(0.00:	3	-0.73632	0.0	0.0
Ttn	0.499521	0.033915	42.336	FGIS(0.001)EPLT(0.5)S(0.5)PK	3	-1.4984	0.0	0.0
Ralgapa2	0.44092	6.95E-11	90.725	RS(0.441)S(0.441)S(0.118)PAELDL	3	1.2739	0.0	0.0
Ralgapa2	0.44092	6.95E-11	90.725	RS(0.441)S(0.441)S(0.118)PAELDL	3	1.2739	0.0	0.0
Ralgapa2	0.474436	3.69E-08	101.39	T(0.017)YS(0.474)FT(0.474)S(0.03	2	0.26772	0.0	0.0
Adam22	0.450429	1.11E-09	87.429	S(0.009)PS(0.079)S(0.45)S(0.446)T	2	0.55975	0.0	0.0
Braf	0.414027	1.81E-33	73.603	GDGGS(0.011)T(0.036)T(0.12)GLS	4	0.25211	0.0	0.0
Braf	0.460308	4.75E-20	66.137	GDGGST(0.001)T(0.005)GLS(0.01€	5	0.28964	0.0	0.0
Braf	0.333226	4.74E-12	50.099	DRS(0.333)S(0.333)S(0.333)APNVI	5	1.5752	0.0	0.0
Braf	0.333226	4.74E-12	50.099	DRS(0.333)S(0.333)S(0.333)APNVI	5	1.5752	0.0	0.0
Braf	0.360953	2.29E-25	73.361	DRS(0.361)S(0.361)S(0.278)APNVI	3	1.5313	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1839
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1842
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1843
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1844
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115;115;115;85
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	446;255;497;234
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	449;258;500;237
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1644;943;1150;757
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	852;640
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	859;647
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	677;465;728
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	705;912;575
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	854
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	750
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	751
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	150
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	316
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	318
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	662
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	938
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1884
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	780
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	782
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	19920
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	901
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	902
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	484
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	915
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	386;374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	392;380
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338

Braf	0.360953	2.29E-25	73.361	DRS(0.361)S(0.361)S(0.278)APNVI	3	1.5313	0.0	0.0
lqsec1	0.457153	0.00101175	68.436	LQHS(0.086)T(0.457)S(0.457)VLR	2	0.74458	0.0	0.0
lqsec1	0.497996	2.24E-38	86.617	S(0.498)S(0.498)AGS(0.004)LESNV	4	0.0032005	0.0	0.0
lqsec1	0.468345	1.38E-17	95.197	SALS(0.063)S(0.468)S(0.468)LRDL	4	-0.25163	0.0	0.0
Fkbp15	0.499894	1.43E-19	74.505	HSQDSQHCS(0.5)VS(0.5)GDEEDEL	3	0.32867	0.0	0.0
Fkbp15	0.490596	1.70E-11	52.249	KGEPSEPEVS(0.004)S(0.015)EIKDS	5	0.45128	0.0	0.0
Fkbp15	0.490596	1.70E-11	52.249	KGEPSEPEVS(0.004)S(0.015)EIKDS	5	0.45128	0.0	0.0
Sgip1	0.499692	0.00431562	53.6	FYLT(0.001)FEFS(0.5)S(0.5)R	2	0.040931	0.0	0.0
Sgip1	0.499692	0.00431562	53.6	FYLT(0.001)FEFS(0.5)S(0.5)R	2	0.040931	0.0	0.0
Sgip1	0.496966	1.20E-54	86.138	LPPGKPGVGDVS(0.009)RPFS(0.22)	6	-0.012857	0.0	0.0
Ski	0.306064	6.27E-60	122.94	EEFTSSLSS(0.002)LS(0.306)S(0.306)	3	-1.0263	0.0	0.0
Ski	0.306064	6.27E-60	122.94	EEFTSSLSS(0.002)LS(0.306)S(0.306)	3	-1.0263	0.0	0.0
Ski	0.407119	8.47E-39	87.654	EEFTSSLSS(0.002)S(0.011)LS(0.269)	4	-1.0933	0.0	0.0
Syne2	0.219377	3.57E-17	55.884	LAQALSCDY(0.001)NQPS(0.219)PE	5	1.5063	0.0	0.0
Syne2	0.219377	3.57E-17	55.884	LAQALSCDY(0.001)NQPS(0.219)PE	5	1.5063	0.0	0.0
Syne2	0.219377	3.57E-17	55.884	LAQALSCDY(0.001)NQPS(0.219)PE	5	1.5063	0.0	0.0
Syne2	0.299229	3.57E-17	58.001	LAQALSCDY(0.002)NQPS(0.184)PE	4	1.1568	0.0	0.0
Dicer1	0.479072	1.91E-07	49.266	YLDGNANT(0.092)S(0.148)T(0.148)	3	2.263	0.0	0.0
Ahnak2	0.350109	1.63E-70	103.27	DLS(0.227)PT(0.35)S(0.35)T(0.072)	3	-1.2743	0.0	0.0
Ahnak2	0.457885	7.06E-07	45.489	LAEDQPT(0.001)DAET(0.042)S(0.0	3	1.1978	0.0	0.0
Ahnak2	0.468563	2.07E-05	111.33	LGFS(0.061)S(0.469)S(0.469)PT(0.	2	0.36129	0.0	0.0
Ahnak2	0.47105	2.07E-05	111.33	LGFS(0.071)S(0.444)S(0.471)PT(0.	3	0.33209	0.0	0.0
Ahnak2	0.413578	8.29E-07	43.681	MPS(0.371)FS(0.414)VS(0.154)API	3	-1.6261	0.0	0.0
Ahnak2	0.442834	1.20E-10	51.31	MPSFS(0.003)VS(0.026)AS(0.085)C	4	1.9359	0.0	0.0
Ahnak2	0.442834	1.20E-10	51.31	MPSFS(0.003)VS(0.026)AS(0.085)C	4	1.9359	0.0	0.0
Ahnak2	0.482166	6.76E-16	61.942	THLPT(0.002)PECGS(0.482)QGS(0.	4	-0.94625	0.0	0.0
Ahnak2	0.483512	2.57E-08	41.174	VEGDVALPS(0.484)VQGD LKT(0.48	4	0.38891	0.0	0.0
Ahnak2	0.491069	9.50E-17	54.466	VEGDVALPS(0.491)VQGD LKT(0.49	5	1.0848	0.0	0.0
Kif21a	0.403778	7.26E-16	63.488	AHNLQD GQIS(0.404)DT(0.404)GD	3	-0.58034	0.0	0.0
Kif21a	0.420845	4.68E-09	49.871	AHNLQD GQIS(0.145)DT(0.145)GD	3	0.27681	0.0	0.0
Adamts20	0.408912	7.17E-05	46.156	S(0.089)PS(0.089)S(0.409)S(0.409	3	-0.038061	0.0	0.0
Adamts20	0.408912	7.17E-05	46.156	S(0.089)PS(0.089)S(0.409)S(0.409	3	-0.038061	0.0	0.0
Cep164	0.333307	7.45E-14	67.902	YFPTGIPLS(0.333)S(0.333)GS(0.33	3	-0.23447	0.0	0.0
Cep164	0.446906	2.90E-27	77.08	KYFPTGIPLS(0.106)S(0.447)GS(0.4	4	-0.017901	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	89;88
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	938
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	923
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1155
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1017
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1018
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	572
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	573
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	519
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	556
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	557
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	559
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	152
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	157
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	161
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	162
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1255
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	268;268
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	723;5672
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	6064;7435
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	6065;7436
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	476;476
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	831;654
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	835;658
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	5685;7056
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4939;6305
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3575;4941
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1660;1561;1660
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1671;1572;1671
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1033
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1034
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1236
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1237

Cep164	0.446906	2.90E-27	77.08	KYFPTGIPLS(0.106)S(0.447)GS(0.4	4	-0.017901	0.0	0.0
Cep164	0.470954	5.10E-08	54.768	LFSQGADS(0.471)S(0.471)VGS(0.0	3	-0.84455	0.0	0.0
Cep164	0.470954	5.10E-08	54.768	LFSQGADS(0.471)S(0.471)VGS(0.0	3	-0.84455	0.0	0.0
Dmxl2	0.301281	2.54E-12	61.096	ESEAGT(0.301)GS(0.301)S(0.301)E	5	-1.1632	0.0	0.0
Dmxl2	0.301281	2.54E-12	61.096	ESEAGT(0.301)GS(0.301)S(0.301)E	5	-1.1632	0.0	0.0
Dmxl2	0.462221	0.00361067	41.227	ES(0.034)KS(0.462)S(0.462)DDIDY	3	-0.10273	0.0	0.0
Dmxl2	0.462221	0.00361067	41.227	ES(0.034)KS(0.462)S(0.462)DDIDY	3	-0.10273	0.0	0.0
Dmxl2	0.496487	1.88E-06	53.625	RS(0.496)S(0.496)VLVT(0.007)HAE	4	0.38738	0.0	0.0
Dmxl2	0.496487	1.88E-06	53.625	RS(0.496)S(0.496)VLVT(0.007)HAE	4	0.38738	0.0	0.0
Dmxl2	0.350188	1.14E-10	61.477	VSVDSNLFVY(0.297)S(0.35)KS(0.3	4	1.3445	0.0	0.0
Dmxl2	0.350188	1.14E-10	61.477	VSVDSNLFVY(0.297)S(0.35)KS(0.3	4	1.3445	0.0	0.0
Pml	0.388812	4.60E-34	83.602	MES(0.241)T(0.241)DENEDRLS(0.3	4	0.13893	0.0	0.0
Pml	0.442584	5.09E-44	92.147	MESTDENEDRLS(0.005)T(0.109)S(	5	1.0728	0.0	0.0
Dennd4a	0.472061	2.52E-06	68.283	MNS(0.201)S(0.305)FS(0.472)VKP	3	0.42686	0.0	0.0
Tln2	0.443152	6.05E-105	144.45	S(0.114)GS(0.443)S(0.443)GPETFN	3	-0.32237	0.0	0.0
Smcp1	0.479226	3.64E-34	76.967	NAIAITNIS(0.007)S(0.007)S(0.007)	3	0.52346	0.0	0.0
Smcp1	0.273278	1.80E-12	53.197	NAIAITNIS(0.008)S(0.086)S(0.086)	5	0.15208	0.0	0.0
Nyap2	0.411716	8.36E-15	88.319	LS(0.052)T(0.412)S(0.412)S(0.121)	3	1.8304	0.0	0.0
Nyap2	0.298622	8.36E-15	88.319	LS(0.011)T(0.299)S(0.299)S(0.299)	2	0.59301	0.0	0.0
Filip1l	0.49758	9.59E-05	48.288	AQT(0.498)PES(0.498)CGS(0.004)	3	0.30404	0.0	0.0
Phldb2	0.499055	0.00022541	56.139	SGAAS(0.002)MPS(0.499)S(0.499)	3	0.20986	0.0	0.0
Pnpla6	0.331318	4.13E-39	91.622	DEGGS(0.001)PEGAS(0.331)PS(0.3	3	-0.15594	0.0	0.0
Pnpla6	0.47166	1.45E-51	112.74	DEGGS(0.041)PEGAS(0.366)PS(0.4	3	0.16552	0.0	0.0
Pnpla6	0.279672	1.82E-19	76.21	VSQSTSSLVDT(0.005)S(0.098)VS(0	3	-0.10732	0.0	0.0
LOC69008	0.465373	9.37E-08	45.579	QENS(0.016)S(0.047)NS(0.465)S(0	5	0.2031	0.0	0.0
Atxn2	0.49295	1.57E-08	120.55	AS(0.006)ET(0.493)S(0.493)PS(0.0	2	-0.72286	0.0	0.0
Atxn2	0.203032	3.07E-19	56.22	DSFIDS(0.002)GS(0.018)S(0.203)S	5	-0.97621	0.0	0.0
Atxn2	0.203032	3.07E-19	56.22	DSFIDS(0.002)GS(0.018)S(0.203)S	5	-0.97621	0.0	0.0
Atxn2	0.187342	3.07E-19	56.22	DSFIDS(0.002)GS(0.018)S(0.203)S	5	-0.97621	0.0	0.0
Atxn2	0.187342	3.07E-19	56.22	DSFIDS(0.002)GS(0.018)S(0.203)S	5	-0.97621	0.0	0.0
Atxn2	0.187342	3.07E-19	56.22	DSFIDS(0.002)GS(0.018)S(0.203)S	5	-0.97621	0.0	0.0
Atxn2	0.187342	3.07E-19	56.22	DSFIDS(0.002)GS(0.018)S(0.203)S	5	-0.97621	0.0	0.0
Atxn2	0.187342	3.07E-19	56.22	DSFIDS(0.002)GS(0.018)S(0.203)S	5	-0.97621	0.0	0.0
Atxn2	0.332941	4.62E-05	44.391	GQIPS(0.001)S(0.001)LLLLLPT(0.3	3	-0.60823	0.0	0.0
Atxn2	0.33185	2.11E-08	46.953	RGPEVT(0.001)S(0.003)QGVQT(0.	4	0.33853	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1239
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	291
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	292
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	444;462
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	445;463
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2713;2709
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2714;2710
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	307;325
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	308;326
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1135;1153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1133;1151
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	588
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	590
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	463
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	151
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	749
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	247
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1317
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	543
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	621
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	622
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	625
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	626
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	627
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	628
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1036
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	660

Atxn2	0.499748	5.62E-12	65.16	T(0.5)S(0.5)PAGGTWSSVVSGVPR	3	0.22756	0.0	0.0
RGD13115	0.387709	7.29E-15	55.302	S(0.003)S(0.003)DT(0.02)PS(0.049	3	-0.060023	0.0	0.0
RGD13115	0.387709	7.29E-15	55.302	S(0.003)S(0.003)DT(0.02)PS(0.049	3	-0.060023	0.0	0.0
Appl1	0.257257	2.00E-14	49.209	LIAAS(0.002)S(0.002)RPS(0.013)Q	4	-1.5286	0.0	0.0
Appl1	0.257257	2.00E-14	49.209	LIAAS(0.002)S(0.002)RPS(0.013)Q	4	-1.5286	0.0	0.0
Appl1	0.257257	2.00E-14	49.209	LIAAS(0.002)S(0.002)RPS(0.013)Q	4	-1.5286	0.0	0.0
Nisch	0.439049	3.23E-15	50.521	LPTAPCIRPS(0.019)S(0.142)S(0.43	4	-1.4141	0.0	0.0
LOC100361	0.270542	8.30E-20	57.981	QFIAAQNLGPAS(0.271)GLPT(0.081	4	1.4162	0.0	0.0
LOC100361	0.178025	8.30E-20	57.981	QFIAAQNLGPAS(0.178)GLPT(0.171	4	-1.1808	0.0	0.0
LOC100361	0.178025	8.30E-20	57.981	QFIAAQNLGPAS(0.178)GLPT(0.171	4	-1.1808	0.0	0.0
Etl4	0.443137	3.03E-08	59.372	AGGDCKPT(0.113)S(0.443)PS(0.44	4	1.3424	0.0	0.0
Garem	0.218296	4.74E-12	44.637	S(0.175)PS(0.175)PT(0.189)LS(0.2	4	-0.23973	0.0	0.0
Zfhx3	0.33223	5.23E-22	73.294	ALQESAT(0.003)GQPEPT(0.332)S(i	4	0.53876	0.0	0.0
Zfhx3	0.33223	5.23E-22	73.294	ALQESAT(0.003)GQPEPT(0.332)S(i	4	0.53876	0.0	0.0
Zfhx3	0.498341	2.85E-32	76.161	GDIFDGTFSHLPSP(0.498)GS(0.49	3	-2.1706	0.0	0.0
Zfhx3	0.498341	2.85E-32	76.161	GDIFDGTFSHLPSP(0.498)GS(0.49	3	-2.1706	0.0	0.0
Zfhx3	0.493362	9.08E-06	49.595	TPITSVPLGPLAS(0.493)S(0.493)PTI	3	0.31889	0.0	0.0
Ppp1r3f	0.498764	5.49E-23	65.428	AVAAAGGGEGCPDGGG(0.499)S(0.	4	0.049202	0.0	0.0
Ppp1r3f	0.498764	5.49E-23	65.428	AVAAAGGGEGCPDGGG(0.499)S(0.	4	0.049202	0.0	0.0
Atrx	0.497857	2.70E-84	132.85	EES(0.498)S(0.498)DNEHS(0.004)\	5	-0.45344	0.0	0.0
Atrx	0.497857	2.70E-84	132.85	EES(0.498)S(0.498)DNEHS(0.004)\	5	-0.45344	0.0	0.0
Atrx	0.418069	2.69E-31	75.529	IKPVTENLVLP(0.418)HT(0.418)GF	4	0.28555	0.0	0.0
Atrx	0.328878	5.96E-16	128.45	KNS(0.329)T(0.329)S(0.329)GS(0.0	3	0.42681	0.0	0.0
Atrx	0.328878	5.96E-16	128.45	KNS(0.329)T(0.329)S(0.329)GS(0.0	3	0.42681	0.0	0.0
Atrx	0.483349	3.62E-12	62.617	S(0.004)GS(0.017)S(0.081)S(0.414	4	1.1931	0.0	0.0
Phactr2	0.420109	4.59E-05	46.318	AS(0.11)S(0.42)S(0.42)PS(0.043)A:	3	0.39176	0.0	0.0
Atp1a3	0.496242	4.18E-16	60.288	NLEAVET(0.002)LGS(0.006)T(0.001	4	1.0953	0.0	0.0
Cic	0.440097	2.13E-29	79.383	AQS(0.001)VS(0.022)PVQAT(0.097	3	-2.1406	0.0	0.0
Cic	0.440097	2.13E-29	79.383	AQS(0.001)VS(0.022)PVQAT(0.097	3	-2.1406	0.0	0.0
Cic	0.43289	0.0108347	42.802	KKS(0.433)S(0.433)S(0.134)EAK	4	-0.12508	0.0	0.0
Vasp	0.405912	1.10E-15	57.113	MKS(0.406)S(0.186)S(0.186)S(0.11	4	-0.3618	0.0	0.0
Ppp1r12c	0.498828	7.22E-05	55.546	RS(0.499)T(0.499)QGV(0.002)LTI	3	1.4082	0.0	0.0
Ppp1r12c	0.470228	0.000943454	58.743	S(0.021)AS(0.47)S(0.47)S(0.038)VI	3	0.092972	0.0	0.0
Akt2	0.491738	3.44E-06	45.992	CGS(0.492)PS(0.492)DS(0.015)STS	3	-1.0324	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	438
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	104
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	687
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	688
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	689
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	554
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	42
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	43
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1643
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	485
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1598
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1599
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2768
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2770
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	425
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	363
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	364
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	622
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	623
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	767
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	769
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1136
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	171
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	365;375;373
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1814
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1817
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	319
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	560
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	455
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	126

Akt2	0.491738	3.44E-06	45.992	CGS(0.492)PS(0.492)DS(0.015)STS	3	-1.0324	0.0	0.0
Otud7a	0.434333	4.66E-15	95.073	GIS(0.131)HAS(0.434)S(0.434)AIV!	2	0.20786	0.0	0.0
Otud7a	0.434333	4.66E-15	95.073	GIS(0.131)HAS(0.434)S(0.434)AIV!	2	0.20786	0.0	0.0
Fchsd2	0.444554	1.29E-11	59.011	S(0.382)PS(0.445)ANENCLHAES(0.	3	-0.54822	0.0	0.0
Ahnak	0.403664	2.03E-07	45.941	FS(0.268)AS(0.328)GS(0.404)KGE(C	4	2.0762	0.0	0.0
Ahnak	0.242555	1.82E-12	47.383	GGIQVPGVDVS(0.243)S(0.243)S(0	4	0.23319	0.0	0.0
Ahnak	0.291791	3.16E-18	59.038	GGIQVPGVDVS(0.116)S(0.292)S(0	4	0.53841	0.0	0.0
Ahnak	0.291791	3.16E-18	59.038	GGIQVPGVDVS(0.116)S(0.292)S(0	4	0.53841	0.0	0.0
Ahnak	0.291791	3.16E-18	59.038	GGIQVPGVDVS(0.116)S(0.292)S(0	4	0.53841	0.0	0.0
Ahnak	0.460419	8.98E-13	68.41	LDIET(0.079)S(0.46)DVS(0.46)FEG	4	-0.19908	0.0	0.0
Ahnak	0.479419	2.48E-08	91.307	LS(0.016)S(0.479)S(0.479)S(0.022)	3	0.79171	0.0	0.0
Ahnak	0.491613	0.000791358	53.237	MPFLS(0.017)IS(0.492)S(0.492)PK	3	-1.0764	0.0	0.0
Ahnak	0.385186	5.72E-06	40.849	S(0.385)S(0.385)KAS(0.333)LGS(0.	3	0.96612	0.0	0.0
Ahnak	0.385198	5.72E-06	40.849	S(0.385)S(0.385)KAS(0.333)LGS(0.	3	0.96612	0.0	0.0
Ahnak	0.352938	7.54E-05	40.137	T(0.353)PS(0.353)FS(0.1)VS(0.081	3	1.2144	0.0	0.0
Trpc3	0.420901	1.05E-07	59.163	APPS(0.012)PGPDAS(0.128)S(0.42	2	-0.12095	0.0	0.0
Trpc3	0.482228	5.15E-14	69.256	APPS(0.013)PGPDAS(0.008)S(0.03	3	0.43638	0.0	0.0
Gatad2b	0.333333	0.0118801	47.894	S(0.333)S(0.333)S(0.333)RMEER	3	0.18114	0.0	0.0
Gatad2b	0.333333	0.0118801	47.894	S(0.333)S(0.333)S(0.333)RMEER	3	0.18114	0.0	0.0
Gatad2b	0.458623	1.43E-06	42.791	VS(0.459)S(0.414)PLPS(0.046)PS(C	3	0.26951	0.0	0.0
Gatad2b	0.332819	8.18E-16	62.739	VSS(0.001)PLPS(0.333)PS(0.333)A	3	-0.78162	0.0	0.0
Gatad2b	0.332819	8.18E-16	62.739	VSS(0.001)PLPS(0.333)PS(0.333)A	3	-0.78162	0.0	0.0
Trim46	0.326624	2.22E-17	58.95	EVLGQQGYIGHGGDPS(0.001)S(0.C	4	-0.34464	0.0	0.0
Dennd4b	0.368466	0.0172464	59.013	S(0.368)GS(0.368)LGS(0.263)AR	2	0.84138	0.0	0.0
Dennd4b	0.368466	0.0172464	59.013	S(0.368)GS(0.368)LGS(0.263)AR	2	0.84138	0.0	0.0
Ank2	0.383251	1.69E-40	122.19	KAS(0.383)S(0.383)S(0.081)S(0.12	4	-1.2975	0.0	0.0
Ank2	0.383251	1.69E-40	122.19	KAS(0.383)S(0.383)S(0.081)S(0.12	4	-1.2975	0.0	0.0
Ank2	0.389016	3.33E-24	93.776	KAS(0.13)S(0.089)S(0.389)S(0.389	4	0.80897	0.0	0.0
Ank2	0.499538	1.12E-06	49.266	KT(0.5)S(0.5)LVIVESTDDQPQVFEK	4	2.7755	0.0	0.0
Ank2	0.479836	7.60E-06	40.489	QMGS(0.001)T(0.003)EGES(0.015)	3	-0.64043	0.0	0.0
Ank2	0.487854	4.69E-48	116.06	SVYSDRDES(0.415)PDS(0.488)S(C	3	1.5752	0.0	0.0
Osbpl6	0.410139	1.43E-15	53.998	DASFHIFPAT(0.025)S(0.081)T(0.02	4	2.7152	0.0	0.0
Osbpl6	0.410139	1.43E-15	53.998	DASFHIFPAT(0.025)S(0.081)T(0.02	4	2.7152	0.0	0.0
Hm13	0.320388	1.42E-15	62.203	LTHFPT(0.009)VS(0.173)GS(0.248)	4	0.23059	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	128
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	123
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	707
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	446
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	283
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	284
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	285
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1155
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	5546
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2811
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	5433
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	5434
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4881
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	62
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	65
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	139
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	332
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	62
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	924
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	926
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2651
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2652
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2653
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3818
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2647
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3261
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	207
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	375

Eya2	0.499196	1.00E-12	70.837	RS(0.499)S(0.499)DPS(0.002)PAGI	3	-0.12242	0.0	0.0
Eya2	0.499196	1.00E-12	70.837	RS(0.499)S(0.499)DPS(0.002)PAGI	3	-0.12242	0.0	0.0
Bcas1	0.316288	6.87E-12	60.814	S(0.316)S(0.316)KGS(0.091)S(0.27	3	1.0074	0.0	0.0
Bcas1	0.316288	6.87E-12	60.814	S(0.316)S(0.316)KGS(0.091)S(0.27	3	1.0074	0.0	0.0
Cdk14	0.324193	0.00152805	43.297	HS(0.083)S(0.324)PS(0.324)S(0.26	3	0.59727	0.0	0.0
Cdk14	0.458535	9.23E-05	78.401	HS(0.004)S(0.144)PS(0.739)S(0.19	2	0.45903	0.0	0.0
lqsec1	0.483233	1.40E-12	73.688	S(0.002)ALS(0.112)S(0.483)S(0.40	3	-1.0067	0.0	0.0
Raf1	0.382551	1.41E-15	57.692	SHSESAS(0.004)PS(0.034)ALS(0.38	4	1.0883	0.0	0.0
Raf1	0.382492	1.53E-59	99.13	SHSESAS(0.004)PS(0.034)ALS(0.38	4	1.0883	0.0	0.0
Raf1	0.382469	1.53E-59	99.13	SHSESAS(0.004)PS(0.034)ALS(0.38	4	1.0883	0.0	0.0
Raf1	0.382459	1.41E-15	57.692	SHSESAS(0.004)PS(0.034)ALS(0.38	4	1.0883	0.0	0.0
Raf1	0.316121	5.28E-60	144.5	S(0.316)T(0.316)S(0.316)T(0.052)F	4	0.88255	0.0	0.0
Raf1	0.314725	2.51E-10	47.931	YSTPHAFT(0.013)FNT(0.315)S(0.3	4	0.2174	0.0	0.0
Raf1	0.314725	2.51E-10	47.931	YSTPHAFT(0.013)FNT(0.315)S(0.3	4	0.2174	0.0	0.0
Ppfibp1	0.398338	9.88E-06	48.244	S(0.041)QS(0.398)T(0.398)T(0.144	3	0.081886	0.0	0.0
Akap2	0.311093	8.25E-16	54.167	DHS(0.007)S(0.028)PFY(0.311)S(0.	5	-0.70022	0.0	0.0
Akap2	0.311093	8.25E-16	54.167	DHS(0.007)S(0.028)PFY(0.311)S(0.	5	-0.70022	0.0	0.0
Kcnab2	0.4984	0.011472	42.425	RS(0.498)S(0.498)LVIT(0.002)T(0.(	3	-0.59512	0.0	0.0
Asap2	0.228976	1.22E-49	82.403	GFGPSILQNET(0.001)Y(0.006)GAIL	4	-0.28719	0.0	0.0
Asap2	0.228976	1.22E-49	82.403	GFGPSILQNET(0.001)Y(0.006)GAIL	4	-0.28719	0.0	0.0
Asap2	0.228976	1.22E-49	82.403	GFGPSILQNET(0.001)Y(0.006)GAIL	4	-0.28719	0.0	0.0
Asap2	0.228976	1.22E-49	82.403	GFGPSILQNET(0.001)Y(0.006)GAIL	4	-0.28719	0.0	0.0
Asap2	0.173684	4.26E-19	52.858	GFGPSILQNET(0.06)Y(0.055)GAILS	5	-0.27406	0.0	0.0
Zc3h14	0.306007	3.43E-15	54.66	S(0.001)VT(0.006)T(0.02)EPS(0.30	5	-0.36983	0.0	0.0
Zc3h14	0.306007	3.43E-15	54.66	S(0.001)VT(0.006)T(0.02)EPS(0.30	5	-0.36983	0.0	0.0
Ttc7b	0.385792	1.57E-19	63.625	LPVS(0.091)S(0.386)S(0.341)T(0.0	4	-0.20604	0.0	0.0
Ttc7b	0.482083	9.11E-14	68.41	VEQALSEVAS(0.482)S(0.482)LQS(C	3	-0.6901	0.0	0.0
Ttc7b	0.482083	9.11E-14	68.41	VEQALSEVAS(0.482)S(0.482)LQS(C	3	-0.6901	0.0	0.0
Ahnak2	0.333191	1.47E-17	54.003	VEGEVVLPS(0.333)VQGDLKT(0.33	7	0.77749	0.0	0.0
Tmpo	0.441755	1.22E-05	52.522	S(0.325)S(0.14)T(0.535)PLPT(0.04	3	-0.037789	0.0	0.0
Tmpo	0.442048	1.87E-05	48.623	QNGS(0.002)NDS(0.181)DRY(0.37	3	0.3387	0.0	0.0
Rgl3	0.496565	1.65E-08	47.155	S(0.006)QDPPPGS(0.497)PPAS(0.4	3	-0.27405	0.0	0.0
Rgl3	0.496565	1.65E-08	47.155	S(0.006)QDPPPGS(0.497)PPAS(0.4	3	-0.27405	0.0	0.0
Sik3	0.452525	0.000515668	43.476	T(0.106)WCGS(0.453)PPY(0.442)A	2	0.97174	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	249
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	250
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	385
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	126
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	922
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	294
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	295
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	296
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	301
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	257
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	244
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	581
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	74
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	111;141
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	720
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	722
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	725
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	726
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	728
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	81
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	82
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	635
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	636
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1195
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	167;167
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	619
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	623
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	225

Clasp2	0.45135	0.00334352	49.742	LS(0.005)S(0.092)S(0.451)VS(0.45	2	-0.29975	0.0	0.0
Clasp2	0.420298	2.01E-09	82.942	S(0.215)S(0.215)GS(0.42)VAS(0.14	2	-0.63951	0.0	0.0
Setd2	0.488967	1.11E-05	78.744	SGS(0.003)HFS(0.489)S(0.489)PS(	2	-0.43619	0.0	0.0
Setd2	0.488967	1.11E-05	78.744	SGS(0.003)HFS(0.489)S(0.489)PS(	2	-0.43619	0.0	0.0
MIh1	0.394884	1.13E-25	75.044	ESVIGASEVAPPAAPPS(0.395)S(0.3	3	-0.28692	0.0	0.0
MIh1	0.394884	1.13E-25	75.044	ESVIGASEVAPPAAPPS(0.395)S(0.3	3	-0.28692	0.0	0.0
Scn10a	0.26285	5.51E-38	80.02	EQEVLAALGIDT(0.263)T(0.263)S(0	3	0.97731	0.0	0.0
Scn10a	0.269044	1.49E-15	51.473	EQEVLAALGIDT(0.215)T(0.215)S(0	4	1.2474	0.0	0.0
Scn10a	0.476732	8.07E-07	44.164	S(0.477)RVS(0.477)EGS(0.02)T(0.C	4	-0.57392	0.0	0.0
Scn11a	0.324214	8.48E-20	70.316	S(0.324)S(0.324)S(0.277)S(0.074)F	3	1.6758	0.0	0.0
Scn11a	0.324214	8.48E-20	70.316	S(0.324)S(0.324)S(0.277)S(0.074)F	3	1.6758	0.0	0.0
Tgibr2	0.463824	8.54E-18	71.148	S(0.101)CS(0.464)QEKIPEDGS(0.43	4	-0.039368	0.0	0.0
Zfp318	0.492226	4.39E-09	61.477	ES(0.492)S(0.418)S(0.09)DLLPPD'	3	0.44805	0.0	0.0
Zfp318	0.336602	3.61E-08	56.081	S(0.005)YIKS(0.069)PS(0.337)S(0.3	4	0.79253	0.0	0.0
Zfp318	0.438598	1.29E-21	81.016	SYIKS(0.018)PS(0.104)S(0.439)T(0	3	1.2367	0.0	0.0
Rims1	0.220169	1.18E-33	97.352	IPESSHPPLES(0.046)S(0.22)S(0.22)	3	-0.060013	0.0	0.0
Rims1	0.220169	1.18E-33	97.352	IPESSHPPLES(0.046)S(0.22)S(0.22)	3	-0.060013	0.0	0.0
Rims1	0.220169	1.18E-33	97.352	IPESSHPPLES(0.046)S(0.22)S(0.22)	3	-0.060013	0.0	0.0
Rims1	0.220169	1.18E-33	97.352	IPESSHPPLES(0.046)S(0.22)S(0.22)	3	-0.060013	0.0	0.0
Rims1	0.397368	5.89E-10	56.681	LQT(0.003)HDES(0.397)S(0.397)LF	3	-0.18511	0.0	0.0
Rims1	0.397368	5.89E-10	56.681	LQT(0.003)HDES(0.397)S(0.397)LF	3	-0.18511	0.0	0.0
Rims1	0.328448	2.95E-07	44.31	QPS(0.227)RES(0.328)T(0.328)DG'	4	-1.2928	0.0	0.0
Rims1	0.374732	2.97E-59	98.002	QPS(0.208)RES(0.208)T(0.208)DG'	3	-1.6445	0.0	0.0
Map4k4	0.495872	0.000245111	64.104	T(0.008)NHS(0.496)S(0.496)PEAQ	2	1.159	0.0	0.0
Map4k4	0.327499	1.89E-11	68.044	LTANET(0.002)QS(0.016)AS(0.327	3	-0.17641	0.0	0.0
Map4k4	0.327499	1.89E-11	68.044	LTANET(0.002)QS(0.016)AS(0.327	3	-0.17641	0.0	0.0
Map4k4	0.425351	0.00748712	56.328	NS(0.413)T(0.019)S(0.142)S(0.425	2	-0.0081684	0.0	0.0
Map4k4	0.430991	0.00566472	52.5	T(0.322)T(0.391)S(0.431)RS(0.855	3	-0.14774	0.0	0.0
Map2	0.429175	2.12E-33	79.935	SGTSTPT(0.002)T(0.027)PGS(0.42'	3	-0.31134	0.0	0.0
Map2	0.14744	3.00E-39	74.57	ASQPS(0.004)PPAHEAGY(0.129)S(	4	1.0099	0.0	0.0
Map2	0.14744	3.00E-39	74.57	ASQPS(0.004)PPAHEAGY(0.129)S(	4	1.0099	0.0	0.0
Map2	0.14744	3.00E-39	74.57	ASQPS(0.004)PPAHEAGY(0.129)S(	4	1.0099	0.0	0.0
Map2	0.4992	5.57E-09	59.339	ECGAAKS(0.499)S(0.499)DNPQGL'	3	3.546	0.0	0.0
Map2	0.491725	1.50E-05	52.185	ET(0.474)S(0.543)PET(0.492)S(0.4	3	0.6714	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	596;806
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313;546
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1309
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	346
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	440
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	443
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	463
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1740
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1741
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	553
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1056
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1057
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	724
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	725
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	726
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	727
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	887
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	888
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1415
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	518;549;549
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	928;958
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	929;959
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	675;706
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	645;676;676
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1685;1599
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	719;633
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	724;638
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	727;641
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1248;1162



Map2	0.360581	2.51E-08	45.137	FEVDQQLT(0.103)LS(0.361)S(0.36	4	-0.030955	0.0	0.0
Map2	0.360581	2.51E-08	45.137	FEVDQQLT(0.103)LS(0.361)S(0.36	4	-0.030955	0.0	0.0
Map2	0.261444	4.85E-144	143.92	GHDLSPLASDILTNT(0.261)S(0.261)	4	0.9242	0.0	0.0
Map2	0.261444	4.85E-144	143.92	GHDLSPLASDILTNT(0.261)S(0.261)	4	0.9242	0.0	0.0
Map2	0.49608	2.29E-10	48.51	QFDSPMPS(0.002)PFHGG(0.496)	4	1.2451	0.0	0.0
Map2	0.498159	0.00109825	49.621	S(0.498)S(0.498)LPRPS(0.002)S(0.4	2	1.0422	0.0	0.0
Map2	0.446891	9.40E-12	43.501	VTEGS(0.001)QPFAPVFFQS(0.447)	4	0.39798	0.0	0.0
Map2	0.446891	9.40E-12	43.501	VTEGS(0.001)QPFAPVFFQS(0.447)	4	0.39798	0.0	0.0
Map2	0.249981	4.20E-20	73.138	VTGGQTTQVET(0.25)S(0.25)S(0.25)	3	0.81135	0.0	0.0
Map2	0.378488	4.20E-20	73.138	VTGGQTTQVET(0.259)S(0.259)S(0.259)	3	1.8168	0.0	0.0
Map2	0.249981	4.20E-20	73.138	VTGGQTTQVET(0.25)S(0.25)S(0.25)	3	0.81135	0.0	0.0
Map2	0.323192	2.55E-23	66.36	YTVPLPS(0.323)PVQDS(0.323)ENL	3	1.992	0.0	0.0
Map2	0.198893	1.75E-08	45.489	Y(0.001)T(0.002)VPLPS(0.199)PVC	5	0.63599	0.0	0.0
Epb4113	0.434161	2.63E-07	57.366	S(0.434)S(0.434)KT(0.132)QQVPEI	3	0.73487	0.0	0.0
Epb4113	0.434161	2.63E-07	57.366	S(0.434)S(0.434)KT(0.132)QQVPEI	3	0.73487	0.0	0.0
Dlgap1	0.277569	9.79E-08	42.885	TTTKPFISIT(0.002)AQS(0.278)S(0.278)	4	1.9201	0.0	0.0
Dlgap1	0.277569	9.79E-08	42.885	TTTKPFISIT(0.002)AQS(0.278)S(0.278)	4	1.9201	0.0	0.0
Chd3	0.423363	1.32E-10	61.524	EIQGDGPPS(0.423)S(0.423)PT(0.132)	2	1.0913	0.0	0.0
Sept4	0.428473	4.06E-10	49.525	LDPY(0.011)DS(0.387)S(0.428)EDL	3	-0.042059	0.0	0.0
LOC10369	0.333318	1.50E-43	92.098	APSQEPAPS(0.333)GES(0.333)GS(0.333)	5	0.48714	0.0	0.0
LOC10369	0.470562	1.50E-43	92.098	APSQEPAPS(0.051)GES(0.471)GS(0.471)	3	-0.26647	0.0	0.0
Mapt	0.261118	1.71E-74	93.34	ESPPQPPADDGS(0.261)EEP(0.261)PGS(0.132)	4	-0.35939	0.0	0.0
Mapt	0.234271	6.88E-24	57.155	ES(0.001)PPQPPADDGS(0.234)EEF	5	-0.047592	0.0	0.0
Mapt	0.461175	3.75E-28	106.75	S(0.461)T(0.461)PT(0.078)AEDVT/	3	-0.36084	0.0	0.0
Mapt	0.317694	6.61E-43	80.184	HLS(0.007)NVS(0.104)S(0.318)T(0.318)	4	-0.54577	0.0	0.0
Mapt	0.312733	2.15E-35	64.685	LGSEEEVDEEDIT(0.025)MDES(0.312)	4	-1.8143	0.0	0.0
Mapt	0.312733	2.15E-35	64.685	LGSEEEVDEEDIT(0.025)MDES(0.312)	4	-1.8143	0.0	0.0
Mapt	0.312733	2.15E-35	64.685	LGSEEEVDEEDIT(0.025)MDES(0.312)	4	-1.8143	0.0	0.0
Mapt	0.48114	0.000224764	53.21	S(0.481)RT(0.474)PS(0.047)LPT(0.474)	2	0.71309	0.0	0.0
Mapt	0.343535	2.32E-26	63.913	VSAET(0.008)QAS(0.304)PPEGPGT	4	0.27593	0.0	0.0
Tanc2	0.305533	1.94E-13	64.275	DS(0.001)AY(0.071)IS(0.306)S(0.306)	4	-0.032232	0.0	0.0
Tanc2	0.305533	1.94E-13	64.275	DS(0.001)AY(0.071)IS(0.306)S(0.306)	4	-0.032232	0.0	0.0
Tanc2	0.471573	6.85E-72	107.3	ELPLTQAPS(0.002)AHS(0.472)S(0.472)	3	0.41578	0.0	0.0
Tanc2	0.471573	6.85E-72	107.3	ELPLTQAPS(0.002)AHS(0.472)S(0.472)	3	0.41578	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1170;1084
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1171;1085
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	821
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	823
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	403
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1628;1542
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	430;344
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	435;349
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	871;785
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	872;786
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	874;788
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	975;889
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	980;894
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1066
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1067
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	577
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	578
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	821
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	448
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	274
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	45;45
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	53;53
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	57;57
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	627;742
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	217;217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	218;218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	221;221
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	455;539
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	288;288
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1532
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1533
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	498
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	499

Tanc2	0.466468	3.44E-16	60.472	ELPLTQAPSAHS(0.01)S(0.032)IAS(i	4	-0.27898	0.0	0.0
Taf6	0.299526	5.69E-25	69.248	GGPPSHPSVPVPPS(0.019)S(0.073)S	4	0.32545	0.0	0.0
Taf6	0.299526	5.69E-25	69.248	GGPPSHPSVPVPPS(0.019)S(0.073)S	4	0.32545	0.0	0.0
Taf6	0.299526	5.69E-25	69.248	GGPPSHPSVPVPPS(0.019)S(0.073)S	4	0.32545	0.0	0.0
Ppp1r12b	0.346928	3.05E-09	59.359	NRKS(0.921)QS(0.347)DS(0.359)P	4	-0.0896	0.0	0.0
Ppp1r12b	0.356638	3.05E-09	59.359	NRKS(0.921)QS(0.347)DS(0.359)P	4	-0.0896	0.0	0.0
Rufy3	0.425005	3.26E-48	91.1	T(0.425)PPS(0.425)PGS(0.15)PLPF	5	-1.9052	0.0	0.0
Limch1	0.230807	5.95E-07	42.863	SQFFS(0.001)QS(0.024)ADS(0.231	4	-0.069049	0.0	0.0
Limch1	0.230807	5.95E-07	42.863	SQFFS(0.001)QS(0.024)ADS(0.231	4	-0.069049	0.0	0.0
Limch1	0.230807	5.95E-07	42.863	SQFFS(0.001)QS(0.024)ADS(0.231	4	-0.069049	0.0	0.0
Limch1	0.230807	5.95E-07	42.863	SQFFS(0.001)QS(0.024)ADS(0.231	4	-0.069049	0.0	0.0
Ablim2	0.340733	1.32E-20	78.272	T(0.085)S(0.1)S(0.341)ES(0.46)IVS	2	-0.61413	0.0	0.0
Sptbn1	0.361097	1.91E-27	79.69	AQTLPTS SVTIT(0.017)S(0.361)ES(i	4	0.33159	0.0	0.0
Sptbn1	0.36203	1.89E-06	61.165	ES(0.036)S(0.949)PVPS(0.36)PT(0.	2	1.4949	0.0	0.0
Sptbn1	0.418404	5.49E-13	68.676	T(0.418)S(0.418)S(0.132)KES(0.02	5	1.0935	0.0	0.0
Camk2g	0.453577	1.19E-26	114.33	S(0.071)S(0.021)S(0.454)S(0.454)\	3	0.9156	0.0	0.0
Zswim8	0.318593	1.06E-53	97.295	HTGMASIDS(0.009)S(0.028)APET(i	3	-0.55266	0.0	0.0
Kif13b	0.451066	1.96E-24	62.57	GIASGPPALS(0.014)VS(0.451)PQN	4	-1.3011	0.0	0.0
Kif13b	0.451066	1.96E-24	62.57	GIASGPPALS(0.014)VS(0.451)PQN	4	-1.3011	0.0	0.0
Kif13b	0.497596	3.02E-10	60.133	IAGGDDPT(0.005)EVS(0.498)S(0.4	3	0.38233	0.0	0.0
Kif13b	0.497596	3.02E-10	60.133	IAGGDDPT(0.005)EVS(0.498)S(0.4	3	0.38233	0.0	0.0
Kif13b	0.346362	9.83E-09	49.266	RS(0.346)AT(0.346)IS(0.133)GS(0.	4	0.78	0.0	0.0
Parp4	0.230378	1.75E-14	49.087	VSEDFEGT(0.002)PAMAQS(0.23)P	5	-1.0298	0.0	0.0
Parp4	0.230378	1.75E-14	49.087	VSEDFEGT(0.002)PAMAQS(0.23)P	5	-1.0298	0.0	0.0
Eps15l1	0.395099	1.90E-06	53.453	ES(0.001)DPFHS(0.105)S(0.395)T(i	4	0.63058	0.0	0.0
Eps15l1	0.18523	8.09E-13	43.088	GIDPPQVLS(0.069)PDMVPPS(0.18	4	-0.50885	0.0	0.0
Eps15l1	0.18523	8.09E-13	43.088	GIDPPQVLS(0.069)PDMVPPS(0.18	4	-0.50885	0.0	0.0
Eps15l1	0.18523	8.09E-13	43.088	GIDPPQVLS(0.069)PDMVPPS(0.18	4	-0.50885	0.0	0.0
Eps15l1	0.18523	8.09E-13	43.088	GIDPPQVLS(0.069)PDMVPPS(0.18	4	-0.50885	0.0	0.0
Eps15l1	0.326938	3.31E-09	59.339	LDPFESS(0.002)DPFES(0.156)S(0.24	3	0.84718	0.0	0.0
Eps15l1	0.463913	3.12E-27	73.676	S(0.03)T(0.03)PS(0.464)HGS(0.464	4	-0.45894	0.0	0.0
Eps15l1	0.274937	7.54E-33	92.264	STPSHGS(0.001)VS(0.036)S(0.275)	3	0.34901	0.0	0.0
Eps15l1	0.405544	1.55E-33	95.197	S(0.023)T(0.024)PS(0.455)HGS(0.4	3	-1.0176	0.0	0.0
Slc20a2	0.496393	1.39E-06	44.164	NNS(0.496)Y(0.004)T(0.496)CY(0.0	3	-0.58007	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	502
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	633
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	634
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	636
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	19
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	86
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	607
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	609
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	610
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	613
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	299
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2324
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2146
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	357
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1149
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1506
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1512
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	932
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	933
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1882
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1402
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1408
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	672
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	362
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	371
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	373
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	715
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	247
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	250
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	385

RGD15599	0.48161	2.43E-52	125.92	ARPSQLPEQS(0.482)S(0.482)S(0.0	3	0.15719	0.0	0.0
RGD15599	0.48161	2.43E-52	125.92	ARPSQLPEQS(0.482)S(0.482)S(0.0	3	0.15719	0.0	0.0
Svil	0.498203	1.92E-11	53.496	HIPS(0.001)S(0.002)PLQQPAS(0.4	4	1.8661	0.0	0.0
Svil	0.498203	1.92E-11	53.496	HIPS(0.001)S(0.002)PLQQPAS(0.4	4	1.8661	0.0	0.0
Svil	0.444908	0.000723489	45.873	VPAGDS(0.445)S(0.445)LDS(0.103	2	0.13014	0.0	0.0
Svil	0.444908	0.000723489	45.873	VPAGDS(0.445)S(0.445)LDS(0.103	2	0.13014	0.0	0.0
Tcof1	0.499545	6.44E-26	111.79	GTAASTTGAS(0.001)AS(0.5)S(0.5)I	2	-0.18041	0.0	0.0
Tcof1	0.332921	3.32E-16	58.812	SAEPLASIVLAS(0.333)ET(0.333)EEI	4	0.89853	0.0	0.0
Tcof1	0.332921	3.32E-16	58.812	SAEPLASIVLAS(0.333)ET(0.333)EEI	4	0.89853	0.0	0.0
LOC102551	0.499144	6.91E-25	61.082	EGGSACVT(0.002)AAPDS(0.499)PS	4	-0.77703	0.0	0.0
LOC102551	0.499144	6.91E-25	61.082	EGGSACVT(0.002)AAPDS(0.499)PS	4	-0.77703	0.0	0.0
Usp10	0.441698	2.89E-15	56.854	APS(0.03)YS(0.395)IS(0.442)S(0.1	3	-0.08475	0.0	0.0
Itpr3	0.499148	3.66E-05	63.966	VS(0.499)S(0.499)FS(0.002)MPSS	3	0.12524	0.0	0.0
Itpr3	0.364787	1.66E-07	50.271	VS(0.186)S(0.74)FS(0.076)MPS(0.1	4	-0.80812	0.0	0.0
LOC100911	0.497036	2.38E-07	90.793	S(0.006)AS(0.497)S(0.497)DPQDQ	3	-0.63199	0.0	0.0
LOC100911	0.470707	0.00331886	64.654	S(0.471)FLS(0.354)Y(0.175)NK	2	1.1409	0.0	0.0
Cstf2	0.329764	1.22E-30	65.624	QVPVMQGAGMQGAS(0.33)MQGC	4	1.6985	0.0	0.0
Cstf2	0.329764	1.22E-30	65.624	QVPVMQGAGMQGAS(0.33)MQGC	4	1.6985	0.0	0.0
Cstf2	0.329764	1.22E-30	65.624	QVPVMQGAGMQGAS(0.33)MQGC	4	1.6985	0.0	0.0
Cstf2	0.343112	1.22E-38	77.241	SLGTGAPVIES(0.021)PY(0.293)GES	4	-1.1107	0.0	0.0
Cstf2	0.343112	1.22E-38	77.241	SLGTGAPVIES(0.021)PY(0.293)GES	4	-1.1107	0.0	0.0
Ddx3	0.499419	0.000387365	44.391	GKPNYFS(0.001)DRGS(0.499)GS(0	3	0.38956	0.0	0.0
Ddx3	0.499419	0.000387365	44.391	GKPNYFS(0.001)DRGS(0.499)GS(0	3	0.38956	0.0	0.0
LOC103691	0.388886	9.29E-16	65.248	KPDNLT(0.022)AS(0.389)S(0.389)F	3	0.45848	0.0	0.0
LOC103691	0.388886	9.29E-16	65.248	KPDNLT(0.022)AS(0.389)S(0.389)F	3	0.45848	0.0	0.0
Ehd2	0.459056	0.0703586	49.96	T(0.047)VT(0.29)S(0.204)S(0.459)I	2	0.2546	0.0	0.0
Samd14	0.377319	0.0005634	41.542	GS(0.014)AS(0.011)S(0.038)GS(0.0	3	1.1374	0.0	0.0
Tbc1d22b	0.466473	2.28E-16	104.95	S(0.007)QS(0.466)T(0.466)T(0.054	3	0.28695	0.0	0.0
Tbc1d22b	0.381924	3.86E-10	90.725	S(0.001)QS(0.047)T(0.35)T(0.219)	2	0.10268	0.0	0.0
Taf9	0.444588	0.00198971	64.688	LS(0.212)VGS(0.445)VS(0.188)S(0.	2	-0.17421	0.0	0.0
Hexim1	0.249798	4.37E-35	76.937	GQNGEDLST(0.001)GGAS(0.25)PS	4	0.019826	0.0	0.0
Hexim1	0.249798	4.37E-35	76.937	GQNGEDLST(0.001)GGAS(0.25)PS	4	0.019826	0.0	0.0
Hexim1	0.249798	4.37E-35	76.937	GQNGEDLST(0.001)GGAS(0.25)PS	4	0.019826	0.0	0.0
Hexim1	0.249798	4.37E-35	76.937	GQNGEDLST(0.001)GGAS(0.25)PS	4	0.019826	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	141
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	142
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	240;240
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242;242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1037;669
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1038;670
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	567
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	168
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	175
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	529
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	531
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	79
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1831
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1838
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	553
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	194
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	560
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	565
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	571
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	118
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	96
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	98
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	323
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	324
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	24
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	256
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	116
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	152
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	112
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	114

Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Radil	0.499354	1.19E-41	112.53	GTPALTSET(0.001)AQS(0.499)S(0.	3	0.95231	0.0	0.0
Radil	0.499354	1.19E-41	112.53	GTPALTSET(0.001)AQS(0.499)S(0.	3	0.95231	0.0	0.0
Radil	0.294396	1.05E-22	62.02	T(0.07)VS(0.265)ET(0.077)S(0.294	3	0.21157	0.0	0.0
Nacad	0.331901	1.06E-57	90.559	EGVPELQDT(0.002)PVAS(0.332)S(i	4	-0.07827	0.0	0.0
Nacad	0.331901	1.06E-57	90.559	EGVPELQDT(0.002)PVAS(0.332)S(i	4	-0.07827	0.0	0.0
Nacad	0.194557	3.63E-11	42.301	EGVPELQDT(0.027)PVAS(0.195)S(i	5	-0.67994	0.0	0.0
Nacad	0.463719	6.86E-27	83.31	FKVPS(0.464)ES(0.216)S(0.32)ALV	3	0.66293	0.0	0.0
Nacad	0.483283	6.57E-33	77.576	VTLGT(0.001)LNLS(0.483)S(0.483)	3	-0.13168	0.0	0.0
Nacad	0.483283	6.57E-33	77.576	VTLGT(0.001)LNLS(0.483)S(0.483)	3	-0.13168	0.0	0.0
Nacad	0.331717	3.96E-10	46.273	VTLGT(0.003)LNLS(0.332)S(0.332)	3	0.81404	0.0	0.0
Nacad	0.497121	4.98E-09	44.564	VTPT(0.001)DAKDPACIIS(0.497)S(i	4	2.0373	0.0	0.0
Nacad	0.497121	4.98E-09	44.564	VTPT(0.001)DAKDPACIIS(0.497)S(i	4	2.0373	0.0	0.0
Mllt4	0.478662	9.58E-43	77.701	IT(0.01)S(0.032)VS(0.479)T(0.479)	4	-0.59227	0.0	0.0
Ahsg	0.480961	8.22E-09	55.011	VLHAQCHS(0.481)T(0.481)PDS(0.0	5	0.16408	0.0	0.0
Akr1b1	0.383546	1.52E-11	42.791	GIVVT(0.004)AY(0.104)S(0.384)PL	4	0.57716	0.0	0.0
Akr1b1	0.383546	1.52E-11	42.791	GIVVT(0.004)AY(0.104)S(0.384)PL	4	0.57716	0.0	0.0
Atp1a2	0.297467	1.19E-10	49.094	VDNSSLT(0.011)GES(0.096)EPQT((	4	0.29858	0.0	0.0
Emd	0.349313	7.02E-09	55.011	FSDLDS(0.006)AS(0.349)VDS(0.34	4	0.11898	0.0	0.0
Eif2ak1	0.345166	8.34E-71	100.95	S(0.345)S(0.345)S(0.293)ES(0.016	4	-0.28716	0.0	0.0
Eif2ak1	0.345166	8.34E-71	100.95	S(0.345)S(0.345)S(0.293)ES(0.016	4	-0.28716	0.0	0.0
Irs1	0.494148	5.07E-12	67.227	RS(0.494)S(0.494)EDLS(0.009)T(0.	3	0.82362	0.0	0.0
Irs1	0.494148	5.07E-12	67.227	RS(0.494)S(0.494)EDLS(0.009)T(0.	3	0.82362	0.0	0.0
Irs1	0.388818	0.000119358	46.892	T(0.001)HS(0.008)AGT(0.389)S(0.3	3	-2.963	0.0	0.0
ltgb4	0.498649	2.76E-33	74.058	LGQPNTAT(0.001)VIIGEQDET(0.49	4	0.88536	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	23
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	27
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	29
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	30
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	31
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	32
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	33
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	205
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	206
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	674
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	680
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	684
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1343
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1065
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1066
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1069
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	134
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	226
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1216
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	526
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1113

Itgb4	0.464603	1.00E-08	92.906	TDHS(0.071)QS(0.465)GT(0.465)LI	3	-0.18983	0.0	0.0
Itgb4	0.41048	2.05E-19	74.029	T(0.001)LT(0.003)T(0.016)S(0.086	3	-0.75614	0.0	0.0
Itgb4	0.498963	2.96E-42	114.75	VCAYGAGHGEGPYS(0.499)S(0.499)I	3	-0.73411	0.0	0.0
Itgb4	0.498963	2.96E-42	114.75	VCAYGAGHGEGPYS(0.499)S(0.499)I	3	-0.73411	0.0	0.0
Kcnb1	0.266422	1.83E-09	58.373	S(0.266)S(0.266)S(0.234)S(0.234)F	4	3.4532	0.0	0.0
Kcnb1	0.266422	1.83E-09	58.373	S(0.266)S(0.266)S(0.234)S(0.234)F	4	3.4532	0.0	0.0
Kcnb1	0.410123	9.38E-27	81.477	S(0.09)S(0.09)S(0.41)S(0.41)PQHL	3	-0.24668	0.0	0.0
Map2	0.186515	4.68E-11	40.064	GHDLS(0.001)PLAS(0.021)DILT(0.1	7	-1.5207	0.0	0.0
Nf1	0.496932	4.17E-34	99.957	GNS(0.497)S(0.497)MDS(0.005)T(I	3	-1.3747	0.0	0.0
Nf1	0.440591	0.000365438	41.988	S(0.441)MS(0.441)LDMGQPS(0.11	3	0.4531	0.0	0.0
Nfia	0.282418	2.30E-19	62.847	SGFS(0.003)S(0.018)PS(0.201)PS(C	4	-1.1412	0.0	0.0
Nfia	0.309371	1.06E-15	59.536	S(0.222)PGS(0.276)GS(0.309)QS(0	4	1.5691	0.0	0.0
Nfia	0.244228	1.06E-15	59.536	S(0.141)PGS(0.175)GS(0.195)QS(0	4	0.12403	0.0	0.0
Nfia	0.244228	1.06E-15	59.536	S(0.141)PGS(0.175)GS(0.195)QS(0	4	0.12403	0.0	0.0
Nfia	0.123855	1.65E-12	48.686	VSQTPIAAGT(0.006)GPNFS(0.124)	4	-0.29715	0.0	0.0
Nfia	0.123855	1.65E-12	48.686	VSQTPIAAGT(0.006)GPNFS(0.124)	4	-0.29715	0.0	0.0
Nfia	0.123855	1.65E-12	48.686	VSQTPIAAGT(0.006)GPNFS(0.124)	4	-0.29715	0.0	0.0
Nfia	0.123855	1.65E-12	48.686	VSQTPIAAGT(0.006)GPNFS(0.124)	4	-0.29715	0.0	0.0
Nfia	0.123855	1.65E-12	48.686	VSQTPIAAGT(0.006)GPNFS(0.124)	4	-0.29715	0.0	0.0
Npap60	0.487945	0.00106016	67.548	AAS(0.488)S(0.488)PFS(0.024)AK	2	-0.0057936	0.0	0.0
Npap60	0.487945	0.00106016	67.548	AAS(0.488)S(0.488)PFS(0.024)AK	2	-0.0057936	0.0	0.0
Stat3	0.365612	6.11E-10	55.437	FICVTPT(0.001)T(0.005)CS(0.366)I	3	-0.7235	0.0	0.0
Dnaja4	0.487364	5.22E-08	45.983	EGGS(0.041)GS(0.442)PS(0.487)FS	3	-0.49697	0.0	0.0
Palmd	0.498869	0.000833603	40.278	SEVS(0.002)PHENT(0.499)NHKS(0	3	0.62805	0.0	0.0
Cenpu	0.375589	0.000560375	43.897	HCVS(0.015)S(0.376)T(0.304)S(0.3	3	0.53661	0.0	0.0
Eml1	0.484377	2.38E-07	90.793	T(0.008)GS(0.484)T(0.484)S(0.021	3	0.18603	0.0	0.0
Nop56	0.375305	9.14E-101	133.84	LAALALAS(0.062)S(0.375)ENS(0.18	5	-1.5277	0.0	0.0
Nop56	0.452576	1.90E-101	137.64	LAALALASS(0.001)ENS(0.094)S(0.4	4	-1.6064	0.0	0.0
Cacna1h	0.338848	1.16E-06	42.468	GS(0.339)T(0.308)DDEAEDS(0.332	3	1.1256	0.0	0.0
Cacna1h	0.479402	8.83E-13	71.592	RS(0.479)S(0.479)S(0.031)GS(0.01	3	-0.10787	0.0	0.0
Cacna1h	0.479402	8.83E-13	71.592	RS(0.479)S(0.479)S(0.031)GS(0.01	3	-0.10787	0.0	0.0
Map2k4	0.488523	6.41E-05	99.283	T(0.377)HS(0.124)IES(0.489)S(0.0	2	0.62227	0.0	0.0
Dffa	0.499222	4.47E-14	68.41	EKPAPELS(0.002)LS(0.499)S(0.499	4	-0.7964	0.0	0.0
Dffa	0.499222	4.47E-14	68.41	EKPAPELS(0.002)LS(0.499)S(0.499	4	-0.7964	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1434
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1795
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	513
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	514
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	515
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	735
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	667
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2502
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	305
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	307
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	245
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	247
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	251
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	252
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	253
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	719
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	239
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	498
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	88
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	128
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	462
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	466
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1171
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1104
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	81
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	256
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	257

Ralgapa1	0.434476	0.000170032	46.92	S(0.434)QT(0.319)PS(0.525)PS(0.4	3	0.012054	0.0	0.0
Ralgapa1	0.477232	3.93E-08	56.339	S(0.001)QT(0.007)PS(0.037)PS(0.4	3	1.0123	0.0	0.0
Ralgapa1	0.4827	3.34E-08	57.142	TAEPEQS(0.448)HS(0.483)NT(0.04	3	1.3613	0.0	0.0
Slc6a17	0.462949	1.54E-19	71.376	SYLGPGS(0.074)T(0.463)S(0.463)P	3	0.2031	0.0	0.0
Hspb1	0.498133	1.24E-17	163.45	QLS(0.498)S(0.498)GVS(0.004)EIR	1	0.76163	0.0	0.0
Nat6	0.328945	2.07E-08	42.057	GPPLPPPPPLPLT(0.329)T(0.329)S(i	4	1.2965	0.0	0.0
Aimp1	0.448599	2.01E-36	108.08	KQQS(0.285)AAAS(0.26)ADS(0.44	4	0.11545	0.0	0.0
Akap12	0.359368	1.93E-48	117.48	EPTKS(0.001)PES(0.005)PS(0.069):	4	0.081352	0.0	0.0
Akap12	0.456529	3.97E-26	77.221	SPESPSPVSSET(0.004)T(0.082)S(C	3	-0.17027	0.0	0.0
Akap12	0.292755	1.12E-26	87.429	SATLS(0.01)S(0.056)T(0.056)DS(0.	4	0.75139	0.0	0.0
Akap12	0.333295	2.75E-23	68.445	VIETVVIS(0.333)ET(0.333)GES(0.3:	5	-0.86754	0.0	0.0
Cdc42bpb	0.41455	8.50E-12	59.912	HSTPSNS(0.003)S(0.016)NPS(0.15	3	0.84241	0.0	0.0
Cdc42bpb	0.466805	1.49E-08	47.806	LDLS(0.418)PS(0.467)VS(0.08)VAT	3	0.63511	0.0	0.0
Cdc42bpb	0.442739	0.000155389	46.89	T(0.443)S(0.443)S(0.11)AS(0.003)I	3	-0.28328	0.0	0.0
Ank3	0.471124	0.000612422	42.802	AAMAS(0.008)T(0.049)LS(0.471)Si	3	-0.70508	0.0	0.0
Ank3	0.339814	2.44E-17	58.122	SFADENNVFHDVPDVGWQNET(0.33	4	0.18441	0.0	0.0
Ank3	0.428911	0.040618	55.908	S(0.429)VVS(0.429)PT(0.142)K	2	-0.2566	0.0	0.0
Rab31	0.478629	1.23E-21	71.853	FVQDHFHDHNS(0.479)PT(0.479)IG	4	-0.1394	0.0	0.0
Snd1	0.435139	3.65E-23	63.625	DIQNTQCLLNVEHLS(0.435)AS(0.4	5	1.0009	0.0	0.0
Baiap2l1	0.495261	6.35E-05	75.739	S(0.008)IS(0.495)T(0.495)VDLT(0.(	3	0.87175	0.0	0.0
Nes	0.499698	7.38E-37	104.88	TQESGLDT(0.001)EET(0.5)QDS(0.5	3	-0.088558	0.0	0.0
Zeb1	0.439356	0.000135084	41.798	MT(0.12)S(0.439)S(0.439)PVLPG	3	-3.079	0.0	0.0
Zeb1	0.439356	0.000135084	41.798	MT(0.12)S(0.439)S(0.439)PVLPG	3	-3.079	0.0	0.0
Zeb1	0.432329	1.53E-15	59.048	TEEQPQPVDGNEPQEDS(0.135)T(0	4	0.72541	0.0	0.0
Zeb1	0.445292	2.48E-06	41.986	T(0.014)S(0.015)QCS(0.146)S(0.44	3	-0.57029	0.0	0.0
Zeb1	0.250191	1.56E-11	57.537	TSQCS(0.003)S(0.009)PS(0.074)LS	3	-0.00073429	0.0	0.0
Zeb1	0.250191	1.56E-11	57.537	TSQCS(0.003)S(0.009)PS(0.074)LS	3	-0.00073429	0.0	0.0
Zeb1	0.48732	2.48E-06	41.986	T(0.014)S(0.015)QCS(0.146)S(0.44	3	-0.57029	0.0	0.0
Slc5a3	0.494817	5.26E-09	61.276	TVVT(0.01)KES(0.495)CS(0.495)Q	4	1.6695	0.0	0.0
Etv6	0.424922	1.00E-25	69.439	IS(0.121)S(0.425)T(0.425)PPES(0.C	4	2.0081	0.0	0.0
Lama4	0.462537	8.65E-30	115.58	VFLTVPS(0.001)LS(0.463)S(0.463)	3	-0.77802	0.0	0.0
Cacnb1	0.286962	4.19E-13	61.538	LS(0.078)S(0.287)S(0.287)KS(0.28	3	-0.2789	0.0	0.0
Cacnb1	0.286962	4.19E-13	61.538	LS(0.078)S(0.287)S(0.287)KS(0.28	3	-0.2789	0.0	0.0
Cacnb1	0.473183	6.68E-12	64.249	S(0.025)DGS(0.473)T(0.473)S(0.02	3	0.039604	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	999
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1005
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	368
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	701
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	87
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	280
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	150
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	638
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1392
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1695
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	986
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	969
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1700
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2454
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1676
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	36
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	833
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	526
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	663
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	664
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	657
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	293
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	299
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	302
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	557
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	17
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	948
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	44

Cfl1	0.496203	0.000851732	81.625	KS(0.008)S(0.496)T(0.496)PEEVK	2	-0.34907	0.0	0.0
Gap43	0.440108	2.74E-07	46.063	AT(0.001)T(0.009)DNS(0.11)PS(0.4	4	0.40359	0.0	0.0
Gap43	0.440108	2.74E-07	45.844	AT(0.001)T(0.009)DNS(0.11)PS(0.4	4	0.40359	0.0	0.0
Htr2a	0.47345	4.20E-08	58.885	LASFS(0.001)FLPQS(0.473)S(0.473	3	-0.94749	0.0	0.0
Htr2a	0.47345	4.20E-08	58.885	LASFS(0.001)FLPQS(0.473)S(0.473	3	-0.94749	0.0	0.0
Htr2a	0.34452	0.000262446	41.513	LASFS(0.001)FLPQS(0.193)S(0.193	3	1.8194	0.0	0.0
Nefm	0.37173	1.91E-07	49.266	HNHDLS(0.372)S(0.32)Y(0.281)QD	3	0.89245	0.0	0.0
Nefm	0.13526	1.36E-12	54.003	LAYSS(0.001)AMLS(0.135)S(0.122)	5	-1.5893	0.0	0.0
Nefm	0.14126	4.31E-18	59.536	LAYSSAMLS(0.01)S(0.141)AES(0.1	4	1.8161	0.0	0.0
Nefm	0.14126	4.31E-18	59.536	LAYSSAMLS(0.01)S(0.141)AES(0.1	4	1.8161	0.0	0.0
Nefm	0.14126	4.31E-18	59.536	LAYSSAMLS(0.01)S(0.141)AES(0.1	4	1.8161	0.0	0.0
Nefm	0.14126	4.31E-18	59.536	LAYSSAMLS(0.01)S(0.141)AES(0.1	4	1.8161	0.0	0.0
Nefm	0.14126	4.31E-18	59.536	LAYSSAMLS(0.01)S(0.141)AES(0.1	4	1.8161	0.0	0.0
Nefm	0.14126	4.31E-18	59.536	LAYSSAMLS(0.01)S(0.141)AES(0.1	4	1.8161	0.0	0.0
Nefm	0.14126	4.31E-18	59.536	LAYSSAMLS(0.01)S(0.141)AES(0.1	4	1.8161	0.0	0.0
Nefm	0.14126	4.31E-18	59.536	LAYSSAMLS(0.01)S(0.141)AES(0.1	4	1.8161	0.0	0.0
Pebp1	0.487088	3.32E-53	97.295	VLTPQVMNRPS(0.487)S(0.487)IS	3	0.28178	0.0	0.0
Pebp1	0.487088	3.32E-53	97.295	VLTPQVMNRPS(0.487)S(0.487)IS	3	0.28178	0.0	0.0
Rps3a	0.437359	8.76E-12	59.339	LMELHGEGGS(0.437)S(0.437)GKT	4	-2.1477	0.0	0.0
Slc25a1	0.490728	0.00111516	48.981	FIHDQT(0.491)S(0.491)S(0.019)NF	3	-1.177	0.0	0.0
Stat5a	0.499816	1.76E-06	47.058	EANNCS(0.5)S(0.5)PAGVLVDAMSC	3	-0.43292	0.0	0.0
Stat5a	0.499816	1.76E-06	47.058	EANNCS(0.5)S(0.5)PAGVLVDAMSC	3	-0.43292	0.0	0.0
Nr2c2	0.47462	7.19E-17	58.565	ALNT(0.001)T(0.003)DS(0.042)AS(	4	-0.04659	0.0	0.0
Nr2c2	0.47462	7.19E-17	58.565	ALNT(0.001)T(0.003)DS(0.042)AS(	4	-0.04659	0.0	0.0
Pde3a	0.268474	0.00101182	40.602	S(0.191)FT(0.268)S(0.268)S(0.268	3	1.7438	0.0	0.0
Pde3a	0.268474	0.00101182	40.602	S(0.191)FT(0.268)S(0.268)S(0.268	3	1.7438	0.0	0.0
Zdhhc5	0.418925	1.06E-21	69.747	S(0.001)EPS(0.127)LEPES(0.419)FF	4	1.2335	0.0	0.0
Zdhhc5	0.410578	1.46E-10	50.224	S(0.375)KGS(0.411)LEIT(0.204)ES(	5	1.0992	0.0	0.0
Zdhhc5	0.426466	0.0049018	63.184	S(0.001)MS(0.361)Y(0.003)S(0.208	2	0.16568	0.0	0.0
Sema4f	0.142004	4.32E-15	49.43	DKVGLDLGAPPS(0.142)GT(0.142)T	6	0.23001	0.0	0.0
Sema4f	0.142004	4.32E-15	49.43	DKVGLDLGAPPS(0.142)GT(0.142)T	6	0.23001	0.0	0.0
Sema4f	0.142004	4.32E-15	49.43	DKVGLDLGAPPS(0.142)GT(0.142)T	6	0.23001	0.0	0.0
Sema4f	0.484473	4.32E-15	49.43	DKVGLDLGAPPS(0.021)GT(0.061)T	5	0.19647	0.0	0.0
Srcin1	0.292214	1.65E-14	49.293	LNNLS(0.001)PAS(0.006)HLAS(0.2	4	-0.99071	0.0	0.0
Srcin1	0.292214	1.65E-14	49.293	LNNLS(0.001)PAS(0.006)HLAS(0.2	4	-0.99071	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	24
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	144
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	145
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	287
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	288
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	291
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	355
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	69
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	73
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	74
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	78
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	80
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	81
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	82
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	52
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	238
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	127
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	128
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	327
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	330
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	496
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	406
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	299
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	639
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	713
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	717
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	719
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	724
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	341



Srcin1	0.292214	1.65E-14	49.293	LNNLS(0.001)PAS(0.006)HLAS(0.2	4	-0.99071	0.0	0.0
Syn1	0.383862	1.41E-08	47.132	AST(0.001)AAPVAS(0.384)PAAPS(I	3	-1.4264	0.0	0.0
Syn1	0.321813	5.98E-33	74.516	ASTAAPVASPAAPS(0.322)PGS(0.3	4	0.65853	0.0	0.0
Syn1	0.321813	5.98E-33	74.516	ASTAAPVASPAAPS(0.322)PGS(0.3	4	0.65853	0.0	0.0
Syn1	0.321813	5.98E-33	74.516	ASTAAPVASPAAPS(0.322)PGS(0.3	4	0.65853	0.0	0.0
Pclo	0.388054	2.46E-05	42.059	LPAAVS(0.023)LY(0.161)S(0.388)P	3	0.074272	0.0	0.0
Myh4	0.499264	7.93E-13	72.898	VQLLHTQNT(0.499)S(0.499)LINT(C	3	0.093199	0.0	0.0
RGD13099	0.192742	4.60E-20	65.207	SDPFFILPS(0.193)FQS(0.193)ES(0.	3	0.24559	0.0	0.0
RGD13099	0.485921	7.29E-24	133.23	S(0.026)GS(0.486)T(0.486)GS(0.0	2	0.014852	0.0	0.0
Prr12	0.422473	4.14E-33	95.624	GGET(0.422)PEGLAT(0.422)S(0.15	3	-0.10721	0.0	0.0
Prr12	0.450394	0.0231387	43.635	T(0.45)S(0.45)S(0.099)FHLLR	3	0.45272	0.0	0.0
Rbbp6	0.3276	8.02E-48	90.946	VAGTEGPSS(0.001)T(0.001)LVDY((	3	-0.78714	0.0	0.0
Arhgef26	0.325293	3.01E-06	52.814	AVVSGDFDPS(0.024)PT(0.325)S(0.	4	-0.38808	0.0	0.0
Tnks1bp1	0.416759	1.25E-94	153.06	TWVTSSADPVSEHGVS(0.417)T(0.4	3	1.2801	0.0	0.0
LOC68412	0.166607	1.73E-07	44.625	TYETVANPGPT(0.167)S(0.167)S(0.	4	-0.41657	0.0	0.0
Herc1	0.354127	0.00339876	43.68	NVDNAEGS(0.354)DT(0.354)DY(0.	2	-0.32475	0.0	0.0
Polr2a	0.469238	3.76E-21	71.651	YSPTSPTYS(0.001)PT(0.016)S(0.01	4	1.0889	0.0	0.0
Zzef1	0.434767	4.06E-30	69.492	LLPSSGPS(0.002)AAEVS(0.413)T(0	3	0.17871	0.0	0.0
Zzef1	0.344608	2.61E-35	75.196	T(0.345)S(0.345)S(0.311)VVEEHFC	5	0.70028	0.0	0.0
Smg8	0.496235	6.28E-33	98.957	QAS(0.496)T(0.496)VEY(0.008)LPC	4	0.87198	0.0	0.0
Plekha2	0.441379	2.39E-05	40.432	S(0.013)QS(0.042)Y(0.009)VPT(0.4	3	0.16726	0.0	0.0
RGD15603	0.333333	3.77E-42	77.959	GAVSAGQQELDKES(0.333)GT(0.33	4	-0.098844	0.0	0.0
Ccdc6	0.200969	2.24E-18	47.394	T(0.003)VS(0.007)S(0.016)PIPY(0.	4	0.60543	0.0	0.0
Uprt	0.430055	0.0003043	48.351	QVNS(0.05)T(0.43)S(0.094)S(0.06	3	1.1792	0.0	0.0
Slc9a6	0.494264	1.56E-05	41.908	LVLPMDDS(0.002)EPALNS(0.057)L	4	0.10922	0.0	0.0
Ltbp1	0.375327	0.00037676	63.185	EPPVEALT(0.375)S(0.375)S(0.249)	2	0.62655	0.0	0.0
Slc9a3r1	0.414799	2.44E-81	171.14	S(0.005)AS(0.28)S(0.299)DT(0.415	3	-0.49917	0.0	0.0
Ltb4r	0.425749	2.05E-10	66.059	LLEGTGSEVS(0.148)S(0.426)T(0.42	3	0.44208	0.0	0.0
Nop58	0.466695	2.23E-53	96.848	HIKEEPLS(0.277)EEEPCT(0.516)S(C	4	0.27457	0.0	0.0
Clock	0.33186	5.19E-05	40.798	IPT(0.004)DT(0.332)S(0.332)T(0.3	5	-0.38665	0.0	0.0
Clock	0.33186	5.19E-05	40.798	IPT(0.004)DT(0.332)S(0.332)T(0.3	5	-0.38665	0.0	0.0
LOC102551	0.318312	2.19E-12	47.383	AKVETPPLS(0.032)AS(0.318)PPQQ	6	-0.59136	0.0	0.0
Tuba1b	0.477045	9.82E-06	45.347	T(0.001)IGGGDDS(0.477)FNT(0.47	2	-1.4367	0.0	0.0
Arfgap3	0.490682	7.93E-08	92.495	LT(0.013)NT(0.491)S(0.491)FT(0.0	3	1.6805	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	62
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	67
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	71
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1843
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1725;1728
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1944
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2091
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	735
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1069
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1238
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	329
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	280
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	741
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4857
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1905
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1509
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	743
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	188
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	62
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	21
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	644
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	777
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	315
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	452
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	459
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	200
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51;51;51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241

Ap1m1	0.499732	1.15E-30	86.557	LETGAPRPPAT(0.5)VT(0.5)NAVS(0	4	-0.95822	0.0	0.0
Crtc1	0.197594	3.32E-13	42.344	GPQLPPLAVT(0.011)VPS(0.198)T(C	5	0.4048	0.0	0.0
Crtc1	0.197594	3.32E-13	42.344	GPQLPPLAVT(0.011)VPS(0.198)T(C	5	0.4048	0.0	0.0
Pkn3	0.436301	7.54E-05	40.137	Y(0.001)FEGEFT(0.436)S(0.248)LP	3	0.81647	0.0	0.0
Acaca	0.311016	3.46E-11	43.04	IFDEVMGCFCD(0.311)PPQS(0.31	4	-0.19046	0.0	0.0
LOC100911	0.483845	3.88E-170	177.1	T(0.484)PS(0.484)PPEEAS(0.032)P	4	0.10714	0.0	0.0
LOC100911	0.468359	1.62E-34	71.299	TPSPPEEAS(0.011)PLPS(0.468)PT(C	4	-1.5043	0.0	0.0
Pag1	0.249973	9.43E-24	69.071	HSTNAESILGT(0.25)S(0.25)S(0.25)	4	4.3687	0.0	0.0
Pag1	0.249973	9.43E-24	69.071	HSTNAESILGT(0.25)S(0.25)S(0.25)	4	4.3687	0.0	0.0
Pag1	0.458643	0.00572265	61.815	S(0.064)KS(0.32)T(0.459)S(0.158)/	3	-0.020593	0.0	0.0
Basp1	0.497373	6.48E-63	111.3	AGEAS(0.005)AES(0.497)T(0.497)C	3	-2.5216	0.0	0.0
Pmpcb	0.499832	1.29E-10	51.595	S(0.5)T(0.5)QAAPQVVLNVPETQVT	3	0.28558	0.0	0.0
RGD13115	0.456425	8.52E-15	63.225	KLT(0.001)AEADS(0.034)S(0.114)S	3	0.35371	0.0	0.0
Prkcz	0.44031	7.48E-43	88.708	EGLGPGDT(0.022)T(0.096)S(0.44)	3	-1.428	0.0	0.0
Dap	0.333006	5.87E-07	42.791	DKDDQEWES(0.333)T(0.333)S(0.3	4	0.53241	0.0	0.0
Araf	0.316507	2.57E-45	80.136	S(0.317)T(0.317)S(0.284)T(0.083)F	4	-1.9361	0.0	0.0
Akap6	0.485108	1.42E-08	59.728	DCFNYNEDS(0.485)PT(0.485)QPT(C	3	1.2027	0.0	0.0
Akap6	0.424093	2.11E-19	62.589	EGDDVSHT(0.003)S(0.038)QGCAE	3	1.7061	0.0	0.0
Akap6	0.414396	6.25E-26	75.057	EGDDVSHTSQGAES(0.03)T(0.131	4	0.51184	0.0	0.0
Akap6	0.414396	6.25E-26	75.057	EGDDVSHTSQGAES(0.03)T(0.131	4	0.51184	0.0	0.0
Rab3ip	0.424483	7.61E-20	69.979	TLVLS(0.001)S(0.002)S(0.024)PT(0	2	-0.72062	0.0	0.0
Rab3ip	0.418629	2.03E-31	85.563	TLVLS(0.002)S(0.013)S(0.073)PT(0	3	-0.099316	0.0	0.0
Snap23	0.499546	1.29E-07	59.728	AHQVTDES(0.001)LES(0.5)T(0.5)RI	3	-0.64238	0.0	0.0
Cplx1	0.49987	1.74E-31	88.976	EAEAQAAMEANSEGS(0.5)LT(0.5)R	3	-0.29984	0.0	0.0
Rims3	0.340249	3.23E-15	55.532	QGS(0.269)RES(0.34)T(0.34)DGS(C	4	1.0871	0.0	0.0
Abi1	0.422059	1.55E-18	49.23	ENSGSSS(0.001)IGIPIAVPT(0.422)F	4	-1.3319	0.0	0.0
Dctn1	0.332918	1.67E-42	88.573	QSQIQVFEDGADT(0.333)T(0.333)S	3	1.1367	0.0	0.0
Dctn1	0.332918	1.67E-42	88.573	QSQIQVFEDGADT(0.333)T(0.333)S	3	1.1367	0.0	0.0
Hivep2	0.489403	1.34E-08	60.764	ELS(0.021)LS(0.489)T(0.489)EEGN	3	1.2243	0.0	0.0
Hspa8	0.25872	1.13E-09	52.814	GPAVGIDLGT(0.259)T(0.259)Y(0.2	4	-1.5663	0.0	0.0
Hspa8	0.25872	1.13E-09	52.814	GPAVGIDLGT(0.259)T(0.259)Y(0.2	4	-1.5663	0.0	0.0
Stk38l	0.49657	1.60E-53	92.865	QLAYS(0.497)T(0.497)VGT(0.006)F	3	0.31387	0.0	0.0
Marcks11	0.245676	5.71E-12	46.902	GGDAEEEAGPQAAEPS(0.086)T(0.2	3	1.2739	0.0	0.0
Atf2	0.165644	3.73E-42	77.026	AQSEESRPQSLQQPAT(0.166)S(0.1	6	-1.2648	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	417
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	923
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1264
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	255
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	245
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	253
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	204
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	45
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	436
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	227
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	50
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	213
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	385
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2236
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2239
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2240
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	220
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	24
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	95
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	108
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	103
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	104
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	13
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	14
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	283
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	302

Atf2	0.165644	3.73E-42	77.026	AQSEESRPQSLQQPAT(0.166)S(0.1	6	-1.2648	0.0	0.0
Atf2	0.165644	3.73E-42	77.026	AQSEESRPQSLQQPAT(0.166)S(0.1	6	-1.2648	0.0	0.0
Atf2	0.165644	3.73E-42	77.026	AQSEESRPQSLQQPAT(0.166)S(0.1	6	-1.2648	0.0	0.0
Rbl2	0.482655	0.00118541	63.091	YS(0.007)S(0.198)PT(0.161)VS(0.0	2	0.70096	0.0	0.0
Rps27a	0.333845	1.16E-09	53.481	T(0.334)LT(0.334)GKT(0.297)IT(0.(	4	0.46317	0.0	0.0
Rps27a	0.333845	1.16E-09	53.481	T(0.334)LT(0.334)GKT(0.297)IT(0.(	4	0.46317	0.0	0.0
Nr2f1	0.477953	2.60E-45	78.531	GGGGGEQQQAGS(0.001)GAPHT(C	4	-0.6069	0.0	0.0
Nr2f1	0.477953	2.60E-45	78.531	GGGGGEQQQAGS(0.001)GAPHT(C	4	-0.6069	0.0	0.0
Potef	0.491258	2.92E-10	66.023	GYSFT(0.017)T(0.491)T(0.491)AER	3	-0.283	0.0	0.0
Potef	0.491258	2.92E-10	66.023	GYSFT(0.017)T(0.491)T(0.491)AER	3	-0.283	0.0	0.0
Vdac2	0.473127	2.20E-05	50.897	LT(0.001)FDT(0.049)T(0.473)FS(0.	4	0.41873	0.0	0.0
Akt3	0.475426	1.95E-10	49.087	MNCS(0.475)PT(0.475)S(0.049)QII	4	0.22298	0.0	0.0
Zfp148	0.455158	4.67E-22	92.939	GLLTSEEDS(0.001)GFS(0.455)T(0	3	0.35726	0.0	0.0
Fat1	0.298301	2.65E-11	51.321	VQVLDT(0.001)NDLRPLFS(0.027)P	4	1.4858	0.0	0.0
Dvl1	0.240109	1.78E-19	62.696	T(0.24)S(0.24)S(0.21)S(0.24)S(0.07	4	0.015239	0.0	0.0
Rtn4	0.24731	3.42E-49	92.147	EHGYLGNLS(0.001)AVS(0.247)S(0.	3	-0.11263	0.0	0.0
Rtn4	0.491677	5.24E-35	69.7	LPEDEPPARPPPPPPAGAS(0.017)I	6	-0.54736	0.0	0.0
Rtn4	0.499582	4.83E-10	49.623	T(0.5)S(0.5)NPFLVAVQDSEADYVTI	3	0.33694	0.0	0.0
Nsfl1c	0.333332	2.95E-53	95.195	LGSTAPQVLNT(0.333)S(0.333)S(0.	4	0.57037	0.0	0.0
Psm1	0.481981	2.41E-12	47.366	T(0.213)VGT(0.482)PIAS(0.214)VP	4	0.79072	0.0	0.0
Lsr	0.427843	8.78E-16	59.048	S(0.011)VDALDDINRPGS(0.428)T((	5	-1.13	0.0	0.0
Vim	0.498482	2.21E-14	126.56	EEAES(0.498)T(0.498)LQS(0.003)F	2	-0.31643	0.0	0.0
Fga	0.486463	2.20E-47	88.395	EVVTSDDGS(0.016)DCGDGMDLGL	3	-1.1272	0.0	0.0
Psen2	0.332194	0.000850017	70.197	TSLMS(0.003)AES(0.332)PT(0.332)	2	1.6631	0.0	0.0
Cds1	0.463312	2.60E-88	143.32	EGEAAGGDHET(0.002)ES(0.067)T(	4	0.18882	0.0	0.0
Fam160a2	0.366617	3.11E-08	49.188	DGTGLGLGGGS(0.267)PGAS(0.367	2	-0.33059	0.0	0.0
Asap1	0.15466	2.78E-09	45.137	LSYGAF(0.001)NQIFVS(0.155)T(0	4	0.40221	0.0	0.0
Asap1	0.15466	2.78E-09	45.137	LSYGAF(0.001)NQIFVS(0.155)T(0	4	0.40221	0.0	0.0
Asap1	0.15466	2.78E-09	45.137	LSYGAF(0.001)NQIFVS(0.155)T(0	4	0.40221	0.0	0.0
Kctd8	0.205478	2.06E-09	51.524	HSTLLS(0.001)VPDS(0.205)T(0.205	4	0.082913	0.0	0.0
RGD13051	0.349762	1.07E-13	75.682	S(0.35)T(0.35)S(0.295)RDVS(0.006	3	-0.35154	0.0	0.0
Sarm1	0.399096	2.72E-06	40.145	EMLHS(0.351)PLPCT(0.399)GGKPS	3	0.82465	0.0	0.0
Prkca	0.434287	1.08E-32	74.874	EHMMDGV(0.434)T(0.12)RT(0.38	5	0.17022	0.0	0.0
Prkca	0.425654	6.24E-66	94.352	EHMMDGV(0.426)T(0.426)RT(0.	5	0.13849	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	304
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	305
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	307
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	674
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	7
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	9
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	48
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	202
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	203
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	114
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	122
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	305
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	153
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	288
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	252
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	160;306
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	491
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	273
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	381
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	202
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	443
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	27
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	36
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	919
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	790
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	792
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	796
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	69
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	614
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	553
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	494
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	495

Zbtb20	0.432327	2.81E-09	52.814	HVALHS(0.129)AS(0.432)NGT(0.432)	3	-0.46195	0.0	0.0
Senp7	0.473175	4.31E-08	60.334	IPSVTEAS(0.041)LS(0.161)DT(0.473)	3	0.11112	0.0	0.0
Rfx1	0.162126	4.64E-09	41.551	AS(0.001)ET(0.001)VS(0.007)EAS(0.162)	3	-0.5645	0.0	0.0
Rfx1	0.162126	4.64E-09	41.551	AS(0.001)ET(0.001)VS(0.007)EAS(0.162)	3	-0.5645	0.0	0.0
Chodl	0.465726	8.61E-13	73.138	T(0.111)KT(0.466)S(0.161)PNQS(0.466)	4	0.48601	0.0	0.0
Uhrf1bp1l	0.498692	3.82E-10	49.559	EYYS(0.499)T(0.499)ES(0.001)ES(0.499)	3	-0.13885	0.0	0.0
Lpin2	0.480307	7.31E-06	46.892	LPAY(0.005)LAT(0.48)S(0.48)PIPT(0.48)	3	0.048775	0.0	0.0
Myoz2	0.466452	3.99E-15	57.068	IDGSNLEGGs(0.05)QQAPS(0.466)T(0.466)	3	0.25728	0.0	0.0
Larp4b	0.478904	2.61E-26	79.837	EAHSVDRPLS(0.065)T(0.432)PT(0.432)	4	-0.49249	0.0	0.0
Larp4b	0.444714	1.57E-08	61.276	S(0.101)LS(0.445)T(0.445)DAS(0.445)	2	0.33104	0.0	0.0
Camk1d	0.335434	2.12E-14	58.272	GDVMS(0.288)T(0.288)ACGT(0.335)	4	-0.19191	0.0	0.0
Mex3c	0.416492	2.52E-06	42.669	RGS(0.803)QPS(0.211)T(0.211)PRI(0.416)	4	-1.1077	0.0	0.0
Nck2	0.466771	2.73E-11	56.081	DAS(0.002)PT(0.033)PS(0.467)T(0.467)	3	-2.566	0.0	0.0
Zfp532	0.457447	0.00240966	41.227	GS(0.001)PS(0.02)S(0.065)PVGs(0.457)	2	0.97684	0.0	0.0
Ube2m	0.471312	0.000819685	40.493	EEES(0.004)AGGT(0.471)KGS(0.471)	4	-0.13982	0.0	0.0
Afap1l1	0.430938	8.93E-05	67.952	S(0.354)PS(0.086)IVT(0.431)S(0.152)	2	0.76114	0.0	0.0
Pik3r4	0.360016	8.39E-23	66.613	SESSAGVCVPLS(0.128)T(0.36)S(0.36)	3	0.24046	0.0	0.0
Trim36	0.423872	1.51E-06	41.551	NS(0.424)LT(0.424)PRPT(0.152)M(0.424)	3	0.10822	0.0	0.0
Nek9	0.390179	3.50E-07	44.341	IGGGGGEEEDS(0.01)QQES(0.39)E(0.39)	3	0.019882	0.0	0.0
Farp2	0.465528	7.24E-07	44.788	LGGQT(0.001)AIGVS(0.466)T(0.466)	4	0.50591	0.0	0.0
Farp2	0.392248	1.13E-10	65.949	T(0.392)RT(0.297)S(0.297)LHT(0.5)	4	0.11702	0.0	0.0
Farp2	0.41185	5.06E-05	58.885	T(0.412)S(0.412)LHT(0.175)LT(0.0)	3	-1.5884	0.0	0.0
Farp2	0.443695	1.79E-07	43.493	T(0.444)S(0.444)AS(0.11)LS(0.002)	4	0.26162	0.0	0.0
Eif4g3	0.398079	1.12E-30	71.06	ETQDKAEAES(0.301)DGQT(0.301)	6	0.28209	0.0	0.0
Eif4g3	0.270544	2.33E-10	50.375	DDAPPVRS(0.221)PT(0.271)S(0.10)	3	-1.4214	0.0	0.0
Eif4g3	0.277395	9.13E-09	43.457	EQAGQIPET(0.07)AAGEPS(0.117)F(0.277)	4	-0.088434	0.0	0.0
Zc2hc1a	0.496915	4.37E-53	123.44	ASSVNSPLGNKPQT(0.497)LS(0.497)	3	-0.88057	0.0	0.0
Zc2hc1a	0.494421	0.000205452	61.082	S(0.011)RNT(0.494)T(0.494)PPSLA(0.494)	3	0.39287	0.0	0.0
Dtx3l	0.456506	7.27E-18	72.433	T(0.457)PS(0.457)LT(0.087)ESLDE(0.457)	3	1.0394	0.0	0.0
Dot1l	0.420385	4.14E-07	54.004	ASAGT(0.006)PS(0.027)LT(0.42)T(0.42)	3	-0.61569	0.0	0.0
Yeats2	0.486722	3.78E-45	79.616	QGSASAGISNPHAIVDKPGQAT(0.486)	4	0.34544	0.0	0.0
Stard13	0.345457	2.07E-10	48.5	VSIYDNVPS(0.003)S(0.003)HLY(0.345)	4	0.75737	0.0	0.0
Stard13	0.473047	4.28E-17	58.565	NTASSES(0.004)VLT(0.473)DLS(0.473)	4	1.6435	0.0	0.0
Stard13	0.35181	0.0453291	50.297	T(0.352)GS(0.339)IS(0.31)LGR(0.352)	2	-0.27327	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	617
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	127
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	121
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	252
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	775
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	143
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	28
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	629
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	569
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	95
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	354
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	20
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	749
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	904
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	95
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	770
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	28
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	396
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	516
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	303
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	220
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	508
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	309

Caskin2	0.494106	4.64E-24	59.367	T(0.494)LS(0.452)EPT(0.051)GPS(C	4	-0.30674	0.0	0.0
Caskin2	0.246447	8.51E-20	53.781	TLSEPTGPS(0.001)ES(0.013)PAPS(I	4	-1.2292	0.0	0.0
Caskin2	0.246447	8.51E-20	53.781	TLSEPTGPS(0.001)ES(0.013)PAPS(I	4	-1.2292	0.0	0.0
Rapgef2	0.309232	3.17E-15	57.39	GLYAAAT(0.018)VIS(0.224)S(0.224	4	-0.29378	0.0	0.0
Rapgef2	0.333049	8.19E-10	45.099	QAEDTIS(0.003)NAS(0.281)S(0.28	3	1.5237	0.0	0.0
Rapgef2	0.495809	0.00517987	50.04	S(0.008)ET(0.496)S(0.496)PVAPR	3	-0.18418	0.0	0.0
Tbc1d9b	0.499647	1.59E-15	63.447	DGAHS(0.001)GDHNS(0.5)AT(0.5)	3	1.4937	0.0	0.0
Tbc1d9b	0.444105	1.06E-26	113.88	QFS(0.056)T(0.444)S(0.444)S(0.05	3	0.93992	0.0	0.0
Ncbp3	0.469257	0.00825641	54.259	MIS(0.061)T(0.469)PS(0.469)PKK	3	0.8811	0.0	0.0
Flnb	0.498901	7.25E-10	47.058	AGSNMLLIGVHGPT(0.499)T(0.499	3	2.195	0.0	0.0
Flnb	0.498901	7.25E-10	47.058	AGSNMLLIGVHGPT(0.499)T(0.499	3	2.195	0.0	0.0
Flnb	0.44781	9.77E-15	119.39	S(0.231)S(0.32)T(0.448)ET(0.001)(	3	-0.095666	0.0	0.0
Flnb	0.382749	3.84E-05	46.065	T(0.383)S(0.383)RAPS(0.164)VAT(	3	0.055616	0.0	0.0
Cul4b	0.368655	7.29E-31	74.516	DS(0.005)AS(0.063)PS(0.369)T(0.3	3	-1.1876	0.0	0.0
Cul4b	0.19681	4.21E-77	114.37	MAEESSSSSSS(0.015)S(0.197)S(0.1	4	0.28939	0.0	0.0
Cul4b	0.19681	4.21E-77	114.37	MAEESSSSSSS(0.015)S(0.197)S(0.1	4	0.28939	0.0	0.0
Cul4b	0.459265	1.00E-11	65.808	SATDGNT(0.02)S(0.092)T(0.459)T(	3	0.93339	0.0	0.0
Irf2bp1	0.308544	5.39E-15	55.453	HWVAPGGPY(0.056)S(0.309)T(0.3	3	0.31585	0.0	0.0
Irf2bp1	0.308544	5.39E-15	55.453	HWVAPGGPY(0.056)S(0.309)T(0.3	3	0.31585	0.0	0.0
Rabl6	0.491223	1.94E-19	59.242	FPVREDLS(0.034)DVT(0.475)DEDT	3	0.44809	0.0	0.0
Rabl6	0.471058	2.32E-07	44.893	LFGT(0.471)S(0.471)PAAEAT(0.02!	5	-1.3028	0.0	0.0
Wwc2	0.431689	1.91E-16	58.349	SPSQPGQS(0.004)GLCGLGVAAT(0	4	1.627	0.0	0.0
Slmap	0.489325	2.05E-29	116	ESDLSDT(0.489)LS(0.489)PS(0.021	4	-0.35391	0.0	0.0
Tlk1	0.295467	3.06E-20	59.352	SPQNSHS(0.001)HS(0.005)T(0.014	7	0.57168	0.0	0.0
Tpgs1	0.485556	1.36E-18	72.99	T(0.486)S(0.486)VS(0.029)QAVAA	3	0.076363	0.0	0.0
Ssh2	0.464721	3.13E-10	88.706	EMT(0.07)T(0.465)S(0.465)ADQITI	3	0.20267	0.0	0.0
Slc43a1	0.499876	1.33E-57	105.35	T(0.5)PS(0.5)LEEGTDGFISSDIPGT:	3	0.13965	0.0	0.0
Slc12a6	0.420771	4.21E-08	40.849	T(0.001)S(0.001)NPQDVT(0.421)E	5	0.041672	0.0	0.0
Tbc1d17	0.313046	8.93E-11	41.936	KDPS(0.008)GGEPS(0.038)T(0.313	4	0.13491	0.0	0.0
Tbc1d17	0.313046	8.93E-11	41.936	KDPS(0.008)GGEPS(0.038)T(0.313	4	0.13491	0.0	0.0
Mmgt1	0.498211	5.49E-94	149.99	VLFPSDATNSSNLDALSS(0.003)NT	4	-0.0052607	0.0	0.0
Pcif1	0.421965	2.80E-15	56.882	EEASLLS(0.002)HS(0.103)PGT(0.42	4	-1.2059	0.0	0.0
Osbpl7	0.363352	8.17E-06	40.986	IPSAPVIPT(0.003)HQAS(0.27)VT(0	4	0.41683	0.0	0.0
Osbpl7	0.363352	8.17E-06	40.986	IPSAPVIPT(0.003)HQAS(0.27)VT(0	4	0.41683	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	902
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	919
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	925
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1023;1380
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	916;1273
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	819;1176
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1057
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	408
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2529
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2530
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2474
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2078
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	204
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	207
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	414
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	416
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	480
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	346
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	159
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	486
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	307
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	89
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	74
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	80
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	216

Mpp5	0.495963	1.12E-14	55.705	TGIDNPIFDT(0.496)EEGIVLES(0.49	3	0.13107	0.0	0.0
Ncor2	0.49946	0.000137895	47.712	S(0.001)DHPLT(0.499)S(0.499)PGC	3	-1.6622	0.0	0.0
Ldb1	0.469532	3.67E-67	130.57	KMS(0.026)GGS(0.47)T(0.47)MS(C	3	0.25527	0.0	0.0
Ikzf5	0.478776	0.0271517	45.661	T(0.479)T(0.479)PT(0.042)GGLPR	2	1.5105	0.0	0.0
Ikzf5	0.478776	0.0271517	45.661	T(0.479)T(0.479)PT(0.042)GGLPR	2	1.5105	0.0	0.0
Sh3pxd2a	0.346256	0.00970539	65.278	NS(0.005)S(0.302)FS(0.346)T(0.34	2	0.10662	0.0	0.0
Sh3pxd2a	0.470544	1.36E-12	53.545	VGES(0.025)S(0.072)EDVALEEET(C	3	0.5205	0.0	0.0
Ulk1	0.224776	3.24E-18	47.884	AAFGT(0.001)QAS(0.096)DS(0.225	5	0.21588	0.0	0.0
Ulk1	0.495201	8.46E-16	55.417	AGGASS(0.002)PAPVVFT(0.495)VC	4	-0.08197	0.0	0.0
LOC68003	0.404424	1.27E-05	42.633	ALY(0.002)S(0.148)PLFPT(0.404)S(	3	-2.5791	0.0	0.0
Usp36	0.473146	0.00255244	64.82	DSIFS(0.053)T(0.473)S(0.473)PK	2	1.409	0.0	0.0
Foxn3	0.312152	2.10E-10	50.088	S(0.091)T(0.091)S(0.312)PT(0.312	3	1.0566	0.0	0.0
Rcsd1	0.270101	0.000104625	50.354	EKS(0.036)PS(0.212)S(0.212)T(0.2	4	1.001	0.0	0.0
Rcsd1	0.266912	7.02E-07	42.057	NT(0.185)CS(0.267)S(0.267)T(0.26	4	0.27169	0.0	0.0
Ttbk2	0.489727	3.71E-10	82.349	DQS(0.49)AT(0.49)T(0.021)EPLDV	3	0.06868	0.0	0.0
Ttbk2	0.461282	2.89E-38	89.859	SGTDGSLT(0.003)T(0.087)T(0.461)	3	-0.61697	0.0	0.0
Ttbk2	0.394707	1.56E-12	61.276	SGTDGSLT(0.007)T(0.007)T(0.101)	4	-1.5142	0.0	0.0
Ttbk2	0.489837	2.29E-78	149	SGTDGSLTTTT(0.003)T(0.49)S(0.49	3	-0.34408	0.0	0.0
Rpia	0.468381	8.78E-09	56.29	NNQVLGIGS(0.166)GS(0.365)T(0.4	3	0.03505	0.0	0.0
Ccnt2	0.337669	4.99E-06	52.866	HGPAQAVAGT(0.338)S(0.338)VT(C	3	0.6106	0.0	0.0
Wiz	0.499841	8.87E-14	68.41	AADSGERPLAT(0.5)S(0.5)PPGTVK	4	0.82672	0.0	0.0
Sbno2	0.34359	2.82E-07	41.908	AIT(0.002)LPCGPGEVLDLT(0.344)Y	4	0.55427	0.0	0.0
Ppp1r12b	0.421808	0.00014001	45.347	RS(0.422)T(0.422)QGVV(0.12)LT(0	3	-1.12	0.0	0.0
Tmcc3	0.497459	0.00102557	43.592	S(0.497)RT(0.497)APHCLES(0.004)	3	-0.25384	0.0	0.0
Hist1h1b	0.499865	2.09E-37	105.9	SETAPAET(0.5)T(0.5)APAPVEKSPA	5	0.16567	0.0	0.0
Tbc1d10b	0.42146	8.81E-85	100.66	ASAGPVPGAVVIAEGLHPS(0.019)LI	4	-0.59054	0.0	0.0
Tbc1d10b	0.234618	1.51E-11	45.339	ASAGPVPGAVVIAEGLHPS(0.191)LI	5	-2.2427	0.0	0.0
Tmem26	0.491713	8.26E-05	52.576	ISPVTSEES(0.001)Y(0.016)PT(0.49	2	-0.39527	0.0	0.0
Tmem26	0.491713	8.26E-05	52.576	ISPVTSEES(0.001)Y(0.016)PT(0.49	2	-0.39527	0.0	0.0
Bicd1	0.329809	3.29E-07	44.341	T(0.001)PT(0.001)IS(0.004)PVIT(0.	4	0.093987	0.0	0.0
Whsc111	0.499332	0.0373216	47.097	T(0.499)RS(0.499)ES(0.001)EK	3	0.39962	0.0	0.0
Slain2	0.495272	0.0575018	43.297	RT(0.495)S(0.495)S(0.009)EDLR	3	0.016595	0.0	0.0
Map4k2	0.249708	3.68E-09	46.145	AS(0.001)DPHLGT(0.25)LS(0.25)PE	5	-0.61875	0.0	0.0
Map4k2	0.249708	3.68E-09	46.145	AS(0.001)DPHLGT(0.25)LS(0.25)PE	5	-0.61875	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	233
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	234
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	960
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	566
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	716
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	754
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1206
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	577
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	42
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	217
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	749
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	240
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	100
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	328
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	827
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	476;697
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	145
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	9
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	692
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	696
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	364
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	365
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	605
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	590
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	86
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	231
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241

Osbp	0.328487	5.50E-63	109.25	GATVLPANT(0.11)PGS(0.328)T(0.3	4	-1.4569	0.0	0.0
Osbp	0.499161	1.57E-28	84.327	RT(0.499)GS(0.499)NIS(0.002)GAS	4	-0.44754	0.0	0.0
Zfp703	0.12372	2.49E-09	52.185	DGGSSSVS(0.001)S(0.009)T(0.124	3	-0.86751	0.0	0.0
Zfp703	0.12372	2.49E-09	52.185	DGGSSSVS(0.001)S(0.009)T(0.124	3	-0.86751	0.0	0.0
Nfatc2	0.473276	4.19E-07	56.339	T(0.473)S(0.473)PDPT(0.046)PVS(i	3	-0.21924	0.0	0.0
Scel	0.229228	9.64E-07	40.723	TPAGSSF(0.005)ANT(0.229)T(0.2	4	0.035048	0.0	0.0
Scel	0.229228	9.64E-07	40.723	TPAGSSF(0.005)ANT(0.229)T(0.2	4	0.035048	0.0	0.0
Scel	0.229228	9.64E-07	40.723	TPAGSSF(0.005)ANT(0.229)T(0.2	4	0.035048	0.0	0.0
Scel	0.166344	6.05E-06	40.137	TPAGSSF(0.002)ANT(0.166)T(0.1	3	0.24345	0.0	0.0
Scel	0.166344	6.05E-06	40.137	TPAGSSF(0.002)ANT(0.166)T(0.1	3	0.24345	0.0	0.0
Mphosph1	0.333127	2.58E-10	49.266	VTFALPDDEAEDT(0.333)S(0.333)S	4	2.2717	0.0	0.0
Kank4	0.483638	5.93E-63	111.66	ESPVPPS(0.033)S(0.484)T(0.484)P	3	0.50298	0.0	0.0
Vcl	0.199863	4.85E-07	43.841	TQMQEAMT(0.001)QEV(0.2)DVF	3	0.50755	0.0	0.0
Vcl	0.199863	4.85E-07	43.841	TQMQEAMT(0.001)QEV(0.2)DVF	3	0.50755	0.0	0.0
Vcl	0.199863	4.85E-07	43.841	TQMQEAMT(0.001)QEV(0.2)DVF	3	0.50755	0.0	0.0
Carkd	0.476802	1.24E-12	59.975	IGIVGGCQEQY(0.412)T(0.477)GAPY	3	-0.55119	0.0	0.0
Depdc5	0.435614	1.40E-07	56.081	NS(0.436)T(0.436)S(0.117)S(0.009	3	1.271	0.0	0.0
Depdc5	0.451945	0.000210351	50.95	S(0.437)LGEQQT(0.452)S(0.111)VI	3	0.73474	0.0	0.0
Chordc1	0.436101	3.25E-05	46.953	RRT(0.436)T(0.436)DFS(0.128)DFL	4	1.8754	0.0	0.0
Chordc1	0.436101	3.25E-05	46.953	RRT(0.436)T(0.436)DFS(0.128)DFL	4	1.8754	0.0	0.0
Rc3h2	0.440725	1.83E-38	73.574	TPVSS(0.001)T(0.001)LPVAT(0.328	4	-0.29344	0.0	0.0
Rc3h2	0.327642	7.50E-10	47.806	TPVSS(0.001)T(0.001)LPVAT(0.328	3	-0.93846	0.0	0.0
Srsf4	0.424054	0.000509939	44.82	KGDT(0.424)DHS(0.148)RS(0.364)	4	0.33252	0.0	0.0
Rabgap1	0.418458	1.31E-05	43.164	QGDET(0.038)PS(0.124)T(0.418)N	3	0.023661	0.0	0.0
Golga3	0.350826	7.64E-05	42.908	S(0.272)S(0.272)T(0.351)S(0.105)\	3	1.1383	0.0	0.0
Nfrkb	0.199576	6.53E-09	44.31	SEAEDLAEPLS(0.2)NT(0.2)EGVPT(C	3	1.8491	0.0	0.0
Nfrkb	0.199576	6.53E-09	44.31	SEAEDLAEPLS(0.2)NT(0.2)EGVPT(C	3	1.8491	0.0	0.0
Peak1	0.38703	8.33E-20	61.963	VKGS(0.06)S(0.176)S(0.541)T(0.21	4	0.16096	0.0	0.0
Peak1	0.459475	9.03E-05	48.623	S(0.006)APT(0.459)S(0.459)PT(0.0	3	-0.207	0.0	0.0
Luc7l2	0.471631	1.28E-07	54.967	AMLDQLMGT(0.472)S(0.472)RDG	3	-0.54152	0.0	0.0
Rreb1	0.488397	2.20E-31	76.161	DKEQPTSEGAS(0.013)ELS(0.488)P	4	1.5201	0.0	0.0
Zfp800	0.465994	8.68E-20	62.781	VKVEPGDSVES(0.009)S(0.029)PPS	4	-0.063687	0.0	0.0
Clgn	0.457361	1.30E-08	47.499	S(0.01)GS(0.035)EDEMKDADES(0.	3	-0.09819	0.0	0.0
Eaf1	0.498988	1.43E-09	60.133	T(0.499)S(0.499)PLKDNPS(0.002)F	4	1.7948	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	252
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	327
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	119
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	127
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	128
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	637
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	602
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	603
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	604
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	66
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	936
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	47
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	48
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	697
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	701
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	395
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	238
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	357
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	506
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	567
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	17
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1281
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	424
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	593
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	243



Fam195a	0.444365	1.96E-15	58.087	RPLT(0.094)T(0.094)S(0.077)PS(0.	4	0.36896	0.0	0.0
Fam172a	0.413815	9.98E-08	61.127	QS(0.017)S(0.285)S(0.285)DGT(0.	3	0.050713	0.0	0.0
Diras1	0.31979	4.25E-10	53.768	SVCT(0.003)LQIT(0.32)DT(0.32)T(C	4	-0.17116	0.0	0.0
Diras1	0.479646	2.08E-42	97.083	SVCTLQIT(0.001)DT(0.48)T(0.48)G	3	0.4786	0.0	0.0
Diras1	0.479646	2.08E-42	97.083	SVCTLQIT(0.001)DT(0.48)T(0.48)G	3	0.4786	0.0	0.0
Cgn1	0.42885	4.33E-17	71.531	SSS(0.003)S(0.014)S(0.066)T(0.32)	3	-0.29624	0.0	0.0
Snx6	0.403764	3.92E-05	44.734	IGSSLY(0.006)ALGT(0.295)QDS(0.2	3	0.15397	0.0	0.0
Reps1	0.354449	3.48E-07	43.522	RS(0.17)S(0.135)GDHT(0.354)NPT	5	-0.251	0.0	0.0
Nfat5	0.325572	1.03E-15	56.131	DGSTLTLQT(0.023)PS(0.326)S(0.32	4	0.15723	0.0	0.0
Large	0.494936	6.94E-05	48.608	T(0.097)Y(0.003)S(0.4)MEEGT(0.4	3	0.19072	0.0	0.0
Exoc6b	0.249755	0.00024792	40.941	DVYT(0.001)IFDT(0.25)EVES(0.25)	4	0.48466	0.0	0.0
Exoc6b	0.249755	0.00024792	40.941	DVYT(0.001)IFDT(0.25)EVES(0.25)	4	0.48466	0.0	0.0
Ppp1r13b	0.425537	1.39E-48	91.603	EAEPEGPS(0.042)VPGECS(0.115)T	4	-1.0087	0.0	0.0
Ap2a1	0.408058	4.69E-66	98.151	DTSSNDINGGVEPT(0.408)PS(0.408)	3	-0.0019844	0.0	0.0
Ap2a1	0.288897	2.29E-54	85.881	RDTSSNDINGGVEPT(0.099)PS(0.28	3	2.2099	0.0	0.0
Mfsd6	0.403716	9.81E-55	90.166	IPVPS(0.32)S(0.276)PVPIAT(0.404)	4	0.33982	0.0	0.0
Zmynd8	0.478561	5.88E-11	56.081	S(0.001)PT(0.001)S(0.002)T(0.001	3	-0.9677	0.0	0.0
Add2	0.366232	1.48E-12	65.231	AGT(0.366)KS(0.726)PAVS(0.49)PS	4	-0.15013	0.0	0.0
Add2	0.493454	7.89E-11	91.695	S(0.005)RS(0.053)PS(0.233)T(0.49	3	-0.16011	0.0	0.0
Dnajc2	0.462545	8.33E-12	96.096	NAS(0.075)T(0.463)S(0.463)FQELE	3	-0.57812	0.0	0.0
Nefh	0.492858	9.60E-60	143.74	S(0.006)S(0.008)S(0.493)T(0.493)I	2	-0.57163	0.0	0.0
Plaa	0.475439	1.95E-09	54.008	GQT(0.001)LGLGNT(0.475)S(0.475	3	0.036042	0.0	0.0
Tab1	0.499685	3.09E-17	61.03	SLLQSEQQPS(0.5)WT(0.5)DDLPLCI	4	-1.0647	0.0	0.0
Shroom2	0.469936	9.30E-07	84.753	ADAS(0.059)S(0.47)T(0.47)ENILY(C	2	-1.8296	0.0	0.0
LOC10091	0.310755	7.70E-23	65.298	S(0.311)T(0.311)S(0.272)PS(0.092	3	1.4348	0.0	0.0
Myef2	0.35889	3.01E-25	66.051	T(0.359)GT(0.326)S(0.297)FQGS(0	4	0.40307	0.0	0.0
Cad	0.476758	1.52E-15	54.425	KWPQGAVPQPPPT(0.078)PT(0.07	5	0.25994	0.0	0.0
Eif5b	0.49935	2.52E-12	65.184	T(0.499)S(0.499)FDENDS(0.001)EE	4	-1.0792	0.0	0.0
Flot1	0.400207	1.94E-05	50.088	IT(0.001)LVS(0.034)S(0.165)GS(0.4	3	-0.36741	0.0	0.0
Bsn	0.426467	0.0160549	62.271	T(0.426)GGT(0.287)PS(0.287)PK	2	-2.7161	0.0	0.0
Map1b	0.458569	2.91E-17	69.088	DYNAS(0.009)AS(0.029)T(0.459)IS	4	0.46321	0.0	0.0
Map1b	0.305036	8.80E-05	43.476	T(0.305)T(0.305)RS(0.207)PDT(0.C	4	-0.87163	0.0	0.0
Map1b	0.305036	8.80E-05	43.476	T(0.305)T(0.305)RS(0.207)PDT(0.C	4	-0.87163	0.0	0.0
Map1b	0.384559	2.61E-22	86.557	T(0.385)T(0.385)RT(0.23)PEEGGY	4	-0.1282	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	86
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	60
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	62
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	302
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	261
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	478
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	363
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	108
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	255
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	260
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	615
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	647
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	653
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	653
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	437
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	612
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	533
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	48
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1043;1013
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	465
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	18
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	193
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	130
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1833
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	107
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	387
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	429
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1199;1073
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2024;1898
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2025;1899
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1939;1813

Map1b	0.384559	2.61E-22	86.557	T(0.385)T(0.385)RT(0.23)PEEGGY	4	-0.1282	0.0	0.0
Map1b	0.409107	0.0200429	60.167	T(0.147)T(0.035)T(0.409)T(0.409)I	2	0.44357	0.0	0.0
Phf14	0.243517	2.27E-10	51.758	KAELMGIST(0.003)DIFPVDNS(0.24	3	-0.88833	0.0	0.0
Phf14	0.433302	1.98E-06	50.358	NSADDEELT(0.433)NDS(0.433)LT((	3	-0.44365	0.0	0.0
Sos1	0.385507	0.000842982	42.639	IPES(0.001)ET(0.011)ES(0.115)T(0	2	-0.050517	0.0	0.0
Sos1	0.165639	9.52E-10	44.955	T(0.044)PLT(0.106)PPPAS(0.166)S	4	-0.48486	0.0	0.0
Acly	0.21606	1.55E-11	48.225	PIPNOQPPTAAHTANFLLNAS(0.193)(	4	0.093281	0.0	0.0
Lsp1	0.498753	2.01E-32	78.128	T(0.499)PS(0.499)PLALEDT(0.001)	3	-0.10797	0.0	0.0
Lsp1	0.443586	9.64E-08	45.666	T(0.442)PS(0.545)PLALEDT(0.444)	5	-0.021851	0.0	0.0
Ppp1r11	0.408407	3.89E-07	40.625	RPT(0.006)T(0.006)PGPT(0.051)PT	4	-1.3215	0.0	0.0
Akap11	0.315926	9.28E-07	40.668	NVIPDT(0.316)PPS(0.316)T(0.316)	4	-0.06867	0.0	0.0
Akap11	0.315926	9.28E-07	40.668	NVIPDT(0.316)PPS(0.316)T(0.316)	4	-0.06867	0.0	0.0
Cnksr2	0.288229	1.46E-05	48.623	S(0.012)PT(0.003)S(0.003)S(0.003	2	-0.56643	0.0	0.0
Ube2e3	0.186193	8.03E-33	70.264	QRS(0.038)DDES(0.014)PS(0.017)	4	0.14945	0.0	0.0
Mcm2	0.333315	0.000240586	54.09	RISDPLT(0.333)S(0.333)S(0.333)PC	3	0.24399	0.0	0.0
Mcf2l	0.435486	1.69E-27	80.786	ALEQSHSLPLPT(0.155)PAS(0.323)T	3	2.0113	0.0	0.0
Mcf2l	0.476818	0.0151876	47.302	AS(0.046)PT(0.477)S(0.477)PDKK	3	0.66537	0.0	0.0
Kcnb2	0.199994	2.36E-22	76.176	DSHEQLNNT(0.2)S(0.2)S(0.2)S(0.2	4	0.28205	0.0	0.0
Pias1	0.474414	2.47E-12	71.976	T(0.001)CPS(0.014)LS(0.349)PT(0.	3	-1.7604	0.0	0.0
Pias1	0.499112	1.83E-11	59.912	T(0.499)PS(0.499)LPAVDT(0.001)S	3	-0.44219	0.0	0.0
Pkn1	0.477585	5.75E-13	65.855	S(0.019)S(0.019)LKGEAENS(0.478)	3	1.3136	0.0	0.0
Clmn	0.438628	8.02E-12	58.093	VFVCDQLES(0.439)PT(0.439)GFS(C	3	2.232	0.0	0.0
Picalm	0.459263	5.29E-14	62.739	ATTLSNAVS(0.007)S(0.03)LAS(0.4	3	0.15668	0.0	0.0
Madd	0.379922	4.77E-17	58.712	SSSST(0.001)T(0.002)AS(0.013)S(C	3	1.1166	0.0	0.0
Smpd3	0.458215	5.09E-23	66.58	IYIDS(0.41)PT(0.458)NT(0.111)S(0	3	1.1859	0.0	0.0
C5ar1	0.401977	8.04E-12	67.11	NVLS(0.001)EDS(0.998)LGRDS(0.3	4	0.5137	0.0	0.0
Magi2	0.438661	1.09E-08	72.891	S(0.061)S(0.061)FPDS(0.439)T(0.4	2	-0.029891	0.0	0.0
Cds2	0.499874	2.49E-48	120.23	AETAPPPT(0.5)S(0.5)IDDTPEVLNR	3	0.36966	0.0	0.0
Sorbs2	0.25298	1.88E-23	64.701	T(0.183)S(0.183)PGRADLPGS(0.02	3	0.23234	0.0	0.0
Sorbs2	0.494305	9.18E-48	85.376	SLDSAETYSQHAQS(0.494)LDGT(0.	4	-0.83855	0.0	0.0
Sorbs2	0.49931	2.63E-16	61.642	T(0.499)S(0.499)PGRADLPGS(0.00	4	-0.020553	0.0	0.0
Epb41l3	0.404169	8.42E-18	74.657	LET(0.091)S(0.326)T(0.404)KEVPV	4	0.043182	0.0	0.0
Epb41l3	0.483372	8.89E-66	93.596	SAPEQEQPAT(0.483)VS(0.483)QEF	4	-0.016221	0.0	0.0
Epb41l3	0.24991	4.77E-16	54.167	TDTAADGET(0.25)S(0.25)AT(0.25)	5	0.58483	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1940;1814
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2297;2171
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	592
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	279
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1076
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1099
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	447
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	165
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	174
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	89
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1150
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	336
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	15
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	26
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	916
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	990
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	527
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	487
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	508
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	392
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	415
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	711
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	175
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	732
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	45
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	387
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	147
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	372
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	990;972;1309;755
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	941;923;1260;706
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	719;701

Epb41I3	0.499742	4.85E-106	144.26	TDTAADGETSAT(0.5)ES(0.5)DQEEI	4	0.034023	0.0	0.0
Epb41I3	0.464035	7.00E-13	73.386	VIS(0.064)QT(0.01)NLIT(0.429)T(0	2	1.0628	0.0	0.0
Cand1	0.352104	0.0282243	41.242	DSSSTNLES(0.295)MDT(0.352)S(0.	2	-2.9103	0.0	0.0
Rgcc	0.254503	1.28E-10	47.73	DSFT(0.001)FS(0.011)DEKLNS(0.2(	5	2.3133	0.0	0.0
Rgcc	0.254503	1.28E-10	47.73	DSFT(0.001)FS(0.011)DEKLNS(0.2(	5	2.3133	0.0	0.0
Nup88	0.431532	1.76E-71	104.6	NQSPAADKPAT(0.005)S(0.026)T(	4	0.24927	0.0	0.0
Foxk1	0.494387	2.42E-07	54.281	AASEQQADT(0.494)S(0.494)GGDS	3	-1.1527	0.0	0.0
Foxk1	0.479403	2.25E-33	82.267	SLVS(0.001)PIPS(0.479)PT(0.479)C	3	1.3282	0.0	0.0
Foxk1	0.417909	3.70E-15	59.536	SLVSPIPS(0.099)PT(0.418)GT(0.41	3	-1.8181	0.0	0.0
Epn1	0.497348	2.94E-14	46.813	SPGAFDMSGVGGGS(0.007)LAES(0.(	4	0.93318	0.0	0.0
Epn1	0.487873	3.45E-53	95.195	TALPT(0.001)S(0.002)GS(0.022)S(	4	0.17316	0.0	0.0
Hnrnpk	0.30306	5.43E-124	126.36	IIPTEEGLQLPS(0.303)PT(0.303)A1	6	1.715	0.0	0.0
Hnrnpk	0.30306	5.43E-124	126.36	IIPTEEGLQLPS(0.303)PT(0.303)A1	6	1.715	0.0	0.0
Atp13a1	0.491814	3.59E-07	63.29	LGS(0.492)T(0.492)DLCY(0.016)IA	3	-0.65429	0.0	0.0
Dnm1	0.406156	1.60E-13	115.26	RS(0.995)PT(0.406)S(0.406)S(0.17	3	3.5254	0.0	0.0
LOC100911	0.333333	6.36E-05	45.614	VVVLMSG(0.333)T(0.333)S(0.333)	3	-2.0461	0.0	0.0
Rgs3	0.249873	2.37E-35	73.758	ESFSGQEAPGPES(0.25)PS(0.25)S	4	0.96322	0.0	0.0
Rgs3	0.365715	5.67E-59	92.886	GPCFASDRTLHCS(0.261)DGEGT(0.	4	-1.457	0.0	0.0
Prx	0.496108	1.87E-07	56.882	VT(0.496)S(0.496)GVKPS(0.003)GI	3	0.045423	0.0	0.0
Ccm2	0.464339	1.90E-78	124.51	AIFDGAS(0.464)T(0.464)PT(0.071)	4	-0.64952	0.0	0.0
Ccm2	0.301385	1.17E-10	50.752	AIFDGAS(0.301)T(0.301)PT(0.301)	5	-0.3337	0.0	0.0
Akap17a	0.318134	3.24E-16	67.928	TWSENMT(0.016)T(0.318)GS(0.31	4	0.14551	0.0	0.0
Rbm7	0.436195	0.000353545	67.879	S(0.31)FS(0.237)T(0.436)PEDY(0.0	2	-0.36329	0.0	0.0
Ephb2	0.429594	7.03E-20	76.82	FLEDDT(0.016)S(0.091)DPT(0.43)Y	3	-0.71009	0.0	0.0
Brsk1	0.492459	1.56E-25	72.99	ASPT(0.001)GT(0.013)PGT(0.492)T	3	-0.46355	0.0	0.0
Fam91a1	0.195128	1.41E-28	69.244	SPVQEAS(0.002)S(0.005)AT(0.195	5	0.36538	0.0	0.0
Fam91a1	0.195128	1.41E-28	69.244	SPVQEAS(0.002)S(0.005)AT(0.195	5	0.36538	0.0	0.0
Fam91a1	0.295019	4.27E-58	90.303	SPVQEASSAT(0.002)DT(0.025)DT(i	4	1.0563	0.0	0.0
Fam91a1	0.295019	4.27E-58	90.303	SPVQEASSAT(0.002)DT(0.025)DT(i	4	1.0563	0.0	0.0
Sh3bp5l	0.464431	2.58E-07	45.639	SPVEEPPGGGGGS(0.01)NS(0.062)S(	4	1.1455	0.0	0.0
Stim1	0.325222	7.90E-06	40.432	AMAEEDNGS(0.024)IGEET(0.325)I	3	1.4196	0.0	0.0
Klf16	0.498807	4.95E-91	108.72	GGPGVATAANTAGGT(0.499)S(0.4	3	1.3411	0.0	0.0
Nphp4	0.490688	8.78E-11	68.179	ALT(0.491)S(0.491)PS(0.006)GT(0.	3	0.82986	0.0	0.0
Prkd3	0.488976	2.85E-07	58.04	TIS(0.002)PS(0.02)T(0.489)S(0.48	3	-0.80735	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	722;704
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	488;470;488;488
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1229
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	99
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	280
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	231
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	233
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	463
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	420
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	118
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	120
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	639
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	776
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	232
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	520
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	741
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1051;1051
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	239
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	605
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	71
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	726
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	444
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	349
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	351
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	362
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	665
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	476
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	394;406

Slc25a46	0.357223	1.27E-09	52.465	S(0.284)FGS(0.357)GT(0.357)ELGF	4	0.26091	0.0	0.0
Fxr2	0.211071	5.00E-07	41.908	TGGPAY(0.006)GPS(0.064)S(0.064	3	0.80456	0.0	0.0
Fxr2	0.211071	5.00E-07	41.908	TGGPAY(0.006)GPS(0.064)S(0.064	3	0.80456	0.0	0.0
Kcmf1	0.162977	3.27E-13	44.953	TNTSS(0.001)VT(0.004)T(0.011)T(i	4	-0.11881	0.0	0.0
Kcmf1	0.162977	3.27E-13	44.953	TNTSS(0.001)VT(0.004)T(0.011)T(i	4	-0.11881	0.0	0.0
Kcmf1	0.220974	5.26E-39	73.791	TNTSS(0.001)VT(0.001)T(0.004)T(i	5	-0.21603	0.0	0.0
Kcmf1	0.220974	5.26E-39	73.791	TNTSS(0.001)VT(0.001)T(0.004)T(i	5	-0.21603	0.0	0.0
Kcmf1	0.220974	5.26E-39	73.791	TNTSS(0.001)VT(0.001)T(0.004)T(i	5	-0.21603	0.0	0.0
Ndel1	0.475525	0.00507368	43.604	S(0.001)APS(0.048)S(0.476)PT(0.4	3	-1.9166	0.0	0.0
Camk2g	0.499896	8.92E-63	109.65	SSSSVHLMEPQT(0.5)T(0.5)VVHNA	4	1.1188	0.0	0.0
R3hdm2	0.483375	4.92E-05	50.178	S(0.097)AS(0.417)T(0.483)DLGT(0	3	-0.38443	0.0	0.0
Gprasp1	0.414487	2.87E-06	62.861	EAYS(0.001)DVT(0.414)S(0.344)GS	2	-0.17005	0.0	0.0
Gprasp1	0.440945	3.05E-05	50.077	VES(0.441)T(0.441)S(0.11)GS(0.00	3	-0.06094	0.0	0.0
Pacs1	0.3174	4.00E-13	67.76	GS(0.048)LGKDT(0.317)T(0.317)S(	3	2.8904	0.0	0.0
Pacs1	0.3174	4.00E-13	67.76	GS(0.048)LGKDT(0.317)T(0.317)S(	3	2.8904	0.0	0.0
Pacs1	0.328567	2.44E-42	88.09	LKPFEGMSQS(0.014)S(0.329)S(0.	4	-0.0035831	0.0	0.0
Pacs1	0.293435	9.43E-12	43.873	VGLVEDS(0.003)PS(0.003)T(0.007	3	0.25688	0.0	0.0
Pacs1	0.333252	1.51E-20	59.755	VGLVEDS(0.001)PS(0.001)T(0.012	4	0.37151	0.0	0.0
Agt	0.430689	9.34E-11	50.271	STCAQLENPS(0.431)VET(0.431)LPI	3	-1.3533	0.0	0.0
Agt	0.333314	9.34E-11	50.271	STCAQLENPS(0.333)VET(0.333)LPI	6	-1.3956	0.0	0.0
Chd8	0.294895	9.66E-20	55.059	SQEMTTGGILGPGNHLLDS(0.295)P	4	0.060582	0.0	0.0
Xpo6	0.350009	5.40E-12	47.795	HS(0.001)VT(0.009)AAT(0.237)PPI	6	-0.021923	0.0	0.0
Phf12	0.413655	5.57E-07	45.137	TVQSQIGPS(0.05)LT(0.414)ES(0.41	3	0.42284	0.0	0.0
Uba2	0.199088	4.99E-13	40.286	SIANGS(0.001)DDGAQPS(0.199)T(	4	1.7715	0.0	0.0
Uba2	0.199088	4.99E-13	40.286	SIANGS(0.001)DDGAQPS(0.199)T(	4	1.7715	0.0	0.0
Camsap2	0.472452	7.81E-46	84.369	GALS(0.373)PIT(0.472)DT(0.143)T	3	0.008915	0.0	0.0
Camsap2	0.491745	1.66E-10	47.195	QAGLS(0.001)S(0.002)AAAPFS(0.1	4	-0.59884	0.0	0.0
Camsap2	0.414607	8.62E-09	46.415	QWNLT(0.037)S(0.133)PS(0.415)E	3	0.91465	0.0	0.0
Flna	0.490559	6.47E-41	108.08	IPEISIQDMT(0.007)AQVT(0.491)S(	3	-0.31629	0.0	0.0
Trak1	0.477436	7.52E-30	82.517	GELHS(0.002)GS(0.027)LT(0.477)P	4	-1.2024	0.0	0.0
Qrich1	0.257657	3.50E-35	74.321	GDPQQQSITHIAIPQEAY(0.227)NA'	6	-0.33466	0.0	0.0
C2cd5	0.422499	1.27E-40	109.44	SQS(0.011)ES(0.274)S(0.274)DEVT	3	0.78117	0.0	0.0
Camk1	0.468449	5.73E-19	55.314	LQLGT(0.01)S(0.029)QEGQGQT(0.	3	-0.23087	0.0	0.0
Camk1	0.402098	1.74E-54	88.241	MEDPGS(0.001)VLS(0.098)T(0.402	5	0.58515	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	37
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	453
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	457
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	268
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	273
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	276
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	279
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	200
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	367;367
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	873
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	342
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	294
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	426
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	427
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	411
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	774
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	778
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	52
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	57
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2212
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	673
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	577
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	579
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	586
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	938
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	854
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2171
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	433
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	348
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	632;657
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	177

Camk1	0.402098	1.81E-42	79.512	MEDPGS(0.001)VLS(0.098)T(0.402	5	0.58515	0.0	0.0
Nedd4l	0.400108	5.52E-10	50.865	S(0.074)LS(0.294)S(0.098)PT(0.4)\	3	1.6465	0.0	0.0
Hspa4l	0.499356	6.26E-05	49.141	T(0.499)S(0.499)FEEGT(0.001)GEC	3	3.0122	0.0	0.0
Tnrc6b	0.333272	2.58E-09	58.246	SSSSAGSEVGGQS(0.333)T(0.333)C	3	-0.23983	0.0	0.0
Ankib1	0.485379	7.33E-09	57.173	DFLSNEAS(0.01)LGAIGT(0.485)S(0	3	-1.24	0.0	0.0
Mast3	0.449392	0.000209235	44.925	GPSPS(0.001)LLS(0.099)T(0.449)IS	3	1.3689	0.0	0.0
Tnc	0.448994	7.11E-26	77.631	LPMGSQCS(0.001)VDLES(0.101)T(	3	-0.26186	0.0	0.0
Kank1	0.475431	1.07E-23	68.97	SHVTST(0.001)PIRPPAPLET(0.475	4	1.2918	0.0	0.0
Synm	0.227134	3.42E-06	44.238	DEQS(0.071)AS(0.227)T(0.227)S(0	3	0.59176	0.0	0.0
Synm	0.196547	8.58E-16	65.423	GFLTS(0.002)CY(0.167)S(0.197)S(C	5	1.0539	0.0	0.0
Synm	0.305881	8.35E-18	60.95	TFVLDSS(0.001)VAS(0.081)PGPGG	4	-1.0448	0.0	0.0
Synm	0.497416	2.42E-170	183.48	VTQGPVSATVEVT(0.497)S(0.497)F	4	-0.73614	0.0	0.0
Synm	0.347541	4.71E-170	183.48	VTQGPVSATVEVT(0.348)S(0.305)F	3	-0.97673	0.0	0.0
Dnm3	0.334017	0.000589823	44.734	RS(0.998)PPPS(0.334)PT(0.334)T(C	3	-0.15352	0.0	0.0
Dnm3	0.334017	0.000589823	44.734	RS(0.998)PPPS(0.334)PT(0.334)T(C	3	-0.15352	0.0	0.0
Atp8b2	0.438113	7.75E-27	83.751	RYPSSIS(0.074)S(0.39)S(0.097)PQI	5	-0.1338	0.0	0.0
Ampd1	0.232744	1.65E-07	45.885	LSHIEEFIS(0.233)S(0.233)S(0.233)I	3	1.0184	0.0	0.0
Gpr149	0.249548	3.25E-25	70.538	SKS(0.001)VGHEPNS(0.25)EES(0.2	4	-0.023415	0.0	0.0
Fnbp1	0.381878	2.77E-13	124.2	T(0.382)VS(0.303)DNS(0.482)LS(0	2	0.34562	0.0	0.0
Kif16b	0.478569	7.74E-16	60.735	TLLAQGNQIAL LDS(0.479)PT(0.479	4	0.84199	0.0	0.0
Scaf8	0.455905	7.12E-42	110.89	TSEPVKET(0.001)VQT(0.087)T(0.4	3	-1.1592	0.0	0.0
Lrrc47	0.49909	2.98E-117	134.42	STSENKEEDMLS(0.499)GT(0.499)E	4	-0.65656	0.0	0.0
Lrrc47	0.298961	2.74E-17	60.951	STSENKEEDMLS(0.299)GT(0.299)E	3	0.36845	0.0	0.0
Trim67	0.443276	4.61E-89	102.55	LVQPPPPAPPEAT(0.443)S(0.443)	5	-1.012	0.0	0.0
Map9	0.232379	3.38E-66	94.019	GGFTEDDLTT(0.001)DPLLS(0.232)	4	-0.24829	0.0	0.0
Map9	0.195483	2.79E-55	90.397	GGFTEDDLTT(0.009)DPLLS(0.195)	6	0.15111	0.0	0.0
Map9	0.470987	1.48E-17	64.52	HSFLES(0.006)ET(0.471)HPPWS(0.	3	-0.20444	0.0	0.0
Prex1	0.4979	2.35E-29	83.934	SNSSYLGS(0.004)DET(0.498)GS(0.	3	-0.9677	0.0	0.0
Ston2	0.440444	7.71E-33	78.752	KPNAPSAATAGPDVPFNS(0.119)T(I	4	-0.004509	0.0	0.0
Ston2	0.492905	1.35E-06	47.916	LDIS(0.003)S(0.011)LNRPPS(0.493	4	0.9926	0.0	0.0
Ppp6r1	0.447833	1.38E-20	60.146	T(0.448)S(0.448)PS(0.066)S(0.027	6	-0.37939	0.0	0.0
Synj1	0.340947	1.73E-33	83.467	T(0.341)S(0.341)PCQS(0.311)PT(0	4	-2.8777	0.0	0.0
Synj1	0.436194	1.53E-06	43.306	T(0.007)S(0.007)PCQS(0.253)PT(0	3	1.4975	0.0	0.0
Trim28	0.228918	2.93E-18	47.884	LAS(0.001)PS(0.002)GS(0.013)T(0.	4	1.4367	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	439
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	408
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	838
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	780
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	71
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1495;1193
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	408;408
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1435
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1104;1104
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1107;1107
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	765
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	766
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	635
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	92
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	608
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	294
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	400
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	615
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	520
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	522
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	260
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	334
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	630
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1185
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	268
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	301
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	692
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1048
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1055
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	612

Zyx	0.485458	8.65E-49	92.01	SVPLEAPS(0.005)S(0.022)VGT(0.44)	3	-0.46468	0.0	0.0
Pls3	0.288737	2.31E-15	55.051	EGICALGGT(0.021)S(0.076)ELS(0.2	3	2.7084	0.0	0.0
Brd4	0.324089	1.93E-17	58.858	EAPSPMLIHS(0.028)PQMPQFQS(0	4	0.48345	0.0	0.0
Brd4	0.333061	8.57E-10	53.625	MPDEPEEPVVT(0.333)VS(0.333)S(	3	1.0623	0.0	0.0
Esf1	0.49976	8.48E-10	81.632	DGAT(0.5)S(0.5)EEETELEK	3	-0.31002	0.0	0.0
Ppfibp2	0.361153	0.000175724	50.04	CS(0.278)S(0.361)PT(0.361)PGPPF	2	-0.6812	0.0	0.0
Wdr47	0.447045	1.79E-48	90.559	IS(0.001)DLGNKT(0.447)S(0.447)P	5	0.36443	0.0	0.0
Cacng7	0.495612	1.30E-05	64.82	YPDHLHIS(0.009)T(0.496)S(0.496)	3	0.23849	0.0	0.0
Stx17	0.352612	8.91E-107	123.41	S(0.353)T(0.353)T(0.295)IDGVHTC	4	-0.37828	0.0	0.0
Stx17	0.430358	6.83E-91	108.99	S(0.268)T(0.268)T(0.43)IDGVHT(0	3	0.50808	0.0	0.0
Dync1li1	0.308744	2.35E-08	45.489	TGSPGGPGVGGG(0.069)PGGGAAC	3	0.62055	0.0	0.0
Drgx	0.187601	1.57E-07	45.099	EHSEAVLQS(0.059)ANLLPS(0.188)	4	0.12027	0.0	0.0
Casc3	0.483541	4.60E-15	63.302	GTVTGERQS(0.033)GDGQES(0.484	3	-3.9813	0.0	0.0
Camsap3	0.279899	1.02E-31	71.117	AEAES(0.003)GT(0.011)GS(0.146)I	3	0.61793	0.0	0.0
Camsap3	0.279899	1.02E-31	71.117	AEAES(0.003)GT(0.011)GS(0.146)I	3	0.61793	0.0	0.0
Wipf3	0.2	3.08E-07	42.863	AAVAPPPPPLPGS(0.2)S(0.2)NS(0.2	5	0.39919	0.0	0.0
Arpp21	0.49958	8.58E-13	104.94	T(0.5)AS(0.5)FGGIT(0.001)VLTR	2	0.89908	0.0	0.0
Acot7	0.333248	5.46E-11	47.7	LIHSAPGLLDT(0.333)CS(0.333)QIP	6	-0.96748	0.0	0.0
Pde1c	0.499821	1.73E-18	71.905	RT(0.5)S(0.5)NMVGLSYPPAVIDALK	3	-1.7835	0.0	0.0
Hspa4	0.493225	0.00161885	41.996	AES(0.001)EEMET(0.493)S(0.493)C	3	-0.69795	0.0	0.0
Canx	0.439345	0.000110108	54.898	S(0.052)KS(0.052)DT(0.439)S(0.43	3	1.1663	0.0	0.0
Osbpl1a	0.497948	0.000445133	79.697	T(0.498)S(0.498)LPS(0.004)PMFSF	2	1.0167	0.0	0.0
Ip6k1	0.166594	1.46E-12	48.655	HVDMGLPEVPPLCGPS(0.167)T(0.1	5	-0.1712	0.0	0.0
Ip6k1	0.166594	1.46E-12	48.655	HVDMGLPEVPPLCGPS(0.167)T(0.1	5	-0.1712	0.0	0.0
Pi4ka	0.333901	1.13E-14	84.859	KT(0.334)S(0.242)S(0.334)VS(0.08	3	-0.16721	0.0	0.0
Pi4ka	0.492438	1.69E-38	81.532	YLTAS(0.005)QLVPPDNQDT(0.492	4	0.38093	0.0	0.0
Fam129a	0.301399	2.42E-05	42.791	HNFLFEDNMALPS(0.212)ES(0.212)\	5	0.40195	0.0	0.0
Mdc1	0.257172	7.32E-13	43.392	S(0.257)S(0.257)T(0.257)RT(0.224	4	-1.5978	0.0	0.0
Nup214	0.46159	8.74E-05	45.347	AAPAS(0.028)GT(0.462)PT(0.462)I	3	0.60933	0.0	0.0
Nup214	0.297684	6.51E-21	49.022	TGGFGAAPVFGS(0.103)PPT(0.298	4	-3.5594	0.0	0.0
Irs2	0.468478	8.74E-09	131.83	T(0.061)YS(0.468)LT(0.468)T(0.00	2	0.13014	0.0	0.0
Irs2	0.331979	3.02E-57	88.544	SSEGNLSILGGS(0.002)DEPS(0.332)T	4	0.13091	0.0	0.0
Hsf1	0.380827	2.37E-12	51.783	ESEPTPAAS(0.011)NT(0.034)APMI	4	0.4368	0.0	0.0
Hsf1	0.380827	2.37E-12	51.783	ESEPTPAAS(0.011)NT(0.034)APMI	4	0.4368	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	298
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	939
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	320
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	685
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	272
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	135
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	136
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	152
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	589;590
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	591;592
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	340
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	380
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	34
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	551
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	535
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	368
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	373
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	197
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1373
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	887
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	516
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1958
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	576
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1192
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353

Gng3	0.458211	1.13E-23	92.913	MKGETPVNS(0.083)T(0.458)MS(0.	3	-0.93485	0.0	0.0
Stk10	0.49417	2.87E-05	52.567	LS(0.001)EEAET(0.279)RPT(0.494)	3	2.0145	0.0	0.0
Elmsan1	0.442425	0.000261822	42.314	S(0.002)FELPPY(0.384)T(0.442)PPI	3	0.89688	0.0	0.0
G3bp1	0.493709	1.57E-05	43.208	NLPPS(0.013)GAVPVT(0.494)GT(0	4	1.129	0.0	0.0
Pou2f1	0.15568	2.07E-08	40.064	WLNDAENLS(0.057)S(0.156)DS(0.	3	1.8015	0.0	0.0
Gpr158	0.46369	0.000471293	60.691	KYS(0.146)NS(0.373)DNT(0.464)E	3	-1.3943	0.0	0.0
Son	0.287796	1.02E-49	82.808	VLEPS(0.001)ET(0.009)LT(0.028)IV	4	0.66597	0.0	0.0
Son	0.287796	1.02E-49	82.808	VLEPS(0.001)ET(0.009)LT(0.028)IV	4	0.66597	0.0	0.0
Son	0.166497	1.02E-49	82.808	VLEPSETLT(0.001)IVS(0.166)ET(0.1	5	0.66753	0.0	0.0
Pcnx	0.333801	0.00411294	54.286	T(0.332)T(0.334)S(0.334)AHKPGR	3	1.5223	0.0	0.0
Map3k2	0.179309	5.41E-08	44.164	SPVSFSPT(0.001)DHS(0.005)LS(0.C	4	-1.865	0.0	0.0
Fry	0.431218	2.73E-06	45.916	AST(0.001)PEIMAT(0.431)T(0.431)	3	-1.6713	0.0	0.0
Fry	0.431218	2.73E-06	45.916	AST(0.001)PEIMAT(0.431)T(0.431)	3	-1.6713	0.0	0.0
Fry	0.405795	4.40E-42	108.14	S(0.021)AS(0.081)S(0.406)T(0.406	3	-0.27348	0.0	0.0
LOC100911	0.381143	4.52E-08	45.992	DIT(0.001)DPLS(0.032)LNT(0.381)	4	0.74438	0.0	0.0
LOC100911	0.381143	4.52E-08	45.992	DIT(0.001)DPLS(0.032)LNT(0.381)	4	0.74438	0.0	0.0
Gatad2a	0.491394	2.23E-53	96.848	EATAQKPTASSGS(0.002)T(0.015)V	3	-0.70484	0.0	0.0
Gatad2a	0.491394	2.23E-53	96.848	EATAQKPTASSGS(0.002)T(0.015)V	3	-0.70484	0.0	0.0
Zc3h13	0.432507	0.00927532	40.767	T(0.433)S(0.433)CHT(0.135)PGQE	3	-0.028437	0.0	0.0
Cdk5rap2	0.328809	2.03E-14	79.346	AAHPGT(0.329)S(0.329)S(0.329)P	3	0.24962	0.0	0.0
Ptpn13	0.499675	2.23E-21	106.6	AIS(0.5)T(0.5)GS(0.001)LASSTFNK	3	-0.57185	0.0	0.0
Gnl3	0.499093	3.46E-33	81.884	KLEISPDDEQS(0.499)NVET(0.499)(	4	-0.39899	0.0	0.0
Birc6	0.46793	1.30E-06	90.861	S(0.064)DS(0.468)VT(0.468)GHTS(	2	0.1024	0.0	0.0
Birc6	0.499766	0.00430065	42.518	S(0.208)PAT(0.5)S(0.291)PIS(0.00	3	-0.20195	0.0	0.0
Srp72	0.269948	5.96E-16	58.812	T(0.019)VS(0.065)S(0.2)PPT(0.452	4	2.0967	0.0	0.0
Lrp1	0.49895	0.000500071	56.02	HS(0.002)LAS(0.499)T(0.499)DEKF	4	-0.84401	0.0	0.0
Psip1	0.249961	1.45E-22	65.428	QSNASSDVEAEEKET(0.25)S(0.25)V	4	-1.0539	0.0	0.0
Tle1	0.286776	0.000105052	43.208	DAS(0.002)GS(0.017)PAS(0.287)T(	2	0.93736	0.0	0.0
Top2b	0.473491	7.02E-24	66.88	VKAS(0.311)PIT(0.473)NDGEDEFV	4	0.51324	0.0	0.0
Mtmr10	0.498179	0.000400858	52.576	IWLS(0.498)T(0.498)ET(0.004)LAN	2	-0.95161	0.0	0.0
Ngfr	0.329346	1.53E-07	58.885	ADIVESLCS(0.001)ES(0.011)T(0.32	2	-1.1689	0.0	0.0
Ngfr	0.329346	1.53E-07	58.885	ADIVESLCS(0.001)ES(0.011)T(0.32	2	-1.1689	0.0	0.0
Aldoa	0.32165	5.88E-09	45.941	T(0.002)VPPAVPGVT(0.322)FLS(0.	4	2.484	0.0	0.0
Pitpnc1	0.450835	1.91E-10	48.616	SAPS(0.001)S(0.002)APS(0.01)T(0.	3	0.96669	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	10
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	963
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	647
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	266
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	525
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	322
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	556
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	945
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	946
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2368
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	220
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	184
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	185
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1700
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1786
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	902
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	569
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4525
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	183
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1390
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	682
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	420
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	422
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	269
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	282



Mia3	0.437094	0.00265061	40.211	S(0.012)ET(0.114)T(0.437)S(0.437	3	0.26023	0.0	0.0
Dgkh	0.482458	0.000304726	78.903	KVS(0.482)T(0.482)S(0.035)GQIR	3	-0.78149	0.0	0.0
RGD15620	0.491776	0.00151063	41.227	DQQT(0.012)QT(0.492)S(0.492)FP	3	-1.1348	0.0	0.0
RGD15620	0.477096	3.77E-09	56.681	GLS(0.477)T(0.477)PNFPS(0.046)L	3	2.6029	0.0	0.0
Epb41l2	0.499664	1.81E-15	58.565	VT(0.5)EGT(0.5)IREEQEY(0.001)EE	4	1.2599	0.0	0.0
Epb41l2	0.333226	1.71E-06	40.622	VTPLSCQILAS(0.333)S(0.333)HET((	4	0.17583	0.0	0.0
Pcxl3	0.353036	0.0228373	55.721	T(0.257)PS(0.353)T(0.353)AS(0.03	2	0.34429	0.0	0.0
LOC10036	0.499803	8.49E-09	60.307	FQSVQIQAT(0.5)LS(0.5)PPLQTK	4	-0.14031	0.0	0.0
Alpk1	0.49966	5.63E-30	85.563	SSFGLSLT(0.001)GQT(0.5)S(0.5)QEI	3	-0.57083	0.0	0.0
Fam102a	0.426366	2.14E-22	76.176	GGGTSSGGS(0.001)S(0.019)S(0.42	3	-0.26309	0.0	0.0
Lpar5	0.332845	5.15E-16	65.184	GELT(0.001)EPPS(0.333)ES(0.333)	3	1.1522	0.0	0.0
Phactr4	0.24954	6.68E-12	50.413	TVSLCLEPPLT(0.25)IPPS(0.25)S(0.2	4	0.53981	0.0	0.0
Phf6	0.284497	7.42E-06	52.19	S(0.284)T(0.284)S(0.244)S(0.187)†	3	-0.13054	0.0	0.0
Ube2o	0.293937	9.24E-12	49.707	EEPEDVGMT(0.294)PGEAS(0.294)	4	0.14962	0.0	0.0
Ube2o	0.495829	2.26E-70	121.25	NMT(0.001)VEQLLT(0.496)GS(0.49	4	2.1944	0.0	0.0
Ube2o	0.495833	3.23E-53	92.565	NMT(0.001)VEQLLT(0.496)GS(0.49	4	2.1944	0.0	0.0
RGD13100	0.323512	3.77E-59	93.949	AIGSGES(0.004)ET(0.324)PPS(0.32	3	1.6616	0.0	0.0
RGD13100	0.323512	3.77E-59	93.949	AIGSGES(0.004)ET(0.324)PPS(0.32	3	1.6616	0.0	0.0
Glcc1	0.354691	2.86E-18	70.345	RT(0.355)S(0.355)S(0.265)LDT(0.0	3	0.48533	0.0	0.0
Ablim2	0.489111	6.02E-49	118.37	T(0.489)S(0.489)S(0.022)ESIVSVP/	3	0.34713	0.0	0.0
Ablim2	0.476581	3.47E-10	46.63	S(0.426)T(0.477)PS(0.049)LS(0.04	4	0.44577	0.0	0.0
Disp2	0.325782	4.49E-20	64.522	DLLLDHQTVFS(0.004)QCPALQT(0.	4	2.3919	0.0	0.0
Il6st	0.466128	7.57E-43	81.831	S(0.037)ES(0.466)T(0.466)QPLLDS	3	0.64257	0.0	0.0
Mylk	0.349642	1.97E-07	59.15	S(0.285)S(0.285)T(0.35)GS(0.064)†	3	1.1401	0.0	0.0
Dhx57	0.492177	0.00158814	46.844	NVRDT(0.492)S(0.492)PET(0.016)(	2	-0.50075	0.0	0.0
Dopey2	0.412526	8.89E-07	44.054	NIFAAS(0.038)LT(0.413)VS(0.413)†	4	-0.43894	0.0	0.0
Limch1	0.493323	5.58E-36	100.76	S(0.013)HS(0.493)T(0.493)EPNVSS	3	-0.26012	0.0	0.0
Spata13	0.39994	0.000281827	62.68	RT(0.4)S(0.4)S(0.081)S(0.12)VEPD.	3	0.8423	0.0	0.0
Arhgap21	0.489078	0.00249958	44.193	QQT(0.066)S(0.089)T(0.356)PVL(T	2	-0.1689	0.0	0.0
Ablim3	0.438685	6.83E-06	44.683	RT(0.439)S(0.439)ET(0.057)S(0.05	3	-0.33745	0.0	0.0
Zfyve16	0.165148	1.23E-12	47.319	SNHSNECVT(0.004)AQPLQET(0.16	6	-1.3343	0.0	0.0
Zfyve16	0.165148	1.23E-12	47.319	SNHSNECVT(0.004)AQPLQET(0.16	6	-1.3343	0.0	0.0
Zfyve16	0.165148	1.23E-12	47.319	SNHSNECVT(0.004)AQPLQET(0.16	6	-1.3343	0.0	0.0
Synpo2	0.157638	2.09E-18	50.224	ASSVYSVPAY(0.046)T(0.158)S(0.15	4	-0.66826	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	780
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	54
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	563
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	902
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	754;684;782
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	678
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	494
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	196
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	951
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	188
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	336
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1151
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	794
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	798
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	991
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	995
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	54
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	398;461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	782
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1808
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	303
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	647
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	313;304
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	276
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	845
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	847
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	854
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1030

Synpo2	0.157638	2.09E-18	50.224	ASSVYSVPAY(0.046)T(0.158)S(0.15	4	-0.66826	0.0	0.0
Ddx20	0.451874	2.17E-24	95.264	AAMHTYSS(0.002)PS(0.008)IS(0.4	4	-1.4096	0.0	0.0
Plekhn2	0.434803	1.22E-06	96.059	STAS(0.09)DLT(0.435)S(0.435)S(0.	2	0.024838	0.0	0.0
Trip11	0.229835	1.80E-10	50.255	LDS(0.001)MS(0.004)PQLS(0.23)P	3	2.2174	0.0	0.0
Srgap1	0.423006	1.65E-15	63.225	NS(0.001)PT(0.009)PAT(0.113)S(0	3	-1.1302	0.0	0.0
Srgap1	0.302674	1.30E-19	75.224	S(0.303)T(0.303)S(0.303)S(0.073)S	4	-0.018198	0.0	0.0
Srgap1	0.380265	3.90E-06	40.616	S(0.033)T(0.033)S(0.259)S(0.096)S	3	-1.8958	0.0	0.0
Nop2	0.430289	3.33E-13	65.855	LS(0.067)S(0.184)PT(0.317)T(0.43	4	0.15565	0.0	0.0
Tmem151l	0.499795	0.0140516	52.725	HGS(0.001)CVET(0.5)S(0.499)L	2	-0.21915	0.0	0.0
Tns1	0.365322	3.12E-15	60.382	RAASDGQYENQS(0.041)PEAT(0.36	3	1.1327	0.0	0.0
Tns1	0.466265	3.91E-27	80.596	EAFEEMEGT(0.466)S(0.466)PS(0.0	3	-0.10322	0.0	0.0
Tns1	0.488175	5.39E-71	103.84	HPVGSHQVPLHSGVVT(0.488)T(0	5	0.44852	0.0	0.0
Tns1	0.488175	5.39E-71	103.84	HPVGSHQVPLHSGVVT(0.488)T(0	5	0.44852	0.0	0.0
Tns1	0.123786	3.23E-31	64.221	NGTPGGSFVS(0.001)PS(0.004)PLS	4	-1.7492	0.0	0.0
Tns1	0.123786	3.23E-31	64.221	NGTPGGSFVS(0.001)PS(0.004)PLS	4	-1.7492	0.0	0.0
Tns1	0.191337	4.61E-24	57.783	QSSASGY(0.002)QAPS(0.074)T(0.1	4	0.38815	0.0	0.0
Tns1	0.169776	3.77E-32	70.718	VSSSPVANGMAS(0.17)PS(0.17)GS	3	0.57263	0.0	0.0
Mtss1l	0.197732	1.74E-12	48.655	LSSVSSHDS(0.002)GFVS(0.198)QD	4	0.82938	0.0	0.0
Atg16l2	0.39546	2.77E-06	89.858	S(0.242)AS(0.18)AT(0.395)S(0.158	2	0.24545	0.0	0.0
Ccny	0.30777	8.72E-11	61.52	YS(0.005)S(0.092)CS(0.106)T(0.09	2	1.4248	0.0	0.0
Phldb1	0.199834	1.32E-07	45.042	SDEENLKEECS(0.2)S(0.2)T(0.2)ES(C	4	-0.71908	0.0	0.0
Phldb1	0.199834	1.32E-07	45.042	SDEENLKEECS(0.2)S(0.2)T(0.2)ES(C	4	-0.71908	0.0	0.0
Phldb1	0.437831	6.41E-05	42.314	T(0.438)RS(0.438)PS(0.117)PT(0.0	3	0.029983	0.0	0.0
Bcor1l	0.444259	2.88E-06	49.125	S(0.009)S(0.009)KS(0.105)PT(0.44	4	-0.91266	0.0	0.0
Ranbp2	0.290919	1.48E-15	67.217	QNQPTSAVSAPAS(0.026)S(0.101)E	3	0.9019	0.0	0.0
Cdk6	0.210674	2.68E-11	56.017	YKDNLHS(0.001)HLS(0.04)S(0.169	4	0.35536	0.0	0.0
Ankrd50	0.484111	2.32E-23	68.074	YGASSLNGCS(0.031)PS(0.484)PVH	4	1.0199	0.0	0.0
Flnc	0.490624	0.000119539	44.788	QAPS(0.028)IAT(0.491)IGS(0.241)	3	0.28018	0.0	0.0
Cpne6	0.390873	3.88E-17	60.194	QVVEYYAS(0.001)QGIS(0.063)PGA	4	0.35922	0.0	0.0
Cpne6	0.261922	3.30E-08	45.14	QVVEYYAS(0.004)QGIS(0.234)PGA	4	-1.3656	0.0	0.0
Lima1	0.43197	7.50E-17	58.565	GENEETLGRPAQPPS(0.136)AGET(C	3	0.075683	0.0	0.0
Gramd1b	0.47455	5.13E-43	96.012	VPHLEEVMS(0.005)PVT(0.475)T(0	4	0.30311	0.0	0.0
Gramd1b	0.449187	4.73E-09	49.768	VPHLEEVMS(0.041)PVT(0.449)T(0	4	-0.031128	0.0	0.0
Gramd1b	0.327016	4.73E-09	49.768	VPHLEEVMS(0.019)PVT(0.327)T(0	4	-0.8158	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1040
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	469
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	256
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1317
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	943
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	965
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	971
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	745
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	559
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1085
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1133
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1417
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1418
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1231
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1241
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1502
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1580
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	299;310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	174
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	110
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	698;755
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	701;758
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	517;574
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1457
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1640
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	325
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	548
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	552
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	485
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	578
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	579
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	581

Fcho2	0.245162	1.45E-16	59.372	LSGINEIPRPFS(0.019)PPIT(0.245)S	5	0.71722	0.0	0.0
Coro7	0.133613	3.35E-32	69.075	ADTELSEGF(0.003)S(0.011)PS(0.1	4	0.10728	0.0	0.0
Coro7	0.3292	1.06E-18	49.06	ADTELSEGF(0.001)S(0.001)PS(0.0	4	0.34985	0.0	0.0
MAST1	0.489606	5.70E-19	73.831	EAAQGEGT(0.125)S(0.386)T(0.49)	3	-1.8183	0.0	0.0
MAST1	0.499701	4.16E-17	80.361	HFGS(0.5)T(0.5)ES(0.001)ITDEDG	3	0.65084	0.0	0.0
MAST1	0.332459	1.20E-09	45.983	S(0.002)LILT(0.332)S(0.332)T(0.33	6	2.253	0.0	0.0
MAST1	0.451837	1.16E-11	49.087	S(0.001)LILT(0.02)S(0.168)T(0.452	5	3.0609	0.0	0.0
Rab11fip1	0.245522	9.74E-23	62.57	NKDNTSDTAS(0.002)AIVPS(0.246)	3	-1.3326	0.0	0.0
Rab11fip1	0.245522	9.74E-23	62.57	NKDNTSDTAS(0.002)AIVPS(0.246)	3	-1.3326	0.0	0.0
Ptpn23	0.451967	1.40E-24	65.766	GAAAADLLS(0.015)S(0.051)S(0.03	3	-0.2958	0.0	0.0
Nek1	0.297388	4.91E-06	42.716	EVGLDGS(0.011)LT(0.297)ES(0.297	4	-0.90642	0.0	0.0
Nek1	0.297388	4.91E-06	42.716	EVGLDGS(0.011)LT(0.297)ES(0.297	4	-0.90642	0.0	0.0
Sgsm1	0.398766	2.15E-43	85.013	SPQGSS(0.001)ES(0.061)T(0.399)S	4	-0.31867	0.0	0.0
Naca	0.301355	5.00E-07	42.863	S(0.001)PAAPT(0.003)T(0.008)AN,	4	0.64865	0.0	0.0
Naca	0.249933	4.92E-35	73.239	VQGEAVSNIQENT(0.25)QT(0.25)P	4	-0.32323	0.0	0.0
Naca	0.332394	8.04E-134	132.6	VQGEAVSNIQENT(0.003)QT(0.332	5	0.12389	0.0	0.0
Naca	0.461109	8.04E-134	132.6	VQGEAVSNIQENT(0.177)QT(0.177	4	1.6317	0.0	0.0
Ppp2r5b	0.234288	7.94E-08	43.556	LPPAS(0.007)T(0.038)PT(0.234)S(C	4	0.95575	0.0	0.0
Map7	0.36222	1.90E-16	67.586	S(0.362)KS(0.273)T(0.362)AALS(0.	4	0.22682	0.0	0.0
Sf3b2	0.319149	9.74E-10	60.062	SSLGQSAS(0.004)ET(0.319)EEDT(C	3	-0.028424	0.0	0.0
Atxn2l	0.49584	6.36E-10	59.574	EKEVDGLLT(0.496)S(0.496)DPMG(S	3	1.2422	0.0	0.0
Cd2ap	0.472129	0.000821885	52.5	T(0.007)RT(0.472)S(0.472)S(0.035	2	-0.29875	0.0	0.0
Erc1	0.446516	4.66E-13	64.589	T(0.04)NS(0.447)T(0.447)GGS(0.0	3	0.17347	0.0	0.0
LOC100911	0.496326	6.21E-09	47.75	YLSFT(0.006)PPEKDGFP(0.496)G	4	1.0006	0.0	0.0
Sqstm1	0.462453	7.20E-48	119.43	S(0.003)RLT(0.462)PT(0.462)S(0.0	3	0.1716	0.0	0.0
Tbx3	0.4916	4.16E-06	51.688	ASPDS(0.008)RHS(0.492)PAT(0.49	4	-1.2299	0.0	0.0
Ehd3	0.418611	0.000167095	43.841	DKPMY(0.002)DEIFY(0.245)T(0.41	3	-2.8027	0.0	0.0
Rangap1	0.186563	1.29E-32	71.67	ILDPNSEGPAPVLS(0.187)S(0.187)F	4	1.0558	0.0	0.0
Rangap1	0.186563	1.29E-32	71.67	ILDPNSEGPAPVLS(0.187)S(0.187)F	4	1.0558	0.0	0.0
Nfatc1	0.25	7.68E-16	55.986	VEPAGEDLGT(0.25)T(0.25)PPT(0.2	4	1.7814	0.0	0.0
Nfatc1	0.25	7.68E-16	55.986	VEPAGEDLGT(0.25)T(0.25)PPT(0.2	4	1.7814	0.0	0.0
Nfatc1	0.25	7.68E-16	55.986	VEPAGEDLGT(0.25)T(0.25)PPT(0.2	4	1.7814	0.0	0.0
Plekha5	0.32971	3.75E-07	40.456	VSDQT(0.001)MHS(0.006)IPT(0.33	4	-0.0028018	0.0	0.0
LOC100911	0.482694	9.94E-33	98.508	EGT(0.002)GS(0.01)T(0.01)ATSSS(I	3	-2.4714	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	537
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	437
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	453
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	851
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	140
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	40
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	42
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	199
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	200
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1161
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	644
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	649
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	405
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1619
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2105
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2107
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2109
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	12
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	585
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	231
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	154
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	431
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	435
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	361
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	362
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	365
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	18

Mkl2	0.174685	2.77E-07	43.696	VASHEDS(0.051)LS(0.175)PT(0.17!	4	-0.2295	0.0	0.0
Mkl2	0.174685	2.77E-07	43.696	VASHEDS(0.051)LS(0.175)PT(0.17!	4	-0.2295	0.0	0.0
Aspscr1	0.415359	9.85E-11	62.203	S(0.075)S(0.075)T(0.415)S(0.415)F	4	1.0232	0.0	0.0
Lrch3	0.445502	6.98E-20	55.645	SNDRVDTV(0.006)S(0.007)S(0.007	4	1.5134	0.0	0.0
Lrch3	0.352354	1.67E-19	61.586	VDVT(0.012)S(0.034)S(0.034)FPM	4	0.94057	0.0	0.0
Fam124a	0.410563	1.80E-11	46.412	KPHSAPPAAIDT(0.411)PNT(0.411)	6	0.94009	0.0	0.0
Fam124a	0.410563	1.80E-11	46.412	KPHSAPPAAIDT(0.411)PNT(0.411)	6	0.94009	0.0	0.0
Dock5	0.321046	1.13E-06	40.622	LTPFHS(0.008)PS(0.024)PLQS(0.32	3	0.94044	0.0	0.0
Vat1l	0.249998	1.14E-91	109.44	TPTPLMANDS(0.25)T(0.25)ET(0.25	4	-0.65973	0.0	0.0
Vat1l	0.249998	1.14E-91	109.44	TPTPLMANDS(0.25)T(0.25)ET(0.25	4	-0.65973	0.0	0.0
Sash1	0.499831	1.01E-08	49.141	KPS(0.5)T(0.5)EGGEEHVFESPPVQ[	4	-0.12532	0.0	0.0
Sash1	0.332061	1.10E-12	51.758	YSSPVTEQDS(0.11)GLDGT(0.332)P	5	0.94385	0.0	0.0
Epb41l2	0.440469	2.66E-11	55.453	VTPLLAEGKS(0.119)S(0.44)HET(0.4	4	0.25871	0.0	0.0
Rnf169	0.457824	0.0172954	40.676	S(0.019)QS(0.214)CS(0.31)DT(0.45	2	-0.21865	0.0	0.0
LOC68359	0.462717	3.14E-22	63.203	RKS(0.368)T(0.463)AS(0.142)PVPC	4	0.045617	0.0	0.0
LOC10036	0.347014	1.32E-10	51.473	NTGVSS(0.001)ASRPS(0.003)PGT(I	5	-0.34676	0.0	0.0
Pkp4	0.257599	1.80E-10	47.937	TEPEQGALY(0.225)S(0.258)PEQT(I	4	0.13779	0.0	0.0
Rab11fip5	0.496062	4.49E-19	53.175	EEGVNS(0.008)ELEELHRLPS(0.496	4	1.8267	0.0	0.0
Atf7ip	0.405847	5.25E-43	96.016	NKQEDLNSEALS(0.094)PS(0.406)IT	4	-0.16196	0.0	0.0
Itsn2	0.196797	2.36E-58	104.81	AQSLIDLGSS(0.002)S(0.01)S(0.197	3	-0.057239	0.0	0.0
Itsn2	0.196797	2.36E-58	104.81	AQSLIDLGSS(0.002)S(0.01)S(0.197	3	-0.057239	0.0	0.0
Micall1	0.45392	0.00106409	40.278	SLHPWY(0.016)NIT(0.255)PT(0.45	3	-1.6448	0.0	0.0
Rbms3	0.222575	2.49E-24	68.434	QSYAPAPHPMAPPS(0.223)PS(0.22	4	0.26575	0.0	0.0
Ranbp3	0.454153	2.01E-17	59.37	VPQKT(0.31)PS(0.107)GGS(0.128)	5	1.0263	0.0	0.0
Gigyf2	0.441904	5.58E-09	58.246	ALSSGGS(0.007)IT(0.442)S(0.442)I	3	-1.1443	0.0	0.0
Kif1a	0.494296	2.65E-25	70.168	DPSMSPLGAAT(0.494)LT(0.494)PS	3	0.15752	0.0	0.0
Kif1a	0.494296	2.65E-25	70.168	DPSMSPLGAAT(0.494)LT(0.494)PS	3	0.15752	0.0	0.0
Ythdc2	0.463747	1.18E-11	92.38	RS(0.29)T(0.464)DDRS(0.246)DQS	3	-0.10415	0.0	0.0
LOC10091	0.384787	5.08E-17	55.9	ADPVLLNNHS(0.002)NLKPAPT(0.3	5	-0.98128	0.0	0.0
LOC10091	0.366633	2.00E-66	96.793	ADPVLLNNHSNLKPAPT(0.002)VPA	5	-1.6382	0.0	0.0
LOC10091	0.282825	1.01E-12	53.091	ADPVLLNNHSNLKPAPT(0.018)VPA	6	0.4737	0.0	0.0
Bcl9	0.422872	4.81E-09	58.712	S(0.053)S(0.053)T(0.218)PS(0.253	3	0.73355	0.0	0.0
Rbm15b	0.254084	7.61E-11	44.31	SSSS(0.001)S(0.003)AAAS(0.254)T	6	0.97251	0.0	0.0
Rbm15b	0.254084	7.61E-11	44.31	SSSS(0.001)S(0.003)AAAS(0.254)T	6	0.97251	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	539
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	542
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	529
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	531
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	311
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1785
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	391
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	393
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	283
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	480
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	608
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	149
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	698
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	459
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	851
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	221
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	224
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	334
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	42
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	173
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1509
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1511
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1198
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	83
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	93
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	94
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	87
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	234
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241

Nufip2	0.377459	4.00E-18	75.911	GADNDGSGSES(0.039)GY(0.206)T	3	0.78239	0.0	0.0
Nufip2	0.377459	4.00E-18	75.911	GADNDGSGSES(0.039)GY(0.206)T	3	0.78239	0.0	0.0
Nufip2	0.316012	1.04E-58	94.834	TVQNS(0.002)S(0.008)VS(0.113)P	3	0.078358	0.0	0.0
Arhgap23	0.415822	7.51E-66	95.319	VAPLAT(0.001)T(0.002)EDS(0.036)	5	-1.265	0.0	0.0
Hmgn1	0.287064	1.23E-12	50.464	QAEVADQQT(0.287)T(0.237)DLPA	5	-1.491	0.0	0.0
Mlxip	0.466739	3.10E-09	42.669	SVLLKPQVPEDDDDS(0.467)DT(0.4	4	-0.55622	0.0	0.0
Dync1i2	0.366902	2.49E-48	90.762	EAEALLQS(0.004)MGLT(0.367)T(0	4	-2.9123	0.0	0.0
Dync1i2	0.33078	2.49E-48	90.762	EAEALLQSMGLT(0.331)T(0.331)DS	4	-0.13338	0.0	0.0
Chgb	0.362082	8.12E-59	119.76	NHPDSELES(0.362)T(0.362)ANRHS	4	-0.097411	0.0	0.0
Arhgap17	0.4	8.19E-07	40.533	LGEQGPEPGPT(0.4)PPQT(0.4)PT(0	5	-0.64999	0.0	0.0
Arhgap17	0.44404	1.58E-22	64.845	LGEQGPEPGPT(0.029)PPQT(0.444	4	0.19557	0.0	0.0
Arhgap17	0.44404	1.58E-22	64.845	LGEQGPEPGPT(0.029)PPQT(0.444	4	0.19557	0.0	0.0
Arhgap17	0.4	8.19E-07	40.533	LGEQGPEPGPT(0.4)PPQT(0.4)PT(0	5	-0.64999	0.0	0.0
Plekha4	0.216559	3.37E-42	95.205	S(0.001)S(0.001)LS(0.003)LT(0.00	4	-1.1338	0.0	0.0
Hp1bp3	0.489124	3.52E-150	153.02	LAEGEEEKPEPDGSSEES(0.019)IS(0	4	0.88924	0.0	0.0
Ppfia3	0.195116	2.74E-16	59.628	SSCSLPPS(0.005)LT(0.195)T(0.195	4	0.92325	0.0	0.0
Ppfia3	0.294974	1.65E-47	79.382	SSCSLPPS(0.001)LT(0.071)T(0.295	3	0.28458	0.0	0.0
Ppfia3	0.294974	1.65E-47	79.382	SSCSLPPS(0.001)LT(0.071)T(0.295	3	0.28458	0.0	0.0
Epb41l1	0.473818	8.66E-27	68.046	AQEET(0.005)PQQPEAAAAVT(0.47	5	-0.36572	0.0	0.0
Epb41l1	0.473818	8.66E-27	68.046	AQEET(0.005)PQQPEAAAAVT(0.47	5	-0.36572	0.0	0.0
Macf1	0.479786	1.62E-42	80.117	RQQHEQLTEAAQGILT(0.48)GPGDV	4	0.52186	0.0	0.0
Frmd6	0.472376	3.05E-06	62.469	GQS(0.303)T(0.472)DS(0.158)LPQ	2	-0.93892	0.0	0.0
Snx16	0.422066	1.35E-11	49.095	DTEEQHPDALNWEDRPS(0.422)T(C	4	1.3358	0.0	0.0
Myo9b	0.443806	3.50E-13	66.467	KAS(0.332)LET(0.444)GES(0.157)F	4	0.029569	0.0	0.0
Marcks	0.323012	1.52E-23	66.925	EAAEAEPAPGS(0.323)PS(0.323)A	4	-0.47119	0.0	0.0
Hdac4	0.415174	1.69E-30	62.853	EGSVAPLPLY(0.01)T(0.035)S(0.11	4	-0.14484	0.0	0.0
Maged2	0.296933	1.30E-59	95.519	APEASEAAATQAS(0.297)PT(0.297)	3	-0.28078	0.0	0.0
Maged2	0.296933	1.30E-59	95.519	APEASEAAATQAS(0.297)PT(0.297)	3	-0.28078	0.0	0.0
Maged2	0.199317	4.52E-11	48.025	APEASEAAAT(0.003)QAS(0.199)PT	4	1.26	0.0	0.0
Fam168b	0.264229	1.19E-22	62.032	VS(0.041)CS(0.128)PT(0.264)S(0.2	4	0.29858	0.0	0.0
Trpm7	0.495405	9.54E-05	53.516	FS(0.003)VS(0.471)T(0.495)PS(0.0	3	0.35506	0.0	0.0
Trpm7	0.499759	3.33E-16	105.53	RAS(0.5)T(0.5)EDSPDVDSR	3	-0.093445	0.0	0.0
Trpm7	0.419956	8.87E-08	60.529	T(0.42)PT(0.42)S(0.142)LHS(0.018	3	-0.48367	0.0	0.0
Trpm7	0.419956	8.87E-08	60.529	T(0.42)PT(0.42)S(0.142)LHS(0.018	3	-0.48367	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	220
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	377
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	35
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	70
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	71
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	392
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	742
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	746
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	748
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	752
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	18;18;18
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	77
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	659
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	660
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	662
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	29;29
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	30;30
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4602;4544
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	515
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	109
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	118
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	327
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	86
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	87
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	92
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	65
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1404
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1502
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1485
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1487

Scaf11	0.333478	9.70E-19	69.935	FHS(0.235)PS(0.333)T(0.333)T(0.0	4	1.1403	0.0	0.0
Sbf1	0.446733	2.58E-22	89.859	S(0.368)T(0.447)S(0.084)T(0.102)I	3	-1.341	0.0	0.0
Triobp	0.496552	0.000279991	50.305	T(0.006)VRPT(0.497)S(0.497)APD\	3	1.5346	0.0	0.0
Smarca1	0.402855	0.00960006	56.404	S(0.194)PT(0.403)S(0.403)PLNMK	2	-0.26298	0.0	0.0
Ralgapb	0.499361	0.000139936	43.794	LSMPQS(0.001)AAVNT(0.499)T(0.	3	0.87855	0.0	0.0
Ralgapb	0.32977	7.07E-08	44.6	T(0.007)NS(0.018)GIS(0.223)S(0.2	3	-0.71345	0.0	0.0
Ralgapb	0.391388	4.75E-16	58.945	TNSGISS(0.001)AS(0.009)GGS(0.0!	3	-2.0265	0.0	0.0
Ralgapb	0.391388	4.75E-16	58.945	TNSGISS(0.001)AS(0.009)GGS(0.0!	3	-2.0265	0.0	0.0
Ralgapb	0.441209	1.33E-58	120.9	VQHQAS(0.02)S(0.097)T(0.441)S(C	3	0.22166	0.0	0.0
Numa1	0.476569	3.26E-07	98.811	ATS(0.014)S(0.477)T(0.477)QS(0.C	2	1.1326	0.0	0.0
Fam21c	0.493871	2.51E-33	78.913	T(0.494)S(0.494)PDS(0.012)EQPP/	4	0.72977	0.0	0.0
Stxbp5l	0.332937	1.34E-16	49.087	LQCDVEDIIT(0.333)PEPET(0.333)S	4	-0.52791	0.0	0.0
Stxbp5l	0.487617	9.72E-21	81.368	S(0.001)LS(0.018)GS(0.488)T(0.48	3	-2.0927	0.0	0.0
Stxbp5l	0.242056	3.66E-10	46.273	SLSGS(0.001)T(0.003)NT(0.023)VS	4	1.2534	0.0	0.0
Mff	0.493146	1.68E-07	56.527	GGS(0.014)AAAT(0.493)S(0.493)N	3	1.762	0.0	0.0
Ppp1r21	0.316106	3.23E-23	64.221	S(0.316)T(0.316)S(0.284)S(0.083)/	4	0.46162	0.0	0.0
Arhgef40	0.359582	8.30E-33	92.39	QISLAS(0.001)ET(0.36)LDS(0.231)!	3	0.36098	0.0	0.0
Ctnnd2	0.491475	2.92E-05	51.566	GGS(0.465)PLT(0.491)T(0.052)T(0	3	-0.043873	0.0	0.0
Flcn	0.331969	4.09E-13	63.682	AHS(0.257)PAEGAS(0.332)T(0.332	2	0.417	0.0	0.0
Ppp1r2	0.309656	4.42E-08	59.339	NKT(0.176)S(0.176)T(0.232)T(0.31	3	0.45663	0.0	0.0
Inpp5e	0.190528	3.81E-09	45.558	GSLQDSVAQS(0.064)PAY(0.173)S(	4	-0.84866	0.0	0.0
Hint3	0.403865	6.51E-10	49.076	AGPEVS(0.007)S(0.033)PGT(0.404	3	1.0314	0.0	0.0
Nfkb1	0.306363	1.01E-22	66.017	TPET(0.001)T(0.004)AS(0.075)S(0.	4	0.012269	0.0	0.0
Nfkb1	0.306363	1.01E-22	66.017	TPET(0.001)T(0.004)AS(0.075)S(0.	4	0.012269	0.0	0.0
Ncoa6	0.247642	1.49E-07	44.625	ATPVPLPS(0.248)PPCT(0.248)S(0.2	4	0.55415	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Arfgef1	0.0864645	6.25E-11	41.174	YGS(0.013)LNS(0.043)LES(0.086)T	3	0.14907	0.0	0.0
Clu	0.398881	9.19E-08	58.848	VS(0.001)T(0.002)VT(0.086)T(0.39	3	0.18938	0.0	0.0
Mid1ip1	0.469552	1.35E-26	82.56	T(0.47)T(0.47)PAPS(0.061)PGSAN!	3	-0.9837	0.0	0.0
Mid1ip1	0.469552	1.35E-26	82.56	T(0.47)T(0.47)PAPS(0.061)PGSAN!	3	-0.9837	0.0	0.0
Srrm2	0.473201	6.44E-08	89.43	HSHS(0.008)GS(0.473)T(0.473)S(0	3	-0.11303	0.0	0.0
Srrm2	0.333313	3.32E-08	57.595	SGSVTNMQAECS(0.333)T(0.333)!	2	-0.098504	0.0	0.0
Srrm2	0.305398	6.49E-05	47.016	S(0.003)IAQT(0.055)T(0.305)PVAC	4	0.22571	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	785
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1678
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1541
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	45
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	654
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	657
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	658
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	350
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1834
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4;4
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	572
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	593
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	602
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211;262;158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	561
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1463
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	253
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	69
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	22
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	139
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	31
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	901
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	902
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1732
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	668
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	678
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	683
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	389
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	67
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	68
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	965
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	839
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2424

Srrm2	0.32626	4.30E-23	67.655	TPAALAALS(0.02)LT(0.326)GS(0.326)	3	-0.70121	0.0	0.0
Srrm2	0.32626	4.30E-23	67.655	TPAALAALS(0.02)LT(0.326)GS(0.326)	3	-0.70121	0.0	0.0
Ube4a	0.485812	0.00390753	44.132	S(0.229)YS(0.143)PT(0.143)LFAQT	2	1.4961	0.0	0.0
LOC36198	0.496209	0.0137778	74.173	NT(0.008)S(0.496)T(0.496)PFK	2	1.3722	0.0	0.0
Dbnl	0.46836	3.40E-15	87.519	AMS(0.468)T(0.468)T(0.061)S(0.061)	3	-0.052111	0.0	0.0
Prrc2a	0.385575	1.13E-22	67.064	QRGS(0.913)ET(0.386)GS(0.386)E	5	-0.30625	0.0	0.0
Prrc2a	0.484134	4.88E-30	88.976	T(0.484)AS(0.416)ET(0.115)RS(0.913)	4	-0.19212	0.0	0.0
Usp19	0.478368	1.30E-11	52.249	VAVPT(0.001)GPT(0.042)PLDS(0.426)	4	-0.020548	0.0	0.0
Wipf1	0.430292	7.21E-05	45.438	NLS(0.012)LT(0.123)S(0.43)PT(0.43)	3	1.224	0.0	0.0
Arfp2	0.489039	9.22E-22	84.046	HPSHS(0.021)T(0.489)S(0.489)PSC	3	0.35569	0.0	0.0
Eef1g	0.443969	2.01E-42	93.633	VLS(0.112)APPHFHFGQT(0.444)NF	4	0.5211	0.0	0.0
Nup35	0.442077	2.22E-11	92.703	T(0.442)LGT(0.442)PT(0.115)QPGS	2	-1.3337	0.0	0.0
Nup35	0.442077	2.22E-11	92.703	T(0.442)LGT(0.442)PT(0.115)QPGS	2	-1.3337	0.0	0.0
Esam	0.484013	2.07E-25	71.295	AAPRPGT(0.039)FT(0.484)PT(0.326)	4	0.42946	0.0	0.0
Syap1	0.433455	8.53E-158	161.15	NQEDEEEIS(0.02)T(0.433)S(0.433)	4	-0.54174	0.0	0.0
Tox4	0.476346	1.41E-05	48.376	LS(0.001)T(0.003)T(0.01)PS(0.033)	3	1.196	0.0	0.0
Tacc1	0.352628	9.63E-11	50.029	DGSSKPVGVEQLT(0.002)DPT(0.032)	4	-0.59903	0.0	0.0
Tacc2	0.333333	8.70E-13	65.231	VEPGQEDHADT(0.333)S(0.333)S(0.333)	3	1.4945	0.0	0.0
Ptbp2	0.196883	1.71E-12	47.383	RGSDHELLS(0.002)GS(0.005)VLS(0.112)	7	-2.579	0.0	0.0
Sorbs3	0.492794	7.83E-22	85.087	QPAPQNAQNWS(0.493)AT(0.493)	3	0.053555	0.0	0.0
Kars	0.396549	3.17E-12	63.682	ETATAT(0.005)ET(0.108)PES(0.396)	2	-0.58061	0.0	0.0
Irf3	0.495277	0.00117183	41.621	DFVHLDT(0.495)S(0.495)PDT(0.001)	3	-4.1482	0.0	0.0
LOC100911	0.498998	7.15E-10	83.633	EFGFLPT(0.499)T(0.499)PS(0.002)	3	0.47511	0.0	0.0
Sdpr	0.23013	3.10E-20	57.15	LEEQVQDDHEEGS(0.23)FT(0.23)E(0.23)	4	-0.0043579	0.0	0.0
Mief1	0.220551	1.34E-14	57.142	S(0.157)LQT(0.157)LPT(0.221)DS(0.221)	3	0.99048	0.0	0.0
Arap1	0.374121	6.26E-06	50.957	HY(0.001)S(0.374)IT(0.374)LPT(0.374)	3	1.8653	0.0	0.0
Lcor	0.307308	2.48E-05	49.343	T(0.307)S(0.307)S(0.26)PQDLET(0.307)	3	-0.78096	0.0	0.0
Afap1l2	0.37063	3.59E-09	50.271	ISFPANCPDT(0.371)MAS(0.371)VF	4	1.239	0.0	0.0
Afap1l2	0.333333	7.54E-14	114.31	KKS(0.333)T(0.333)S(0.333)LEPPD	3	-0.42145	0.0	0.0
Ablim1	0.333331	6.14E-17	92.633	S(0.333)T(0.333)S(0.333)QGSINSP	3	0.26913	0.0	0.0
Parp8	0.368468	0.0187045	70.747	T(0.132)CS(0.132)S(0.368)T(0.368)	2	1.0877	0.0	0.0
RGD15629	0.456287	1.47E-53	96.793	IEPQNT(0.001)S(0.019)PADVGIS(0.456)	4	0.36616	0.0	0.0
Rictor	0.129573	7.44E-06	41.615	SQSFNTDT(0.01)T(0.13)T(0.13)S(0.129)	3	0.099821	0.0	0.0
Rictor	0.129573	7.44E-06	41.615	SQSFNTDT(0.01)T(0.13)T(0.13)S(0.129)	3	0.099821	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2268
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2272
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	947
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	126
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1111
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1086
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	446
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	329
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	75
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	43
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	252
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	255
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	336
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	277
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	374
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	732
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	591
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	123
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	72
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	328
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	100
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	239
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	661
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	364
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	478;379
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	325
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	835
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1172
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1173



Tshz2	0.348774	2.46E-11	68.576	AESSQAQS(0.326)CT(0.349)S(0.32	3	0.92228	0.0	0.0
Tshz2	0.221661	1.56E-06	41.166	VFDVNRPCS(0.065)PDS(0.222)T(0	3	0.52176	0.0	0.0
Tshz2	0.221661	1.56E-06	41.166	VFDVNRPCS(0.065)PDS(0.222)T(0	3	0.52176	0.0	0.0
Dido1	0.492878	9.11E-56	91.767	YSVHSADTT(0.001)AS(0.028)S(0.4	6	0.1437	0.0	0.0
Dido1	0.492839	9.11E-56	91.767	YSVHSADTT(0.001)AS(0.028)S(0.4	6	0.1437	0.0	0.0
Lsm14b	0.33328	1.84E-05	42.633	SPMVEQAVQT(0.333)S(0.333)S(0.	4	1.2196	0.0	0.0
Ccdc136	0.310919	2.83E-38	79.512	S(0.001)YAS(0.066)S(0.311)S(0.31	3	-1.9248	0.0	0.0
Dennd2a	0.247881	9.61E-07	50.188	CVLT(0.005)FPGS(0.248)PT(0.248)	3	0.79021	0.0	0.0
Osbpl3	0.479448	1.00E-13	63.559	T(0.479)S(0.479)LPAPGPNT(0.03)S	3	0.65044	0.0	0.0
Caprin2	0.483611	3.50E-23	64.547	S(0.008)MT(0.025)PVDVPVT(0.48	4	-0.097304	0.0	0.0
Caprin2	0.475705	6.06E-84	122.7	T(0.476)ES(0.396)IKES(0.087)ES(0	5	0.38419	0.0	0.0
Dennd4c	0.493831	1.54E-10	49.66	HS(0.002)QPT(0.005)PEPQS(0.494	4	0.23125	0.0	0.0
Cep170b	0.47038	1.09E-05	61.444	HS(0.217)T(0.47)KS(0.313)DLPVHT	4	0.39797	0.0	0.0
Cep170b	0.485203	1.08E-19	55.779	EIHDVAGDGDS(0.056)LGS(0.485)F	4	1.8617	0.0	0.0
Cep170b	0.382724	1.18E-06	44.183	GAS(0.094)PVT(0.383)PS(0.171)S(	4	-0.37162	0.0	0.0
Cep170b	0.430922	2.99E-12	61.039	GAS(0.002)PVT(0.026)PS(0.109)S(	3	0.4158	0.0	0.0
Cep170b	0.452042	4.40E-07	53.625	GHKHEDGT(0.452)QS(0.452)DS(0.	3	0.27079	0.0	0.0
Cep170b	0.479649	7.83E-11	66.809	NGPS(0.013)PT(0.089)T(0.48)PQT	3	0.54641	0.0	0.0
Cep170b	0.456404	5.35E-08	68.481	S(0.015)QS(0.456)FT(0.456)HT(0.0	3	-0.1577	0.0	0.0
Pacs2	0.41758	4.58E-33	79.416	LRPYFEGLSHS(0.024)S(0.279)S(0.2	5	1.0177	0.0	0.0
Pacs2	0.139134	3.86E-24	58.867	VGIVEPSSAT(0.005)S(0.014)GDS(0	4	0.056916	0.0	0.0
Deptor	0.392365	0.00160771	45.438	KS(0.191)T(0.392)S(0.392)FMS(0.0	3	1.484	0.0	0.0
Deptor	0.137397	6.29E-18	61.522	SSMSSCGSS(0.001)GY(0.037)FS(0.	4	0.84887	0.0	0.0
LOC10036	0.414079	9.38E-07	86.539	S(0.004)NS(0.135)S(0.208)T(0.233	2	-0.35394	0.0	0.0
Arhgap32	0.241783	8.59E-52	95.666	DVEAGGSQSQT(0.013)PGS(0.242)	3	-0.18127	0.0	0.0
Safb2	0.39684	1.15E-15	57.997	S(0.002)EPVKEEGS(0.356)ELEQPF/	4	1.1128	0.0	0.0
Ppp2r5d	0.388484	0.00197369	41.242	RKS(0.286)ELPQDVY(0.326)T(0.38	3	-0.52354	0.0	0.0
Dst	0.482941	1.38E-06	47.68	RFPASGLY(0.001)PS(0.03)GS(0.48:	4	-1.0533	0.0	0.0
Dst	0.204513	3.94E-11	53.064	S(0.182)T(0.205)S(0.205)AS(0.205	4	-0.24579	0.0	0.0
Ercc5	0.331529	2.09E-10	49.662	NTCNS(0.001)S(0.003)HLS(0.332)S	3	-1.2761	0.0	0.0
Larp1	0.247804	8.31E-16	57.802	TASISSS(0.001)PS(0.017)EGT(0.24	4	-0.5254	0.0	0.0
Larp1	0.339643	2.71E-38	77.576	TASISSSPSEGT(0.015)PAVGS(0.34)	3	2.6529	0.0	0.0
Larp1	0.450914	0.0114745	40.496	T(0.451)KS(0.451)DES(0.098)GEEK	3	-0.10963	0.0	0.0
Tex2	0.492659	3.54E-22	142.92	S(0.011)LS(0.493)T(0.493)DT(0.00	2	-0.53607	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	780
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	337
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	163
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	944
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	397
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	477
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	889
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	933
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	366
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	565
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	569
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	386
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	996
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	451
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	333
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	708
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	194
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	99
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	500
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	239;245
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	650
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	7058;7230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	7343;7515
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	574
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	725
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	734
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	88
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	223

Eif4g1	0.404909	7.57E-45	77.215	T(0.03)AS(0.103)T(0.405)PT(0.337	4	1.1394	0.0	0.0
Eif4g1	0.329311	2.13E-19	56.22	T(0.017)AS(0.053)T(0.176)PT(0.09	5	1.4501	0.0	0.0
Hectd4	0.287243	1.57E-07	52.185	ASPSATLAALT(0.287)GS(0.287)T(0	3	0.35748	0.0	0.0
Hectd4	0.287243	1.57E-07	52.185	ASPSATLAALT(0.287)GS(0.287)T(0	3	0.35748	0.0	0.0
Ksr2	0.330893	1.11E-21	83.251	T(0.007)PNIVT(0.331)T(0.331)VT((	3	-0.084366	0.0	0.0
Ksr2	0.330893	1.11E-21	83.251	T(0.007)PNIVT(0.331)T(0.331)VT((	3	-0.084366	0.0	0.0
Ksr2	0.330893	1.11E-21	83.251	T(0.007)PNIVT(0.331)T(0.331)VT((	3	-0.084366	0.0	0.0
LOC68698	0.322077	3.68E-10	47.058	TQLWAS(0.008)EPGT(0.322)PPAP	5	-0.96258	0.0	0.0
Clasp1	0.430658	4.05E-05	45.347	VLS(0.03)T(0.109)S(0.431)T(0.431	3	1.4475	0.0	0.0
Clasp1	0.255721	3.64E-27	66.1	TSPLTSPTNCS(0.003)HGGLS(0.256	4	-0.76045	0.0	0.0
Plekha6	0.496658	2.97E-08	45.983	MLS(0.003)VQCAT(0.497)PS(0.409	4	-0.32098	0.0	0.0
LOC68570	0.402828	7.38E-09	57.142	T(0.403)S(0.403)LDVS(0.097)NS(0	3	1.5708	0.0	0.0
LOC68570	0.209094	3.84E-11	53.033	SASSYSDIEEIAI(0.209)PDS(0.209)S	4	-0.34083	0.0	0.0
LOC68570	0.491219	1.63E-28	84.653	T(0.001)PPVAVT(0.491)S(0.491)PI	4	1.261	0.0	0.0
Cep170	0.445975	1.97E-05	51.771	HDDGT(0.446)QS(0.446)DS(0.108)	3	-0.78702	0.0	0.0
LOC10036	0.490479	0.000820223	51.979	S(0.01)IQT(0.49)S(0.49)PT(0.009)E	3	0.28341	0.0	0.0
LOC10036	0.3333	9.18E-43	80.729	TPDLSLSAEET(0.333)GLS(0.333)DT	4	-1.4245	0.0	0.0
LOC10036	0.3333	9.18E-43	80.729	TPDLSLSAEET(0.333)GLS(0.333)DT	4	-1.4245	0.0	0.0
Fryl	0.462727	1.45E-05	42.633	DGDPPMPT(0.463)T(0.463)GVILP	3	1.6372	0.0	0.0
Fryl	0.462727	1.45E-05	42.633	DGDPPMPT(0.463)T(0.463)GVILP	3	1.6372	0.0	0.0
Fryl	0.450908	5.48E-70	118.81	S(0.376)T(0.451)GQLNLS(0.131)T(	3	1.1306	0.0	0.0
Ehbp1	0.487502	5.94E-58	106.11	T(0.488)S(0.488)GS(0.025)DDPGL	3	-0.12004	0.0	0.0
Ehbp1	0.246841	2.01E-15	59.339	TSGSDDPGLS(0.013)S(0.247)S(0.2	3	1.0215	0.0	0.0
Sacs	0.420208	1.03E-06	40.067	VPGNLAAAVQLS(0.002)AAS(0.021	4	-0.47501	0.0	0.0
Psd3	0.451965	2.57E-38	87.511	IGS(0.452)T(0.452)T(0.096)NPFLD	3	2.7502	0.0	0.0
Dmxl1	0.42762	0.00545895	76.221	GS(0.042)S(0.363)FLT(0.428)S(0.1	2	0.35844	0.0	0.0
Dmxl1	0.497337	2.22E-43	99.407	QEPVIADSY(0.001)NGS(0.497)T(0.	3	0.42382	0.0	0.0
Dmxl1	0.332962	3.86E-05	54.09	S(0.333)T(0.333)S(0.333)MLIS(0.0	3	-0.41899	0.0	0.0
Fbxo38	0.192145	1.16E-43	81.844	DVYPSCS(0.001)T(0.002)T(0.003)A	3	-1.2047	0.0	0.0
Rltpr	0.244326	8.10E-28	82.877	AGS(0.212)DGDIMDS(0.244)S(0.2	3	0.61548	0.0	0.0
Rltpr	0.333333	1.96E-18	72.433	GEPPGGAEGGT(0.333)S(0.333)S(0	3	-0.74656	0.0	0.0
Nhsl2	0.332348	1.85E-31	75.529	ILPYASTS(0.001)S(0.001)EGS(0.33	3	-0.1476	0.0	0.0
Fndc1	0.416066	1.11E-21	83.252	QSHS(0.03)S(0.137)T(0.416)S(0.41	3	0.67973	0.0	0.0
Numb1	0.459039	3.07E-09	45.558	AEAAAAPAVAPGPAQPGHVS(0.459	5	0.19639	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	205
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	580
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	269
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	272
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	357
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	799
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1104
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1269
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	927
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1512
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	820
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	376
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	726
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	126
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	487
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	488
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1930
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	641;641
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	653;653
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	571
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1019
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1900
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1258
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	573
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	712
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	559
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	576
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	224

Vrk3	0.493507	0.000101029	63.624	DLNSS(0.001)S(0.012)ET(0.494)S(	3	0.82176	0.0	0.0
Ldha	0.484749	5.10E-05	96.067	DYS(0.485)VT(0.485)ANS(0.03)K	2	0.028768	0.0	0.0
Hcfc1	0.316686	5.66E-11	42.319	GTSVMVT(0.001)HY(0.033)FLPPDI	4	1.9223	0.0	0.0
Hcfc1	0.330729	3.20E-39	84.327	YDIPATAAT(0.032)AT(0.331)S(0.28	4	0.66136	0.0	0.0
Hcfc1	0.307694	3.20E-39	84.327	YDIPATAAT(0.001)AT(0.308)S(0.30	3	0.60476	0.0	0.0
Pak1	0.498174	5.67E-43	96.238	DVAT(0.001)S(0.003)PIS(0.498)PT	3	0.015291	0.0	0.0
Map6	0.376091	2.50E-11	53.444	SGLGLGAAS(0.097)GS(0.376)T(0.3	3	-0.27285	0.0	0.0
Stard10	0.491389	6.29E-17	96.673	AGGAGEGS(0.491)DDDT(0.491)S(	2	0.20598	0.0	0.0
St5	0.399111	6.07E-05	41.166	T(0.399)LS(0.399)ECS(0.16)Y(0.03	2	2.0723	0.0	0.0
Arntl	0.487084	2.00E-08	47.331	KGS(0.393)AT(0.487)DY(0.004)QE	4	0.4784	0.0	0.0
Nap1l4	0.455368	1.73E-05	48.896	LDNVS(0.239)HT(0.455)PS(0.361)S	3	-0.16976	0.0	0.0
Mark2	0.49694	3.03E-12	61.361	DQQNLPFGVT(0.497)PAS(0.475)P	3	-0.70417	0.0	0.0
Mark2	0.290835	5.07E-08	41.65	SSELEGDT(0.009)IT(0.022)LKPRPSI	5	-1.708	0.0	0.0
Ubxn1	0.390181	0.00242519	40.242	S(0.285)S(0.32)PPAT(0.39)DPGPVI	2	-0.6388	0.0	0.0
Tjp2	0.424308	1.26E-15	56.474	MGAT(0.011)PT(0.128)PFKS(0.424	5	0.2881	0.0	0.0
Tjp2	0.388745	1.01E-22	59.912	MGAT(0.001)PT(0.007)PFKS(0.302	4	0.75564	0.0	0.0
Tjp2	0.494124	3.19E-39	79.382	SILKPSTPVPMPES(0.012)EEVGES(C	4	-1.2867	0.0	0.0
Gbf1	0.333374	1.01E-45	79.59	AQS(0.001)AS(0.006)VES(0.225)IP	4	-1.3538	0.0	0.0
Gbf1	0.332229	3.00E-16	55.662	EITT(0.001)T(0.002)EPGS(0.332)T(	4	-0.41746	0.0	0.0
Gbf1	0.488863	9.78E-22	78.917	GYT(0.489)S(0.489)DS(0.022)EVYT	4	-0.46372	0.0	0.0
Cast	0.331885	1.62E-07	58.723	GSDEVTASS(0.004)AAT(0.332)GT(I	2	-0.30281	0.0	0.0
Rai14	0.173289	5.95E-05	43.216	EALNSLS(0.001)QLS(0.071)Y(0.061	3	0.48115	0.0	0.0
RGD13071	0.250201	4.79E-35	74.321	LFLGDQT(0.001)VNLPT(0.25)S(0.2	4	-0.20299	0.0	0.0
RGD13071	0.250201	4.79E-35	74.321	LFLGDQT(0.001)VNLPT(0.25)S(0.2	4	-0.20299	0.0	0.0
RGD13071	0.388767	2.65E-06	42.123	QPS(0.303)T(0.303)APQPVKEDIAT	4	0.49083	0.0	0.0
Arhgef2	0.41231	2.49E-24	81.65	S(0.064)VS(0.412)T(0.412)T(0.111	3	1.6382	0.0	0.0
Fubp1	0.493657	2.86E-15	57.806	QQAAY(0.003)Y(0.01)AQT(0.494)S	4	-0.67126	0.0	0.0
Srsf11	0.470334	0.0116202	49.715	ERS(0.47)T(0.47)S(0.059)KK	4	0.14171	0.0	0.0
Sec16a	0.142976	4.32E-11	41.936	SQNYCSS(0.001)LS(0.007)QPS(0.1	5	-0.071074	0.0	0.0
Sec16a	0.142976	4.32E-11	41.936	SQNYCSS(0.001)LS(0.007)QPS(0.1	5	-0.071074	0.0	0.0
Sec16a	0.142976	4.32E-11	41.936	SQNYCSS(0.001)LS(0.007)QPS(0.1	5	-0.071074	0.0	0.0
Zeb2	0.332984	3.32E-17	59.567	DPCSQPEEQGVT(0.333)S(0.333)PS	5	1.4698	0.0	0.0
Tanc1	0.371864	9.25E-53	97.564	RADNCSPVAEEET(0.372)T(0.372)C	3	0.29286	0.0	0.0
Tanc1	0.371864	9.25E-53	97.564	RADNCSPVAEEET(0.372)T(0.372)C	3	0.29286	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	67
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	86
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1855
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	410
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	413
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	224
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	109
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	287
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	245
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	44
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	51
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	613
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	192
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	442;469
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	446;473
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1043;1033
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	362
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	326
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1318
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	856;877
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4277
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4282
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2943
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	624
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	395
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	607
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	614
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	619
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	440
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	274
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	275

Rbms1	0.113535	1.43E-12	45.775	QQSLVPAHPMAPP(0.114)PS(0.11	4	-1.4907	0.0	0.0
Rbms1	0.113535	1.43E-12	45.775	QQSLVPAHPMAPP(0.114)PS(0.11	4	-1.4907	0.0	0.0
Scn7a	0.460242	7.33E-16	58.812	QS(0.002)S(0.002)S(0.005)S(0.015	3	0.84632	0.0	0.0
Scn7a	0.298735	8.38E-124	124.98	TPVTESESQSLIAS(0.08)PS(0.299)V	5	0.97928	0.0	0.0
Cobll1	0.380967	2.65E-09	59.537	S(0.381)T(0.381)S(0.237)VDDT(0.0	4	0.80203	0.0	0.0
Cobll1	0.474339	0.000460357	40.187	T(0.168)VS(0.168)S(0.19)PVGT(0.4	3	-1.1301	0.0	0.0
Kcna4	0.446	1.01E-30	72.935	ETENEEQT(0.001)QLT(0.446)QNAV	4	2.2623	0.0	0.0
Map1a	0.278033	2.42E-07	44.848	DLWPMVS(0.076)PEDT(0.278)QS(	4	-1.9707	0.0	0.0
Map1a	0.353993	1.24E-06	41.247	ET(0.354)S(0.323)PT(0.323)RGEPV	4	0.75432	0.0	0.0
Map1a	0.329997	9.30E-08	44.6	SPQAQDT(0.01)PVS(0.33)IAGGQT	4	3.1861	0.0	0.0
Map1a	0.329997	9.30E-08	44.6	SPQAQDT(0.01)PVS(0.33)IAGGQT	4	3.1861	0.0	0.0
Map1a	0.221702	6.12E-11	47.195	TEATQGLDY(0.013)VPS(0.122)AGT	4	2.3372	0.0	0.0
Ppip5k1	0.493143	0.000219594	46.877	ALQT(0.493)S(0.493)PQPVEGT(0.0	2	0.12847	0.0	0.0
Ppip5k1	0.224429	1.18E-23	64.213	QSGLSQCT(0.001)GLFS(0.224)T(	3	0.4311	0.0	0.0
Ppip5k1	0.224429	1.18E-23	64.213	QSGLSQCT(0.001)GLFS(0.224)T(	3	0.4311	0.0	0.0
Tp53bp1	0.459497	1.03E-23	93.583	GKT(0.459)S(0.32)GT(0.221)EPAD	3	0.11352	0.0	0.0
Tp53bp1	0.328539	4.93E-15	52.697	SATVKPGTVGAAELVS(0.329)PCES(	5	-0.67501	0.0	0.0
Tp53bp1	0.327335	1.74E-06	43.164	TEEVGENT(0.008)QVEDT(0.327)EF	4	0.50309	0.0	0.0
Jph2	0.460679	0.033666	66.273	T(0.461)S(0.461)LGS(0.079)QR	2	-0.22474	0.0	0.0
Slc4a2	0.333107	2.57E-45	81.844	RPASGADSLHT(0.001)PEPES(0.333	4	0.47447	0.0	0.0
Prkag2	0.415623	6.80E-07	53.625	KT(0.416)S(0.317)S(0.244)VS(0.02	4	1.0263	0.0	0.0
Ppp1r9a	0.478485	2.64E-07	50.957	DLT(0.001)GGDLT(0.478)S(0.478	3	-1.0015	0.0	0.0
Magi1	0.320319	2.20E-12	46.113	S(0.041)LHT(0.32)AS(0.296)PS(0.2	6	0.58825	0.0	0.0
C2cd5	0.385827	1.65E-25	70.994	LTQNFS(0.004)VS(0.386)VPT(0.38	4	0.87338	0.0	0.0
C2cd5	0.246196	7.62E-07	41.446	LTQNFS(0.01)VS(0.246)VPT(0.246	3	1.323	0.0	0.0
Zfp462	0.480953	1.72E-06	50.831	LWAGPDPS(0.064)S(0.064)PT(0.35	3	-1.0017	0.0	0.0
Mpdz	0.358976	3.42E-12	60.95	DSSQT(0.001)PAVPAPDLEPIPS(0.3	3	0.84218	0.0	0.0
Mpdz	0.136195	3.15E-09	45.137	QHAGS(0.02)PPT(0.039)DMS(0.13	4	1.1392	0.0	0.0
Mpdz	0.136195	3.15E-09	45.137	QHAGS(0.02)PPT(0.039)DMS(0.13	4	1.1392	0.0	0.0
Mpdz	0.136195	3.15E-09	45.137	QHAGS(0.02)PPT(0.039)DMS(0.13	4	1.1392	0.0	0.0
Dnajc6	0.278872	9.42E-07	42.468	KKT(0.279)S(0.279)S(0.279)DGY(0	4	0.39674	0.0	0.0
Dnajc6	0.36697	5.11E-13	64.454	S(0.106)AAT(0.367)S(0.366)PT(0.3	3	1.9508	0.0	0.0
Dnajc6	0.442865	8.27E-27	83.395	SAAT(0.014)S(0.077)PT(0.443)GS(	3	1.1065	0.0	0.0
Dnajc6	0.4623	5.11E-13	64.454	S(0.003)AAT(0.049)S(0.271)PT(0.4	4	-0.52467	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	40
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	875
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	834
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	848
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	581
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1420
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1859
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1314
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1317
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1134
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	703
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	819
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	820
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1301
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1669
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	550
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	27
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	156
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	371
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	756
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	304
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	308
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1301
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1555
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	917
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	921
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	926
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	11
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	712;682
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	715;685
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	718;688

Cldn19	0.490627	9.83E-06	83.53	LS(0.019)T(0.491)S(0.491)VKGPLG	2	0.67333	0.0	0.0
Thrap3	0.443705	9.49E-12	52.97	FSGEEGEIEDDES(0.444)GT(0.444)E	4	-0.3943	0.0	0.0
Alpl	0.480514	2.36E-24	69.779	TYNTNAQVPDS(0.481)AGT(0.481)	3	0.58076	0.0	0.0
Alpl	0.326375	1.50E-19	65.184	TYNTNAQVPDS(0.326)AGT(0.326)	4	-0.9288	0.0	0.0
Srrm1	0.494225	3.19E-57	88.395	AVAVATPAPAAPAAVS(0.494)AAA	5	1.2337	0.0	0.0
Ubr4	0.494381	7.53E-24	59.793	T(0.494)S(0.494)PADHGGS(0.011)	4	-1.8228	0.0	0.0
Vps13d	0.36257	2.54E-08	60.325	T(0.253)RS(0.253)T(0.363)AS(0.12	3	-2.4234	0.0	0.0
Ndufs7	0.393147	4.46E-28	84.249	AHQSVAAAT(0.001)GS(0.063)PS(0.2	3	0.55031	0.0	0.0
Tcp11l2	0.474094	0.0114346	43.297	S(0.001)S(0.001)S(0.003)PAS(0.04	2	1.435	0.0	0.0
Ebag9	0.325582	3.05E-05	45.347	KLS(0.079)GDQIT(0.119)LPT(0.326	2	-1.3883	0.0	0.0
Ebag9	0.460779	2.73E-31	90.718	KLS(0.003)GDQIT(0.187)LPT(0.311	3	-1.2208	0.0	0.0
Ndr1	0.462874	3.45E-22	84.249	LNIT(0.463)PS(0.463)S(0.074)GAT	4	-0.53918	0.0	0.0
Scrib	0.327987	1.47E-17	54.466	AFAAVPT(0.003)VHPPENS(0.328)A	4	0.79886	0.0	0.0
Scrib	0.375015	1.18E-88	94.942	LAEAPSPAPT(0.004)PS(0.016)PT(0	5	-1.1541	0.0	0.0
Pcbp2	0.166582	1.03E-16	54.167	LHQLAMQQS(0.001)HFPMT(0.167	6	-1.2857	0.0	0.0
Pcbp2	0.190365	1.03E-16	54.167	LHQLAMQQSHFPMT(0.048)HGNT	5	1.4354	0.0	0.0
Kank2	0.195973	2.42E-61	88.087	LEDQAAAPS(0.029)S(0.074)GGLGS	4	1.0827	0.0	0.0
Kank2	0.213855	2.42E-61	88.087	RLEDQAAAPSSGGLGS(0.001)LT(0.1	4	-0.53583	0.0	0.0
Dnm2	0.301944	1.41E-104	118.74	EALNIIGDIST(0.005)S(0.005)T(0.00	5	-0.34842	0.0	0.0
Hyou1	0.426661	3.38E-05	44.998	LGNT(0.001)IS(0.004)S(0.026)LFG	3	0.43951	0.0	0.0
C2cd2l	0.393446	2.02E-06	51.469	NLGT(0.007)PT(0.026)S(0.109)S(0	3	-1.0647	0.0	0.0
Phip	0.465063	0.000880331	43.594	S(0.001)EIS(0.057)T(0.465)S(0.46	3	0.45519	0.0	0.0
Snap91	0.40391	2.32E-24	63.316	GAS(0.003)PVPES(0.085)S(0.076)L	5	0.09868	0.0	0.0
Snap91	0.485961	2.13E-05	51.431	S(0.485)S(0.489)PAT(0.488)T(0.48	3	-0.096458	0.0	0.0
Snap91	0.307988	2.87E-05	47.037	SSPAT(0.002)T(0.008)VT(0.065)S(0	3	-0.07303	0.0	0.0
Nckipsd	0.249946	4.61E-33	81.48	G TSAASASVMT(0.25)PS(0.25)T(0.2	3	0.54952	0.0	0.0
Nckipsd	0.249946	4.61E-33	81.48	G TSAASASVMT(0.25)PS(0.25)T(0.2	3	0.54952	0.0	0.0
Map4	0.371905	1.21E-14	86.453	ATSPSTLVS(0.096)T(0.372)GS(0.37	2	0.16535	0.0	0.0
Map4	0.499629	1.09E-09	56.569	EPQTLDS(0.001)QIQET(0.5)S(0.5)I	2	-3.8686	0.0	0.0
Map4	0.493374	2.08E-14	127.79	LAT(0.013)T(0.493)VS(0.493)APDL	2	1.4384	0.0	0.0
Map4	0.49868	2.34E-08	58.5	RNT(0.499)T(0.499)PT(0.002)GATI	3	0.8803	0.0	0.0
Plcd1	0.498525	6.03E-57	86.191	KLGGLLPAGGENGS(0.003)EAT(0.4	4	-0.21509	0.0	0.0
Golga4	0.484732	0.0147773	45.28	DT(0.485)ES(0.485)QLS(0.031)ELR	2	0.19553	0.0	0.0
Fam126b	0.245696	0.0292925	56.013	T(0.246)AS(0.246)AS(0.216)S(0.14	2	-1.3205	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	216
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	937
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	115
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	789
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2923
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2862
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	54
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	44
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	45
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	375
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1347;1319;1298
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1566;1538
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	259
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	263
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	151
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	158
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	760
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	589
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	422;422
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1447
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	575
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	310
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	317
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	60
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1869;793
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2200;1124
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1976;900
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1923;847
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	457
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1692
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	447

Als2	0.487201	1.64E-19	70.994	T(0.001)VVLT(0.42)PT(0.487)Y(0.0	3	1.0467	0.0	0.0
Sphkap	0.44627	1.20E-10	89.358	QS(0.094)S(0.446)T(0.446)ES(0.01	3	0.43818	0.0	0.0
Trip12	0.318436	0.000325441	64.244	AQT(0.08)APT(0.283)KT(0.318)S(0	2	0.1063	0.0	0.0
Lrrfip1	0.447242	6.50E-13	58.864	NMP(0.012)LS(0.133)AAT(0.447)	3	0.18128	0.0	0.0
Lrrfip1	0.345633	5.83E-06	46.818	NMP(0.001)AAT(0.007)LAS(0.0	3	1.4629	0.0	0.0
Mprp	0.499578	5.04E-19	75.533	HVLPT(0.5)S(0.5)APDVTSSLPEGK	3	-0.41962	0.0	0.0
Tom1l2	0.499789	1.65E-20	67.88	AAETVPDLPS(0.5)PPT(0.5)EAPAPA	5	-0.29143	0.0	0.0
Epn2	0.307705	1.09E-29	87.429	GSS(0.009)QP(0.308)T(0.308)S	2	0.5308	0.0	0.0
Vamp2	0.498768	3.41E-22	89.011	ADALQAGAS(0.002)QFET(0.499)S	3	0.12134	0.0	0.0
Mybbp1a	0.3268	0.000121319	42.314	SPAPNNPT(0.02)LS(0.327)PS(0.32	3	0.19837	0.0	0.0
Lig3	0.499497	0.000163478	52.247	LTTT(0.001)GQVT(0.499)S(0.499)F	3	0.47305	0.0	0.0
Luc7l3	0.496706	4.28E-13	66.152	SEVNGTSEDIKS(0.007)EGDT(0.497	3	0.081757	0.0	0.0
Nbr1	0.499269	1.96E-16	58.349	SAPCGQY(0.001)EAPRVDS(0.499)F	4	1.7084	0.0	0.0
Cdc27	0.138969	1.82E-11	40.864	EAT(0.001)PVLVAQT(0.139)QS(0.1	4	2.0944	0.0	0.0
Cdc27	0.138969	1.82E-11	40.864	EAT(0.001)PVLVAQT(0.139)QS(0.1	4	2.0944	0.0	0.0
Cdc27	0.138969	1.82E-11	40.864	EAT(0.001)PVLVAQT(0.139)QS(0.1	4	2.0944	0.0	0.0
Cdc27	0.138969	1.82E-11	40.864	EAT(0.001)PVLVAQT(0.139)QS(0.1	4	2.0944	0.0	0.0
Fam20a	0.349178	9.34E-12	60.764	VIADGSAQHS(0.005)APDS(0.297)C	3	1.0051	0.0	0.0
Slc16a6	0.373411	5.34E-12	65.374	TSIDSIDSGVELT(0.253)T(0.373)S(0	3	1.1804	0.0	0.0
Hgs	0.331592	4.94E-43	91.276	AASTTELPPEY(0.002)LT(0.332)S(0.	3	-0.60382	0.0	0.0
Tfg	0.332985	2.65E-10	49.266	LLDSLEPPGEPGPS(0.333)T(0.333)S	3	-0.48519	0.0	0.0
Trmt2a	0.306979	1.17E-07	58.079	NLPDLTAQET(0.307)ET(0.307)S(0.	3	0.70085	0.0	0.0
Trmt2a	0.406084	1.04E-11	68.283	NLPDLTAQET(0.104)ET(0.406)S(0.	2	0.0044478	0.0	0.0
Zdhhc8	0.491953	0.00211568	51.286	T(0.492)S(0.492)PPT(0.016)PAMY	3	-0.036161	0.0	0.0
Arvcf	0.499885	1.33E-25	72.935	GTPNSGGFDDS(0.5)T(0.5)LPLVDKI	3	3.4376	0.0	0.0
Arvcf	0.34552	1.69E-18	50.604	SLPEHFQAEPY(0.309)GLEDDT(0.34	4	-0.25747	0.0	0.0
Clip2	0.457379	1.17E-19	55.779	QPAAEGS(0.001)GS(0.001)DAHS(C	4	0.74109	0.0	0.0
Clip2	0.465006	9.12E-71	93.415	QPAAEGSGSDAHS(0.002)VES(0.10	5	-0.42077	0.0	0.0
Sfswap	0.455832	0.0171766	51.762	S(0.011)QS(0.076)T(0.456)S(0.456	3	-0.83067	0.0	0.0
Cmklr1	0.483499	0.000929933	48.188	ASVNEKET(0.033)S(0.483)T(0.483)	3	-0.39143	0.0	0.0
Srgap2	0.249898	4.04E-24	68.835	TSPVVAPT(0.25)S(0.25)EPS(0.25)S	5	2.7467	0.0	0.0
Abl2	0.388489	8.64E-27	103.58	S(0.027)NS(0.388)T(0.388)S(0.102	2	0.15063	0.0	0.0
Rasal2	0.458453	7.00E-12	131.79	QNS(0.458)T(0.458)GQS(0.083)QI	2	-1.0231	0.0	0.0
Rasal2	0.415328	9.99E-55	99.954	S(0.297)IS(0.063)GT(0.415)S(0.074	4	-1.3099	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	506
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1212
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1459
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	283
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	290
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	584;607
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	503;462
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	179;179
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	79
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1258
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	210
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	429
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	858
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	215
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	222
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	224
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	225
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	408
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	246
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	239
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	133
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	597
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	599
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	802
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	202
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	166
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	712
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	371
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	836
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	770
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	861
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	23

Rasal2	0.276973	9.20E-58	106.38	S(0.017)IS(0.004)GT(0.062)S(0.11)	3	-1.4473	0.0	0.0
Rasal2	0.456161	4.33E-11	53.033	S(0.006)IS(0.002)GT(0.007)S(0.008)	4	0.50092	0.0	0.0
Rasal2	0.42939	1.34E-23	66.294	SISGTSTSEKPN(0.012)MDT(0.128)	5	1.4513	0.0	0.0
Kcnj10	0.445366	1.69E-09	56.131	VYYS(0.003)QT(0.039)T(0.165)QT(	3	0.66636	0.0	0.0
Enah	0.464639	5.26E-55	90.907	VISAPVSDAAPDY(0.392)AVVT(0.46)	5	-0.53727	0.0	0.0
Enah	0.300366	4.06E-92	114.08	VISAPVSDAAPDY(0.007)AVVT(0.24)	4	-0.072431	0.0	0.0
Eprs	0.43153	7.62E-20	94.639	S(0.281)PS(0.081)NT(0.432)GEY(0	2	-0.65198	0.0	0.0
Eprs	0.280433	9.11E-58	98.009	TGQEYRPGNPPTAAVQT(0.005)VS(	4	-0.20303	0.0	0.0
Rps6kc1	0.346052	1.06E-18	72.99	IDS(0.219)KDS(0.346)T(0.346)S(0.1	3	0.33768	0.0	0.0
Rps6kc1	0.328138	6.51E-09	56.339	SFPAS(0.006)LT(0.328)ADS(0.328)	4	0.77477	0.0	0.0
Fip1l1	0.495138	4.30E-12	69.081	DHS(0.495)PT(0.495)PS(0.01)VFN(	3	-0.61321	0.0	0.0
Ociad1	0.309376	5.07E-16	59.359	YDSNVS(0.001)GQS(0.309)S(0.309)	4	0.72981	0.0	0.0
Atp8a1	0.494894	4.20E-12	66.732	T(0.001)DDVS(0.009)EKT(0.495)S(	3	2.1109	0.0	0.0
Add1	0.425934	3.06E-41	113.63	T(0.426)S(0.426)T(0.121)S(0.027)	3	-1.0736	0.0	0.0
Add1	0.482006	5.74E-05	114.24	T(0.036)EQT(0.482)FS(0.482)PAK	2	0.26758	0.0	0.0
Camk2b	0.498655	1.48E-35	100.58	ESSDST(0.003)NT(0.499)T(0.499)II	4	0.27485	0.0	0.0
Camk2b	0.498655	1.48E-35	100.58	ESSDST(0.003)NT(0.499)T(0.499)II	4	0.27485	0.0	0.0
Camk2b	0.485839	2.22E-32	77.469	GS(0.028)LPPAALEPQT(0.486)T(0.	3	0.20303	0.0	0.0
Camk2b	0.283812	1.61E-42	87.208	GSLPPAALES(0.06)S(0.284)DS(0.28	3	0.71483	0.0	0.0
Camk2b	0.231612	1.61E-42	87.208	GSLPPAALES(0.01)S(0.232)DS(0.23	4	-0.0068138	0.0	0.0
Camk2b	0.219368	4.26E-07	43.233	GSLPPAALES(0.061)S(0.061)DS(0.2	4	-0.26433	0.0	0.0
Mtmr3	0.495616	3.99E-08	52.97	T(0.496)RS(0.496)FDNLT(0.008)T(	4	0.20942	0.0	0.0
Ddhd1	0.193704	1.83E-24	65.378	KPVSSPSTT(0.001)T(0.001)VAT(0.1	5	1.117	0.0	0.0
Ddhd1	0.193704	1.83E-24	65.378	KPVSSPSTT(0.001)T(0.001)VAT(0.1	5	1.117	0.0	0.0
Acin1	0.440588	0.0316112	54.259	KIS(0.119)VVS(0.441)T(0.441)K	2	-0.88452	0.0	0.0
Amer2	0.465796	8.58E-16	66.152	AAGPGSLVLP(0.466)LT(0.466)A	3	0.21605	0.0	0.0
Dmtn	0.412857	0.000661135	41.542	T(0.001)PFHT(0.008)S(0.033)LHS(	3	0.59136	0.0	0.0
Mtus1	0.499268	0.000357495	46.88	ENFES(0.001)LQT(0.499)T(0.499)P	3	-0.29322	0.0	0.0
Mtus1	0.499268	0.000357495	46.88	ENFES(0.001)LQT(0.499)T(0.499)P	3	-0.29322	0.0	0.0
Mtmr7	0.328162	2.40E-42	87.352	HSGFS(0.001)T(0.005)S(0.005)DN(	4	-0.050725	0.0	0.0
H2afy	0.488502	7.02E-43	95.319	AAS(0.004)ADS(0.489)T(0.489)T(0	3	1.5274	0.0	0.0
Ptpdc1	0.431231	0.000389533	45.438	S(0.009)PCS(0.129)PLHC(0.431)	3	-0.53544	0.0	0.0
Cdyl	0.496359	0.00124527	40.432	GRT(0.496)S(0.496)IDGFHG(0.0	3	-0.67814	0.0	0.0
Abi1	0.332144	2.37E-18	48.614	ENSGSSS(0.001)IGIPIAVPT(0.332)F	4	0.287	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	34
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	37
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	15
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	288
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	293
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	820
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	814
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	373
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	481
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	146
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	73
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	480;495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	555;570
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	400;376
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	401;377
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	382;358
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	383
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	385
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	386
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	611
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	781
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	783
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	830
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	224
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	284
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	227
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	228
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	575
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	173
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	626
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	152
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	260



Abi1	0.332144	2.37E-18	48.614	ENSGSSS(0.001)IGIPIAVPT(0.332)F	4	0.287	0.0	0.0
Rock1	0.237527	1.29E-07	45.042	LLDLS(0.024)DS(0.233)T(0.238)S(C	4	0.53914	0.0	0.0
lws1	0.498971	5.70E-05	50.305	HS(0.002)ENET(0.499)S(0.499)DRI	3	0.72737	0.0	0.0
lws1	0.3871	0.000174606	85.294	MS(0.032)S(0.387)T(0.387)GGQT(	2	-0.6638	0.0	0.0
Dpysl3	0.486662	9.00E-33	95.873	NLHQSGFS(0.027)LS(0.487)GT(0.4	4	0.924	0.0	0.0
Dync1li2	0.374904	5.08E-05	48.288	GGPASVPS(0.012)AS(0.238)PGT(0	3	-0.96211	0.0	0.0
Dync1li2	0.457872	7.61E-05	47.037	KPDMSVMT(0.001)NS(0.083)S(0.45	3	-0.10841	0.0	0.0
Smarca5	0.291647	5.21E-11	41.174	GGPEGGAAPAAPS(0.292)AT(0.292	4	-1.4052	0.0	0.0
Smarca5	0.291647	5.21E-11	41.174	GGPEGGAAPAAPS(0.292)AT(0.292	4	-1.4052	0.0	0.0
Ednra	0.498561	2.21E-07	54.898	SLMT(0.001)S(0.002)VPMNGT(0.4	3	-0.024109	0.0	0.0
Bag6	0.499488	1.85E-25	71.903	T(0.499)S(0.499)PEPQREDAS(0.00	4	0.44889	0.0	0.0
Specc1l	0.485376	1.01E-23	132.64	RS(0.011)S(0.485)T(0.485)S(0.018	2	-0.81577	0.0	0.0
Dnajb12	0.492762	1.48E-11	58.332	KT(0.493)S(0.375)GT(0.125)ET(0.0	4	0.056128	0.0	0.0
Dnajb12	0.319094	4.35E-08	50.505	KT(0.257)S(0.257)GT(0.067)ET(0.3	3	0.11916	0.0	0.0
Ostm1	0.347531	1.38E-05	55.98	S(0.003)S(0.003)T(0.061)S(0.323)F	2	-1.2181	0.0	0.0
Dlg3	0.43956	3.63E-32	94.281	SIQEQGVT(0.003)S(0.096)NT(0.44	3	-0.26836	0.0	0.0
Drp2	0.462738	1.75E-12	62.442	EKGQT(0.463)T(0.463)PDT(0.075)	3	0.90791	0.0	0.0
Drp2	0.399191	1.14E-91	110.9	GYPVQS(0.004)VLES(0.399)DCS(C	4	-0.16612	0.0	0.0
Serinc3	0.492809	3.07E-58	92.565	LT(0.001)LS(0.013)GS(0.057)DS(0.	3	-0.04653	0.0	0.0
Serinc3	0.410515	1.79E-06	40.626	LT(0.005)LS(0.024)GS(0.062)DS(0.	3	-1.1141	0.0	0.0
Tom1	0.447806	1.21E-23	69.578	GDLSQHATPLPT(0.004)PAVLPGDS	6	1.0843	0.0	0.0
Tom1	0.447806	1.21E-23	69.578	GDLSQHATPLPT(0.004)PAVLPGDS	6	1.0843	0.0	0.0
Lars	0.499713	0.000235778	44.577	S(0.5)T(0.5)GNFLTLSQAVDK	3	1.3606	0.0	0.0
Lpxn	0.499545	7.08E-05	56.936	TLST(0.001)QGNT(0.5)S(0.5)PLK	3	1.1536	0.0	0.0
Lysmd3	0.481594	3.87E-07	71.558	FS(0.019)S(0.21)LT(0.482)ET(0.29)	3	-0.92779	0.0	0.0
Sipa1l2	0.330402	3.23E-15	52.697	NITGAS(0.002)AAS(0.33)QT(0.33	6	-1.2747	0.0	0.0
Map7d2	0.316487	4.13E-09	49.592	S(0.004)NS(0.04)LDDS(0.316)T(0.3	2	0.67207	0.0	0.0
Prpf4b	0.488806	0.0251499	46.39	S(0.022)KS(0.489)PT(0.489)LR	3	0.0014615	0.0	0.0
Sugp1	0.450503	2.48E-18	75.533	AGS(0.451)T(0.451)GS(0.099)LPAF	3	0.014742	0.0	0.0
Ehd1	0.415248	0.000159104	40.137	DKPT(0.008)Y(0.007)DEIFY(0.236)	3	-0.38275	0.0	0.0
Raly	0.493794	3.81E-05	88.338	STAIS(0.012)T(0.494)GS(0.494)AK	3	0.10543	0.0	0.0
Zfp281	0.331849	9.16E-49	88.573	VDLHTSGEHSSELVQEEHLS(0.332)PC	5	-1.685	0.0	0.0
Zfp281	0.331849	9.16E-49	88.573	VDLHTSGEHSSELVQEEHLS(0.332)PC	5	-1.685	0.0	0.0
Mnda	0.332148	1.02E-13	63.46	CLSPIPQT(0.332)S(0.332)S(0.332)I	3	1.5358	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	265
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1101
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	53;53
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	667;666
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	656
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	410
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	488
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	48
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	178
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	977
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	834
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	74
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	79
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	338
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	148
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	831
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	627
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	377
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	213
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	723
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	53
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	118
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	368
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	672
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	244
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	454
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	159
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	647
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	649
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	181

Rrp1	0.494289	1.39E-14	85.563	EGGS(0.401)ET(0.494)EAS(0.088)S	2	-0.20689	0.0	0.0
Ptdss1	0.347733	2.31E-10	59.372	TYSECEDGT(0.348)Y(0.297)S(0.348)	4	0.10285	0.0	0.0
Fxr1	0.279268	5.74E-14	49.765	RGPNY(0.018)T(0.279)S(0.279)GY	3	0.95736	0.0	0.0
Ppapdc3	0.42086	9.21E-22	78.358	KAS(0.158)GPS(0.421)T(0.421)QPI	4	0.44534	0.0	0.0
Hba2	0.363658	2.75E-05	61.11	FLAS(0.001)VS(0.051)T(0.364)VLT	3	0.74007	0.0	0.0
Wbp4	0.287459	1.32E-16	59.372	LGLQS(0.001)DIS(0.013)EPT(0.287	4	0.93344	0.0	0.0
Wbp4	0.287459	1.32E-16	59.372	LGLQS(0.001)DIS(0.013)EPT(0.287	4	0.93344	0.0	0.0
Wbp4	0.237988	3.65E-16	56.172	LGLQS(0.001)DIS(0.023)EPT(0.238	5	-0.2635	0.0	0.0
Eif3g	0.492071	9.30E-07	41.047	GIPLPT(0.016)GDT(0.492)S(0.492)	5	0.084631	0.0	0.0
Pea15	0.348829	3.43E-06	45.885	S(0.002)EEIT(0.083)T(0.349)GS(0.3	4	0.79705	0.0	0.0
Arhgef12	0.331324	1.64E-07	54.103	S(0.331)T(0.331)S(0.331)HDFDPT(	4	0.27359	0.0	0.0
Ppap2a	0.32405	3.31E-05	41.672	KEDS(0.002)HT(0.011)T(0.014)LHE	4	-0.64164	0.0	0.0
Ppap2a	0.32405	3.31E-05	41.672	KEDS(0.002)HT(0.011)T(0.014)LHE	4	-0.64164	0.0	0.0
Cldn11	0.347671	3.85E-16	93.839	FYYSS(0.001)GS(0.045)S(0.303)S(C	2	-0.53099	0.0	0.0
LOC10254	0.434382	1.06E-08	49.66	SVTSNQS(0.003)DGT(0.434)QES(0	3	2.9582	0.0	0.0
Clip4	0.490854	1.82E-06	74.987	S(0.007)FS(0.491)T(0.491)T(0.011	3	0.31217	0.0	0.0
Clip4	0.352773	0.00168667	56.139	S(0.23)FS(0.06)T(0.353)T(0.353)S(	2	0.20691	0.0	0.0
Clip4	0.416804	0.0015019	47.575	T(0.417)LS(0.326)KS(0.179)PS(0.0	3	1.264	0.0	0.0
LOC30676	0.47237	3.39E-31	91.616	HPASAQS(0.003)S(0.015)PS(0.022	3	-0.048679	0.0	0.0
Cmtr1	0.45125	6.03E-33	77.221	ASTTSLS(0.001)GS(0.095)DS(0.451	4	1.3669	0.0	0.0
Mef2a	0.311047	6.92E-28	82.877	GCDS(0.038)PDPDT(0.311)S(0.311	3	-2.8996	0.0	0.0
Rmdn3	0.347138	0.000142967	40.798	SQSLPNS(0.004)LDY(0.301)AQT(0.	3	1.5499	0.0	0.0
Rel2	0.362901	1.96E-23	68.664	T(0.363)S(0.363)RGS(0.274)EPDD/	4	0.067373	0.0	0.0
Tmem39b	0.317199	1.28E-14	54.855	T(0.317)T(0.317)S(0.279)GT(0.085	3	2.0495	0.0	0.0
Tmem39b	0.317199	1.28E-14	54.855	T(0.317)T(0.317)S(0.279)GT(0.085	3	2.0495	0.0	0.0
Armcx2	0.332957	5.38E-10	49.125	SGTEANMES(0.001)IVMT(0.333)S(	3	-1.641	0.0	0.0
Armcx2	0.332957	5.38E-10	49.125	SGTEANMES(0.001)IVMT(0.333)S(	3	-1.641	0.0	0.0
Usp1	0.248963	3.37E-15	54.072	DNTVNGS(0.002)GPAS(0.249)PGS	4	-1.5659	0.0	0.0
Slc35f6	0.487304	0.000282777	50.508	LLGDS(0.013)RT(0.487)PINET(0.15	2	-0.47734	0.0	0.0
Snx15	0.397988	8.11E-09	46.862	EES(0.035)T(0.032)GPS(0.398)PT((	3	-0.02696	0.0	0.0
Slc39a6	0.499769	7.17E-05	61.344	YESQLS(0.5)T(0.5)NEEK	3	0.43052	0.0	0.0
Ncoa7	0.447146	8.97E-11	66.436	VLS(0.018)S(0.087)T(0.447)S(0.44	3	-3.0996	0.0	0.0
Dmwd	0.195215	5.88E-15	50.464	AEETASAS(0.001)GDGDPS(0.195)C	4	2.3725	0.0	0.0
Dmwd	0.195215	5.88E-15	50.464	AEETASAS(0.001)GDGDPS(0.195)C	4	2.3725	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	384
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	423
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	425
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	47
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	135;135
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	93
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	98
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	100
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	40
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	270
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	271
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	200
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	186
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	453
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	180
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	56
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	75
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	56
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	48
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	45
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	138
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	404
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	366
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	465
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	125
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	402
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	406

Dmwd	0.2694	1.06E-07	53.565	SVVEGIS(0.001)S(0.002)QPGS(0.2:	3	-0.063642	0.0	0.0
Pcf11	0.249585	2.03E-16	59.912	SPDEPSTPGT(0.001)VVS(0.25)S(0.:	4	0.84349	0.0	0.0
Brsk2	0.498397	5.19E-08	56.817	SISGAS(0.001)S(0.003)GLS(0.498)	3	-0.78837	0.0	0.0
Prune2	0.142785	3.64E-09	41.933	ADGENPDILT(0.143)HCDQDS(0.14	4	-1.0274	0.0	0.0
Prune2	0.223899	9.19E-56	97.352	ADGENPDILTHCDQDS(0.045)NS(0	4	-0.56898	0.0	0.0
Prune2	0.331447	2.76E-08	42.885	QGQAGLDAVPT(0.331)QAAT(0.33	4	0.37587	0.0	0.0
Prune2	0.331447	2.76E-08	42.885	QGQAGLDAVPT(0.331)QAAT(0.33	4	0.37587	0.0	0.0
Prune2	0.498001	0.00238202	44.045	RT(0.498)S(0.498)DCT(0.004)FQP	4	-0.71587	0.0	0.0
Prune2	0.351716	1.79E-43	80.184	SSPDPSDMHGDIS(0.086)T(0.352)S	4	0.73656	0.0	0.0
Sorbs1	0.499576	0.000656475	83.214	RPSSS(0.001)AS(0.5)T(0.5)K	2	-0.093227	0.0	0.0
Sorbs1	0.213781	1.07E-15	53.553	S(0.001)PT(0.001)AHVPQS(0.069):	5	-0.9128	0.0	0.0
Sorbs1	0.213781	1.07E-15	53.553	S(0.001)PT(0.001)AHVPQS(0.069):	5	-0.9128	0.0	0.0
Sorbs1	0.498613	3.93E-27	114.99	YS(0.048)FS(0.297)EDT(0.499)KS(C	3	1.1731	0.0	0.0
Sorbs1	0.499576	0.000656475	83.214	RPSSS(0.001)AS(0.5)T(0.5)K	2	-0.093227	0.0	0.0
Sorbs1	0.295892	2.16E-115	117.9	FFSELEFGRPS(0.001)S(0.014)AVS(I	4	-0.14881	0.0	0.0
Sorbs1	0.200525	9.07E-16	52.697	FFSELEFGRPS(0.068)S(0.068)AVS(I	7	-0.28934	0.0	0.0
Sorbs1	0.498613	3.93E-27	114.99	YS(0.048)FS(0.297)EDT(0.499)KS(C	3	1.1731	0.0	0.0
Sorbs1	0.471763	1.42E-22	65.875	MS(0.008)S(0.008)AVS(0.421)PT(C	3	0.054287	0.0	0.0
Rapgef1	0.45946	2.49E-31	74.876	T(0.005)S(0.005)VS(0.082)PS(0.40	3	-0.69245	0.0	0.0
Ttn	0.499521	0.033915	42.336	FGIS(0.001)EPLT(0.5)S(0.5)PK	3	-1.4984	0.0	0.0
Ralgapa2	0.474436	3.69E-08	101.39	T(0.017)YS(0.474)FT(0.474)S(0.03	2	0.26772	0.0	0.0
lqsec1	0.457153	0.00101175	68.436	LQHS(0.086)T(0.457)S(0.457)VLR	2	0.74458	0.0	0.0
LOC69138	0.455238	9.18E-22	70.704	GS(0.098)ET(0.386)DT(0.455)DS(0	4	-0.028675	0.0	0.0
Ahnak2	0.163123	1.13E-09	51.39	DLS(0.141)PT(0.16)S(0.16)T(0.16)I	2	-0.095399	0.0	0.0
Ahnak2	0.163123	1.13E-09	51.39	DLS(0.141)PT(0.16)S(0.16)T(0.16)I	2	-0.095399	0.0	0.0
Ahnak2	0.497997	1.64E-15	63.225	QPEDQS(0.001)T(0.003)DAET(0.4	3	-0.55233	0.0	0.0
Ahnak2	0.457885	7.06E-07	45.489	LAEDQPT(0.001)DAET(0.042)S(0.0	3	1.1978	0.0	0.0
Kif21a	0.403778	7.26E-16	63.488	AHNLQDGQIS(0.404)DT(0.404)GD	3	-0.58034	0.0	0.0
Tenc1	0.347276	9.07E-06	53.453	RQDT(0.347)T(0.347)RS(0.303)PS(	3	0.54499	0.0	0.0
Tenc1	0.347276	9.07E-06	53.453	RQDT(0.347)T(0.347)RS(0.303)PS(	3	0.54499	0.0	0.0
Dmxl2	0.301281	2.54E-12	61.096	ESEAGT(0.301)GS(0.301)S(0.301)E	5	-1.1632	0.0	0.0
Dmxl2	0.400446	1.21E-06	55.189	NLAS(0.289)PEGT(0.4)LAT(0.311)L	2	0.032632	0.0	0.0
Dennd4a	0.477027	3.40E-10	63.374	EAT(0.046)S(0.477)T(0.477)EDIQC	3	-0.62314	0.0	0.0
Dennd4a	0.495928	1.45E-39	116.39	S(0.008)IS(0.496)T(0.496)CGPLDK	3	-0.86151	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	663
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	187
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	460
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1831
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1841
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2448
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2452
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	449
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1941
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	920
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	854;642
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	858;646
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	682;470;733
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	708;915;578
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	849
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	853
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	424
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	512
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	260
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	19919
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	486
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	88;87
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1254
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	276;276
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	277;277
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	546;546
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	722;5671
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1662;1563;1662
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	905
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	906
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	442;460
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1844;1862
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	924
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1487

Nyap2	0.411716	8.36E-15	88.319	LS(0.052)T(0.412)S(0.412)S(0.121)	3	1.8304	0.0	0.0
Filip1l	0.49758	9.59E-05	48.288	AQT(0.498)PES(0.498)CGS(0.004)	3	0.30404	0.0	0.0
Pnpla6	0.331318	4.13E-39	91.622	DEGGS(0.001)PEGAS(0.331)PS(0.3	3	-0.15594	0.0	0.0
Pnpla6	0.27034	3.77E-11	55.453	KVSQSTSS(0.002)LVDT(0.204)S(0.1	4	1.8875	0.0	0.0
Pnpla6	0.451607	7.55E-08	60.489	LFPS(0.001)PGLPT(0.452)RT(0.319	3	-0.33442	0.0	0.0
Pnpla6	0.461143	1.79E-07	71.558	VVS(0.461)T(0.461)S(0.067)GT(0.0	3	0.83523	0.0	0.0
Atxn2	0.187342	3.07E-19	56.22	DSFIDS(0.002)GS(0.018)S(0.203)S(	5	-0.97621	0.0	0.0
Atxn2	0.348251	8.46E-45	80.554	DSFIDSGSS(0.001)S(0.014)CT(0.05	4	-0.076152	0.0	0.0
Atxn2	0.332941	4.62E-05	44.391	GQIPS(0.001)S(0.001)LLLLLPT(0.33	3	-0.60823	0.0	0.0
Atxn2	0.332941	4.62E-05	44.391	GQIPS(0.001)S(0.001)LLLLLPT(0.33	3	-0.60823	0.0	0.0
Atxn2	0.33185	2.11E-08	46.953	RGPEVT(0.001)S(0.003)QGVQT(0.1	4	0.33853	0.0	0.0
LOC100351	0.445022	2.64E-10	48.286	TQSQDS(0.001)T(0.002)T(0.004)Y(	4	-0.96623	0.0	0.0
LOC100361	0.178025	8.30E-20	57.981	QFIAAQNLGPAS(0.178)GLPT(0.178)	4	-1.1808	0.0	0.0
LOC100361	0.178025	8.30E-20	57.981	QFIAAQNLGPAS(0.178)GLPT(0.178)	4	-1.1808	0.0	0.0
Etl4	0.460285	4.97E-05	45.363	KAGGDCKPT(0.46)S(0.46)PS(0.079	4	-0.48505	0.0	0.0
Atxn1l	0.31645	0.00723442	41.48	RES(0.26)EPLDS(0.316)T(0.316)S(0	2	-1.7491	0.0	0.0
Zfhx3	0.33223	5.23E-22	73.294	ALQESAT(0.003)GQPEPT(0.332)S(0	4	0.53876	0.0	0.0
LOC103691	0.455565	1.14E-09	77.221	S(0.135)NT(0.41)LNT(0.456)AIVNM	3	0.64029	0.0	0.0
Atrx	0.418069	2.69E-31	75.529	IKPVTENLVLPS(0.418)HT(0.418)GF	4	0.28555	0.0	0.0
Atrx	0.328878	5.96E-16	128.45	KNS(0.329)T(0.329)S(0.329)GS(0.0	3	0.42681	0.0	0.0
Cic	0.49545	2.33E-08	60.938	NSTDLD(0.009)APEDPT(0.495)S(0.0	3	-0.35824	0.0	0.0
Ppp1r12c	0.498828	7.22E-05	55.546	RS(0.499)T(0.499)QGV(0.002)LTI	3	1.4082	0.0	0.0
Ahnak	0.486424	2.20E-30	76.049	EFS(0.001)APS(0.102)T(0.486)PT(0	3	-0.61217	0.0	0.0
Ahnak	0.415269	2.37E-05	46.558	LPSGSGAAS(0.415)PT(0.415)T(0.1	2	0.44912	0.0	0.0
Ahnak	0.352938	7.54E-05	40.137	T(0.353)PS(0.353)FS(0.1)VS(0.081	3	1.2144	0.0	0.0
Atad1	0.436482	5.70E-39	83.602	EYVNS(0.021)T(0.436)S(0.314)EES	5	0.32198	0.0	0.0
Map1b	0.484039	3.65E-94	150.94	DVMSDETNNEET(0.484)ES(0.484)	3	-0.13749	0.0	0.0
Trim46	0.326624	2.22E-17	58.95	EVLGQQGYIGHGGDPS(0.001)S(0.001	4	-0.34464	0.0	0.0
Camk2d	0.499599	1.81E-15	62.589	ENIPT(0.001)PALEPQT(0.5)T(0.5)V	3	3.1363	0.0	0.0
Camk2d	0.499599	1.81E-15	62.589	ENIPT(0.001)PALEPQT(0.5)T(0.5)V	3	3.1363	0.0	0.0
Camk2d	0.497644	1.43E-18	73.498	ESTES(0.001)S(0.004)NT(0.498)T(0	3	-0.14259	0.0	0.0
Ank2	0.358802	1.37E-42	131.4	KAS(0.006)S(0.036)S(0.247)S(0.24	3	-1.3627	0.0	0.0
Ank2	0.47063	7.57E-06	52.569	AT(0.103)S(0.421)PLIEET(0.471)PI	3	-1.0139	0.0	0.0
Ank2	0.499538	1.12E-06	49.266	KT(0.5)S(0.5)LVIVESTDDQPQVFEK	4	2.7755	0.0	0.0



0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	100
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	746
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1320
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	102
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	332
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	346
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	624
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	630
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1034
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1037
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	658
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	378
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	39
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	41
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1640
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	280
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1597
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	25
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1220
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	768
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2312
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	561
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	5482
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	4879
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	318
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1020
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	63
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	352;352
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	353;353
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	370;370
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2661
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1754
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3817

Ank2	0.497433	5.67E-27	82.449	KT(0.001)S(0.004)LVIVES(0.497)T(	3	-0.23173	0.0	0.0
Ank2	0.486447	7.10E-46	104.38	MQDQQEY(0.001)Y(0.026)VT(0.48	3	0.27811	0.0	0.0
Ank2	0.486447	7.10E-46	104.38	MQDQQEY(0.001)Y(0.026)VT(0.48	3	0.27811	0.0	0.0
Ank2	0.460062	2.48E-07	54.103	VVTEEV(0.004)T(0.107)T(0.107)T	3	1.4389	0.0	0.0
Cdk14	0.48105	9.23E-05	78.401	RHS(0.68)S(0.282)PS(0.092)S(0.17	3	2.3838	0.0	0.0
Copg1	0.489158	6.39E-08	45.941	S(0.002)VPLAT(0.489)T(0.489)PM	4	-0.55407	0.0	0.0
Raf1	0.382455	1.27E-39	84.327	SHSESAS(0.004)PS(0.034)ALS(0.38	4	1.0883	0.0	0.0
Raf1	0.316121	5.28E-60	144.5	S(0.316)T(0.316)S(0.316)T(0.052)F	4	0.88255	0.0	0.0
Raf1	0.483684	1.30E-30	87.511	S(0.015)T(0.017)S(0.484)T(0.484)F	2	0.67372	0.0	0.0
Raf1	0.314725	2.51E-10	47.931	YSTPHAFT(0.013)FNT(0.315)S(0.3	4	0.2174	0.0	0.0
Ppfibp1	0.398338	9.88E-06	48.244	S(0.041)QS(0.398)T(0.398)T(0.144	3	0.081886	0.0	0.0
Ppfibp1	0.353734	1.82E-07	54.008	S(0.079)QS(0.283)T(0.283)T(0.354	3	1.7094	0.0	0.0
Evl	0.435432	4.55E-33	99.11	KEDENQTEDPS(0.116)T(0.435)S(0.	3	-0.02775	0.0	0.0
Inf2	0.331569	7.49E-24	68.461	GQGTHLPRGGEDEDEEDT(0.018)AL	3	0.41234	0.0	0.0
Scn10a	0.26285	5.51E-38	80.02	EQEVLAALGIDT(0.263)T(0.263)S(0	3	0.97731	0.0	0.0
Scn10a	0.26285	5.51E-38	80.02	EQEVLAALGIDT(0.263)T(0.263)S(0	3	0.97731	0.0	0.0
Zfp318	0.438598	1.29E-21	81.016	SYIKS(0.018)PS(0.104)S(0.439)T(0	3	1.2367	0.0	0.0
Rims1	0.328448	2.95E-07	44.31	QPS(0.227)RES(0.328)T(0.328)DG	4	-1.2928	0.0	0.0
Rims1	0.486794	3.20E-19	70.145	S(0.085)AS(0.427)T(0.487)NCLRPL	4	-0.38316	0.0	0.0
Map4k4	0.3833	6.40E-16	65.184	KGSVVNVNPT(0.383)NT(0.299)RPL	4	-0.31962	0.0	0.0
Map4k4	0.376877	6.40E-16	65.184	KGS(0.047)VNVNPT(0.377)NT(0.	4	-0.32783	0.0	0.0
Map4k4	0.327499	1.89E-11	68.044	LTANET(0.002)QS(0.016)AS(0.327	3	-0.17641	0.0	0.0
Map4k4	0.391173	0.00566472	52.5	T(0.322)T(0.391)S(0.431)RS(0.855	3	-0.14774	0.0	0.0
Map2	0.35595	1.66E-19	63.44	S(0.011)GT(0.032)S(0.103)T(0.356	4	0.49695	0.0	0.0
Map2	0.427127	1.01E-10	52.96	S(0.009)GT(0.018)S(0.055)T(0.183	3	0.57002	0.0	0.0
Map2	0.428223	1.32E-10	52.754	S(0.002)GT(0.004)S(0.01)T(0.03)P	3	1.3038	0.0	0.0
Map2	0.366442	2.04E-19	63.095	SGTSTPT(0.001)T(0.009)PGS(0.16	3	0.86466	0.0	0.0
Map2	0.14744	3.00E-39	74.57	ASQPS(0.004)PPAHEAGY(0.129)S(	4	1.0099	0.0	0.0
Map2	0.14744	3.00E-39	74.57	ASQPS(0.004)PPAHEAGY(0.129)S(	4	1.0099	0.0	0.0
Map2	0.437045	3.52E-66	93.492	EES(0.437)T(0.437)ET(0.126)PDIP/	3	-0.0095732	0.0	0.0
Map2	0.467497	3.54E-45	79.209	GHDLSPLAS(0.018)DILT(0.467)NT(	5	-0.45091	0.0	0.0
Map2	0.261444	4.85E-144	143.92	GHDLSPLASDILTNT(0.261)S(0.261	4	0.9242	0.0	0.0
Map2	0.477887	7.47E-08	59.372	T(0.019)T(0.019)AT(0.478)S(0.478	3	1.8818	0.0	0.0
Map2	0.49608	2.29E-10	48.51	QFDSPPMS(0.002)PFHGGS(0.496)	4	1.2451	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3825
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3749
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3750
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	779
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	125
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	303
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	258
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	260
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	242
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	582
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	583
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	288
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1273
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	438
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	439
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1058
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1412
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1067
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	991;1021;958
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	993;1023;960
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	930;960
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	644;675;675
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1679;1593
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1681;1595
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1686;1600
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1689;1603
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	720;634
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	726;640
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1294;1208
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	818
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	820
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1597;1511
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	405

Map2	0.313605	6.61E-11	41.551	VADVPS(0.002)EAT(0.314)T(0.31	6	-0.72179	0.0	0.0
Map2	0.435213	1.29E-34	70.701	VADVPS(0.003)EAT(0.126)T(0.43	5	-0.10912	0.0	0.0
Map2	0.249981	4.20E-20	73.138	VTGGQTTQVET(0.25)S(0.25)S(0.25	3	0.81135	0.0	0.0
Epb41l3	0.445209	7.52E-08	52.09	VVFLQQGT(0.445)S(0.445)PFLES(C	3	1.9183	0.0	0.0
Epb41l3	0.331204	5.88E-17	60.951	TDTAADGET(0.331)S(0.331)AT(0.3	4	-2.1406	0.0	0.0
Epb41l3	0.331204	5.88E-17	60.951	TDTAADGET(0.331)S(0.331)AT(0.3	4	-2.1406	0.0	0.0
Dlgap1	0.277569	9.79E-08	42.885	TTTKPFISIT(0.002)AQS(0.278)S(0.2	4	1.9201	0.0	0.0
Clint1	0.325523	4.47E-44	84.529	TIDLGAAAHY(0.003)T(0.015)GDKA	4	2.0714	0.0	0.0
Rap1gap2	0.46818	3.29E-08	45.941	QELANS(0.001)S(0.002)DVT(0.043	5	-0.19001	0.0	0.0
Chd3	0.333057	1.32E-10	61.524	EIQGDGPPS(0.333)S(0.333)PT(0.3	4	0.72592	0.0	0.0
Mapt	0.234271	6.88E-24	57.155	ES(0.001)PPQPPADDGS(0.234)EEF	5	-0.047592	0.0	0.0
Mapt	0.461175	3.75E-28	106.75	S(0.461)T(0.461)PT(0.078)AEDVT/	3	-0.36084	0.0	0.0
Mapt	0.455375	3.34E-66	93.955	HLS(0.002)NVS(0.086)S(0.344)T(0	6	-1.0407	0.0	0.0
Mapt	0.343535	2.32E-26	63.913	VSAET(0.008)QAS(0.304)PPEGPGT	4	0.27593	0.0	0.0
LOC10036	0.261374	0.0028335	52.009	CAT(0.261)PT(0.198)S(0.198)AVS(	2	-0.038859	0.0	0.0
Rufy3	0.425005	3.26E-48	91.1	T(0.425)PPS(0.425)PGS(0.15)PLPF	5	-1.9052	0.0	0.0
Ablim2	0.489111	6.02E-49	118.37	T(0.489)S(0.489)S(0.022)ESIVSVP/	3	0.34713	0.0	0.0
Sptbn1	0.418404	5.49E-13	68.676	T(0.418)S(0.418)S(0.132)KES(0.02	5	1.0935	0.0	0.0
Camk2g	0.479754	3.19E-32	112.96	GSTES(0.001)CNT(0.48)T(0.386)T(	3	-1.1976	0.0	0.0
Kif13b	0.494747	1.05E-12	64.377	LEV(0.495)S(0.495)DS(0.01)EDAS	3	-1.2289	0.0	0.0
Kif13b	0.4153	1.37E-06	48.077	S(0.001)AT(0.003)IS(0.032)GS(0.4	2	-0.70947	0.0	0.0
Parp4	0.230378	1.75E-14	49.087	VSEDFEGT(0.002)PAMAQS(0.23)P	5	-1.0298	0.0	0.0
Parp4	0.230378	1.75E-14	49.087	VSEDFEGT(0.002)PAMAQS(0.23)P	5	-1.0298	0.0	0.0
Eps15l1	0.395099	1.90E-06	53.453	ES(0.001)DPFHS(0.105)S(0.395)T(	4	0.63058	0.0	0.0
Eps15l1	0.18523	8.09E-13	43.088	GIDPPQVLS(0.069)PDMVPPS(0.18	4	-0.50885	0.0	0.0
Eps15l1	0.468966	4.54E-33	94.838	S(0.369)T(0.469)PS(0.159)HGS(0.0	4	0.44034	0.0	0.0
Eps15l1	0.39788	6.67E-42	110.33	STPSHGS(0.001)VS(0.011)S(0.013)	4	0.61558	0.0	0.0
Slc20a2	0.496393	1.39E-06	44.164	NNS(0.496)Y(0.004)T(0.496)CY(0.0	3	-0.58007	0.0	0.0
Tcof1	0.332921	3.32E-16	58.812	SAEPLASIVLAS(0.333)ET(0.333)EEI	4	0.89853	0.0	0.0
Eif4ebp2	0.393317	7.02E-24	65.766	TVAIS(0.001)DAAQLPQDY(0.531)C	4	-0.055973	0.0	0.0
Eif4ebp2	0.418793	7.02E-24	65.766	TVAIS(0.001)DAAQLPQDY(0.531)C	4	-0.055973	0.0	0.0
Eif4ebp2	0.20329	6.31E-09	44.988	TVAISDAAQLPQDY(0.173)CT(0.193	4	-0.018812	0.0	0.0
LOC10369	0.255596	5.45E-16	64.522	KPDNLT(0.001)AS(0.01)S(0.042)PS	4	0.58337	0.0	0.0
Samd14	0.377319	0.0005634	41.542	GS(0.014)AS(0.011)S(0.038)GS(0.0	3	1.1374	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	471;385
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	472;386
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	870;784
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	839
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	537
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	540
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	579
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	321
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	28
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	824
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	52;52
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	58;58
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	628;743
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	285;285
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1150
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	83
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	297
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2145
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	408;397;385
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1778
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1890
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1404
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1405
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	673
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	366
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	239
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	251
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	387
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	170
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	36
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	37
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	46
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	331
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	255

Tbc1d22b	0.466473	2.28E-16	104.95	S(0.007)QS(0.466)T(0.466)T(0.054	3	0.28695	0.0	0.0
Gtf3c2	0.476223	2.22E-06	41.115	VLGLQACAT(0.476)T(0.476)PGS(0	3	1.9731	0.0	0.0
Gtf3c2	0.476223	2.22E-06	41.115	VLGLQACAT(0.476)T(0.476)PGS(0	3	1.9731	0.0	0.0
Cebpb	0.0880973	4.66E-15	52.642	AYLGY(0.001)QAT(0.029)PS(0.088	4	0.58935	0.0	0.0
Radil	0.390106	1.01E-48	88.814	T(0.086)VS(0.39)ET(0.39)S(0.098)I	4	0.78002	0.0	0.0
Nacad	0.194557	3.63E-11	42.301	EGVPELQDT(0.027)PVAS(0.195)S(i	5	-0.67994	0.0	0.0
Mllt4	0.478662	9.58E-43	77.701	IT(0.01)S(0.032)VS(0.479)T(0.479)	4	-0.59227	0.0	0.0
Mllt4	0.495334	5.97E-12	49.152	ITSVS(0.001)T(0.004)GNLCT(0.495	4	0.026623	0.0	0.0
Mllt4	0.495334	5.97E-12	49.152	ITSVS(0.001)T(0.004)GNLCT(0.495	4	0.026623	0.0	0.0
Mllt4	0.404791	0.000244011	84.821	VS(0.007)S(0.215)AS(0.099)S(0.27	2	0.38681	0.0	0.0
Atp1a2	0.427683	5.01E-05	50.108	EY(0.002)S(0.143)PAAT(0.428)T(0.	3	-1.7243	0.0	0.0
Atp1a2	0.427683	5.01E-05	50.108	EY(0.002)S(0.143)PAAT(0.428)T(0.	3	-1.7243	0.0	0.0
Atp1a2	0.297467	1.19E-10	49.094	VDNSSLT(0.011)GES(0.096)EPQT((	4	0.29858	0.0	0.0
Atp1a2	0.297467	1.19E-10	49.094	VDNSSLT(0.011)GES(0.096)EPQT((	4	0.29858	0.0	0.0
Cald1	0.492776	2.71E-05	62.104	QSVDKVT(0.493)S(0.493)PT(0.014	3	-0.076988	0.0	0.0
Got2	0.451858	7.80E-05	49.354	FVT(0.001)VQT(0.452)IS(0.391)GT	3	2.44	0.0	0.0
H1f0	0.476218	2.51E-07	64.52	T(0.002)ENS(0.476)T(0.476)S(0.03	4	-0.11629	0.0	0.0
H1f0	0.475643	4.13E-05	52.576	T(0.001)ENS(0.045)T(0.239)S(0.23	3	-0.31043	0.0	0.0
Irs1	0.496614	1.61E-10	47.383	S(0.002)VT(0.005)PDS(0.047)LGH1	4	0.3657	0.0	0.0
Irs1	0.388818	0.000119358	46.892	T(0.001)HS(0.008)AGT(0.389)S(0.3	3	-2.963	0.0	0.0
Itgb4	0.498649	2.76E-33	74.058	LGQPNTAT(0.001)VIIGEQDET(0.49	4	0.88536	0.0	0.0
Itgb4	0.464603	1.00E-08	92.906	TDHS(0.071)QS(0.465)GT(0.465)LI	3	-0.18983	0.0	0.0
Ldhb	0.484749	5.10E-05	96.067	DYS(0.485)VT(0.485)ANS(0.03)K	2	0.028768	0.0	0.0
Map2	0.186515	4.68E-11	40.064	GHDLS(0.001)PLAS(0.021)DILT(0.1	7	-1.5207	0.0	0.0
Map2	0.186515	4.68E-11	40.064	GHDLS(0.001)PLAS(0.021)DILT(0.1	7	-1.5207	0.0	0.0
Map2	0.186515	4.68E-11	40.064	GHDLS(0.001)PLAS(0.021)DILT(0.1	7	-1.5207	0.0	0.0
Nf1	0.492853	3.43E-06	52.172	GSEGYLAAT(0.002)Y(0.012)PAVGC	2	0.42639	0.0	0.0
Nf1	0.497789	6.72E-06	53.448	RQEMES(0.004)GIT(0.498)T(0.498	3	0.56803	0.0	0.0
Nf1	0.497789	6.72E-06	53.448	RQEMES(0.004)GIT(0.498)T(0.498	3	0.56803	0.0	0.0
Slc16a1	0.479775	5.77E-08	57.703	DGKEDET(0.04)S(0.48)T(0.48)DVD	5	1.0556	0.0	0.0
Stat3	0.393091	1.33E-13	61.684	FICVT(0.161)PT(0.393)T(0.393)CS(	3	-1.0391	0.0	0.0
Stat3	0.393091	1.33E-13	61.684	FICVT(0.161)PT(0.393)T(0.393)CS(	3	-1.0391	0.0	0.0
Stat3	0.365612	6.11E-10	55.437	FICVTPT(0.001)T(0.005)CS(0.366)I	3	-0.7235	0.0	0.0
Gfpt2	0.456212	3.15E-07	64.04	LDS(0.088)S(0.456)T(0.456)CLHAV	3	-3.8731	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	219
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	220
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	28
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	683
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1209
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1218
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	566
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	14
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	15
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	224
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	230
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	526
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	131
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	6
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	8
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	448
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	525
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1110
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1436
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	87
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	732
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	734
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	737
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2495
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2545
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2546
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	461
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	716
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	717
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	721
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	246



Nop56	0.452576	1.90E-101	137.64	LAALALASS(0.001)ENS(0.094)S(0.4	4	-1.6064	0.0	0.0
Ralgapa1	0.477232	3.93E-08	56.339	S(0.001)QT(0.007)PS(0.037)PS(0.4	3	1.0123	0.0	0.0
Slc6a17	0.462949	1.54E-19	71.376	SYLGPGS(0.074)T(0.463)S(0.463)P	3	0.2031	0.0	0.0
Nat6	0.328945	2.07E-08	42.057	GPPLPPPPPLPLT(0.329)T(0.329)S(i	4	1.2965	0.0	0.0
Nat6	0.328945	2.07E-08	42.057	GPPLPPPPPLPLT(0.329)T(0.329)S(i	4	1.2965	0.0	0.0
Aimp1	0.449373	1.05E-30	99.413	SAS(0.012)VT(0.449)T(0.449)T(0.0	2	-0.69879	0.0	0.0
Esyt1	0.488736	2.24E-10	48.689	SPEEGAGPEPSGQS(0.001)PAT(0.0	4	-0.086573	0.0	0.0
Akap12	0.339114	6.07E-23	63.625	LEEKAEDS(0.062)S(0.19)VEQLS(0.1	4	-0.26862	0.0	0.0
Akap12	0.369232	5.59E-35	74.08	EHAADGPQLQS(0.004)LAQAEAS(0	6	-0.41983	0.0	0.0
Akap12	0.337722	1.12E-26	87.429	SAT(0.002)LS(0.038)S(0.131)T(0.0	2	0.92692	0.0	0.0
Akap12	0.333295	2.75E-23	68.445	VIETVVIS(0.333)ET(0.333)GES(0.3	5	-0.86754	0.0	0.0
Cdc42bpb	0.442739	0.000155389	46.89	T(0.443)S(0.443)S(0.11)AS(0.003)I	3	-0.28328	0.0	0.0
Rab31	0.478629	1.23E-21	71.853	FVQDHFHDNIS(0.479)PT(0.479)IG	4	-0.1394	0.0	0.0
Bckdha	0.353819	1.66E-33	137.39	IGHHS(0.354)T(0.354)S(0.292)DD	3	-0.71703	0.0	0.0
Nes	0.499698	7.38E-37	104.88	TQESGLDT(0.001)EET(0.5)QDS(0.5	3	-0.088558	0.0	0.0
Zeb1	0.432329	1.53E-15	59.048	TEEQPQPVDGNEPQEDS(0.135)T(0	4	0.72541	0.0	0.0
Zeb1	0.250191	1.56E-11	57.537	TSQCS(0.003)S(0.009)PS(0.074)LS	3	-0.00073429	0.0	0.0
Psma5	0.458097	1.18E-06	55.416	RIT(0.458)S(0.458)PLMEPS(0.061)	3	0.41815	0.0	0.0
Lama4	0.312278	2.80E-05	49.298	VFLT(0.001)VPS(0.063)LS(0.312)S(	3	1.7377	0.0	0.0
Cacnb1	0.473183	6.68E-12	64.249	S(0.025)DGS(0.473)T(0.473)S(0.02	3	0.039604	0.0	0.0
Gap43	0.48006	1.08E-09	61.477	EGDGS(0.017)AT(0.48)T(0.48)DAA	4	0.66959	0.0	0.0
Gap43	0.48006	1.08E-09	61.477	EGDGS(0.017)AT(0.48)T(0.48)DAA	4	0.66959	0.0	0.0
Rps3a	0.29927	1.00E-11	51.966	LMELHGEGGS(0.299)S(0.299)GKT(	4	1.0301	0.0	0.0
Slc25a1	0.490728	0.00111516	48.981	FIHDQT(0.491)S(0.491)S(0.019)NF	3	-1.177	0.0	0.0
Syn3	0.377741	4.00E-22	90.755	S(0.022)QS(0.33)LT(0.378)NS(0.2	3	0.030265	0.0	0.0
Pde3a	0.268474	0.00101182	40.602	S(0.191)FT(0.268)S(0.268)S(0.268	3	1.7438	0.0	0.0
Gphn	0.363286	3.02E-16	95.197	DTASLS(0.011)T(0.076)T(0.363)PS	2	0.34367	0.0	0.0
Sema4f	0.142004	4.32E-15	49.43	DKVGLDLGAPPS(0.142)GT(0.142)T	6	0.23001	0.0	0.0
Sema4f	0.142004	4.32E-15	49.43	DKVGLDLGAPPS(0.142)GT(0.142)T	6	0.23001	0.0	0.0
Mtor	0.306381	8.17E-07	41.65	T(0.306)GT(0.279)T(0.255)VPES(0	4	0.5414	0.0	0.0
Ccdc6	0.107896	2.24E-18	47.394	TVSS(0.001)PIPY(0.108)T(0.108)PS	6	0.65019	0.0	0.0
Nefl	0.257365	7.31E-07	45.237	LSFTSVGS(0.006)IT(0.224)S(0.224)	2	0.77966	0.0	0.0
Nefl	0.453362	9.63E-06	52.334	SAYSGLQS(0.026)S(0.118)S(0.118)	2	0.31856	0.0	0.0
Nefl	0.429263	0.00038786	45.438	S(0.001)AY(0.001)S(0.012)S(0.043	3	1.3584	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	467
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1006
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	700
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	278
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	279
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	113
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	23
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	777
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1634
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	636
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1394
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	968
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	38
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	339
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	523
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	653
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	298
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	55
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	950
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	45
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	88
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	89
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	241
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	155
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	542
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	494
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	266
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	715
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	716
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2471
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	330
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	413
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	433
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	43

Rtn4	0.456684	9.26E-19	67.11	LS(0.025)AS(0.379)PQELGKPY(0.4!	4	-0.54649	0.0	0.0
Ephb1	0.283081	7.01E-06	51.798	Y(0.001)LQDDT(0.173)S(0.173)DP'	3	0.55477	0.0	0.0
Efs	0.33068	2.46E-06	75.509	S(0.012)CS(0.329)PS(0.143)S(0.10	2	0.24783	0.0	0.0
Rbmxml	0.456595	1.08E-11	69.345	DVYLS(0.368)PRDDGY(0.457)S(0.1	3	0.49535	0.0	0.0
Shroom2	0.303985	4.51E-07	52.19	S(0.027)RS(0.253)S(0.253)PS(0.02	3	-0.94993	0.0	0.0
Map1b	0.499657	3.10E-08	59.339	ES(0.205)S(0.374)PT(0.404)Y(0.5)S	3	-1.4054	0.0	0.0
Map1b	0.408138	6.17E-08	60.307	T(0.017)IKS(0.268)PCDS(0.096)GY	3	0.41943	0.0	0.0
Map1b	0.403735	1.84E-08	59.537	T(0.023)T(0.024)RT(0.808)PEEGG\	3	-0.56446	0.0	0.0
Map1b	0.332479	1.84E-08	59.537	T(0.023)T(0.024)RT(0.808)PEEGG\	3	-0.56446	0.0	0.0
Map1b	0.391966	3.27E-06	54.912	T(0.056)T(0.056)RT(0.287)PEVS(0.	4	0.8894	0.0	0.0
Zbtb7a	0.486169	7.52E-29	74.744	AGDS(0.208)DEES(0.175)RPDDKG'	3	-1.655	0.0	0.0
Ppfia1	0.306178	5.88E-07	42.831	S(0.003)MS(0.003)S(0.006)IPPY(0.	3	-1.1228	0.0	0.0
Erf	0.357491	1.95E-09	47.499	TPADTGFAPDWAY(0.357)KPES(0	3	-0.71812	0.0	0.0
Myo18a	0.381061	8.30E-07	58.268	FSHNY(0.381)LS(0.326)DS(0.221)C	3	-1.372	0.0	0.0
Dcp1a	0.462599	1.35E-05	55.291	S(0.094)AS(0.419)PY(0.463)HGFT(	3	0.63541	0.0	0.0
Tjp2	0.460565	5.01E-10	57.537	SYHQAY(0.411)EPDY(0.461)EGRY(	5	0.039692	0.0	0.0
RGD15611	0.487353	0.000388258	42.347	DQS(0.709)PPPS(0.462)PPPS(0.34	3	0.1625	0.0	0.0
Alpl	0.249997	1.50E-19	65.184	TYNTNAQVPDS(0.25)AGT(0.25)AT	5	-0.87626	0.0	0.0
Slc44a2	0.457928	0.000881548	40.278	DAVY(0.018)GT(0.341)PQKY(0.45E	3	0.021103	0.0	0.0
Rbm17	0.437454	1.10E-19	57.144	AAIPPPVY(0.437)EEPDRPRS(0.377	6	-1.125	0.0	0.0
Matr3	0.45745	3.54E-11	47.795	DSFDDRGPS(0.003)LNPVLDY(0.45'	4	0.15786	0.0	0.0
Ank2	0.33751	1.82E-21	70.452	MQDQQEY(0.086)Y(0.338)VT(0.2E	3	0.40788	0.0	0.0
Akap2	0.311093	8.25E-16	54.167	DHS(0.007)S(0.028)PFY(0.311)S(0.	5	-0.70022	0.0	0.0
LOC100911	0.419676	0.0146799	55.604	S(0.26)FLS(0.321)Y(0.42)NK	2	1.2436	0.0	0.0
Tusc5	0.372607	1.65E-06	58.024	AS(0.171)S(0.722)VVT(0.223)T(0.2	3	0.95852	0.0	0.0

0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	774
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	778
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	129
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	211;214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	926
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1789;1663
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1914;1788
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1948;1822
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1950;1824
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	1965;1839
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	345
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	683
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	2039
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	84
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	234;261
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	689
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	117
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	16;16
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	214
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	202
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	3747
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	71
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	198
0.0	0.0	0.0	0.0	#DIV/0!	#DIV/0!	91