

Table SI. Primer sequences used for PCR.

A, Differentially expressed genes	
Gene	Sequence
YTHDF1-F	5'-CTTAATGGAGCGGTGGATGTC-3'
YTHDF1-R	5'-TGGCAGCGATAGCAACTCT-3'
IFIT2-F	5'-CCTCTGGACTGGCAATAGCA-3'
IFIT2-R	5'-CTTCACCTTCTTCACGCATCTT-3'
POLR1G-F	5'-AGCCACTAGAGCCTGAACTG-3'
POLR1G-R	5'-GCTGCTTCCGCTTCTTGTC-3'
DLEU2L-F	5'-TAGCCTGGACCTGTTCTCTTG-3'
DLEU2L-R	5'-ATCTGGACTTGCCTTGTGACT-3'
PCDHB14-F	5'-TCCTGGATTGCCACCATCTC-3'
PCDHB14-R	5'-CCACCATCTGTTGCCTGAATA-3'
RUNDC3B-F	5'-CCTGATTGATCGGTCTTGCTT-3'
RUNDC3B-R	5'-CGGTGGCTTAAAATCTGTTCC-3'
KRT13-F	5'-AGGCGGTCGTTGAGGTTCT-3'
KRT13-R	5'-TTGGAGGTGGCTATGGAGGT-3'

Table SI. Continued.

B, Alternative splicing

Gene	Sequence
PARP3-M/A-F	5'-AGGCTCATGGAGAGTTGCTA-3'
PARP3-M-R	5'-GGAGCCATGGCCAAGAAAAG-3'
PARP3-A-R	5'-GGACACTCACCCAAGAAAAG-3'
PALB2-M/A-F	5'-AGAGATCCTGCTGAGACAAACA-3'
PALB2-M-R	5'-CCGCCTTCAGCGTGCCCAAA-3'
PALB2-A-R	5'-TCTCCTCTAGCGTGCCCAAA-3'
CHD1L-M/A-F	5'-ACTACTTCTGTCTTCTTGGGAA-3'
CHD1L-M-R	5'-GGGCTGACAGCAAGTGAAGTGA-3'
CHD1L-A-R	5'-TTCTTATGTAGCAAGTGAAGTGA-3'
PARPBP-M/A-F	5'-CAGAAGTCTGTCTCGGATATGA-3'
PARPBP-M-R	5'-CTCCACTGTGCTGTTTGTTG-3'
PARPBP-A-R	5'-GTAGTTGACTCTGTTTGTTG-3'
BRCA2-M/A-F	5'-TGGAAGATGATGAAGTGAAGTGA-3'
BRCA2-M-R	5'-GAGGGTTCTCCCACTAAGAT-3'

Table SI. Continued.

B, Alternative splicing

Gene	Sequence
BRCA2-A-R	5'-TTTATTGTGCCCCTAAGAT-3'
CUL4A-M/A-F	5'-CGATCAGCAGTAGGATTCCA-3'
CUL4A-M-R	5'-CCTCCATCTGGGATATGGGATT-3'
CUL4A-A-R	5'-TGTCTATACAGGGATATGGGATT-3'
CHEK1-M/A-F	5'-CACCTTCTCCCAGGGTTTGC-3'
CHEK1-M-R	5'-CGACAAAATGCCGAGGTGCT-3'
CHEK1-A-R	5'-TCAACCTTCGCCGAGGTGCT-3'
ATF2-M/A-F	5'-ATGGAACTTGAGAAAGGACTG-3'
ATF2-M-R	5'-TGGCAAGAATACTTTCTAGCTG-3'
ATF2-A-R	5'-CTTCAGGAAATCTTTCTAGCTG-3'
MEN1-M/A-F	5'-CAGGCATGATCCTCAGACAG-3'
MEN1-M-R	5'-TTCATCACAGGCACCAAATTG-3'
MEN1-A-R	5'-AGCCCAGTAGGCACCAAATTG-3'

F, forward; R, reverse; YTHDF1, YTH N6-methyladenosine

RNA binding protein 1; IFIT2, interferon induced protein with
tetratricopeptide repeats 2; POLR1G, RNA polymerase I subunit G;
DLEU2L, deleted in lymphocytic leukemia 2 like; PCDHB14,
protocadherin beta 14; RUNDC3B, RUN domain containing 3B;
KRT13, keratin 13; PARP3, poly(ADP-ribose) polymerase family
member 3; PALB2, partner and localizer of BRCA2; CHD1L,
chromodomain helicase DNA binding protein 1 like; PARPBP,
PARP1 binding protein; BRCA2, BRCA2 DNA repair associated;
CUL4A, cullin 4A; CHEK1, checkpoint kinase 1; ATF2,
activating transcription factor 2; MEN1, menin 1.

Table SII. Summary of RNA-sequencing reads used in the transcription analysis.

Sample ID	Ctrl_1st	Ctrl_2nd	SRSF6_1st	SRSF6_2nd
Raw	78619380	85732418	83833740	82421956
Clean	75219663 (95.68)	82053547 (95.71)	80408093 (95.91)	78868208 (95.69)
Total reads	72344826	78895578	77419326	75819314
Total mapped	63049874 (87.15)	71535249 (90.67)	70775940 (91.42)	67857413 (89.5)
Total Uniquely mapped	58755685 (93.19)	68914332 (96.34)	68319879 (96.53)	65098069 (95.93)
Total Multiple mapped	4294189 (6.81)	2620917 (3.66)	2456061 (3.47)	2759344 (4.07)
Total pairs	36172413	39447789	38709663	37909657
Total uniquely concordant pairs	25840771 (71.44)	30404176 (77.07)	30328506 (78.35)	28838005 (76.07)
Splice reads	23806822 (40.52)	28721160 (41.68)	28032663 (41.03)	27318483 (41.97)
Nonsplice reads	34948863 (59.48)	40193172 (58.32)	40287216 (58.97)	37779586 (58.03)

Values are expressed as n or n (%). Ctrl, control; SRSF6, serine and arginine-rich splicing factor 6.

Table SIII. Significant differentially expressed genes in the SRSF6 vs. Ctrl groups.

Gene	logFC	logCPM	P-value	FDR	Ctrl_1st	Ctrl_2nd	SRSF6_1st	SRSF6_2nd	Up/down	Symbol
ENSG00000124193.14	4.745524408	11.8713541	1.08x10-79	2.94x10-75	54.73	52.5	1054.48	1706.99	Up	SRSF6
ENSG00000275209.1	4.400352258	2.502562681	6.93x10-45	6.33x10-41	7.44	10.07	352.39	5.63	Up	FP236383.4
ENSG00000201512.1	2.365161129	1.677565865	5.80x10-16	1.59x10-12	10.88	2.52	23.38	41.37	Up	SNORA71C
ENSG00000277644.1	2.530327576	-1.299147667	2.06x10-05	2.33x10-03	2.48	1.06	19.34	0	Up	FP236383.12
ENSG00000149658.17	-2.072360545	7.689037374	2.22x10-20	7.59x10-17	96.93	76.88	18.68	20.99	Down	YTHDF1
ENSG00000275097.1	1.030250322	2.827285453	1.78x10-05	2.08x10-03	7.63	9.15	16.22	16.7	Up	RP11-627K11.6
ENSG00000117877.10	1.252603789	5.535263649	1.56x10-08	9.51x10-06	8.11	6.21	12.59	20.18	Up	CD3EAP
ENSG00000222365.1	-1.07342512	0.385497126	1.08x10-03	3.36x10-02	18.36	13.7	7.81	6.67	Down	SNORD12B
ENSG00000199293.1	2.20160085	-1.05970793	3.47x10-05	3.28x10-03	0.46	1.38	4.39	4.18	Up	SNORA21
ENSG00000259001.3	-1.196428791	2.739527636	8.27x10-07	2.04x10-04	19.19	5.78	4.25	6.18	Down	RPPH1
ENSG00000259984.1	1.121846089	0.817790199	1.55x10-04	9.25x10-03	0.93	3	4.24	4.15	Up	RP11-335G20.7
ENSG00000221803.1	2.053203528	-1.293774959	3.07x10-04	1.46x10-02	1.66	0.47	4.07	4.26	Up	SNORD23
ENSG00000119922.8	1.583023267	3.672028032	1.41x10-11	1.75x10-08	1.58	1.55	4.04	4.97	Up	IFIT2
ENSG00000277916.1	1.932449749	-1.241599546	4.70x10-04	1.90x10-02	0.72	0.77	3.89	1.63	Up	uc_338
ENSG00000224959.1	1.730874189	1.272668034	5.53x10-09	4.59x10-06	1.83	0.35	3.26	3.51	Up	AC017002.2

ENSG00000260193.1	1.624243552	2.006990572	5.94x10-10	6.23x10-07	0.84	1.64	3.24	4.18	Up	RP11-83N9.5
ENSG00000139211.6	1.143665846	3.473766913	9.94x10-07	2.39x10-04	1.71	1.29	2.91	3.44	Up	AMIGO2
ENSG00000167656.4	1.469946988	0.751580979	3.28x10-06	6.26x10-04	1.28	0.58	2.82	2.06	Up	LY6D
ENSG00000273742.1	3.873447729	-2.186233652	1.51x10-04	9.17x10-03	0	0.27	2.77	2.32	Up	MIR6075
ENSG00000270640.1	5.522539767	-0.896004714	2.76x10-13	5.40x10-10	0	0.09	2.76	2.42	Up	RP11-373D23.2
ENSG00000274383.1	1.56154071	0.222237189	8.82x10-06	1.22x10-03	1.11	0.75	2.73	2.49	Up	CTD-2017F17.2
ENSG00000279520.1	1.174289366	1.922880776	7.67x10-06	1.13x10-03	1.61	1.34	2.69	3.68	Up	RP11-20I23.2
ENSG00000250988.7	1.230837972	0.786445008	6.82x10-05	5.23x10-03	1.04	1.11	2.66	2.19	Up	SNHG21
ENSG00000258897.1	1.798431452	-0.872686114	1.85x10-04	1.02x10-02	0.89	0.34	2.65	1.34	Up	EGLN3-AS1
ENSG00000269968.1	-1.095902802	1.768835742	3.90x10-05	3.58x10-03	9.43	9.17	2.62	5.75	Down	RP5-940J5.9
ENSG00000278022.1	1.750838077	0.360435851	4.11x10-07	1.29x10-04	1.32	0.79	2.58	4.21	Up	RP11-35O15.2
ENSG00000276931.1	1.745118358	-0.010310771	3.29x10-06	6.26x10-04	0.67	0.49	2.52	1.17	Up	RP11-161M6.6
ENSG00000279720.1	-1.020021722	1.02619355	4.69x10-04	1.90x10-02	6	3.16	2.52	1.76	Down	bP-2171C21.6
ENSG00000277142.1	1.558189927	2.543056117	4.64x10-10	5.08x10-07	1.08	1.15	2.49	3.83	Up	LINC00235
ENSG00000170684.8	1.070393797	2.495296057	1.37x10-05	1.68x10-03	1.53	2.01	2.48	4.7	Up	ZNF296
ENSG00000270061.1	1.389680583	-0.597771733	1.24x10-03	3.60x10-02	1.11	0.51	2.37	1.63	Up	RP11-214K3.19
ENSG00000224536.1	-1.24696861	0.634433329	9.16x10-05	6.45x10-03	5.18	5.42	2.32	1.95	Down	RP11-134G8.7

ENSG00000221241.1	3.792911966	-2.24031381	2.66x10-04	1.31x10-02	0	0.29	2.31	2.73	Up	SNORD88A
ENSG00000280151.1	1.275294246	0.033596736	5.94x10-04	2.25x10-02	1.86	0.76	2.25	3.75	Up	FKSG59
ENSG00000261270.1	-1.40194719	1.354321073	7.60x10-07	1.93x10-04	5.86	4.54	2.23	1.51	Down	RP11-325K4.3
ENSG00000273017.1	1.799502775	-0.797477117	6.90x10-05	5.23x10-03	0.13	0.69	2.21	0.67	Up	AP000240.9
ENSG00000261092.1	1.546801994	-0.794672341	8.48x10-04	2.81x10-02	0.36	0.67	2.04	0.91	Up	RP11-21B23.2
ENSG00000279849.1	1.89294119	-0.809642685	6.90x10-05	5.23x10-03	0.65	0.35	2.04	1.47	Up	FKSG70
ENSG00000227200.1	2.337405254	-0.310666527	5.22x10-08	2.68x10-05	0.33	0.77	1.98	3.55	Up	RP11-121A14.3
ENSG00000200354.1	3.322327613	-1.513737086	2.80x10-06	5.51x10-04	0	0.58	1.96	4.53	Up	SNORA71D
ENSG00000241975.1	-1.534282746	0.116661794	2.07x10-05	2.33x10-03	3.34	4.82	1.9	0.78	Down	TCEB1P19
ENSG00000239948.2	1.765235285	-0.809230994	1.88x10-04	1.02x10-02	0.77	0.66	1.9	2.79	Up	RN7SL368P
ENSG00000244357.3	2.382967891	-1.85295685	1.14x10-03	3.49x10-02	0.41	0	1.87	0.09	Up	RN7SL145P
ENSG00000231711.2	1.485333453	-0.163165085	8.26x10-05	6.08x10-03	0.37	1.11	1.82	2.29	Up	LINC00899
ENSG00000278000.1	1.374162918	-0.082788883	2.47x10-04	1.26x10-02	0.64	0.63	1.79	1.37	Up	AC139100.4
ENSG00000273004.1	3.054790827	-0.552928586	6.14x10-10	6.23x10-07	0.04	0.24	1.75	0.66	Up	GS1-279B7.2
ENSG00000262601.1	1.730038304	0.521530539	2.46x10-07	8.65x10-05	0.66	0.74	1.73	2.77	Up	CTC-786C10.1
ENSG00000259341.1	-1.482310396	0.20079556	2.61x10-05	2.85x10-03	2.92	4.01	1.73	0.63	Down	RP11-20G13.1
ENSG00000260366.1	6.265199891	-2.187630896	8.99x10-06	1.22x10-03	0	0	1.73	0.1	Up	CTD-2639E6.4

ENSG00000269082.1	-1.080699799	0.470969254	1.10x10-03	3.40x10-02	1.87	3.66	1.71	0.8	Down	CTD-2620I22.1
ENSG00000227150.1	1.881684766	-0.833960934	4.64x10-05	4.13x10-03	0.22	1.02	1.69	2.95	Up	RP11-473E2.3
ENSG00000166153.16	1.184402873	0.689514067	1.57x10-04	9.33x10-03	0.74	0.67	1.66	1.41	Up	DEPDC4
ENSG00000223861.1	2.709638527	-0.988516349	6.67x10-07	1.76x10-04	0.12	0.26	1.65	0.89	Up	RP11-74C1.2
ENSG00000262333.1	-1.159694285	1.388737076	3.15x10-05	3.06x10-03	3.5	2.88	1.65	1.07	Down	HNRNPA1P16
ENSG00000255893.1	-1.411160434	0.329551143	3.89x10-05	3.58x10-03	2.41	2.73	1.59	0.24	Down	RP11-685N10.1
ENSG00000233695.2	1.040305468	3.297850033	8.42x10-06	1.22x10-03	0.63	0.9	1.58	1.45	Up	GAS6-AS1
ENSG00000223111.1	6.771657735	-1.810342957	8.11x10-08	3.89x10-05	0	0	1.57	2.06	Up	SNORA74
ENSG00000254783.1	1.556143255	0.098665195	2.58x10-05	2.83x10-03	0.82	0.38	1.56	1.78	Up	RP11-320L11.2
ENSG00000275693.1	5.72872428	-2.549085929	3.65x10-04	1.58x10-02	0	0	1.55	0.49	Up	FAS-AS1
ENSG00000249087.6	2.003938311	1.674100912	8.16x10-13	1.40x10-09	0.36	0.46	1.53	1.63	Up	ZNF436-AS1
ENSG00000239373.3	3.067057425	-1.691265241	3.17x10-05	3.06x10-03	0.31	0	1.52	0.94	Up	RN7SL425P
ENSG00000237004.3	-1.12073699	0.17485391	1.39x10-03	3.80x10-02	1.78	3.81	1.49	1	Down	ZNRF2P1
ENSG00000227764.1	-1.331738647	-0.064193236	3.72x10-04	1.61x10-02	2.64	3.49	1.47	0.85	Down	RP11-354K1.1
ENSG00000272807.1	1.364417837	-0.246900573	3.53x10-04	1.58x10-02	0.21	0.77	1.42	1.08	Up	RP11-260M2.1
ENSG00000182600.9	1.220831876	-0.186693814	1.44x10-03	3.90x10-02	0.53	0.59	1.4	1.1	Up	C2orf82
ENSG00000263235.1	1.389072255	1.112277656	3.11x10-06	5.99x10-04	1.34	0.56	1.38	3.33	Up	RP11-461A8.4

ENSG00000262664.2	1.133831858	0.323076601	8.97x10-04	2.95x10-02	0.81	0.35	1.36	1.03	Up	OVCA2
ENSG00000255541.1	5.832923057	-2.482344285	1.95x10-04	1.02x10-02	0	0	1.34	0.23	Up	RP11-727A23.8
ENSG00000272668.1	-1.061482566	0.968104433	3.34x10-04	1.57x10-02	2.78	3.23	1.33	1.43	Down	RP11-190A12.8
ENSG00000261253.2	1.049222733	0.424765412	1.03x10-03	3.24x10-02	0.28	0.88	1.33	1.03	Up	AC137932.6
ENSG00000203883.6	1.386459416	1.438337018	7.52x10-07	1.93x10-04	0.67	0.68	1.29	2.12	Up	SOX18
ENSG00000004799.7	-1.039200537	3.051225216	1.21x10-05	1.52x10-03	2.01	3.32	1.26	1.23	Down	PDK4
ENSG00000243137.7	1.239601911	1.602017806	5.93x10-06	9.06x10-04	0.92	0.49	1.24	1.95	Up	PSG4
ENSG00000235554.1	4.635681071	0.226230602	1.06x10-20	4.16x10-17	0.15	0	1.22	2.19	Up	AC005822.1
ENSG00000172602.9	-1.094563378	1.633351303	4.56x10-05	4.10x10-03	1.5	2.72	1.22	0.67	Down	RND1
ENSG00000146707.14	1.004553198	1.085308616	5.86x10-04	2.25x10-02	0.82	0.77	1.22	1.83	Up	POMZP3
ENSG00000256361.1	2.705159579	-1.940907467	5.93x10-04	2.25x10-02	0.21	0	1.22	0.06	Up	RP11-613F22.6
ENSG00000237819.5	1.257793957	-0.355349527	1.83x10-03	4.71x10-02	0.58	0.79	1.2	1.99	Up	AC002454.1
ENSG00000277459.1	2.9137052	-1.006748429	6.67x10-07	1.76x10-04	0.29	0	1.17	0.83	Up	RP11-732A21.3
ENSG00000239419.3	4.219922333	-1.939931329	9.27x10-06	1.24x10-03	0.1	0	1.16	0.93	Up	RN7SL535P
ENSG00000228201.1	1.802070361	-1.323725527	1.40x10-03	3.83x10-02	0.47	0.2	1.15	1.06	Up	AL022341.3
ENSG00000275769.1	2.207486236	-1.357864875	1.91x10-04	1.02x10-02	0.07	0.37	1.14	0.99	Up	RP11-771K4.3
ENSG00000261087.1	1.26774348	1.516796625	5.90x10-06	9.06x10-04	0.7	0.31	1.12	1.19	Up	KB-1460A1.5

ENSG00000274737.1	1.840226786	0.071408082	1.01x10-06	2.41x10-04	1.18	0.3	1.12	3.85	Up	RP5-1057I20.6
ENSG00000278341.1	1.388556066	0.087524001	7.72x10-05	5.74x10-03	0.25	0.39	1.12	0.48	Up	RP5-1142A6.10
ENSG00000230795.2	-1.032501572	1.155724636	3.34x10-04	1.57x10-02	2.37	2.45	1.12	1.14	Down	HLA-K
ENSG00000223872.1	-1.21376472	0.615617156	1.27x10-04	8.07x10-03	2.78	3.66	1.11	1.57	Down	AC006372.5
ENSG00000248971.2	1.591848311	0.157418952	8.43x10-06	1.22x10-03	0.34	0.29	1.11	0.72	Up	KRT8P46
ENSG00000256152.2	4.08614789	-2.035207227	2.82x10-05	3.00x10-03	0.06	0	1.09	0.06	Up	RP11-463O12.3
ENSG00000271751.1	3.020581277	-1.418390118	4.52x10-06	7.53x10-04	0	0.25	1.08	1.13	Up	RP11-110I1.14
ENSG00000277581.1	3.01095503	-1.730912311	5.17x10-05	4.47x10-03	0.17	0	1.06	0.26	Up	RP4-616B8.6
ENSG00000213638.5	1.368767314	0.950835449	3.77x10-06	6.88x10-04	0.34	0.75	1.04	1.72	Up	ADAT3
ENSG00000226756.1	3.170049157	-1.295987534	7.21x10-07	1.86x10-04	0.15	0.04	1.01	0.62	Up	AC007365.3
ENSG00000236242.1	6.65639801	-1.898143984	2.57x10-07	8.79x10-05	0	0	1	0.14	Up	MYO16-AS1
ENSG00000279259.1	1.456496093	0.342185491	2.62x10-05	2.85x10-03	0.56	0.27	1	1.17	Up	RP11-334C17.3
ENSG00000261342.1	1.375468034	0.223454225	5.96x10-05	4.69x10-03	0.21	0.44	1	0.66	Up	AC006538.1
ENSG00000273544.1	-1.422260926	-0.283912183	2.86x10-04	1.38x10-02	6.67	7.67	1	4.18	Down	SNORA44
ENSG00000166816.13	-1.087781524	1.911499282	3.11x10-05	3.05x10-03	1.7	2.47	0.99	0.89	Down	LDHD
ENSG00000270022.3	2.886385236	-1.031046579	3.08x10-07	1.00x10-04	0.23	0.04	0.99	0.87	Up	RNU12
ENSG00000206838.1	5.731407706	-2.547708866	3.65x10-04	1.58x10-02	0	0	0.98	1.65	Up	SNORA5A

ENSG00000232527.7	1.436227389	0.006195601	9.88x10-05	6.85x10-03	0.58	0.46	0.97	1.74	Up	RP11-14N7.2
ENSG00000229422.1	2.401589212	-1.060322003	9.37x10-06	1.24x10-03	0.05	0.29	0.97	0.88	Up	RP11-262H14.5
ENSG00000269275.1	2.32202844	-1.448018553	1.68x10-04	9.81x10-03	0.22	0.09	0.96	0.55	Up	CTD-2105E13.15
ENSG00000203497.2	-1.187666689	0.402380763	3.63x10-04	1.58x10-02	2.19	1.7	0.95	0.67	Down	PDCD4-AS1
ENSG00000280033.1	1.669823198	-0.299208934	3.76x10-05	3.51x10-03	0.2	0.37	0.94	0.83	Up	CTD-2095E4.3
ENSG00000251639.2	1.188927204	0.541048472	3.44x10-04	1.58x10-02	0.98	0.26	0.94	1.72	Up	RP11-20I20.1
ENSG00000267231.1	5.832392123	-2.482618171	1.95x10-04	1.02x10-02	0	0	0.93	0.07	Up	AC005786.5
ENSG00000259604.5	-1.071543978	0.876489092	3.94x10-04	1.68x10-02	1.44	2.04	0.93	0.65	Down	RP11-66B24.1
ENSG00000280276.1	-1.222120847	1.554818724	6.58x10-06	9.90x10-04	1.98	1.59	0.93	0.52	Down	RP11-314C9.1
ENSG00000240032.1	1.923737768	-0.788166356	4.96x10-05	4.30x10-03	0.34	0.18	0.93	0.97	Up	RP11-274H2.3
ENSG00000257475.2	1.843822193	-0.852437152	1.33x10-04	8.42x10-03	0.28	0.39	0.93	1.44	Up	RP11-983P16.2
ENSG00000265939.1	3.170774015	-2.035410618	2.60x10-04	1.30x10-02	0.06	0.05	0.93	0.11	Up	UBE2CP2
ENSG00000197837.3	-1.324501503	0.014202023	2.80x10-04	1.36x10-02	2.16	1.89	0.91	0.62	Down	HIST4H4
ENSG00000133808.4	1.025118908	0.731830309	1.08x10-03	3.36x10-02	0.37	0.23	0.91	0.24	Up	MICALCL
ENSG00000272367.1	-1.315362041	0.892644181	1.27x10-05	1.59x10-03	3.45	1.38	0.91	0.92	Down	CTC-428H11.2
ENSG00000203780.10	-1.050620811	1.320907633	1.83x10-04	1.02x10-02	1.61	2.32	0.9	0.92	Down	FANK1
ENSG00000232334.1	2.065068415	-1.615980289	1.34x10-03	3.70x10-02	0.35	0	0.9	0.42	Up	RP11-47G11.2

ENSG00000261692.1	7.795922104	-0.959017865	3.19x10-14	6.73x10-11	0	0	0.89	2.72	Up	RP1-168P16.1
ENSG00000279901.1	1.229942278	0.149995682	6.04x10-04	2.28x10-02	0.42	0.23	0.89	0.57	Up	CTD-2270P14.2
ENSG00000143217.8	1.002682057	1.969031271	8.95x10-05	6.38x10-03	0.46	0.79	0.88	1.55	Up	PVRL4
ENSG00000280010.1	1.702048545	0.004855685	5.67x10-06	8.77x10-04	0.36	0.33	0.87	1.31	Up	AP001350.4
ENSG00000178404.9	1.178770481	1.048709095	6.88x10-05	5.23x10-03	0.58	0.43	0.86	1.35	Up	CEP295NL
ENSG00000264575.1	1.069663058	0.338568752	1.20x10-03	3.60x10-02	0.24	0.46	0.86	0.57	Up	LINC00526
ENSG00000226824.6	1.426869702	-0.537428802	5.57x10-04	2.17x10-02	0.07	0.6	0.86	0.97	Up	RP4-756H11.3
ENSG00000220785.7	-1.034799776	2.376661277	3.06x10-05	3.02x10-03	2.15	1.86	0.85	1.02	Down	MTMR9LP
ENSG00000276171.1	-2.361331757	-1.624350436	3.43x10-04	1.58x10-02	3.86	7.83	0.84	1.31	Down	AC114498.1
ENSG00000232133.1	1.419685773	0.674511642	1.07x10-05	1.38x10-03	0.79	0.17	0.82	1.57	Up	IMPDH1P10
ENSG00000237883.1	-1.163679591	0.199680927	8.01x10-04	2.72x10-02	1.62	1.38	0.82	0.45	Down	DGUOK-AS1
ENSG00000251611.1	-1.37862314	0.056131084	1.47x10-04	9.05x10-03	3.06	3.7	0.81	1.69	Down	RP11-610P16.1
ENSG00000276259.1	-1.086800846	0.181014985	1.57x10-03	4.14x10-02	2.09	0.83	0.81	0.47	Down	RP11-481J2.4
ENSG00000106006.6	1.500184824	-0.529193999	4.26x10-04	1.78x10-02	0.34	0.24	0.8	0.75	Up	HOXA6
ENSG00000203288.3	-1.275977638	0.492914768	1.04x10-04	6.87x10-03	0.98	2.28	0.8	0.5	Down	RP11-98D18.9
ENSG00000216895.8	1.631665532	-0.092208893	1.89x10-05	2.17x10-03	0.33	0.24	0.79	0.89	Up	AC009403.2
ENSG00000277157.1	-1.542505426	-0.636280517	4.49x10-04	1.85x10-02	2.53	2.25	0.76	0.8	Down	HIST1H4D

ENSG00000213793.4	2.912435263	-1.239969275	1.76x10-06	3.83x10-04	0.06	0.19	0.76	1.15	Up	ZNF888
ENSG00000203804.4	1.765890478	-0.813403292	1.88x10-04	1.02x10-02	0.15	0.23	0.76	0.48	Up	ADAMTSL4-AS1
ENSG00000236529.1	-1.67149216	-0.964611467	6.75x10-04	2.41x10-02	1.58	1.48	0.75	0.14	Down	RP13-254B10.1
ENSG00000148677.6	1.850143075	0.54895336	3.23x10-08	1.88x10-05	0.32	0.21	0.74	1.09	Up	ANKRD1
ENSG00000272338.2	-1.895467749	0.198515352	1.56x10-07	6.38x10-05	2.63	2.48	0.73	0.57	Down	RP11-722E23.2
ENSG00000272144.1	-1.164499315	0.096715319	1.12x10-03	3.48x10-02	0.99	1.29	0.73	0.24	Down	CTD-2035E11.5
ENSG00000234936.1	3.023732852	-2.133430504	7.38x10-04	2.54x10-02	0.08	0.07	0.73	0.49	Up	AC010883.5
ENSG00000179564.3	2.480971638	-0.366831438	4.16x10-08	2.28x10-05	0.2	0.05	0.72	0.61	Up	LSMEM2
ENSG00000280269.1	2.208886413	-0.917201475	1.31x10-05	1.63x10-03	0.17	0.15	0.72	0.72	Up	AP000577.2
ENSG00000163520.13	-1.059440604	2.271040276	2.36x10-05	2.63x10-03	1.1	1.28	0.71	0.38	Down	FBLN2
ENSG00000182782.7	-1.104687489	1.370368804	8.38x10-05	6.09x10-03	0.92	1.95	0.71	0.58	Down	HCAR2
ENSG00000272155.1	3.872423818	-2.186768508	1.51x10-04	9.17x10-03	0	0.06	0.71	0.37	Up	RP11-707M3.3
ENSG00000186847.5	1.889650856	-0.381125303	1.11x10-05	1.43x10-03	0.27	0.05	0.7	0.4	Up	KRT14
ENSG00000226259.10	1.064792987	0.286330268	1.77x10-03	4.60x10-02	0.28	0.35	0.7	0.57	Up	GTF2H2B
ENSG00000272444.1	3.788264021	-2.242731484	2.66x10-04	1.31x10-02	0	0.04	0.69	0	Up	RP11-1017G21.6
ENSG00000232487.1	6.412374649	-2.082070897	2.70x10-06	5.44x10-04	0	0	0.69	0.8	Up	RASA3-IT1
ENSG00000217648.1	1.975911026	-1.084973675	1.65x10-04	9.70x10-03	0.11	0.14	0.69	0.24	Up	RP1-95L4.4

ENSG00000131471.6	1.02710103	1.448096234	2.14x10-04	1.12x10-02	0.46	0.23	0.68	0.66	Up	AOC3
ENSG00000253903.2	4.862807894	-1.449201256	8.63x10-09	6.06x10-06	0	0.03	0.68	0.51	Up	RP11-521M14.2
ENSG00000255222.1	3.308387249	-1.943893345	9.17x10-05	6.45x10-03	0	0.06	0.68	0.03	Up	SETP17
ENSG00000279812.1	5.6184674	-2.617991912	6.88x10-04	2.41x10-02	0	0	0.68	1.43	Up	CTD-2545G14.4
ENSG00000270108.1	-1.417469228	0.197324387	4.90x10-05	4.30x10-03	3.08	1.88	0.67	1.1	Down	RP11-73M18.6
ENSG00000271780.1	1.568501007	-0.68933276	4.60x10-04	1.88x10-02	0.31	0.14	0.66	0.61	Up	RP11-1017G21.5
ENSG00000260259.1	2.179124322	-1.548605121	5.88x10-04	2.25x10-02	0.13	0.11	0.66	0.38	Up	RP11-368I7.4
ENSG00000262402.1	5.614133494	-2.620205714	6.88x10-04	2.41x10-02	0	0	0.66	0	Up	RP11-667K14.8
ENSG00000275322.1	1.360779805	-0.566727142	1.52x10-03	4.04x10-02	0.21	0.3	0.65	0.63	Up	RP11-262A16.1
ENSG00000258620.1	-1.357042451	-0.334599307	5.93x10-04	2.25x10-02	1.91	1.11	0.65	0.46	Down	RP11-362L22.1
ENSG00000250474.1	2.889735025	-1.031601761	3.08x10-07	1.00x10-04	0.13	0.05	0.64	0.67	Up	WBP1LP2
ENSG00000203618.5	1.498595399	-0.462783745	3.17x10-04	1.50x10-02	0.25	0.13	0.64	0.39	Up	GP1BB
ENSG00000268543.1	-1.486199693	-0.476222482	3.17x10-04	1.50x10-02	2.09	1.31	0.64	0.5	Down	CTD-2619J13.16
ENSG00000167874.6	2.146801215	-1.382680793	6.60x10-04	2.41x10-02	0.24	0	0.63	0.35	Up	TMEM88
ENSG00000276728.1	2.050611293	-0.60014504	5.45x10-06	8.48x10-04	0.16	0.07	0.63	0.27	Up	AC142472.6
ENSG00000228546.2	-1.944719306	-0.875880886	6.52x10-05	5.06x10-03	1.79	1.74	0.63	0.22	Down	CTA-313A17.3
ENSG00000272518.1	-1.132540685	0.146585899	1.22x10-03	3.60x10-02	1.82	0.91	0.63	0.54	Down	RP11-26J3.3

ENSG00000273343.1	1.839865794	-1.29076971	1.96x10-03	4.97x10-02	0.43	0	0.63	0.79	Up	XXbac-B444P24.13
ENSG00000250709.1	1.556083851	-0.255767888	8.33x10-05	6.08x10-03	0.16	0.16	0.62	0.31	Up	CCDC169-SOHLH2
ENSG00000269894.1	4.280930347	-1.895379314	5.34x10-06	8.35x10-04	0.05	0	0.62	0.55	Up	RP11-1020A11.1
ENSG00000197140.14	1.272342306	0.30833633	1.74x10-04	1.01x10-02	0.25	0.19	0.61	0.41	Up	ADAM32
ENSG00000214756.7	1.148157375	0.451011596	3.99x10-04	1.70x10-02	0.28	0.4	0.61	0.85	Up	METTL12
ENSG00000272748.1	6.268241296	-2.186026604	8.99x10-06	1.22x10-03	0	0	0.61	0.37	Up	RP11-222G7.2
ENSG00000236611.1	5.616299207	-2.619099154	6.88x10-04	2.41x10-02	0	0	0.61	0.32	Up	AP000343.2
ENSG00000254774.1	5.932118343	-2.417492597	1.04x10-04	6.87x10-03	0	0	0.61	0.32	Up	RP11-148O21.3
ENSG00000184489.11	-1.020759726	1.296008368	2.60x10-04	1.30x10-02	0.79	1.12	0.6	0.3	Down	PTP4A3
ENSG00000261600.1	6.109426897	-2.297397129	3.04x10-05	3.00x10-03	0	0	0.6	0.26	Up	RP11-575H3.1
ENSG00000270820.5	1.23373968	0.30925576	2.94x10-04	1.41x10-02	0.31	0.3	0.6	0.79	Up	RP11-355B11.2
ENSG00000240463.1	3.610871488	-2.355478917	8.28x10-04	2.76x10-02	0.07	0	0.6	0.31	Up	RPS19P3
ENSG00000277566.1	6.922562522	-1.691496294	1.48x10-08	9.19x10-06	0	0	0.59	0.81	Up	RP11-545P7.9
ENSG00000260498.5	2.137788241	-1.110883198	3.02x10-05	3.00x10-03	0	0.29	0.59	0.76	Up	RP4-536B24.4
ENSG00000256268.1	1.745825293	-0.917166651	3.54x10-04	1.58x10-02	0.2	0.2	0.59	0.74	Up	RP11-221N13.3
ENSG00000270100.1	3.605087917	-1.732045724	6.87x10-06	1.02x10-03	0	0.08	0.58	0.49	Up	RP11-130L8.1
ENSG00000242622.1	1.312767399	0.66094269	4.04x10-05	3.68x10-03	0.5	0.31	0.58	1.34	Up	RP11-18H7.1

ENSG00000273058.2	2.325877278	-1.653775052	5.30x10-04	2.08x10-02	0.17	0.1	0.58	0.71	Up	RP11-385F5.5
ENSG00000171403.9	1.653680985	0.355087105	1.68x10-06	3.71x10-04	0.2	0.24	0.57	0.76	Up	KRT9
ENSG00000204147.9	1.407555391	1.006879681	3.36x10-06	6.34x10-04	0.29	0.21	0.57	0.69	Up	ASAH2B
ENSG00000280023.1	2.437786223	-0.867290036	4.38x10-06	7.50x10-04	0.33	0	0.57	1.06	Up	LLNLR-276H7.1
ENSG00000272764.1	3.793946228	-2.239776136	2.66x10-04	1.31x10-02	0	0.09	0.57	1.1	Up	RP11-318E3.9
ENSG00000260273.1	2.431552874	-1.584187899	2.21x10-04	1.15x10-02	0.07	0.09	0.57	0.28	Up	RP11-425D10.10
ENSG00000272788.1	1.840599241	-1.452235546	9.36x10-04	3.04x10-02	0	0.32	0.57	0.64	Up	RP11-674N23.4
ENSG00000171401.14	2.320318001	-0.600425342	5.38x10-07	1.52x10-04	0.11	0.07	0.56	0.31	Up	KRT13
ENSG00000279948.1	1.317488657	0.631669304	2.51x10-05	2.77x10-03	0.15	0.4	0.56	0.78	Up	CTD-2233K9.1
ENSG00000276337.1	1.031324976	1.255174151	2.52x10-04	1.29x10-02	0.31	0.34	0.56	0.73	Up	RP11-106D4.2
ENSG00000239280.1	-1.774507064	-0.997164197	3.52x10-04	1.58x10-02	2.32	0.48	0.55	0.19	Down	RP11-271C24.3
ENSG00000236850.4	1.05890275	0.978697595	3.68x10-04	1.59x10-02	0.6	0.6	0.55	1.86	Up	BMS1P20
ENSG00000203785.8	6.409883361	-2.083395837	2.70x10-06	5.44x10-04	0	0	0.54	0.23	Up	SPRR2E
ENSG00000212443.1	-2.774756534	-1.122800283	1.08x10-06	2.49x10-04	3.78	1.15	0.53	0.11	Down	SNORA53
ENSG00000254550.1	3.950674082	-2.133598117	8.63x10-05	6.18x10-03	0	0.05	0.53	0.5	Up	OMP
ENSG00000226380.7	1.374452279	1.418970494	1.22x10-06	2.78x10-04	0.26	0.14	0.53	0.44	Up	AC058791.1
ENSG00000231560.1	1.108254788	1.156375168	1.24x10-04	7.94x10-03	0.32	0.28	0.53	0.71	Up	AC091814.3

ENSG00000244252.1	1.819109827	-1.083239535	4.89x10-04	1.95x10-02	0.11	0.42	0.53	1.4	Up	RP11-495P10.7
ENSG00000218690.1	-2.091550971	-1.269976773	2.09x10-04	1.09x10-02	1.4	1.42	0.53	0.08	Down	HIST1H2APS4
ENSG00000280047.1	1.292472025	0.020334111	2.80x10-04	1.36x10-02	0.13	0.23	0.52	0.33	Up	CTC-463A16.1
ENSG00000253210.1	1.558247402	-0.792861245	4.78x10-04	1.92x10-02	0.11	0.42	0.52	1.06	Up	RP11-809O17.1
ENSG00000258359.1	3.613536399	-2.356673807	8.28x10-04	2.76x10-02	0	0.05	0.52	0.27	Up	PCNPP1
ENSG00000252690.3	1.883610259	0.71206345	6.40x10-09	5.15x10-06	0.15	0.12	0.51	0.43	Up	SCARNA15
ENSG00000179046.8	1.391667656	0.124781143	7.62x10-05	5.68x10-03	0.2	0.38	0.51	0.99	Up	TRIML2
ENSG00000145882.10	-1.091345001	1.141792527	1.79x10-04	1.02x10-02	0.62	1.08	0.51	0.25	Down	PCYOX1L
ENSG00000278467.1	-1.427774991	-0.452084397	5.19x10-04	2.06x10-02	1.33	1.59	0.51	0.53	Down	RP11-504P24.9
ENSG00000273055.1	6.022986104	-2.356463149	5.62x10-05	4.50x10-03	0	0	0.51	0.18	Up	CTB-13F3.1
ENSG00000109511.10	7.435159965	-1.268517115	1.32x10-11	1.72x10-08	0	0	0.5	0.31	Up	ANXA10
ENSG00000282246.1	1.774675838	-0.894691518	2.56x10-04	1.29x10-02	0.18	0.13	0.5	0.5	Up	RP11-295P9.13
ENSG00000171872.4	-1.035913195	1.136790886	3.44x10-04	1.58x10-02	0.76	0.82	0.5	0.24	Down	KLF17
ENSG00000259621.1	-2.251066576	-0.759444508	3.63x10-06	6.75x10-04	1.96	3.65	0.5	0.63	Down	RP11-654A16.1
ENSG00000264019.1	5.615757546	-2.619375858	6.88x10-04	2.41x10-02	0	0	0.5	0.17	Up	RP11-6N17.6
ENSG00000215388.3	1.357220012	-0.44598639	1.06x10-03	3.30x10-02	0.3	0.28	0.5	0.94	Up	ACTG1P3
ENSG00000184451.5	-1.153588938	0.908550623	1.37x10-04	8.56x10-03	0.74	0.97	0.49	0.24	Down	CCR10

ENSG00000279128.1	1.794953587	-0.464515091	2.52x10-05	2.77x10-03	0.14	0.12	0.49	0.36	Up	RP11-76C10.4
ENSG00000279529.1	1.062103933	0.288317457	1.77x10-03	4.60x10-02	0.23	0.24	0.49	0.46	Up	CTD-3222D19.8
ENSG00000258818.3	-1.309613462	0.817786465	1.74x10-05	2.06x10-03	0.69	0.9	0.48	0.13	Down	RNASE4
ENSG00000272529.1	3.789213297	-2.239667758	2.66x10-04	1.31x10-02	0.06	0	0.48	0.35	Up	RP11-415F23.4
ENSG00000272758.5	-1.083387969	0.756675123	4.88x10-04	1.95x10-02	0.76	0.78	0.48	0.21	Down	RP11-299J3.8
ENSG00000166407.13	-1.095614227	0.610065855	5.53x10-04	2.15x10-02	1.01	1.18	0.47	0.51	Down	LMO1
ENSG00000262803.1	5.930014004	-2.418583001	1.04x10-04	6.87x10-03	0	0	0.47	0.04	Up	RP11-160A9.3
ENSG00000280401.1	-1.067973487	0.706965552	6.08x10-04	2.29x10-02	1.18	0.95	0.47	0.49	Down	RP11-104F15.9
ENSG00000241889.1	-1.281189533	-0.331881977	1.15x10-03	3.53x10-02	1.66	0.81	0.47	0.49	Down	RP11-435F17.3
ENSG00000280424.1	2.398734607	0.595396843	8.80x10-12	1.27x10-08	0.12	0.07	0.46	0.5	Up	CITF22-92A6.2
ENSG00000240616.1	7.300222551	-1.383534421	1.08x10-10	1.23x10-07	0	0	0.46	0.96	Up	AD000092.3
ENSG00000225205.5	1.237270474	-0.231059263	1.03x10-03	3.24x10-02	0.11	0.25	0.46	0.38	Up	AC093818.1
ENSG00000204941.13	1.268034	0.646702332	6.61x10-05	5.10x10-03	0.22	0.2	0.45	0.53	Up	PSG5
ENSG00000108551.4	1.388950192	-0.436281128	5.19x10-04	2.06x10-02	0.1	0.25	0.45	0.47	Up	RASD1
ENSG00000249275.1	3.096485267	-1.352738944	1.80x10-06	3.86x10-04	0.11	0.03	0.45	0.75	Up	RP11-364P22.2
ENSG00000273450.1	6.826232875	-1.768263695	4.58x10-08	2.41x10-05	0	0	0.44	1.38	Up	RP11-76P2.4
ENSG00000225693.1	2.491430213	-1.159070763	3.82x10-06	6.93x10-04	0	0.38	0.44	1.82	Up	LAGE3P1

ENSG00000273951.1	5.61467469	-2.619929138	6.88x10-04	2.41x10-02	0	0	0.44	0.04	Up	RP4-620E11.8
ENSG00000256139.2	-1.990119754	0.117821565	8.66x10-08	3.95x10-05	1.3	1.77	0.43	0.3	Down	RP11-968O1.5
ENSG00000155918.7	2.187433521	-0.100583755	3.47x10-08	1.98x10-05	0.25	0.15	0.43	1.33	Up	RAET1L
ENSG00000254402.6	-1.363799934	1.058168922	4.01x10-06	7.17x10-04	1.39	1.44	0.43	0.62	Down	LRRC24
ENSG00000185467.7	1.352660036	-0.201111267	3.42x10-04	1.58x10-02	0.14	0.3	0.43	0.69	Up	KPNA7
ENSG00000277067.4	8.38373584	-0.430232295	1.03x10-19	3.13x10-16	0	0	0.43	0.56	Up	CH507-254M2.1
ENSG00000276791.1	1.739910135	0.62187783	8.47x10-08	3.93x10-05	0.13	0.22	0.43	0.73	Up	CTD-2270P14.5
ENSG00000214145.6	-1.091632089	1.343247979	8.69x10-05	6.21x10-03	0.46	0.93	0.43	0.2	Down	LINC00887
ENSG00000226253.1	-1.843168627	-1.297135227	9.76x10-04	3.08x10-02	1.34	1.21	0.43	0.23	Down	MRPL35P3
ENSG00000266126.1	3.517529715	-2.417159164	1.46x10-03	3.90x10-02	0	0.07	0.43	0.6	Up	RP11-209D14.4
ENSG00000159588.14	1.336023866	-0.13964712	6.01x10-04	2.27x10-02	0.27	0.1	0.42	0.47	Up	CCDC17
ENSG00000270589.1	1.305787987	-0.225618961	8.25x10-04	2.76x10-02	0.2	0.27	0.42	0.72	Up	RP11-348N5.7
ENSG00000279841.1	3.507888719	-1.033751105	7.94x10-09	6.06x10-06	0.03	0.03	0.41	0.28	Up	RP11-274A11.4
ENSG00000263606.1	3.671913872	-1.239846674	3.80x10-08	2.12x10-05	0.02	0.04	0.41	0.41	Up	RP11-737O24.3
ENSG00000260368.1	1.560009755	-0.247286672	8.33x10-05	6.08x10-03	0.37	0.23	0.41	1.28	Up	RP11-521I2.3
ENSG00000226450.2	2.007525152	-1.324510858	4.51x10-04	1.86x10-02	0.12	0.03	0.41	0.19	Up	CYP2D8P
ENSG00000251239.1	5.616299207	-2.619099154	6.88x10-04	2.41x10-02	0	0	0.41	0.22	Up	CTB-22K21.2

ENSG00000251467.1	6.603148123	-1.939835215	4.60x10-07	1.34x10-04	0	0	0.4	0.5	Up	CTC-250P20.2
ENSG00000172478.17	-1.271808765	0.817102013	3.72x10-05	3.48x10-03	0.75	0.79	0.4	0.2	Down	C2orf54
ENSG00000232536.1	4.094789968	-2.033203879	2.82x10-05	3.00x10-03	0	0.05	0.4	0.68	Up	RP11-74C1.4
ENSG00000249867.5	1.804260215	-1.327309558	1.40x10-03	3.83x10-02	0.08	0.09	0.4	0.16	Up	RP11-115J23.1
ENSG00000260806.1	2.113571288	-1.102783169	1.65x10-04	9.70x10-03	0.18	0	0.4	0.31	Up	RP11-872J21.3
ENSG00000232846.1	6.541169187	-1.986322945	8.27x10-07	2.04x10-04	0	0	0.39	0.31	Up	SLC25A6P3
ENSG00000164674.15	-1.016133228	1.027752713	5.29x10-04	2.08x10-02	0.65	0.91	0.39	0.35	Down	SYTL3
ENSG00000250041.2	4.283109939	-1.896784451	5.34x10-06	8.35x10-04	0	0.03	0.39	0.29	Up	CTD-2003C8.2
ENSG00000274370.1	3.173461695	-1.614949174	1.20x10-05	1.52x10-03	0.15	0	0.39	0.9	Up	AC144831.3
ENSG00000230914.2	3.247722746	-1.986727703	1.54x10-04	9.25x10-03	0	0.09	0.39	0.54	Up	AC004840.8
ENSG00000261485.1	2.623096863	-1.691612093	1.81x10-04	1.02x10-02	0.09	0	0.39	0.12	Up	PAN3-AS1
ENSG00000117407.16	-1.024883112	0.655303892	1.13x10-03	3.48x10-02	0.65	0.74	0.38	0.27	Down	ARTN
ENSG00000232587.1	6.337554895	-2.135521041	4.92x10-06	7.97x10-04	0	0	0.38	0	Up	EEF1A1P3
ENSG00000258704.5	1.444591423	-0.586095446	5.76x10-04	2.23x10-02	0.08	0.37	0.38	0.86	Up	SRP54-AS1
ENSG00000227589.1	-1.648259451	-0.884962898	6.63x10-04	2.41x10-02	0.48	1.14	0.38	0.11	Down	RP5-1092A11.5
ENSG00000267280.5	1.632249182	-0.978306368	1.67x10-03	4.39x10-02	0.37	0.03	0.38	0.76	Up	TBX2-AS1
ENSG00000138670.16	-1.138095366	2.456054723	4.43x10-06	7.53x10-04	0.51	0.93	0.37	0.26	Down	RASGEF1B

ENSG00000185436.11	-1.099952813	1.661826757	4.39x10-05	3.98x10-03	0.75	0.73	0.37	0.29	Down	IFNLR1
ENSG00000100867.14	-1.292318451	0.640864733	4.83x10-05	4.25x10-03	1.18	0.95	0.37	0.46	Down	DHRS2
ENSG00000146350.13	-1.036952303	1.622802062	1.23x10-04	7.86x10-03	0.59	0.96	0.37	0.36	Down	TBC1D32
ENSG00000125618.16	1.061597475	0.257223519	1.88x10-03	4.82x10-02	0.14	0.15	0.37	0.23	Up	PAX8
ENSG00000115718.17	3.897292308	-0.707282545	1.20x10-11	1.65x10-08	0.06	0	0.36	0.53	Up	PROC
ENSG00000177710.5	2.644150388	-1.989814997	9.65x10-04	3.07x10-02	0	0.06	0.36	0.04	Up	SLC35G5
ENSG00000278546.1	4.508120666	-1.729040479	6.01x10-07	1.68x10-04	0	0.06	0.36	1.37	Up	RP1-41C23.4
ENSG00000225883.2	5.832923057	-2.482344285	1.95x10-04	1.02x10-02	0	0	0.36	0.06	Up	BMS1P11
ENSG00000224545.1	5.494790445	-2.69244185	1.30x10-03	3.60x10-02	0	0	0.36	0.45	Up	AC008264.4
ENSG00000229419.1	1.518644216	1.272791285	1.58x10-07	6.38x10-05	0.21	0.13	0.35	0.58	Up	RALGAPA1P
ENSG00000275620.1	1.384001579	1.221022865	1.67x10-06	3.71x10-04	0.15	0.14	0.35	0.35	Up	FLJ16779
ENSG00000187688.14	1.569137023	-0.126924378	6.46x10-05	5.04x10-03	0.19	0.07	0.35	0.4	Up	TRPV2
ENSG00000167046.4	1.865099095	-0.498354891	1.78x10-05	2.08x10-03	0.08	0.16	0.35	0.51	Up	RP11-93B14.6
ENSG00000261064.1	-2.080121919	-0.326416034	8.75x10-07	2.14x10-04	0.64	1.57	0.35	0.15	Down	RP11-1000B6.3
ENSG00000272209.1	6.10787796	-2.298207028	3.04x10-05	3.00x10-03	0	0	0.35	0.05	Up	RP3-500L14.2
ENSG00000267745.1	-1.262952519	0.396318931	1.34x10-04	8.44x10-03	1.75	0.79	0.35	0.66	Down	RP11-686D22.8
ENSG00000235145.2	3.103598122	-2.083805072	4.38x10-04	1.82x10-02	0	0.06	0.35	0.27	Up	RP11-533E19.3

ENSG00000267682.1	-2.246455175	-1.702541645	1.26x10-03	3.60x10-02	0.32	1.45	0.35	0	Down	CTD-3220F14.2
ENSG00000278590.1	-2.368986706	-1.862576829	1.79x10-03	4.63x10-02	0.3	1.65	0.35	0	Down	RN7SL113P
ENSG00000243986.2	6.921178282	-1.692259094	1.48x10-08	9.19x10-06	0	0	0.34	0.32	Up	ENO1P3
ENSG00000168811.6	1.690331344	-0.02253778	4.23x10-06	7.38x10-04	0.1	0.37	0.34	1.19	Up	IL12A
ENSG00000185532.14	1.027232961	1.518730023	1.58x10-04	9.35x10-03	0.19	0.24	0.34	0.49	Up	PRKG1
ENSG00000104324.15	-1.249194666	0.321856354	2.04x10-04	1.07x10-02	0.87	0.61	0.34	0.25	Down	CPQ
ENSG00000212125.2	-1.610821503	-0.593325887	1.91x10-04	1.02x10-02	1.15	0.56	0.34	0.18	Down	TAS2R15P
ENSG00000256937.1	5.491508681	-2.694110276	1.30x10-03	3.60x10-02	0	0	0.34	0	Up	KRT17P8
ENSG00000005102.12	1.452197067	-0.427525709	6.44x10-04	2.41x10-02	0.18	0.06	0.33	0.28	Up	MEOX1
ENSG00000260144.1	2.792661627	-1.584699066	4.54x10-05	4.10x10-03	0	0.09	0.33	0.32	Up	RP11-361M10.3
ENSG00000183607.9	4.600751718	-1.65634225	2.05x10-07	7.58x10-05	0	0.02	0.32	0.17	Up	GKN2
ENSG00000095932.6	2.32557055	-1.656407177	5.30x10-04	2.08x10-02	0.04	0.05	0.32	0.15	Up	SMIM24
ENSG00000241313.2	2.080071552	-0.900215152	3.02x10-05	3.00x10-03	0.02	0.09	0.32	0.17	Up	WWTR1-AS1
ENSG00000277491.1	6.605577081	-1.938527849	4.60x10-07	1.34x10-04	0	0	0.32	1.02	Up	RP11-676J12.9
ENSG00000273203.1	-1.284087753	1.343610495	5.10x10-06	8.17x10-04	1.13	0.99	0.32	0.51	Down	AC006946.16
ENSG00000255384.1	2.319742954	-1.449250363	1.68x10-04	9.81x10-03	0.06	0.02	0.32	0.08	Up	RP11-770J1.4
ENSG00000250645.1	-1.828035919	-0.672317175	5.49x10-05	4.50x10-03	2.02	1.72	0.32	0.68	Down	CTD-2228K2.1

ENSG00000268568.1	3.788779955	-2.242463004	2.66x10-04	1.31x10-02	0	0.02	0.32	0.02	Up	AC007228.9
ENSG00000267073.1	-1.94890077	-1.363972046	9.64x10-04	3.07x10-02	0.59	1.5	0.32	0.2	Down	AC005256.1
ENSG00000143387.12	-1.853014919	0.257000858	1.90x10-07	7.53x10-05	1.13	0.69	0.31	0.16	Down	CTSK
ENSG00000225978.3	1.65537345	-0.63299991	1.92x10-04	1.02x10-02	0.16	0.1	0.31	0.47	Up	HAR1A
ENSG00000253161.5	2.572922514	-1.731976555	2.88x10-04	1.38x10-02	0.04	0.03	0.31	0.13	Up	LINC01605
ENSG00000279235.1	5.729797204	-2.548535229	3.65x10-04	1.58x10-02	0	0	0.31	0.2	Up	RP11-16K12.2
ENSG00000205913.6	1.046329894	0.794451997	6.60x10-04	2.41x10-02	0.16	0.16	0.31	0.32	Up	SRRM2-AS1
ENSG00000221520.1	-3.524338146	-2.408810253	8.28x10-04	2.76x10-02	5.06	0	0.31	0	Down	MIR1285-1
ENSG00000205318.5	5.491508681	-2.694110276	1.30x10-03	3.60x10-02	0	0	0.31	0	Up	GCNT6
ENSG00000129749.3	1.975215062	-0.848777256	4.64x10-05	4.13x10-03	0.14	0.04	0.3	0.34	Up	CHRNA10
ENSG00000153495.10	1.788139088	-1.20847964	9.76x10-04	3.08x10-02	0.26	0.15	0.3	1.05	Up	TEX29
ENSG00000259581.3	1.673127025	-0.167555046	1.79x10-05	2.08x10-03	0.16	0.1	0.3	0.47	Up	TYRO3P
ENSG00000249852.1	2.111597859	-0.984539956	3.89x10-05	3.58x10-03	0.09	0.05	0.3	0.29	Up	AC145676.2
ENSG00000253686.1	-1.112360359	0.29006383	9.42x10-04	3.04x10-02	0.68	0.3	0.3	0.13	Down	LINC01484
ENSG00000214544.7	1.504893091	-0.131363996	8.21x10-05	6.06x10-03	0.12	0.1	0.3	0.29	Up	GTF2IRD2P1
ENSG00000214049.6	1.342729308	0.013869824	1.88x10-04	1.02x10-02	0.15	0.25	0.3	0.68	Up	UCA1
ENSG00000249661.1	3.076694792	-0.118501241	2.58x10-12	4.15x10-09	0.03	0.05	0.29	0.41	Up	TNRC18P1

ENSG00000246130.1	7.008117026	-1.621225899	4.83x10-09	4.35x10-06	0	0	0.29	0.03	Up	RP11-875O11.2
ENSG00000162482.4	-1.305769833	0.362260316	9.70x10-05	6.74x10-03	1.08	0.68	0.29	0.39	Down	AKR7A3
ENSG00000258529.5	-1.068460461	0.77339409	4.70x10-04	1.90x10-02	0.66	0.64	0.29	0.31	Down	RP11-108O10.8
ENSG00000131435.12	2.180895115	-1.552546438	5.88x10-04	2.25x10-02	0.01	0.06	0.29	0.04	Up	PDLIM4
ENSG00000181240.13	-1.17592914	0.073910135	9.78x10-04	3.08x10-02	0.59	0.93	0.29	0.36	Down	SLC25A41
ENSG00000227477.1	2.070534341	-1.453769783	2.56x10-04	1.29x10-02	0	0.09	0.29	0.09	Up	STK4-AS1
ENSG00000250451.5	-1.462789365	-0.489168493	4.13x10-04	1.75x10-02	2	1.04	0.29	0.75	Down	HOXC-AS1
ENSG00000250710.3	2.940036436	-2.184619666	1.24x10-03	3.60x10-02	0.07	0	0.29	0.21	Up	OR7E99P
ENSG00000261338.2	2.489483723	-0.984058152	2.91x10-06	5.64x10-04	0.07	0.04	0.28	0.32	Up	RP11-378A13.1
ENSG00000162894.11	-1.325762045	0.307508769	8.35x10-05	6.08x10-03	1.15	0.36	0.28	0.28	Down	FCMR
ENSG00000257671.1	1.774365182	-0.892569932	2.56x10-04	1.29x10-02	0.14	0.08	0.28	0.44	Up	RP3-416H24.1
ENSG00000279977.1	3.151891853	-1.058499878	8.35x10-08	3.93x10-05	0	0.07	0.27	0.41	Up	CTD-3222D19.4
ENSG00000160117.14	-1.030804838	0.789079788	6.60x10-04	2.41x10-02	0.83	0.38	0.27	0.29	Down	ANKLE1
ENSG00000278376.1	2.457984184	-1.355297943	4.78x10-05	4.22x10-03	0.05	0.04	0.27	0.22	Up	RP11-158I9.8
ENSG00000259151.2	2.211779714	-1.357962333	7.28x10-05	5.46x10-03	0	0.13	0.27	0.38	Up	CAP2P1
ENSG00000273056.1	2.942104456	-2.18354862	1.24x10-03	3.60x10-02	0.1	0	0.27	0.52	Up	RP11-77E14.2
ENSG00000258469.1	2.456616871	-1.808244712	7.21x10-04	2.49x10-02	0.16	0.04	0.27	0.8	Up	CHMP4BP1

ENSG00000204934.10	2.004277061	-0.485436969	2.34x10-06	4.93x10-04	0.01	0.13	0.26	0.32	Up	ATP6V0E2-AS1
ENSG00000170290.3	5.615757546	-2.619375858	6.88x10-04	2.41x10-02	0	0	0.26	0.09	Up	SLN
ENSG00000218996.1	-1.596835557	-1.011061163	1.28x10-03	3.60x10-02	0.91	0.95	0.26	0.32	Down	RP1-99E18.2
ENSG00000060558.3	7.626686358	-1.105553697	6.16x10-13	1.12x10-09	0	0	0.25	0.37	Up	GNA15
ENSG00000113430.9	1.920975634	-0.787414096	4.96x10-05	4.30x10-03	0.1	0.04	0.25	0.25	Up	IRX4
ENSG00000273451.1	6.773077823	-1.809569408	8.11x10-08	3.89x10-05	0	0	0.24	0.49	Up	RP4-569M23.4
ENSG00000116652.6	-1.596093944	0.978296293	1.40x10-07	5.98x10-05	0.72	0.67	0.24	0.2	Down	DLEU2L
ENSG00000173531.15	-1.474553289	0.448789608	1.21x10-05	1.52x10-03	0.34	0.9	0.24	0.19	Down	MST1
ENSG00000183801.7	1.873566915	-0.91191869	2.56x10-04	1.29x10-02	0.13	0	0.24	0.18	Up	OLFML1
ENSG00000279246.1	-1.386397515	-0.315796006	4.65x10-04	1.90x10-02	0.38	0.44	0.24	0.06	Down	RP11-286N22.14
ENSG00000258232.2	-2.638595257	-0.866580973	4.14x10-07	1.29x10-04	0.54	1.53	0.23	0.08	Down	RP11-161H23.5
ENSG00000220848.4	-2.803239442	-1.09963991	7.11x10-07	1.85x10-04	1.92	0.79	0.23	0.12	Down	RPS18P9
ENSG00000187091.13	-1.271309809	0.168254152	2.90x10-04	1.39x10-02	0.31	0.48	0.23	0.09	Down	PLCD1
ENSG00000136859.9	-1.023170075	0.96069387	4.74x10-04	1.91x10-02	0.84	0.35	0.23	0.32	Down	ANGPTL2
ENSG00000212127.5	-1.065417036	0.329287002	1.42x10-03	3.86x10-02	0.61	0.88	0.23	0.46	Down	TAS2R14
ENSG00000233215.5	-1.324684479	-0.354014396	9.58x10-04	3.07x10-02	0.65	0.54	0.23	0.22	Down	AP000472.2
ENSG00000226803.7	5.832923057	-2.482344285	1.95x10-04	1.02x10-02	0	0	0.23	0.04	Up	RP11-203B9.4

ENSG00000253106.1	-1.224961519	0.173711586	4.12x10-04	1.74x10-02	0.66	0.44	0.23	0.21	Down	RP11-158K1.3
ENSG00000227331.1	2.112540668	-1.412567141	4.24x10-04	1.78x10-02	0.19	0.06	0.23	0.83	Up	AC005042.2
ENSG00000263823.1	4.601315668	-1.653456886	2.05x10-07	7.58x10-05	0.02	0	0.22	0.3	Up	RP11-326K13.4
ENSG00000237440.8	-1.255663932	0.448349922	1.27x10-04	8.09x10-03	0.59	0.43	0.22	0.19	Down	ZNF737
ENSG00000241956.9	-1.275410632	0.866120425	3.13x10-05	3.06x10-03	0.33	0.54	0.22	0.12	Down	CTC-340A15.2
ENSG00000258999.1	5.617925119	-2.618268787	6.88x10-04	2.41x10-02	0	0	0.22	0.32	Up	RP11-114N19.3
ENSG00000152705.7	-1.691878589	-0.688553143	1.91x10-04	1.02x10-02	0.67	0.42	0.21	0.1	Down	CATSPER3
ENSG00000184786.5	3.100863161	-2.08014535	4.38x10-04	1.82x10-02	0.08	0	0.21	0.47	Up	TCTE3
ENSG00000176681.14	1.216587307	0.19849241	4.79x10-04	1.92x10-02	0.08	0.09	0.21	0.17	Up	LRRC37A
ENSG00000160678.11	2.266405588	-1.688141653	8.19x10-04	2.76x10-02	0.15	0	0.21	0.47	Up	S100A1
ENSG00000010219.13	-1.111739427	0.353127798	8.55x10-04	2.83x10-02	0.41	0.4	0.21	0.15	Down	DYRK4
ENSG00000110328.5	-1.370853082	-0.555187048	1.52x10-03	4.04x10-02	0.25	0.35	0.21	0.01	Down	GALNT18
ENSG00000176840.11	6.025593997	-2.355106127	5.62x10-05	4.50x10-03	0	0	0.21	0.29	Up	MIR7-3HG
ENSG00000253347.1	-2.228104189	-1.330876594	1.28x10-04	8.09x10-03	0.71	1.11	0.21	0.16	Down	CTD-2026D20.2
ENSG00000235760.3	2.714747743	-1.938398515	5.93x10-04	2.25x10-02	0.08	0.03	0.21	0.54	Up	HCG2040054
ENSG00000230162.1	5.615757546	-2.619375858	6.88x10-04	2.41x10-02	0	0	0.21	0.07	Up	CT45A11P
ENSG00000276744.1	2.018753722	-1.478301399	9.36x10-04	3.04x10-02	0.12	0.08	0.21	0.59	Up	CTD-2562G15.3

ENSG00000229267.2	-1.452598892	-0.772652083	1.45x10-03	3.90x10-02	0.35	0.34	0.21	0.03	Down	AC072062.1
ENSG00000245970.2	-1.610802772	0.253198193	3.69x10-06	6.78x10-04	1.02	0.47	0.2	0.26	Down	KB-1208A12.3
ENSG00000278905.1	2.466411744	-1.012388401	4.29x10-06	7.44x10-04	0.01	0.06	0.2	0.17	Up	RP11-65F13.3
ENSG00000105784.15	-1.503241383	1.134251066	2.88x10-07	9.74x10-05	0.79	0.54	0.2	0.25	Down	RUNDC3B
ENSG00000186150.4	6.268748603	-2.185759093	8.99x10-06	1.22x10-03	0	0	0.2	0.15	Up	UBL4B
ENSG00000170681.6	-1.215480434	0.271384911	3.67x10-04	1.59x10-02	0.43	0.62	0.2	0.23	Down	MURC
ENSG00000274600.1	1.091171736	0.252028417	1.41x10-03	3.84x10-02	0.11	0.09	0.2	0.21	Up	RIMBP3B
ENSG00000279792.1	1.949616779	-0.869909965	6.52x10-05	5.06x10-03	0.11	0.05	0.2	0.37	Up	RP11-893F2.18
ENSG00000213411.2	3.217404342	-1.266747269	4.57x10-07	1.34x10-04	0.02	0.04	0.19	0.4	Up	RBM22P2
ENSG00000227431.5	3.43876452	-1.85053978	3.24x10-05	3.08x10-03	0.05	0.05	0.19	0.99	Up	CSE1L-AS1
ENSG00000003987.13	-1.296697163	0.531634659	6.07x10-05	4.76x10-03	0.45	0.33	0.19	0.11	Down	MTMR7
ENSG00000175879.8	-1.455504904	-0.21883511	1.71x10-04	9.96x10-03	0.51	0.27	0.19	0.07	Down	HOXD8
ENSG00000155962.12	-1.245337777	0.227310453	3.96x10-04	1.69x10-02	0.19	0.79	0.19	0.22	Down	CLIC2
ENSG00000272514.5	-1.382350401	-0.544130605	1.18x10-03	3.60x10-02	0.19	0.5	0.19	0.06	Down	C6orf165
ENSG00000260317.1	2.086657095	-0.197711528	1.25x10-07	5.53x10-05	0.05	0.23	0.19	1.02	Up	RP11-48B3.4
ENSG00000269399.2	1.349378526	-0.332629543	7.54x10-04	2.59x10-02	0.23	0.11	0.19	0.65	Up	CTD-3222D19.12
ENSG00000272682.1	1.668040408	-1.189007429	9.76x10-04	3.08x10-02	0	0.19	0.19	0.44	Up	AC004471.10

ENSG00000246323.2	5.932644769	-2.417219897	1.04x10-04	6.87x10-03	0	0	0.19	0.13	Up	RP11-325L7.1
ENSG00000272659.1	-2.203889784	-1.73266881	1.26x10-03	3.60x10-02	0.48	0.49	0.19	0	Down	AP000295.10
ENSG00000230225.1	5.729260668	-2.5488106	3.65x10-04	1.58x10-02	0	0	0.19	0.09	Up	MTND5P14
ENSG00000240668.1	2.926166205	-1.476743907	1.14x10-05	1.45x10-03	0.08	0	0.18	0.42	Up	KRT8P36
ENSG00000115266.11	1.709361505	0.847768976	5.28x10-08	2.68x10-05	0.05	0.06	0.18	0.2	Up	APC2
ENSG00000116983.12	-1.542938337	0.454843503	3.68x10-06	6.78x10-04	0.39	0.29	0.18	0.04	Down	HPCAL4
ENSG00000172940.11	2.064617616	-0.687645891	9.43x10-06	1.24x10-03	0.1	0.05	0.18	0.41	Up	SLC22A13
ENSG00000019102.11	-1.968464369	-0.863235635	4.64x10-05	4.13x10-03	0.74	0.22	0.18	0.04	Down	VSIG2
ENSG00000231852.6	2.56970712	-2.035350465	1.57x10-03	4.14x10-02	0.01	0.02	0.18	0.05	Up	CYP21A2
ENSG00000251221.1	-2.318339627	-1.448907833	1.68x10-04	9.81x10-03	1.04	0.94	0.18	0.19	Down	LINC01337
ENSG00000259005.1	5.6184674	-2.617991912	6.88x10-04	2.41x10-02	0	0	0.18	0.37	Up	RP3-449M8.6
ENSG00000267666.2	1.234981317	-0.05778588	6.81x10-04	2.41x10-02	0.1	0.17	0.18	0.45	Up	AC004156.3
ENSG00000225039.1	-2.452458302	-1.809681325	7.21x10-04	2.49x10-02	0.88	0.58	0.18	0.06	Down	LINC01058
ENSG00000280043.1	3.790844953	-2.241388707	2.66x10-04	1.31x10-02	0	0.02	0.18	0.08	Up	RP11-1281K21.8
ENSG00000267160.1	-1.427813326	-0.401402411	3.89x10-04	1.66x10-02	0.57	0.13	0.18	0.05	Down	RP11-1072C15.4
ENSG00000201793.1	5.619552429	-2.617438036	6.88x10-04	2.41x10-02	0	0	0.18	0.92	Up	RN7SKP9
ENSG00000267088.1	5.619009837	-2.617714995	6.88x10-04	2.41x10-02	0	0	0.18	0.56	Up	RP11-115N12.1

ENSG00000273002.1	1.449658197	-0.633618159	9.95x10-04	3.13x10-02	0.13	0.12	0.18	0.47	Up	RP11-336K24.12
ENSG00000261773.1	-2.794621679	-1.105033887	1.08x10-06	2.49x10-04	0.92	0.62	0.17	0.03	Down	WI2-89031B12.1
ENSG00000226145.7	6.268241296	-2.186026604	8.99x10-06	1.22x10-03	0	0	0.17	0.1	Up	KRT16P6
ENSG00000089820.15	-1.331221143	0.172585853	1.34x10-04	8.46x10-03	0.46	0.32	0.17	0.12	Down	ARHGAP4
ENSG00000162998.4	2.056828228	-1.296621562	3.07x10-04	1.46x10-02	0.04	0.03	0.17	0.12	Up	FRZB
ENSG00000165810.16	-1.0630103	0.638038069	7.97x10-04	2.71x10-02	0.26	0.51	0.17	0.19	Down	BTNL9
ENSG00000166922.8	-1.288403582	-0.325571507	9.11x10-04	2.98x10-02	1.13	0.36	0.17	0.4	Down	SCG5
ENSG00000124233.11	5.491508681	-2.694110276	1.30x10-03	3.60x10-02	0	0	0.17	0	Up	SEMG1
ENSG00000167083.6	5.491508681	-2.694110276	1.30x10-03	3.60x10-02	0	0	0.17	0	Up	GNGT2
ENSG00000113578.17	1.502325177	-0.896968641	1.60x10-03	4.20x10-02	0.05	0.04	0.17	0.06	Up	FGF1
ENSG00000260672.1	6.600721527	-1.941141752	4.60x10-07	1.34x10-04	0	0	0.17	0.09	Up	RP11-1006G14.1
ENSG00000271989.1	5.494790445	-2.69244185	1.30x10-03	3.60x10-02	0	0	0.17	0.21	Up	RP4-736L20.3
ENSG00000280332.1	-1.923735937	-0.301695985	2.64x10-06	5.44x10-04	0.7	0.34	0.16	0.1	Down	CTD-2013N17.6
ENSG00000233956.1	6.027682677	-2.354019804	5.62x10-05	4.50x10-03	0	0	0.16	0.72	Up	BTF3P6
ENSG00000128482.15	-1.842365825	-0.232485287	4.10x10-06	7.29x10-04	0.44	0.23	0.16	0.01	Down	RNF112
ENSG00000273375.1	6.02716031	-2.354291444	5.62x10-05	4.50x10-03	0	0	0.16	0.49	Up	RP11-803P9.1
ENSG00000275180.1	-1.789001783	-0.878855313	2.56x10-04	1.29x10-02	1.05	1.53	0.16	0.56	Down	RP11-631N16.4

ENSG00000265787.1	-1.108917697	0.263080574	9.90x10-04	3.12x10-02	0.65	0.29	0.16	0.25	Down	CYP4F35P
ENSG00000228393.3	-1.306038133	-0.416588696	1.29x10-03	3.60x10-02	0.75	0.73	0.16	0.41	Down	LINC01004
ENSG00000254017.1	6.925332991	-1.689969903	1.48x10-08	9.19x10-06	0	0	0.15	0.51	Up	IGHEP2
ENSG00000232859.9	-1.270853011	-0.23756315	1.29x10-03	3.60x10-02	0.23	0.48	0.15	0.14	Down	LYRM9
ENSG00000229556.2	3.514341114	-2.418794828	1.46x10-03	3.90x10-02	0	0.01	0.15	0.03	Up	RP11-363G2.4
ENSG00000215481.8	-1.471005346	-0.255422383	1.75x10-04	1.01x10-02	0.42	0.43	0.15	0.14	Down	BCRP3
ENSG00000245275.7	-1.685686058	-1.160503432	1.36x10-03	3.73x10-02	0.32	0.31	0.15	0.03	Down	SAP30L-AS1
ENSG00000241570.8	2.571157131	-2.03207917	1.57x10-03	4.14x10-02	0.05	0.02	0.15	0.28	Up	PAQR9-AS1
ENSG00000261186.2	6.82670261	-1.768006888	4.58x10-08	2.41x10-05	0	0	0.14	0.55	Up	RP11-341N2.1
ENSG00000229191.1	-1.426848044	0.450014317	2.15x10-05	2.42x10-03	0.25	0.67	0.14	0.19	Down	RP11-168O16.1
ENSG00000279091.1	1.926843536	-0.795591351	4.96x10-05	4.30x10-03	0.02	0.03	0.14	0.03	Up	RP11-461F11.2
ENSG00000060140.8	4.901814872	-1.415033851	5.14x10-09	4.40x10-06	0.01	0	0.14	0.19	Up	STYK1
ENSG00000166183.15	1.502653534	-0.25889049	1.07x10-04	7.03x10-03	0.02	0.12	0.14	0.25	Up	ASPG
ENSG00000183484.11	1.741738639	-1.137304132	4.82x10-04	1.93x10-02	0.01	0.07	0.14	0.12	Up	GPR132
ENSG00000223599.1	2.400448887	-1.205219808	6.56x10-05	5.07x10-03	0.16	0	0.14	0.65	Up	RP11-216N14.7
ENSG00000181444.12	-1.376223184	-0.374085247	6.18x10-04	2.32x10-02	0.3	0.34	0.14	0.09	Down	ZNF467
ENSG00000273703.1	-2.262421805	-1.933542365	1.79x10-03	4.63x10-02	1.28	0.27	0.14	0.14	Down	HIST1H2BM

ENSG00000224462.2	2.01028875	-1.051428085	1.15x10-04	7.42x10-03	0.13	0.03	0.14	0.45	Up	C4BPAP1
ENSG00000277767.1	6.024028867	-2.355920458	5.62x10-05	4.50x10-03	0	0	0.14	0.09	Up	RP11-365P13.5
ENSG00000227388.2	-1.732342662	-1.022600158	4.91x10-04	1.96x10-02	0.96	0.27	0.14	0.2	Down	RP11-112J3.16
ENSG00000234043.3	-2.410345683	-1.840907325	7.21x10-04	2.49x10-02	0.9	0	0.14	0	Down	RP11-56M3.1
ENSG00000245888.6	1.578808871	-0.85223449	8.77x10-04	2.89x10-02	0.06	0.07	0.14	0.24	Up	FLJ21408
ENSG00000243094.1	6.196130154	-2.237953692	1.65x10-05	1.95x10-03	0	0	0.13	1.09	Up	RP11-1084A12.1
ENSG00000228624.7	2.013128534	-0.732071819	1.83x10-05	2.12x10-03	0.02	0.03	0.13	0.1	Up	RP3-399L15.3
ENSG00000109758.8	4.309831506	-1.18313217	1.41x10-09	1.33x10-06	0	0.02	0.13	0.42	Up	HGFAC
ENSG00000164736.5	2.507687081	-0.68381714	6.18x10-07	1.71x10-04	0.12	0.01	0.13	0.54	Up	SOX17
ENSG00000152936.10	-1.721513142	0.335581265	6.38x10-07	1.75x10-04	0.79	0.49	0.13	0.24	Down	LMNTD1
ENSG00000183979.7	3.872935713	-2.186501098	1.51x10-04	9.17x10-03	0	0.01	0.13	0.09	Up	NPB
ENSG00000108556.7	5.614133494	-2.620205714	6.88x10-04	2.41x10-02	0	0	0.13	0	Up	CHRNE
ENSG00000218227.3	-2.679568866	-1.654638615	1.14x10-04	7.39x10-03	0.72	0.57	0.13	0.05	Down	RP11-889L3.1
ENSG00000273356.1	-1.500318207	-0.596065073	5.76x10-04	2.23x10-02	0.46	0.29	0.13	0.12	Down	RP11-804H8.6
ENSG00000250874.1	-1.476924303	-0.748586904	1.45x10-03	3.90x10-02	0.1	0.79	0.13	0.19	Down	CTC-480C2.1
ENSG00000250608.1	-1.498956659	-0.404244616	2.39x10-04	1.22x10-02	0.37	0.42	0.13	0.14	Down	RP11-933H2.4
ENSG00000223711.1	-1.773830227	-0.99027176	3.52x10-04	1.58x10-02	0.6	0.83	0.13	0.27	Down	AC091633.3

ENSG00000233509.2	-2.657076113	-1.976260966	5.93x10-04	2.25x10-02	0.93	0.04	0.13	0	Down	ZNF197-AS1
ENSG00000236567.2	2.833839367	-1.543875752	2.86x10-05	3.00x10-03	0.06	0	0.12	0.3	Up	TCF3P1
ENSG00000047457.13	-1.464485269	0.624083969	5.10x10-06	8.17x10-04	0.43	0.37	0.12	0.16	Down	CP
ENSG00000145244.11	1.677997168	-0.795214153	1.88x10-04	1.02x10-02	0.01	0.06	0.12	0.12	Up	CORIN
ENSG00000128271.19	3.787147292	-2.240743016	2.66x10-04	1.31x10-02	0.01	0	0.12	0.03	Up	ADORA2A
ENSG00000103034.14	2.159337754	-1.388056181	2.84x10-04	1.38x10-02	0.01	0.03	0.12	0.07	Up	NDRG4
ENSG00000159164.9	1.794721769	-0.987589098	3.52x10-04	1.58x10-02	0.03	0.04	0.12	0.11	Up	SV2A
ENSG00000269926.1	-1.798822412	-1.082137319	4.89x10-04	1.95x10-02	0.68	0.61	0.12	0.23	Down	RP11-442H21.2
ENSG00000279330.1	-2.160377319	-0.432868595	6.58x10-07	1.76x10-04	0.46	0.41	0.11	0.08	Down	AJ003147.11
ENSG00000230359.4	-1.760845128	-0.345890295	1.55x10-05	1.90x10-03	1.7	0.9	0.11	0.62	Down	TPI1P2
ENSG00000155465.18	3.845858085	-1.54519535	5.34x10-07	1.52x10-04	0.02	0	0.11	0.21	Up	SLC7A7
ENSG00000212124.2	-2.214633745	-0.676728113	2.13x10-06	4.51x10-04	0.73	0.86	0.11	0.22	Down	TAS2R19
ENSG00000076641.4	-1.260447947	1.588659609	3.48x10-06	6.53x10-04	0.37	0.3	0.11	0.16	Down	PAG1
ENSG00000114841.17	-1.202537545	1.805387281	5.96x10-06	9.06x10-04	0.21	0.41	0.11	0.15	Down	DNAH1
ENSG00000116035.2	6.113045492	-2.295506023	3.04x10-05	3.00x10-03	0	0	0.11	0.29	Up	VAX2
ENSG00000204323.5	2.323541649	-1.267724064	5.70x10-05	4.54x10-03	0.02	0.02	0.11	0.08	Up	SMIM5
ENSG00000171121.16	-1.162810162	0.626048731	2.27x10-04	1.17x10-02	0.25	0.18	0.11	0.07	Down	KCNMB3

ENSG00000198342.9	-1.23384168	0.344132723	2.37x10-04	1.22x10-02	0.24	0.23	0.11	0.08	Down	ZNF442
ENSG00000068976.13	1.647494929	-0.700111565	4.60x10-04	1.88x10-02	0.15	0	0.11	0.33	Up	PYGM
ENSG00000170458.13	-1.606707338	-0.914188662	9.04x10-04	2.96x10-02	0.4	0.25	0.11	0.09	Down	CD14
ENSG00000139209.15	1.624082964	-1.21732231	1.39x10-03	3.80x10-02	0	0.07	0.11	0.12	Up	SLC38A4
ENSG00000189409.12	-1.402127053	-0.729022307	1.81x10-03	4.67x10-02	0.41	0.33	0.11	0.15	Down	MMP23B
ENSG00000260369.2	6.02716031	-2.354291444	5.62x10-05	4.50x10-03	0	0	0.11	0.33	Up	CTD-2526A2.2
ENSG00000232748.3	5.930014004	-2.418583001	1.04x10-04	6.87x10-03	0	0	0.11	0.01	Up	RP11-196G11.6
ENSG00000246283.2	5.932644769	-2.417219897	1.04x10-04	6.87x10-03	0	0	0.11	0.08	Up	CTD-2036P10.3
ENSG00000269974.1	-1.366250787	-0.270789921	4.48x10-04	1.85x10-02	1.78	0.85	0.11	0.87	Down	RP11-932O9.10
ENSG00000276077.4	3.610345199	-2.355750347	8.28x10-04	2.76x10-02	0.01	0	0.11	0.04	Up	CH507-254M2.2
ENSG00000232489.1	7.410419982	-1.291926953	2.22x10-11	2.64x10-08	0	0	0.1	0.81	Up	MFAP1P1
ENSG00000235217.6	3.179631227	-0.807149863	4.92x10-09	4.35x10-06	0.02	0.02	0.1	0.28	Up	TSPY26P
ENSG00000271380.1	-3.237163225	-1.572087248	4.54x10-06	7.53x10-04	0.95	0.16	0.1	0	Down	RP11-307C12.12
ENSG00000279877.1	-2.647968521	-1.423786812	3.82x10-05	3.54x10-03	0.37	0.72	0.1	0.07	Down	RP11-420N3.3
ENSG00000225855.6	-1.3966914	0.107207519	9.43x10-05	6.58x10-03	0.43	0.35	0.1	0.19	Down	RUSC1-AS1
ENSG00000120327.6	-1.763973998	0.442028939	1.99x10-07	7.58x10-05	0.43	0.29	0.1	0.1	Down	PCDHB14
ENSG00000185518.11	-1.36708	1.650382403	4.48x10-07	1.34x10-04	0.32	0.34	0.1	0.14	Down	SV2B

ENSG00000171747.8	-2.231687339	-1.023690437	2.38x10-05	2.65x10-03	0.16	0.61	0.1	0.05	Down	LGALS4
ENSG00000155265.10	-1.338945922	0.319001617	8.35x10-05	6.08x10-03	0.19	0.26	0.1	0.07	Down	GOLGA7B
ENSG00000204882.3	-1.921779698	-0.88704354	9.16x10-05	6.45x10-03	0.2	0.63	0.1	0.11	Down	GPR20
ENSG00000244486.7	-1.359019664	-0.22828506	4.32x10-04	1.81x10-02	0.27	0.29	0.1	0.11	Down	SCARF2
ENSG00000268533.1	-2.320853422	-1.653685397	5.30x10-04	2.08x10-02	0.82	0.6	0.1	0.16	Down	AC004076.7
ENSG00000204956.5	-1.167429893	0.332334327	5.58x10-04	2.17x10-02	0.21	0.24	0.1	0.1	Down	PCDHGA1
ENSG00000117013.14	-1.452616838	-0.631531807	7.58x10-04	2.59x10-02	0.24	0.13	0.1	0.02	Down	KCNQ4
ENSG00000160868.14	5.491508681	-2.694110276	1.30x10-03	3.60x10-02	0	0	0.1	0	Up	CYP3A4
ENSG00000139714.12	-1.415396345	-0.796255753	1.92x10-03	4.90x10-02	0.14	0.19	0.1	0.01	Down	MORN3
ENSG00000235244.3	-2.077708786	-0.583176441	3.94x10-06	7.09x10-04	0.42	0.39	0.1	0.08	Down	RP11-761E20.1
ENSG00000251323.2	-1.849138597	-0.499375996	1.32x10-05	1.64x10-03	0.83	0.25	0.1	0.18	Down	RP11-452H21.4
ENSG00000260177.1	5.619009837	-2.617714995	6.88x10-04	2.41x10-02	0	0	0.1	0.33	Up	RP4-536B24.3
ENSG00000267547.1	-3.005980452	-2.13932295	7.38x10-04	2.54x10-02	0.23	0.68	0.1	0	Down	RP11-686D22.4
ENSG00000273925.1	-2.868041601	-2.230929255	1.24x10-03	3.60x10-02	0.92	0	0.1	0	Down	RP11-227D13.5
ENSG00000266946.1	5.617925119	-2.618268787	6.88x10-04	2.41x10-02	0	0	0.1	0.14	Up	MRPL37P1
ENSG00000128346.10	6.344088364	-2.132060578	4.92x10-06	7.97x10-04	0	0	0.09	0.17	Up	C22orf23
ENSG00000158458.19	-1.734142638	-0.578646602	7.91x10-05	5.87x10-03	0.11	0.27	0.09	0.02	Down	NRG2

ENSG00000130208.9	-2.874041527	-1.82397155	2.24x10-04	1.16x10-02	0.04	0.71	0.09	0	Down	APOC1
ENSG00000179774.8	-2.318397761	-1.656672422	5.30x10-04	2.08x10-02	0.25	0.25	0.09	0	Down	ATOH7
ENSG00000153802.11	5.615216041	-2.619652519	6.88x10-04	2.41x10-02	0	0	0.09	0.02	Up	TMPRSS11D
ENSG00000099840.13	-1.653521331	-0.971268151	9.29x10-04	3.03x10-02	0.25	0.53	0.09	0.15	Down	IZUMO4
ENSG00000221852.4	5.495337972	-2.692163626	1.30x10-03	3.60x10-02	0	0	0.09	0.16	Up	KRTAP1-5
ENSG00000259571.1	5.495885661	-2.691885359	1.30x10-03	3.60x10-02	0	0	0.09	0.26	Up	BLID
ENSG00000197776.7	5.492601956	-2.693554308	1.30x10-03	3.60x10-02	0	0	0.09	0.02	Up	KLHDC1
ENSG00000239713.7	5.49424308	-2.692720029	1.30x10-03	3.60x10-02	0	0	0.09	0.07	Up	APOBEC3G
ENSG00000253264.1	-3.521307143	-1.782021381	1.93x10-05	2.21x10-03	0.16	1.04	0.09	0	Down	PCAT2
ENSG00000259727.1	-1.765649735	-0.900905101	1.85x10-04	1.02x10-02	0.94	0.13	0.09	0.2	Down	RP11-1069G10.2
ENSG00000260448.5	-2.634862525	-1.987844103	9.65x10-04	3.07x10-02	0.32	0.33	0.09	0	Down	LCMT1-AS1
ENSG00000163364.9	-1.31073953	-0.530353013	1.44x10-03	3.90x10-02	0.75	0.15	0.09	0.25	Down	LINC01116
ENSG00000215156.5	5.614133494	-2.620205714	6.88x10-04	2.41x10-02	0	0	0.09	0	Up	RP11-1023L17.2
ENSG00000174482.10	-2.050390179	-0.132714431	3.00x10-07	1.00x10-04	0.25	0.49	0.08	0.09	Down	LINGO2
ENSG00000172508.10	-1.859063888	0.121966041	3.78x10-07	1.20x10-04	0.42	0.27	0.08	0.1	Down	CARNS1
ENSG00000151640.12	-2.043173238	-0.705446471	9.43x10-06	1.24x10-03	0.37	0.2	0.08	0.05	Down	DPYSL4
ENSG00000123453.16	-1.45209503	0.367558546	1.76x10-05	2.07x10-03	0.28	0.35	0.08	0.14	Down	SARDH

ENSG00000171617.13	1.849320551	-0.745724137	7.23x10-05	5.45x10-03	0.05	0.02	0.08	0.17	Up	ENC1
ENSG00000012779.10	-2.146547046	-1.08844898	7.34x10-05	5.49x10-03	0.18	0.26	0.08	0.01	Down	ALOX5
ENSG00000123700.4	-1.389162833	0.059990828	1.19x10-04	7.64x10-03	0.23	0.21	0.08	0.08	Down	KCNJ2
ENSG00000271447.5	-1.9958208	-1.334364602	6.60x10-04	2.41x10-02	0.11	0.25	0.08	0	Down	MMP28
ENSG00000278276.1	6.416865697	-2.079683778	2.70x10-06	5.44x10-04	0	0	0.08	1.7	Up	RP3-324O17.8
ENSG00000234817.2	-2.178239744	-0.707744687	4.23x10-06	7.38x10-04	0.41	0.27	0.08	0.06	Down	RP3-400B16.1
ENSG00000235643.1	5.495337972	-2.692163626	1.30x10-03	3.60x10-02	0	0	0.08	0.15	Up	RP1-69M21.2
ENSG00000282100.1	3.101371164	-2.079879998	4.38x10-04	1.82x10-02	0.04	0	0.08	0.25	Up	HSP90AB4P
ENSG00000273132.1	-3.697543858	-2.296907073	4.69x10-04	1.90x10-02	0.78	0.67	0.08	0	Down	RP11-350J20.12
ENSG00000227963.1	1.676636018	-0.956764283	6.75x10-04	2.41x10-02	0.1	0.04	0.08	0.36	Up	RP5-1074L1.1
ENSG00000265451.1	5.619552429	-2.617438036	6.88x10-04	2.41x10-02	0	0	0.08	0.4	Up	RP11-204L24.2
ENSG00000241749.4	5.49424308	-2.692720029	1.30x10-03	3.60x10-02	0	0	0.08	0.07	Up	RPSAP52
ENSG00000253348.1	-3.260748376	-1.550017054	4.54x10-06	7.53x10-04	0.36	0.38	0.07	0	Down	CTC-455F18.1
ENSG00000260278.1	6.112528172	-2.295776296	3.04x10-05	3.00x10-03	0	0	0.07	0.13	Up	RP11-109G23.3
ENSG00000266844.1	3.072737277	-1.688211042	3.17x10-05	3.06x10-03	0.05	0	0.07	0.33	Up	RP11-862L9.3
ENSG00000235454.1	-2.610719375	-1.451755053	3.82x10-05	3.54x10-03	0.36	0.45	0.07	0.05	Down	HAUS6P3
ENSG00000095370.19	-2.48136078	-0.276533579	8.27x10-09	6.06x10-06	0.21	0.3	0.07	0.01	Down	SH2D3C

ENSG00000120049.18	-2.086951555	-0.577366856	2.85x10-06	5.56x10-04	0.39	0.24	0.07	0.07	Down	KCNIP2
ENSG00000176907.4	-1.616203195	0.096330762	8.00x10-06	1.16x10-03	0.54	0.85	0.07	0.37	Down	C8orf4
ENSG00000184454.6	6.269256026	-2.185491545	8.99x10-06	1.22x10-03	0	0	0.07	0.06	Up	NCMAP
ENSG00000140488.14	6.192541809	-2.239836669	1.65x10-05	1.95x10-03	0	0	0.07	0.07	Up	CELF6
ENSG00000279152.1	6.196130154	-2.237953692	1.65x10-05	1.95x10-03	0	0	0.07	0.58	Up	AC129492.1
ENSG00000184564.8	6.022986104	-2.356463149	5.62x10-05	4.50x10-03	0	0	0.07	0.03	Up	SLITRK6
ENSG00000273045.5	-2.25272865	-1.499666565	2.56x10-04	1.29x10-02	0.48	0.01	0.07	0.02	Down	C2orf15
ENSG00000089847.12	-1.13560749	0.59213688	4.23x10-04	1.78x10-02	0.46	0.32	0.07	0.27	Down	ANKRD24
ENSG00000102879.15	-1.980867798	-1.346846687	4.51x10-04	1.86x10-02	0.38	0.11	0.07	0.04	Down	CORO1A
ENSG00000140678.16	-1.115156794	0.175825976	1.39x10-03	3.80x10-02	0.13	0.3	0.07	0.12	Down	ITGAX
ENSG00000067715.13	1.5331956	-0.957759171	1.67x10-03	4.39x10-02	0.06	0.02	0.07	0.14	Up	SYT1
ENSG00000175147.11	1.783439072	-1.112170034	3.38x10-04	1.58x10-02	0	0.04	0.07	0.08	Up	TMEM51-AS1
ENSG00000244952.2	-3.180710219	-2.026919911	1.54x10-04	9.25x10-03	0.66	0.14	0.07	0	Down	RP11-1000B6.5
ENSG00000228022.5	-1.763768417	-0.99984508	3.52x10-04	1.58x10-02	0.73	0.26	0.07	0.21	Down	HCG20
ENSG00000250808.1	-3.679266485	-2.306398034	8.28x10-04	2.76x10-02	0	1.14	0.07	0	Down	RP11-531A21.4
ENSG00000279057.1	-2.201175143	-1.733536778	1.26x10-03	3.60x10-02	0.19	0.23	0.07	0.02	Down	CTD-3126B10.5
ENSG00000237210.1	5.495337972	-2.692163626	1.30x10-03	3.60x10-02	0	0	0.07	0.13	Up	RP11-339F13.2

ENSG00000260139.6	-2.156792398	-0.435981744	6.58x10-07	1.76x10-04	0.19	0.21	0.06	0.02	Down	CSPG4P13
ENSG00000213060.4	6.028727806	-2.353476407	5.62x10-05	4.50x10-03	0	0	0.06	0.98	Up	RP4-612B18.3
ENSG00000244065.1	-3.350817036	-1.904912362	9.17x10-05	6.45x10-03	0.14	0.59	0.06	0	Down	MARK2P17
ENSG00000231050.1	-3.182936986	-2.025754343	1.54x10-04	9.25x10-03	0.57	0.09	0.06	0	Down	RP1-140A9.1
ENSG00000152439.12	-1.739989449	-0.434068181	3.49x10-05	3.28x10-03	0.12	0.11	0.06	0.01	Down	ZNF773
ENSG00000139890.9	5.731407706	-2.547708866	3.65x10-04	1.58x10-02	0	0	0.06	0.1	Up	REM2
ENSG00000165949.12	-2.759505257	-1.903053874	5.93x10-04	2.25x10-02	0.18	0.53	0.06	0.03	Down	IFI27
ENSG00000153132.12	-1.737990827	-1.015969984	6.84x10-04	2.41x10-02	0.14	0.22	0.06	0.04	Down	CLGN
ENSG00000164120.13	1.623804701	-1.110149175	9.67x10-04	3.07x10-02	0.01	0.06	0.06	0.15	Up	HPGD
ENSG00000269743.2	2.394173261	-1.854563217	1.14x10-03	3.49x10-02	0	0.01	0.06	0.04	Up	SLC25A53
ENSG00000186714.12	-1.338122229	-0.577286146	1.52x10-03	4.04x10-02	0.13	0.07	0.06	0.01	Down	CCDC73
ENSG00000272123.1	5.733557127	-2.546606464	3.65x10-04	1.58x10-02	0	0	0.06	0.73	Up	CTD-2366F13.2
ENSG00000227375.5	-2.294838454	-1.668632317	8.19x10-04	2.76x10-02	0.02	0.38	0.06	0.02	Down	DLG1-AS1
ENSG00000233622.1	5.495885661	-2.691885359	1.30x10-03	3.60x10-02	0	0	0.06	0.17	Up	CYP2T1P
ENSG00000253399.1	5.496981524	-2.691328695	1.30x10-03	3.60x10-02	0	0	0.06	0.63	Up	AC078852.2
ENSG00000198711.5	3.761106589	-1.61657369	1.48x10-06	3.31x10-04	0	0.02	0.05	0.26	Up	SSBP3-AS1
ENSG00000139572.3	6.721302625	-1.850245565	1.44x10-07	5.98x10-05	0	0	0.05	0.3	Up	GPR84

ENSG00000134489.6	4.455443023	-1.768974173	1.03x10-06	2.42x10-04	0	0.01	0.05	0.15	Up	HRH4
ENSG00000117115.12	6.111493909	-2.296316728	3.04x10-05	3.00x10-03	0	0	0.05	0.05	Up	PADI2
ENSG00000188517.14	-1.598487753	-0.165697965	3.92x10-05	3.58x10-03	0.14	0.2	0.05	0.06	Down	COL25A1
ENSG00000244482.9	6.02611597	-2.354834605	5.62x10-05	4.50x10-03	0	0	0.05	0.08	Up	LILRA6
ENSG00000124253.10	-2.150854347	-1.226157467	1.42x10-04	8.79x10-03	0.04	0.19	0.05	0	Down	PCK1
ENSG00000164404.8	-1.995824132	-1.192278762	3.25x10-04	1.53x10-02	0.11	0.2	0.05	0.03	Down	GDF9
ENSG00000122367.19	-1.525674938	-0.512715531	3.25x10-04	1.53x10-02	0.14	0.11	0.05	0.03	Down	LDB3
ENSG00000198939.7	3.70539122	-2.295066064	4.69x10-04	1.90x10-02	0.01	0	0.05	0.11	Up	ZFP2
ENSG00000137673.8	2.463742245	-1.809484181	7.21x10-04	2.49x10-02	0.03	0.07	0.05	0.51	Up	MMP7
ENSG00000142959.4	-2.01506272	-1.47818645	9.36x10-04	3.04x10-02	0.25	0.15	0.05	0.04	Down	BEST4
ENSG00000164411.10	2.222598184	-1.731356378	1.26x10-03	3.60x10-02	0	0.06	0.05	0.24	Up	GJB7
ENSG00000204381.11	5.494790445	-2.69244185	1.30x10-03	3.60x10-02	0	0	0.05	0.06	Up	LAYN
ENSG00000182866.16	-1.503330596	-0.893347487	1.60x10-03	4.20x10-02	0.28	0.21	0.05	0.11	Down	LCK
ENSG00000222033.1	-2.000796487	-0.942027835	6.09x10-05	4.76x10-03	0.29	0.31	0.05	0.09	Down	LINC01124
ENSG00000197332.8	-1.436697808	-0.444722084	5.19x10-04	2.06x10-02	0.29	0.21	0.05	0.13	Down	ZNF833P
ENSG00000271427.1	5.620095176	-2.617161033	6.88x10-04	2.41x10-02	0	0	0.05	0.53	Up	RP11-188D8.1
ENSG00000233791.5	5.617925119	-2.618268787	6.88x10-04	2.41x10-02	0	0	0.05	0.08	Up	LINC01136

ENSG00000277144.1	-2.938650832	-2.183920047	1.24x10-03	3.60x10-02	0.56	0.33	0.05	0.05	Down	RP11-59H7.4
ENSG00000269758.1	-2.264060748	-1.932125298	1.79x10-03	4.63x10-02	1.02	0.15	0.05	0.16	Down	CTD-2245F17.9
ENSG00000255282.6	5.49424308	-2.692720029	1.30x10-03	3.60x10-02	0	0	0.05	0.05	Up	WTAPP1
ENSG00000276434.1	-3.507902913	-2.41723588	1.46x10-03	3.90x10-02	0.42	0.36	0.05	0	Down	RP11-391H12.8
ENSG00000253327.2	-2.750093605	-1.352667767	1.02x10-05	1.32x10-03	0.3	0.19	0.04	0.03	Down	RAD21-AS1
ENSG00000233230.1	-2.655578442	-1.666357706	1.81x10-04	1.02x10-02	0.14	0.95	0.04	0.13	Down	AC079807.2
ENSG00000259315.1	-2.427467908	-1.58176604	2.21x10-04	1.15x10-02	0.22	0.16	0.04	0.03	Down	ACTG1P17
ENSG00000239557.1	-3.16960885	-2.032737679	2.60x10-04	1.30x10-02	0.27	0.19	0.04	0	Down	RP11-168J18.6
ENSG00000274751.1	2.576114472	-1.727786051	2.88x10-04	1.38x10-02	0.02	0.01	0.04	0.14	Up	LA16c-358B7.4
ENSG00000206561.12	-2.476437608	-0.594046892	1.06x10-07	4.75x10-05	0.33	0.19	0.04	0.05	Down	COLQ
ENSG00000166323.12	-2.447528951	-0.610883663	2.14x10-07	7.71x10-05	0.17	0.34	0.04	0.05	Down	C11orf65
ENSG00000163121.9	-2.182730722	-0.698734141	4.23x10-06	7.38x10-04	0.3	0.46	0.04	0.12	Down	NEURL3
ENSG00000151136.14	6.268748603	-2.185759093	8.99x10-06	1.22x10-03	0	0	0.04	0.03	Up	BTBD11
ENSG00000143127.12	-1.476780217	0.422029105	9.85x10-06	1.29x10-03	0.27	0.34	0.04	0.17	Down	ITGA10
ENSG00000189157.13	-2.674280018	-1.401808047	2.46x10-05	2.73x10-03	0.03	0.41	0.04	0.03	Down	FAM47E
ENSG00000173991.5	-1.966460222	-0.860664423	4.64x10-05	4.13x10-03	0.52	0.13	0.04	0.12	Down	TCAP
ENSG00000197168.11	-2.522768256	-1.515467148	9.21x10-05	6.45x10-03	0.15	0.14	0.04	0.01	Down	NEK5

ENSG00000179846.8	-1.669244268	-0.548846443	1.08x10-04	7.03x10-03	0.17	0.17	0.04	0.06	Down	NKPD1
ENSG00000144278.14	-1.763311716	-0.717660101	1.40x10-04	8.69x10-03	0.1	0.15	0.04	0.03	Down	GALNT13
ENSG00000185040.13	-1.94517059	-1.231030941	3.25x10-04	1.53x10-02	0.22	0.06	0.04	0.02	Down	SPDYE16
ENSG00000205853.10	-2.584653168	-2.022686253	9.65x10-04	3.07x10-02	0.39	0	0.04	0.02	Down	RFPL3S
ENSG00000160539.4	5.495337972	-2.692163626	1.30x10-03	3.60x10-02	0	0	0.04	0.08	Up	PPAPDC3
ENSG00000162946.20	-1.04173521	0.452996226	1.51x10-03	4.01x10-02	0.11	0.16	0.04	0.09	Down	DISC1
ENSG00000223839.7	-2.187922362	-0.32915857	2.22x10-07	7.88x10-05	0.13	0.13	0.04	0.01	Down	FAM95B1
ENSG00000237476.1	-4.164448025	-1.979516046	9.27x10-06	1.24x10-03	0.76	0.19	0.04	0	Down	XXbac-B135H6.15
ENSG00000124097.7	-2.748126729	-1.90849404	5.93x10-04	2.25x10-02	0	0.9	0.04	0.09	Down	HMGB1P1
ENSG00000235641.4	-2.599941821	-1.458735336	5.93x10-05	4.68x10-03	0.06	0.19	0.04	0	Down	LINC00484
ENSG00000272871.1	-2.689416551	-1.648806892	1.14x10-04	7.39x10-03	0.45	0.16	0.04	0.04	Down	RP11-408A13.4
ENSG00000232006.8	-1.712123221	-0.752221103	1.90x10-04	1.02x10-02	0.19	0.21	0.04	0.08	Down	AC005537.2
ENSG00000235016.1	5.6184674	-2.617991912	6.88x10-04	2.41x10-02	0	0	0.04	0.08	Up	SEMA3F-AS1
ENSG00000272505.1	-1.935293167	-1.106342829	2.36x10-04	1.22x10-02	0.21	0.17	0.04	0.06	Down	RP11-981G7.6
ENSG00000227051.5	-1.449653686	-0.267493738	2.86x10-04	1.38x10-02	0.07	0.17	0.04	0.04	Down	C14orf132
ENSG00000258689.1	-3.623279512	-2.34683334	4.69x10-04	1.90x10-02	0.76	0	0.04	0	Down	LINC01269
ENSG00000271646.1	-1.643161917	-1.07944286	1.32x10-03	3.64x10-02	0.25	0.18	0.04	0.09	Down	RP11-326I11.3

ENSG00000267980.1	-1.804285643	-1.191485576	9.76x10-04	3.08x10-02	0.45	0.87	0.04	0.33	Down	AC007292.6
ENSG00000273599.1	2.423381834	-1.383719023	7.28x10-05	5.46x10-03	0.01	0.02	0.03	0.14	Up	RP11-59C5.3
ENSG00000273419.1	5.836643592	-2.480425936	1.95x10-04	1.02x10-02	0	0	0.03	0.06	Up	RP4-751H13.7
ENSG00000280739.2	5.836111659	-2.480700108	1.95x10-04	1.02x10-02	0	0	0.03	0.04	Up	EIF1B-AS1
ENSG00000205639.9	6.974290128	-1.651338121	8.43x10-09	6.06x10-06	0	0	0.03	0.27	Up	MFSD2B
ENSG00000169758.12	-2.436629795	-0.620463718	2.14x10-07	7.71x10-05	0.33	0.35	0.03	0.09	Down	C15orf27
ENSG00000188199.10	6.02611597	-2.354834605	5.62x10-05	4.50x10-03	0	0	0.03	0.05	Up	NUTM2B
ENSG00000205795.4	-2.963221242	-1.766913968	8.42x10-05	6.10x10-03	0.18	0.09	0.03	0	Down	CYS1
ENSG00000186409.14	5.935278956	-2.415855792	1.04x10-04	6.87x10-03	0	0	0.03	0.08	Up	CCDC30
ENSG00000111245.14	-3.853922974	-2.191721958	1.51x10-04	9.17x10-03	0.14	0.43	0.03	0	Down	MYL2
ENSG00000114805.16	-1.987941471	-1.338608972	6.60x10-04	2.41x10-02	0.02	0.1	0.03	0	Down	PLCH1
ENSG00000054356.13	-1.942380784	-1.36692784	9.64x10-04	3.07x10-02	0.04	0.18	0.03	0.03	Down	PTPRN
ENSG00000061455.10	1.73169188	-1.128749291	9.67x10-04	3.07x10-02	0.02	0.01	0.03	0.08	Up	PRDM6
ENSG00000168702.16	-1.352903188	-0.445533693	1.06x10-03	3.30x10-02	0.03	0.07	0.03	0.01	Down	LRP1B
ENSG00000101342.9	-2.430976645	-1.821004809	1.14x10-03	3.49x10-02	0.04	0.2	0.03	0.01	Down	TLDC2
ENSG00000260781.1	-2.65871564	-1.974835019	5.93x10-04	2.25x10-02	0.29	0	0.03	0.01	Down	ARHGAP23P1
ENSG00000267065.2	5.495885661	-2.691885359	1.30x10-03	3.60x10-02	0	0	0.03	0.07	Up	CTD-2246P4.1

ENSG00000223922.1	4.560842538	-1.689146672	3.50x10-07	1.13x10-04	0	0.02	0.02	0.63	Up	ASS1P2
ENSG00000279489.1	-3.744474078	-1.61954138	1.48x10-06	3.31x10-04	0.24	0.24	0.02	0.02	Down	RP11-392A14.8
ENSG00000279923.1	-3.586274643	-1.736010131	6.87x10-06	1.02x10-03	0.21	0.36	0.02	0.02	Down	CTD-2008E3.1
ENSG00000224533.4	-4.097046643	-2.027388744	2.82x10-05	3.00x10-03	0.29	0.08	0.02	0	Down	TMLHE-AS1
ENSG00000280381.1	-1.908505059	-0.796472715	6.90x10-05	5.23x10-03	0.1	0.15	0.02	0.04	Down	RP11-197N18.8
ENSG00000227496.1	5.838772753	-2.479328837	1.95x10-04	1.02x10-02	0	0	0.02	0.23	Up	RP11-145A3.1
ENSG00000168961.16	-2.813075449	-0.898622686	1.33x10-07	5.80x10-05	0.21	0.24	0.02	0.04	Down	LGALS9
ENSG00000168874.12	-3.809234612	-1.574748529	5.34x10-07	1.52x10-04	0.29	0.09	0.02	0	Down	ATOH8
ENSG00000175175.5	6.415367719	-2.080479802	2.70x10-06	5.44x10-04	0	0	0.02	0.07	Up	PPM1E
ENSG00000141540.10	-2.863805301	-1.268073438	2.73x10-06	5.46x10-04	0.12	0.11	0.02	0.01	Down	TTYH2
ENSG00000123096.11	-2.779829341	-1.328776706	6.57x10-06	9.90x10-04	0.09	0.11	0.02	0.01	Down	SSPN
ENSG00000179873.14	6.273319585	-2.183349838	8.99x10-06	1.22x10-03	0	0	0.02	0.14	Up	NLRP11
ENSG00000233297.4	-3.695250306	-2.298096037	4.69x10-04	1.90x10-02	0.18	0.19	0.02	0	Down	RASA4DP
ENSG00000158683.7	-2.455843917	-1.174796669	1.13x10-05	1.45x10-03	0.1	0.03	0.02	0	Down	PKD1L1
ENSG00000132938.18	-2.571939193	-1.270003952	1.35x10-05	1.67x10-03	0.07	0.07	0.02	0	Down	MTUS2
ENSG00000144191.11	-2.332919662	-1.260158563	3.81x10-05	3.54x10-03	0.19	0.07	0.02	0.03	Down	CNGA3
ENSG00000131126.18	-4.024205705	-2.078040282	4.92x10-05	4.30x10-03	0.27	0.1	0.02	0	Down	TEX101

ENSG00000145934.15	-2.095821966	-0.994687416	5.60x10-05	4.50x10-03	0.04	0.08	0.02	0	Down	TENM2
ENSG00000182179.10	-1.842260166	-0.845133639	9.59x10-05	6.68x10-03	0.28	0.13	0.02	0.08	Down	UBA7
ENSG00000133020.4	-2.091044688	-1.122396497	1.07x10-04	7.00x10-03	0.03	0.15	0.02	0.02	Down	MYH8
ENSG00000143344.15	-1.700811571	-0.680556408	1.42x10-04	8.79x10-03	0.21	0.07	0.02	0.06	Down	RGL1
ENSG00000155629.14	-2.133201064	-1.239642999	1.42x10-04	8.79x10-03	0.1	0.09	0.02	0.02	Down	PIK3AP1
ENSG00000170370.11	5.838240249	-2.479603173	1.95x10-04	1.02x10-02	0	0	0.02	0.11	Up	EMX2
ENSG00000186188.10	-2.119117538	-1.24675909	2.09x10-04	1.09x10-02	0.08	0.16	0.02	0.03	Down	FFAR4
ENSG00000172318.5	-2.561603391	-1.735364593	2.88x10-04	1.38x10-02	0.05	0.08	0.02	0	Down	B3GALT1
ENSG00000100298.15	-2.211407537	-1.519499759	3.88x10-04	1.66x10-02	0.24	0.45	0.02	0.12	Down	APOBEC3H
ENSG00000162490.6	-2.166451308	-1.552838848	5.88x10-04	2.25x10-02	0.04	0.06	0.02	0	Down	DRAXIN
ENSG00000204262.11	-1.395222186	-0.531708067	9.08x10-04	2.97x10-02	0.11	0.12	0.02	0.06	Down	COL5A2
ENSG00000176769.9	5.496433511	-2.691607049	1.30x10-03	3.60x10-02	0	0	0.02	0.09	Up	TCERG1L
ENSG00000169946.13	5.495337972	-2.692163626	1.30x10-03	3.60x10-02	0	0	0.02	0.04	Up	ZFPM2
ENSG00000132000.11	-2.941529695	-2.183008524	1.24x10-03	3.60x10-02	0.1	0.05	0.02	0	Down	PODNL1
ENSG00000174059.16	-1.674388159	-1.164982467	1.90x10-03	4.86x10-02	0.04	0.07	0.02	0.01	Down	CD34
ENSG00000139174.10	1.844823092	-1.288110547	1.96x10-03	4.97x10-02	0.04	0	0.02	0.13	Up	PRICKLE1
ENSG00000269514.1	-2.296025813	-0.848953912	4.38x10-06	7.50x10-04	0.23	0.16	0.02	0.05	Down	RP11-370I10.12

ENSG00000205959.3	-3.028754007	-1.722312549	3.17x10-05	3.06x10-03	0.2	0.04	0.02	0	Down	RP11-689P11.2
ENSG00000269289.5	5.619552429	-2.617438036	6.88x10-04	2.41x10-02	0	0	0.02	0.12	Up	CTB-92J24.3
ENSG00000260645.1	-2.672739521	-1.657725961	1.14x10-04	7.39x10-03	0.16	0.2	0.02	0.03	Down	RP11-250B2.5
ENSG00000248771.5	-2.934701157	-2.186544295	1.24x10-03	3.60x10-02	0.08	0.07	0.02	0	Down	LINC01207
ENSG00000234390.4	2.949447729	-2.184835392	1.24x10-03	3.60x10-02	0	0.02	0.02	0.19	Up	USP27X-AS1
ENSG00000280356.1	3.513801367	-2.416503569	1.46x10-03	3.90x10-02	0	0	0.02	0.02	Up	RP1-101G11.3
ENSG00000236155.6	-2.936974892	-2.185366418	1.24x10-03	3.60x10-02	0.09	0.07	0.02	0	Down	RP11-231P20.2
ENSG00000263424.1	-2.946094291	-2.180647774	1.24x10-03	3.60x10-02	0.12	0.03	0.02	0	Down	CTD-2541J13.2
ENSG00000280143.1	-2.569613131	-1.481238672	5.93x10-05	4.68x10-03	0.09	0.08	0.01	0.02	Down	AP000892.6
ENSG00000278920.1	-2.521320751	-1.516808759	9.21x10-05	6.45x10-03	0.02	0.03	0.01	0	Down	RP3-412A9.17
ENSG00000251455.1	-2.89837849	-1.809879374	1.37x10-04	8.56x10-03	0.15	0.11	0.01	0.02	Down	RP11-164P12.3
ENSG00000215097.3	-2.352469822	-1.628519686	5.30x10-04	2.08x10-02	0.07	0.34	0.01	0.06	Down	DUSP8P3
ENSG00000178623.11	-3.619467269	-1.273138113	6.09x10-08	3.03x10-05	0.09	0.13	0.01	0.01	Down	GPR35
ENSG00000163359.15	-2.918742155	-1.009186549	2.03x10-07	7.58x10-05	0.07	0.05	0.01	0	Down	COL6A3
ENSG00000156966.6	-3.067807499	-1.375147299	1.80x10-06	3.86x10-04	0.22	0.06	0.01	0.02	Down	B3GNT7
ENSG00000188107.13	-2.507540743	-1.13228006	7.55x10-06	1.12x10-03	0.05	0.04	0.01	0.01	Down	EYS
ENSG00000117983.17	-1.877866303	-0.39988072	7.80x10-06	1.14x10-03	0.06	0.05	0.01	0.02	Down	MUC5B

ENSG00000160185.13	-4.196619977	-1.950397143	1.61x10-05	1.95x10-03	0.04	0.21	0.01	0	Down	UBASH3A
ENSG00000156299.12	-3.429887105	-1.852116047	3.24x10-05	3.08x10-03	0.05	0.04	0.01	0	Down	TIAM1
ENSG00000267041.5	-2.261599933	-1.312731901	8.54x10-05	6.17x10-03	0.11	0.02	0.01	0.01	Down	ZNF850
ENSG00000248098.10	-3.883258216	-2.176394643	8.63x10-05	6.18x10-03	0.21	0.01	0.01	0	Down	BCKDHA
ENSG00000100368.13	5.93633359	-2.41530987	1.04x10-04	6.87x10-03	0	0	0.01	0.07	Up	CSF2RB
ENSG00000183638.5	-1.84207204	-0.943175583	1.80x10-04	1.02x10-02	0.07	0.08	0.01	0.03	Down	RP1L1
ENSG00000166546.13	-3.214097509	-1.998675133	2.60x10-04	1.30x10-02	0	0.1	0.01	0	Down	BEAN1
ENSG00000162576.16	-1.788832734	-0.980502032	3.52x10-04	1.58x10-02	0.25	0.14	0.01	0.1	Down	MXRA8
ENSG00000175899.14	-2.218108509	-1.516470838	3.88x10-04	1.66x10-02	0.08	0.09	0.01	0.02	Down	A2M
ENSG00000205683.11	-3.037588708	-2.122891593	4.38x10-04	1.82x10-02	0.11	0	0.01	0	Down	DPF3
ENSG00000249464.5	-2.875255957	-1.261726618	1.76x10-06	3.83x10-04	0.1	0.04	0.01	0	Down	LINC01091
ENSG00000165555.9	-2.311878767	-1.6578869	5.30x10-04	2.08x10-02	0.16	0.22	0.01	0.06	Down	NOXRED1
ENSG00000004468.12	-2.698433056	-1.944628269	5.93x10-04	2.25x10-02	0.04	0.06	0.01	0	Down	CD38
ENSG00000171931.12	-2.263127049	-1.691475751	8.19x10-04	2.76x10-02	0.11	0.09	0.01	0.03	Down	FBXW10
ENSG00000182771.17	-2.212840466	-1.72627729	1.26x10-03	3.60x10-02	0.08	0.04	0.01	0.01	Down	GRID1
ENSG00000088881.20	-3.588534519	-2.364760103	1.46x10-03	3.90x10-02	0	0.13	0.01	0	Down	EBF4
ENSG00000275149.1	-2.569031332	-1.480991197	5.93x10-05	4.68x10-03	0.13	0.12	0.01	0.03	Down	RP11-427J23.1

ENSG00000138675.16	-2.324211573	-1.893182041	1.79x10-03	4.63x10-02	0.07	0.04	0.01	0.01	Down	FGF5
ENSG00000272168.5	-2.354878944	-1.422034273	1.11x10-04	7.21x10-03	0.03	0.05	0.01	0.01	Down	CASC15
ENSG00000260532.1	5.496981524	-2.691328695	1.30x10-03	3.60x10-02	0	0	0.01	0.16	Up	LA16c-381G6.1
ENSG00000086991.12	-2.138074519	-1.773144495	1.94x10-03	4.94x10-02	0.05	0.07	0.01	0.02	Down	NOX4
ENSG00000268030.1	5.496981524	-2.691328695	1.30x10-03	3.60x10-02	0	0	0.01	0.14	Up	AC005253.2
ENSG00000278047.1	10.12855086	1.223274315	3.94x10-45	5.40x10-41	0	0	0	82.44	Up	FP671120.6
ENSG00000276924.1	9.212450109	0.340571166	4.39x10-30	2.40x10-26	0	0	0	43.77	Up	FP236383.9
ENSG00000275215.1	7.827281082	-0.932989289	1.22x10-14	2.78x10-11	0	0	0	10.09	Up	RNA5-8S5
ENSG00000278189.1	4.656857367	-0.887637796	3.21x10-12	4.88x10-09	0.4	0	0	10.09	Up	RNA5-8S5
ENSG00000227666.1	-6.931020287	-1.685774429	8.43x10-09	6.06x10-06	2.02	0.74	0	0	Down	CYCSP24
ENSG00000235505.7	-6.887705415	-1.721413687	1.48x10-08	9.19x10-06	0.17	0.04	0	0	Down	RP11-693N9.2
ENSG00000214773.1	-6.871270424	-1.730428274	2.60x10-08	1.54x10-05	0.32	0.25	0	0	Down	RP11-717D12.1
ENSG00000233098.8	-6.68015878	-1.884059236	1.44x10-07	5.98x10-05	0.09	0.01	0	0	Down	CCDC144NL-AS1
ENSG00000279433.1	-6.625221656	-1.926676864	2.57x10-07	8.79x10-05	0.32	0	0	0	Down	RP11-4B16.1
ENSG00000196564.4	-6.601592262	-1.939378277	4.60x10-07	1.34x10-04	0.53	0.38	0	0	Down	RP3-499B10.3
ENSG00000238258.1	-6.535399735	-1.98808293	8.27x10-07	2.04x10-04	0.39	0.43	0	0	Down	RP11-342D11.2
ENSG00000273249.1	-6.403239729	-2.085514221	2.70x10-06	5.44x10-04	0.3	0.41	0	0	Down	LL09NC01-251B2.3

ENSG00000279236.1	-3.338753151	-1.48754818	2.80x10-06	5.51x10-04	0.23	0.46	0	0.06	Down	RP11-120K19.3
ENSG00000240086.5	-6.385802666	-2.094813584	4.92x10-06	7.97x10-04	0	0.5	0	0	Down	RP11-657O9.1
ENSG00000215148.7	-4.268685205	-1.899402905	5.34x10-06	8.35x10-04	0.29	0.41	0	0.03	Down	PRSS41
ENSG00000225840.2	-4.228307162	-1.932888121	5.34x10-06	8.35x10-04	0.3	0.07	0	0.01	Down	AC010970.2
ENSG00000261093.1	-6.321467533	-2.142599323	8.99x10-06	1.22x10-03	0.03	0.25	0	0	Down	CTD-3126B10.1
ENSG00000218537.1	-6.269312288	-2.183958909	8.99x10-06	1.22x10-03	0.23	0.14	0	0	Down	MIF-AS1
ENSG00000261168.1	-6.269312288	-2.183958909	8.99x10-06	1.22x10-03	0.22	0.14	0	0	Down	RP11-68I18.10
ENSG00000267246.1	-2.74639531	-1.353008885	1.02x10-05	1.32x10-03	0.7	0.5	0	0.17	Down	RP11-798G7.7
ENSG00000219298.1	-4.142083258	-1.990818906	1.61x10-05	1.95x10-03	0.39	0.71	0	0.05	Down	RP11-472G23.3
ENSG00000273035.1	-6.173207616	-2.248459563	3.04x10-05	3.00x10-03	0.13	0.87	0	0	Down	RP11-449G16.1
ENSG00000243695.1	-6.101866165	-2.299763235	3.04x10-05	3.00x10-03	0.25	0.4	0	0	Down	RP11-290L7.3
ENSG00000236953.1	-6.113234852	-2.293816171	3.04x10-05	3.00x10-03	0.76	0.35	0	0	Down	ZDHHC20-IT1
ENSG00000257696.1	-6.168738947	-2.250815337	3.04x10-05	3.00x10-03	0	1.12	0	0	Down	RP11-175P13.2
ENSG00000267042.1	-6.106406314	-2.297386639	3.04x10-05	3.00x10-03	0.45	0.43	0	0	Down	CTD-3193K9.4
ENSG00000235683.1	-6.168738947	-2.250815337	3.04x10-05	3.00x10-03	0	0.23	0	0	Down	AC018442.1
ENSG00000234380.1	-6.106406314	-2.297386639	3.04x10-05	3.00x10-03	0.09	0.09	0	0	Down	LINC01426
ENSG00000280321.1	-6.110956228	-2.295007071	3.04x10-05	3.00x10-03	0.18	0.11	0	0	Down	RP11-1110F20.1

ENSG00000259462.2	-6.101866165	-2.299763235	3.04x10-05	3.00x10-03	0.04	0.06	0	0	Down	CPEB1-AS1
ENSG00000227344.2	-3.386281182	-1.88491358	3.24x10-05	3.08x10-03	0.41	0.03	0	0.04	Down	HAUS6P1
ENSG00000229539.1	-3.437253245	-1.847030594	3.24x10-05	3.08x10-03	1.17	0.41	0	0.13	Down	RP11-119B16.2
ENSG00000125804.13	-2.188767893	-1.05525464	3.47x10-05	3.28x10-03	0.13	0.1	0	0.05	Down	FAM182A
ENSG00000267515.1	-5.947042147	-2.408090624	5.62x10-05	4.50x10-03	0.76	0	0	0	Down	RP11-861E21.3
ENSG00000251441.2	-6.01214753	-2.360477357	5.62x10-05	4.50x10-03	0.03	0.08	0	0	Down	RTEL1P1
ENSG00000255518.1	-6.016721931	-2.358091526	5.62x10-05	4.50x10-03	0.34	0.48	0	0	Down	RP11-148O21.4
ENSG00000259804.1	-6.088304131	-2.306875245	5.62x10-05	4.50x10-03	0	0.49	0	0	Down	CTD-2012K14.7
ENSG00000274615.1	-6.007583267	-2.362860163	5.62x10-05	4.50x10-03	0.05	0.28	0	0	Down	CH17-258A22.4
ENSG00000257150.3	6.029250567	-2.353204649	5.62x10-05	4.50x10-03	0	0	0	0.19	Up	PGAM1P5
ENSG00000225591.2	-6.007583267	-2.362860163	5.62x10-05	4.50x10-03	0.24	1.43	0	0	Down	RP11-360D2.2
ENSG00000224802.2	3.953089781	-2.129760093	8.63x10-05	6.18x10-03	0.04	0	0	0.66	Up	TUBB4BP2
ENSG00000274717.1	-5.916895411	-2.423714055	1.04x10-04	6.87x10-03	0.04	0.21	0	0	Down	RP1-47A17.1
ENSG00000244502.2	5.937388773	-2.414763788	1.04x10-04	6.87x10-03	0	0	0	0.8	Up	HDAC11-AS1
ENSG00000224672.4	-5.84810078	-2.472799544	1.04x10-04	6.87x10-03	0.77	0	0	0	Down	AC007272.3
ENSG00000224746.1	-5.84810078	-2.472799544	1.04x10-04	6.87x10-03	0.53	0	0	0	Down	AC015987.1
ENSG00000277978.1	5.937388773	-2.414763788	1.04x10-04	6.87x10-03	0	0	0	1.08	Up	RP11-403P17.6

ENSG00000279427.1	-2.927679527	-1.784173761	1.37x10-04	8.56x10-03	0	0.92	0	0.12	Down	RP11-132F7.2
ENSG00000223284.1	-3.855558586	-2.190280302	1.51x10-04	9.17x10-03	1.39	3.1	0	0.25	Down	RNU6-195P
ENSG00000273216.1	3.246941521	-1.982048862	1.54x10-04	9.25x10-03	0.13	0	0	1.21	Up	AC002059.10
ENSG00000257553.1	-5.820009107	-2.487292055	1.95x10-04	1.02x10-02	0.14	0.72	0	0	Down	RP11-603J24.17
ENSG00000231871.5	-5.817686072	-2.488494627	1.95x10-04	1.02x10-02	0.03	0.29	0	0	Down	IPO9-AS1
ENSG00000228238.1	-5.914594966	-2.424910441	1.95x10-04	1.02x10-02	0.03	0.36	0	0	Down	GS1-304P7.2
ENSG00000256981.1	5.839305401	-2.47905446	1.95x10-04	1.02x10-02	0	0	0	0.42	Up	TAS2R18
ENSG00000271730.1	-5.824663418	-2.484884547	1.95x10-04	1.02x10-02	0.19	0.4	0	0	Down	RP11-787I22.3
ENSG00000275413.1	-5.74201682	-2.540497711	1.95x10-04	1.02x10-02	1.19	0	0	0	Down	CTC-529I10.1
ENSG00000239473.1	-5.74201682	-2.540497711	1.95x10-04	1.02x10-02	0.53	0	0	0	Down	RPL7P38
ENSG00000232724.1	-5.834005114	-2.480060055	1.95x10-04	1.02x10-02	0.09	0.05	0	0	Down	TRIM80P
ENSG00000227857.2	-5.817686072	-2.488494627	1.95x10-04	1.02x10-02	0.09	1	0	0	Down	RP4-533D7.5
ENSG00000238181.2	-5.912297153	-2.426106056	1.95x10-04	1.02x10-02	0	0.3	0	0	Down	AHCYP2
ENSG00000232479.2	-5.74201682	-2.540497711	1.95x10-04	1.02x10-02	0.3	0	0	0	Down	AC010900.2
ENSG00000243173.3	5.839305401	-2.47905446	1.95x10-04	1.02x10-02	0	0	0	1.35	Up	RN7SL861P
ENSG00000272498.1	-5.831665547	-2.481267365	1.95x10-04	1.02x10-02	0.38	0.32	0	0	Down	RP11-415F23.3
ENSG00000234961.1	-2.183923448	-1.359157703	1.91x10-04	1.02x10-02	0.52	0.77	0	0.27	Down	RP11-124N14.3

ENSG00000241782.1	-3.172842194	-2.029884099	2.60x10-04	1.30x10-02	0.83	0.38	0	0.12	Down	RP11-91P24.1
ENSG00000278952.1	-5.713673483	-2.555056964	3.65x10-04	1.58x10-02	0.04	0.39	0	0	Down	RP11-399J13.2
ENSG00000254433.1	-5.725432765	-2.549004753	3.65x10-04	1.58x10-02	0.15	0.15	0	0	Down	RP11-677I18.3
ENSG00000260111.1	-5.713673483	-2.555056964	3.65x10-04	1.58x10-02	0.05	0.53	0	0	Down	RP11-529K1.4
ENSG00000215120.2	-5.627671011	-2.611476469	3.65x10-04	1.58x10-02	0.24	0	0	0	Down	AL590763.5
ENSG00000257539.2	-5.732522855	-2.545363739	3.65x10-04	1.58x10-02	0.15	0.06	0	0	Down	HSPA8P14
ENSG00000254398.1	-5.720720443	-2.551428055	3.65x10-04	1.58x10-02	0.22	0.43	0	0	Down	RP11-578F21.2
ENSG00000276002.1	-2.780035194	-1.891087933	3.64x10-04	1.58x10-02	1.63	0.65	0	0.3	Down	Metazoa_SRP
ENSG00000242562.1	-5.81536578	-2.489696412	3.65x10-04	1.58x10-02	0	0.27	0	0	Down	DCAF13P1
ENSG00000279853.1	-5.732522855	-2.545363739	3.65x10-04	1.58x10-02	0.13	0.05	0	0	Down	RP5-844F9.1
ENSG00000237280.1	-5.720720443	-2.551428055	3.65x10-04	1.58x10-02	0.18	0.34	0	0	Down	RP11-96C23.9
ENSG00000246740.2	-5.627671011	-2.611476469	3.65x10-04	1.58x10-02	0.15	0	0	0	Down	PLA2G4E-AS1
ENSG00000256651.1	-3.096406415	-2.080545178	4.38x10-04	1.82x10-02	0.35	0.22	0	0.06	Down	RP11-144O23.8
ENSG00000271746.1	-5.711330219	-2.556264992	6.88x10-04	2.41x10-02	0	0.4	0	0	Down	RP1-202O8.3
ENSG00000232692.1	-5.622874456	-2.613922484	6.88x10-04	2.41x10-02	0.15	0.02	0	0	Down	AP001596.6
ENSG00000233144.1	-5.606181497	-2.622457478	6.88x10-04	2.41x10-02	0.23	0.58	0	0	Down	RP11-537A6.9
ENSG00000264982.1	-5.622874456	-2.613922484	6.88x10-04	2.41x10-02	0.39	0.07	0	0	Down	RP11-344B2.2

ENSG00000258446.1	-5.618089995	-2.616365184	6.88x10-04	2.41x10-02	0.8	0.34	0	0	Down	RP11-895M11.2
ENSG00000253875.1	-5.620480716	-2.615144248	6.88x10-04	2.41x10-02	0.47	0.13	0	0	Down	RP11-16P20.3
ENSG00000233930.3	-5.620480716	-2.615144248	6.88x10-04	2.41x10-02	0.12	0.03	0	0	Down	KRTAP5-AS1
ENSG00000224415.1	-5.603808786	-2.623673465	6.88x10-04	2.41x10-02	0.1	0.44	0	0	Down	RP11-401L13.4
ENSG00000259735.1	-5.615702287	-2.617585293	6.88x10-04	2.41x10-02	0.43	0.26	0	0	Down	RP11-356M20.3
ENSG00000239257.1	-2.455014068	-1.806634698	7.21x10-04	2.49x10-02	0.97	0.44	0	0.23	Down	RPL23AP1
ENSG00000259384.6	-10.06905553	1.165205299	4.56x10-44	3.12x10-40	5.56	3.59	0	0	Down	GH1
ENSG00000146166.16	-5.021192292	-1.308407975	1.10x10-09	1.08x10-06	0.05	0.14	0	0	Down	LGSN
ENSG00000224940.8	4.609986611	-1.651278561	2.05x10-07	7.58x10-05	0	0.01	0	0.23	Up	PRRT4
ENSG00000162771.7	-3.789868565	-1.584196997	8.87x10-07	2.15x10-04	0.18	0.19	0	0.02	Down	FAM71A
ENSG00000138336.8	-4.48326468	-1.737581309	1.03x10-06	2.42x10-04	0.03	0.06	0	0	Down	TET1
ENSG00000267706.3	-3.273085472	-1.541566062	4.54x10-06	7.53x10-04	0.21	0.08	0	0.03	Down	CTD-2105E13.6
ENSG00000281181.1	-8.722646549	-0.125080835	1.05x10-23	4.78x10-20	2.47	0.79	0	0	Down	CH507-513H4.3
ENSG00000160219.11	-6.33026664	-2.13792639	4.92x10-06	7.97x10-04	0.04	0.08	0	0	Down	GAB3
ENSG00000187553.8	-6.209293865	-2.229508766	8.99x10-06	1.22x10-03	0.35	0	0	0	Down	CYP26C1
ENSG00000280614.1	-7.870550169	-0.892584726	7.54x10-15	1.88x10-11	1.05	0.73	0	0	Down	CH507-513H4.4
ENSG00000196420.7	-4.219653411	-1.93750197	9.27x10-06	1.24x10-03	0.54	0.3	0	0.04	Down	S100A5

ENSG00000272566.1	-6.946721004	-1.665565815	1.48x10-08	9.19x10-06	0.3	1.06	0	0	Down	RP11-462G22.2
ENSG00000259577.1	-3.126530351	-1.649001021	1.95x10-05	2.21x10-03	0.28	0.11	0	0.04	Down	RP11-430B1.2
ENSG00000139547.7	-4.142083258	-1.990818906	1.61x10-05	1.95x10-03	0.09	0.16	0	0.01	Down	RDH16
ENSG00000207770.1	-2.637506038	-1.984744623	9.65x10-04	3.07x10-02	3.52	2.46	0	0.87	Down	MIR568
ENSG00000138741.10	-6.179928106	-2.244920473	1.65x10-05	1.95x10-03	0.04	0.09	0	0	Down	TRPC3
ENSG00000091128.12	-6.108680049	-2.296197226	3.04x10-05	3.00x10-03	0.04	0.03	0	0	Down	LAMB4
ENSG00000171557.16	-6.01214753	-2.360477357	5.62x10-05	4.50x10-03	0.06	0.15	0	0	Down	FGG
ENSG00000267072.2	-3.126530351	-1.649001021	1.95x10-05	2.21x10-03	0.25	0.1	0	0.04	Down	RP11-165E7.1
ENSG00000185565.11	-5.947042147	-2.408090624	5.62x10-05	4.50x10-03	0.05	0	0	0	Down	LSAMP
ENSG00000267767.2	-6.168738947	-2.250815337	3.04x10-05	3.00x10-03	0	0.23	0	0	Down	CTC-523E23.4
ENSG00000064270.12	-6.01214753	-2.360477357	5.62x10-05	4.50x10-03	0.04	0.09	0	0	Down	ATP2C2
ENSG00000144837.8	-3.366801642	-1.895249547	5.45x10-05	4.50x10-03	0.19	0.15	0	0.03	Down	PLA1A
ENSG00000228037.1	-6.039746758	-2.346116816	3.04x10-05	3.00x10-03	0.78	0	0	0	Down	RP3-395M20.9
ENSG00000111879.18	-6.014433462	-2.35928482	5.62x10-05	4.50x10-03	0.03	0.05	0	0	Down	FAM184A
ENSG00000235568.6	-5.926123574	-2.418920795	1.04x10-04	6.87x10-03	0.03	0.04	0	0	Down	NFAM1
ENSG00000060566.13	-5.919198491	-2.422516899	1.04x10-04	6.87x10-03	0.03	0.12	0	0	Down	CREB3L3
ENSG00000235852.1	-2.379619007	-1.854723293	1.14x10-03	3.49x10-02	0.3	0.37	0	0.12	Down	AC005540.3

ENSG00000185002.9	5.937388773	-2.414763788	1.04x10-04	6.87x10-03	0	0	0	0.12	Up	RFX6
ENSG00000118849.9	-5.935394103	-2.414115153	1.04x10-04	6.87x10-03	0.15	0.06	0	0	Down	RARRES1
ENSG00000254153.1	-6.039746758	-2.346116816	3.04x10-05	3.00x10-03	0.95	0	0	0	Down	CTA-398F10.2
ENSG00000247877.6	-6.108680049	-2.296197226	3.04x10-05	3.00x10-03	0.17	0.13	0	0	Down	CTD-2001C12.1
ENSG00000242578.1	-6.014433462	-2.35928482	5.62x10-05	4.50x10-03	0.23	0.43	0	0	Down	RP11-469J4.3
ENSG00000275450.1	-3.254526225	-1.976200488	9.17x10-05	6.45x10-03	0.18	0.02	0	0.02	Down	RP11-4L24.3
ENSG00000118094.11	-6.00302912	-2.365239949	1.04x10-04	6.87x10-03	0	0.15	0	0	Down	TREH
ENSG00000235488.1	-3.000301743	-2.14112877	1.24x10-03	3.60x10-02	0.13	0.91	0	0.12	Down	JARID2-AS1
ENSG00000204929.11	-5.926123574	-2.418920795	1.04x10-04	6.87x10-03	0.06	0.08	0	0	Down	AC074391.1
ENSG00000280166.1	-5.599072311	-2.626102974	1.30x10-03	3.60x10-02	0	0.5	0	0	Down	RP11-354E23.3
ENSG00000259774.1	-5.74201682	-2.540497711	1.95x10-04	1.02x10-02	0.33	0	0	0	Down	RP11-182J1.13
ENSG00000271869.1	-3.217243662	-1.995853472	2.60x10-04	1.30x10-02	0.15	1.22	0	0.14	Down	RP11-51J9.5
ENSG00000169744.12	-5.84810078	-2.472799544	1.04x10-04	6.87x10-03	0.14	0	0	0	Down	LDB2
ENSG00000274094.1	-5.484369297	-2.69588166	1.30x10-03	3.60x10-02	1.49	3.41	0	0	Down	MIR6845
ENSG00000124935.3	-5.916895411	-2.423714055	1.04x10-04	6.87x10-03	0.13	0.7	0	0	Down	SCGB1D2
ENSG00000273416.1	-5.730156605	-2.546578219	3.65x10-04	1.58x10-02	0.57	0.3	0	0	Down	RP4-597N16.4
ENSG00000260886.1	-5.491578967	-2.69220937	1.30x10-03	3.60x10-02	0.21	0.15	0	0	Down	TAT-AS1

ENSG00000256928.1	-5.50123577	-2.687301174	1.30x10-03	3.60x10-02	0.4	0.03	0	0	Down	RP11-809N8.2
ENSG00000115085.13	-3.853316089	-2.191455213	1.51x10-04	9.17x10-03	0.05	0.14	0	0.01	Down	ZAP70
ENSG00000205363.5	-3.278434629	-1.952850016	1.54x10-04	9.25x10-03	0	0.09	0	0.01	Down	C15orf59
ENSG00000248576.1	5.497529699	-2.691050297	1.30x10-03	3.60x10-02	0	0	0	0.75	Up	RP11-834C11.8
ENSG00000152580.8	-2.066902894	-1.139581299	1.55x10-04	9.25x10-03	0.03	0.06	0	0.02	Down	IGSF10
ENSG00000259030.6	-5.824663418	-2.484884547	1.95x10-04	1.02x10-02	0.01	0.03	0	0	Down	FPGT-TNNI3K
ENSG00000183798.4	-5.914594966	-2.424910441	1.95x10-04	1.02x10-02	0.01	0.1	0	0	Down	EMILIN3
ENSG00000235257.8	-5.599072311	-2.626102974	1.30x10-03	3.60x10-02	0	0.09	0	0	Down	ITGA9-AS1
ENSG00000126838.9	-5.74201682	-2.540497711	1.95x10-04	1.02x10-02	0.09	0	0	0	Down	PZP
ENSG00000267782.1	5.497529699	-2.691050297	1.30x10-03	3.60x10-02	0	0	0	0.64	Up	RP11-799D4.3
ENSG00000112394.16	-5.829328744	-2.482473882	1.95x10-04	1.02x10-02	0.02	0.02	0	0	Down	SLC16A10
ENSG00000262312.2	-2.942610052	-2.181292259	1.24x10-03	3.60x10-02	0.12	0.04	0	0.02	Down	LA16c-390H2.4
ENSG00000234147.1	-5.730156605	-2.546578219	3.65x10-04	1.58x10-02	0.54	0.29	0	0	Down	RP3-460G2.2
ENSG00000262558.1	-5.503657849	-2.68607201	1.30x10-03	3.60x10-02	0.37	0	0	0	Down	RP11-1260E13.3
ENSG00000267090.1	-5.496401077	-2.689756962	1.30x10-03	3.60x10-02	0.82	0.26	0	0	Down	AC005789.9
ENSG00000143473.11	-5.826994703	-2.48367961	1.95x10-04	1.02x10-02	0.02	0.03	0	0	Down	KCNH1
ENSG00000270316.1	-5.838692558	-2.477643061	1.95x10-04	1.02x10-02	0.11	0.04	0	0	Down	C10orf32-ASMT

ENSG00000204542.2	-5.718368591	-2.552638497	3.65x10-04	1.58x10-02	0.08	0.23	0	0	Down	C6orf15
ENSG00000258946.5	-5.727793243	-2.54779189	3.65x10-04	1.58x10-02	0.07	0.05	0	0	Down	RP11-58E21.4
ENSG00000241868.3	-5.479578451	-2.698325648	1.30x10-03	3.60x10-02	0.11	0.96	0	0	Down	RN7SL434P
ENSG00000140538.16	-5.732522855	-2.545363739	3.65x10-04	1.58x10-02	0.01	0	0	0	Down	NTRK3
ENSG00000225369.1	-5.493988452	-2.690983588	1.30x10-03	3.60x10-02	0.25	0.12	0	0	Down	AC009506.2
ENSG00000186335.8	-5.734891997	-2.544148449	3.65x10-04	1.58x10-02	0.08	0.02	0	0	Down	SLC36A2
ENSG00000242258.1	-5.723075166	-2.550216807	3.65x10-04	1.58x10-02	0.07	0.1	0	0	Down	LINC00996
ENSG00000271417.2	-5.734891997	-2.544148449	3.65x10-04	1.58x10-02	0.19	0.05	0	0	Down	SNHG24
ENSG00000279530.1	-5.725432765	-2.549004753	3.65x10-04	1.58x10-02	0.07	0.07	0	0	Down	AC092881.1
ENSG00000249378.5	-5.711330219	-2.556264992	6.88x10-04	2.41x10-02	0	0.12	0	0	Down	LINC01060
ENSG00000249679.1	-5.477187691	-2.699546383	1.30x10-03	3.60x10-02	0	0.72	0	0	Down	RP11-279O9.4
ENSG00000279968.1	-5.723075166	-2.550216807	3.65x10-04	1.58x10-02	0.06	0.08	0	0	Down	RP3-509I19.11
ENSG00000242207.1	-5.491578967	-2.69220937	1.30x10-03	3.60x10-02	0.32	0.23	0	0	Down	HOXB-AS4
ENSG00000187942.11	-5.81536578	-2.489696412	3.65x10-04	1.58x10-02	0	0.09	0	0	Down	LDLRAD2
ENSG00000270028.1	-5.599072311	-2.626102974	1.30x10-03	3.60x10-02	0	0.5	0	0	Down	RP11-380L11.4
ENSG00000163352.5	5.734094855	-2.546330759	3.65x10-04	1.58x10-02	0	0	0	0.65	Up	LENEP
ENSG00000273069.1	5.620638079	-2.616883988	6.88x10-04	2.41x10-02	0	0	0	0.86	Up	RP5-1186P10.2

ENSG00000267058.1	-5.711330219	-2.556264992	6.88x10-04	2.41x10-02	0	0.15	0	0	Down	RP11-15A1.3
ENSG00000074276.10	-5.713673483	-2.555056964	3.65x10-04	1.58x10-02	0.01	0.07	0	0	Down	CDHR2
ENSG00000134258.16	-5.627671011	-2.611476469	3.65x10-04	1.58x10-02	0.12	0	0	0	Down	VTCN1
ENSG00000262576.2	-5.720720443	-2.551428055	3.65x10-04	1.58x10-02	0.02	0.05	0	0	Down	PCDHGA4
ENSG00000156150.6	-5.627671011	-2.611476469	3.65x10-04	1.58x10-02	0.2	0	0	0	Down	ALX3
ENSG00000247624.6	-5.618089995	-2.616365184	6.88x10-04	2.41x10-02	0.08	0.03	0	0	Down	CPEB2-AS1
ENSG00000251400.1	-5.489172616	-2.693434309	1.30x10-03	3.60x10-02	0.1	0.1	0	0	Down	ALDH7A1P1
ENSG00000263171.1	-5.599072311	-2.626102974	1.30x10-03	3.60x10-02	0	0.74	0	0	Down	RP11-542C16.1
ENSG00000269549.2	-2.95405221	-2.175379818	7.38x10-04	2.54x10-02	0.16	0	0	0.02	Down	RP3-461P17.10
ENSG00000232679.1	-3.592525891	-2.362109229	8.28x10-04	2.76x10-02	0.11	0.6	0	0.05	Down	RP11-400N13.3
ENSG00000269388.1	-5.503657849	-2.68607201	1.30x10-03	3.60x10-02	0.23	0	0	0	Down	AC018755.16
ENSG00000269889.1	-5.503657849	-2.68607201	1.30x10-03	3.60x10-02	0.4	0	0	0	Down	RP11-816J6.3
ENSG00000165923.15	-5.725432765	-2.549004753	3.65x10-04	1.58x10-02	0.05	0.05	0	0	Down	AGBL2
ENSG00000176927.14	-2.229247012	-1.509405045	3.88x10-04	1.66x10-02	0.1	0.05	0	0.03	Down	EFCAB5
ENSG00000198624.12	-3.096406415	-2.080545178	4.38x10-04	1.82x10-02	0.1	0.06	0	0.02	Down	CCDC69
ENSG00000131781.12	-3.766188879	-2.248895319	4.69x10-04	1.90x10-02	0.01	0.13	0	0.01	Down	FMO5
ENSG00000169402.15	-5.603808786	-2.623673465	6.88x10-04	2.41x10-02	0.02	0.08	0	0	Down	RSPH10B2

ENSG00000234235.1	-5.496401077	-2.689756962	1.30x10-03	3.60x10-02	0.38	0.12	0	0	Down	BOK-AS1
ENSG00000272226.1	-5.491578967	-2.69220937	1.30x10-03	3.60x10-02	0.34	0.24	0	0	Down	RP11-63G10.3
ENSG00000259663.2	2.073663523	-1.611436224	1.34x10-03	3.70x10-02	0.03	0	0	0.1	Up	CTD-2314G24.2
ENSG00000163885.11	-5.603808786	-2.623673465	6.88x10-04	2.41x10-02	0.03	0.11	0	0	Down	CCDC37
ENSG00000168542.12	-5.615702287	-2.617585293	6.88x10-04	2.41x10-02	0.04	0.02	0	0	Down	COL3A1
ENSG00000237588.2	-5.489172616	-2.693434309	1.30x10-03	3.60x10-02	0.04	0.04	0	0	Down	RP11-66D17.3
ENSG00000215018.9	-5.608557198	-2.621240668	6.88x10-04	2.41x10-02	0.03	0.05	0	0	Down	COL28A1
ENSG00000161270.19	-3.009267067	-2.136452367	7.38x10-04	2.54x10-02	0.04	0.07	0	0.01	Down	NPHS1
ENSG00000163884.3	-3.678659599	-2.306129253	8.28x10-04	2.76x10-02	0	0.16	0	0.01	Down	KLF15
ENSG00000271709.1	-5.477187691	-2.699546383	1.30x10-03	3.60x10-02	0	0.4	0	0	Down	RP11-297J22.1
ENSG00000258908.1	5.497529699	-2.691050297	1.30x10-03	3.60x10-02	0	0	0	0.62	Up	RP11-203M5.8
ENSG00000132026.13	-2.2904329	-1.668733402	8.19x10-04	2.76x10-02	0	0.29	0	0.06	Down	RTBDN
ENSG00000269635.1	-5.503657849	-2.68607201	1.30x10-03	3.60x10-02	1.21	0	0	0	Down	AC004257.1
ENSG00000261392.1	-5.503657849	-2.68607201	1.30x10-03	3.60x10-02	0.44	0	0	0	Down	RP11-473I1.6
ENSG00000261177.1	-3.002539573	-2.139960712	1.24x10-03	3.60x10-02	0.01	0.05	0	0.01	Down	RP11-805I24.1
ENSG00000275485.1	-3.51197793	-2.414559338	1.46x10-03	3.90x10-02	0.55	0.26	0	0.06	Down	RP11-261P13.6
ENSG00000227512.1	-3.51197793	-2.414559338	1.46x10-03	3.90x10-02	0.32	0.15	0	0.03	Down	RP11-413M3.4

ENSG00000132932.16	-2.641940098	-1.98242973	9.65x10-04	3.07x10-02	0.04	0.02	0	0.01	Down	ATP8A2
ENSG00000150594.6	-5.477187691	-2.699546383	1.30x10-03	3.60x10-02	0	0.08	0	0	Down	ADRA2A
ENSG00000274933.4	-3.000301743	-2.14112877	1.24x10-03	3.60x10-02	0.02	0.12	0	0.02	Down	TBC1D3I
ENSG00000231459.1	-5.503657849	-2.68607201	1.30x10-03	3.60x10-02	0.11	0	0	0	Down	LINC00032
ENSG00000139352.3	-5.477187691	-2.699546383	1.30x10-03	3.60x10-02	0	0.12	0	0	Down	ASCL1
ENSG00000115461.4	-5.486769395	-2.694658405	1.30x10-03	3.60x10-02	0.02	0.03	0	0	Down	IGFBP5
ENSG00000258713.2	-5.496401077	-2.689756962	1.30x10-03	3.60x10-02	0.32	0.1	0	0	Down	C20orf141
ENSG00000103723.12	-2.192458955	-1.735883818	1.26x10-03	3.60x10-02	0.03	0.06	0	0.02	Down	AP3B2
ENSG00000268182.5	-5.599072311	-2.626102974	1.30x10-03	3.60x10-02	0	0.29	0	0	Down	SMIM17
ENSG00000204767.3	-5.493988452	-2.690983588	1.30x10-03	3.60x10-02	0.07	0.03	0	0	Down	FAM196B
ENSG00000167208.14	-5.477187691	-2.699546383	1.30x10-03	3.60x10-02	0	0.05	0	0	Down	SNX20
ENSG00000260588.1	-3.519021583	-2.410947828	1.46x10-03	3.90x10-02	0.21	0.03	0	0.02	Down	RP11-930P14.2
ENSG00000243709.1	5.497529699	-2.691050297	1.30x10-03	3.60x10-02	0	0	0	0.19	Up	LEFTY1
ENSG00000070915.9	-5.477187691	-2.699546383	1.30x10-03	3.60x10-02	0	0.05	0	0	Down	SLC12A3
ENSG00000172348.14	-5.477187691	-2.699546383	1.30x10-03	3.60x10-02	0	0.08	0	0	Down	RCAN2
ENSG00000227001.3	-1.64325187	-1.183299877	1.90x10-03	4.86x10-02	0.83	0.67	0	0.46	Down	NBPF2P
ENSG00000155754.14	-5.484369297	-2.69588166	1.30x10-03	3.60x10-02	0.01	0.03	0	0	Down	ALS2CR11

ENSG00000213928.8	-5.481972318	-2.697104074	1.30x10-03	3.60x10-02	0.03	0.12	0	0	Down	IRF9
ENSG00000132915.10	-3.512584816	-2.414832442	1.46x10-03	3.90x10-02	0.05	0.02	0	0	Down	PDE6A
ENSG00000000938.12	-2.558806254	-2.034962804	1.57x10-03	4.14x10-02	0.08	0.09	0	0.03	Down	FGR
ENSG00000164076.16	-2.149845509	-1.765851815	1.94x10-03	4.94x10-02	0.14	0.06	0	0.04	Down	CAMKV

FDR, false discovery rate; FC, fold change; CPM, counts per million; SRSF6, serine and arginine-rich splicing factor 6; Ctrl, control.

Table SIV. GO_enrichment.

A, Upregulated DEGs

GO term	ID	Input number	Backgroun d number	P-value	Corrected P-value	DEGs
Proteolysis	GO:0006508	5	211	0.000411019	0.002139656	CORIN MMP7 PROC HGFAC TMPRSS11D
Blood coagulation	GO:00070596	7	469	0.000460043	0.002139656	ADORA2A ZFPM2 SLC7A7 GP1BB GNA15 PRKG1 PROC
Transport	GO:00060810	6	349	0.000583543	0.002139656	SLC25A53 SLC7A7 TCTE3 MFSD2B CHRNE TRPV2
Negative regulation of transcription from RNA polymerase II promoter	GO:00000122	7	565	0.00137581	0.003783477	SOX18 ANKRD1 ZFPM2 SOX17 LEFTY1 S100A1 VAX2
Multicellular organismal development	GO:000707275	6	474	0.002798905	0.006157591	TMEM88 MICALCL LENEP ENC1 MEOX1 FGF1
Positive regulation of transcription from RNA polymerase II promoter	GO:00045944	7	749	0.00660278	0.012105097	SOX18 ANKRD1 ZFPM2 PAX8 SOX17 MEOX1 FGF1

Negative regulation of transcription, DNA-dependent	GO:0045892	5	464	0.0123 69938	0.0194384 74	ZFPM2 PRICKLE1 PRDM6 SOX18 RASD1
Signal transduction	GO:007165	7	1045	0.0351 5506	0.0483382 08	CSF2RB RASD1 REM2 OMP PRKG1 CHRNE FGF1
Transcription, DNA-dependent	GO:006351	8	1857	0.1885 93213	0.2147961 4	VAX2 RFX6 ZNF888 ZFP2 HOXA6 PRDM6 ZNF296 PAX8
Regulation of transcription, DNA- dependent	GO:006355	6	1305	0.1952 69218	0.2147961 4	ADORA2A ZNF888 ZFP2 SOX17 IRX4 ZNF296
Small molecule metabolic process	GO:0044281	5	1413	0.4223 11676	0.4223116 76	CYP21A2 CYP3A4 ANKRD1 HPGD PYGM

B, Downregulated DEGs

GO term	ID	Input number	Backgroun d number	P-value	Corrected P-value	DEGs
Extracellular matrix organization	GO:0030198	12	312	1.89E- 06	5.11E-05	ITGAX CTSK COL25A1 COL5A2 ITGA10 COL28A1 COL3A1 FBLN2 COL6A3 FGG A2M C6orf15
Potassium ion transmembrane transport	GO:0071805	5	56	4.45E- 05	0.0006005 58	KCNJ2 KCNMB3 CNGA3 KCNH1 KCNIP2

Axon guidance	GO:00	10	334	0.0001 0.0009160 DPYSL4 TRPC3 COL5A2 TENM2 ITGA10 RND1 COL3A1 COL6A3 DRAXIN
	07411			1867 18 ARTN
Extracellular matrix disassembly	GO:00	6	112	0.0001 0.0009160
	22617			CTSK COL25A1 COL5A2 COL3A1 COL6A3 A2M 35706 18
Collagen catabolic process	GO:00	5	74	0.0001 0.0009167
	30574			COL5A2 COL3A1 COL6A3 CTSK COL25A1 69764 23
Potassium ion transport	GO:00	5	82	0.0002 0.0011086
	06813			KCNQ4 KCNJ2 KCNMB3 KCNH1 KCNIP2 75077 86
Cell adhesion	GO:00	11	445	0.0002 0.0011086 SSPN ITGAX CDHR2 CD34 ITGA10 COL28A1 LSAMP NPHS1 COL6A3 LAM
	07155			87437 86 B4 LGALS4
Platelet activation	GO:00	6	204	0.0031 0.0106029
	30168			ADRA2A LCK TRPC3 COL3A1 FGG A2M 4161 34
Regulation of small GTPase mediated signal transduction	GO:00	5	160	0.0053 0.0151588
	51056			RGL1 TIAM1 ARHGAP4 A2M RASGEF1B 80351 13
Blood coagulation	GO:00	9	469	0.0057 0.0151588
	07596			ITGAX KCNMB3 ADRA2A FGR LCK TRPC3 ITGA10 FGG A2M 03763 13

Signal transduction	GO:0007165	15	1045	0.0061 0.0151588	CD38 NRG2 CLIC2 NFAM1 PAG1 CD34 ADRA2A TENM2 LGALS9 CNGA3 IGFBP5 ARHGAP4 FGG KCNIP2 ARTN
Small GTPase mediated signal transduction	GO:0007264	7	348	0.0112 0.0254200	RASGEF1B TIAM1 RGL1 RND1 SH2D3C ARHGAP4 A2M
Cytokine-mediated signaling pathway	GO:0019221	5	229	0.0226 0.0469521	PTPRN IFI27 IFNLR1 IRF9 UBA7
Nerve growth factor receptor signaling pathway	GO:0048011	5	273	0.0432 0.0829771	ARHGAP4 TIAM1 FGF5 NRG2 LCK
Nervous system development	GO:0007399	5	278	0.0460 0.0829771	DPF3 FGF5 DPYSL4 LSAMP ATOH8
Intracellular signal transduction	GO:0035556	6	379	0.0506 0.0854256	PAG1 PLCD1 NFAM1 ZAP70 IGFBP5 RP1L1
Synaptic transmission	GO:0007268	6	389	0.0560 0.0890721	KCNJ2 KCNMB3 KCNH1 KCNQ4 PCDHB14 KCNIP2
G-protein coupled receptor signaling pathway	GO:0007186	5	317	0.0724 0.1086415	TAS2R14 CCR10 GPR35 GPR20 ADRA2A

Innate immune response	GO:0045087	9	754	0.0827 0.1175613	CTSK APOBEC3H FGR UBA7 CD14 CORO1A FGF5 NRG2 LCK
			28347	36	
Transmembrane transport	GO:0055085	7	578	0.1118 0.1495804	SLC25A41 SLC36A2 TRPC3 SLC16A10 SLC12A3 ATP2C2 CP
			05419	19	
Multicellular organismal development	GO:0007275	6	474	0.1163 0.1495804	HOXD8 IGSF10 CATSPER3 TBC1D32 EBF4 ANGPTL2
			40326	19	
Negative regulation of cell proliferation	GO:0008285	5	378	0.1269 0.1558155	ATP8A2 IFNLR1 DHRS2 NOX4 RARRES1
			60811	41	
Cell differentiation	GO:0030154	5	395	0.1448 0.1700040	ATOH7 MURC CATSPER3 IGSF10 ATOH8
			18292	82	
Transcription, DNA-dependent	GO:0006351	17	1857	0.1516 0.1705598	DPF3 MURC HOXD8 ZNF737 ZNF442 CREB3L3 ALX3 TET1 ASCL1 ZNF467
			08756	5	ATOH7 TENM2 EBF4 ZNF850 KLF17 ZNF773 ATOH8
Small molecule metabolic process	GO:0044281	12	1413	0.2870 0.3100572	TREH PCK1 RGL1 ALOX5 PLCD1 ADRA2A B3GNT7 PLCH1 BCKDHA MTM
			90068	74	R7 PDK4 CYP26C1
Positive regulation of transcription from RNA polymerase II promoter	GO:0045944	6	749	0.4303 0.4468500	MURC KLF15 TET1 LMO1 ASCL1 LDB2
			0008	83	

Regulation of transcription, DNA-	GO:00		0.5725	0.5725601	
dependent	06355	9	1305	60159	59
					DPF3 ZNF737 ZNF442 ZNF467 ATOH7 EBF4 ZNF850 ZNF773 ATOH8

GO, Gene Ontology; DEG, differentially expressed gene.

Table SV. Kyoto Encyclopedia of Genes and Genomes enrichment.

A, Upregulated DEGs						
Term	ID	Input Background num number ber	P-value	Corrected P-value	DEGs	
Wnt signaling pathway	hsa04310	4	141	0.004405501	0.343629098	APC2 PRICKLE1 SOX17 MMP7
Circadian entrainment	hsa04713	3	97	0.011012878	0.429502223	PRKG1 GNGT2 RASD1
Steroid hormone biosynthesis	hsa00140	2	56	0.02944592	0.511808332	CYP21A2 CYP3A4
Neuroactive ligand-receptor interaction	hsa04080	4	275	0.041522329	0.511808332	ADORA2A HRH4 CHRNA10 CHRNE
ECM-receptor interaction	hsa04512	2	87	0.06526399	0.511808332	SV2A GP1BB
Phenylalanine metabolism	hsa00360	1	18	0.083337441	0.511808332	AOC3
Chagas disease (American trypanosomiasis)	hsa05142	2	105	0.090350355	0.511808332	GNA15 IL12A
Amoebiasis	hsa05146	2	109	0.096266528	0.511808332	GNA15 IL12A
Vascular smooth muscle contraction	hsa04270	2	121	0.114652624	0.511808332	ADORA2A PRKG1
beta-Alanine metabolism	hsa00410	1	29	0.130910298	0.511808332	AOC3

Thyroid cancer	hsa05216	1	29	0.130910298	0.511808332 PAX8
Linoleic acid metabolism	hsa00591	1	33	0.147609277	0.511808332 CYP3A4
African trypanosomiasis	hsa05143	1	34	0.151735204	0.511808332 IL12A
Glycine, serine and threonine metabolism	hsa00260	1	37	0.163997235	0.511808332 AOC3
Allograft rejection	hsa05330	1	38	0.168046288	0.511808332 IL12A
Tyrosine metabolism	hsa00350	1	39	0.172076339	0.511808332 AOC3
Hippo signaling pathway	hsa04390	2	156	0.172527322	0.511808332 APC2 FGF1
Jak-STAT signaling pathway	hsa04630	2	157	0.17425122	0.511808332 CSF2RB IL12A
Type I diabetes mellitus	hsa04940	1	44	0.191944588	0.511808332 IL12A
Pathways in cancer	hsa05200	3	327	0.207032998	0.511808332 APC2 PAX8 FGF1
Malaria	hsa05144	1	49	0.211350597	0.511808332 IL12A
Transcriptional misregulation in cancer	hsa05202	2	179	0.212830332	0.511808332 HPGD PAX8
Alcoholism	hsa05034	2	180	0.214608037	0.511808332 ADORA2A GNGT2
Drug metabolism - other enzymes	hsa00983	1	51	0.218985914	0.511808332 CYP3A4
Calcium signaling pathway	hsa04020	2	183	0.219950739	0.511808332 ADORA2A GNA15
Endometrial cancer	hsa05213	1	52	0.22277667	0.511808332 APC2
Herpes simplex infection	hsa05168	2	185	0.223519991	0.511808332 SRSF6 IL12A

Basal cell carcinoma	hsa05217	1	55	0.2340423	0.511808332 APC2
Legionellosis	hsa05134	1	55	0.2340423	0.511808332 IL12A
Starch and sucrose metabolism	hsa00500	1	56	0.237762234	0.511808332 PYGM
Long-term depression	hsa04730	1	60	0.252467724	0.511808332 PRKG1
Colorectal cancer	hsa05210	1	62	0.259717028	0.511808332 APC2
Synaptic vesicle cycle	hsa04721	1	63	0.263316095	0.511808332 SYT1
Inflammatory bowel disease (IBD)	hsa05321	1	66	0.274011882	0.511808332 IL12A
Regulation of actin cytoskeleton	hsa04810	2	215	0.277492533	0.511808332 APC2 FGF1
Retinol metabolism	hsa00830	1	68	0.281058665	0.511808332 CYP3A4
Complement and coagulation cascades	hsa04610	1	69	0.284557163	0.511808332 PROC
RIG-I-like receptor signaling pathway	hsa04622	1	71	0.29150475	0.511808332 IL12A
Melanoma	hsa05218	1	71	0.29150475	0.511808332 FGF1
Bile secretion	hsa04976	1	72	0.294953989	0.511808332 CYP3A4
Thyroid hormone synthesis	hsa04918	1	72	0.294953989	0.511808332 PAX8
Adherens junction	hsa04520	1	73	0.298386958	0.511808332 PVRL4
Leishmaniasis	hsa05140	1	73	0.298386958	0.511808332 IL12A
Drug metabolism - cytochrome P450	hsa00982	1	74	0.301803731	0.511808332 CYP3A4

Pertussis	hsa05133	1	75	0.305204383	0.511808332 IL12A
Metabolism of xenobiotics by cytochrome P450	hsa00980	1	80	0.321968379	0.511808332 CYP3A4
TGF-beta signaling pathway	hsa04350	1	80	0.321968379	0.511808332 LEFTY1
Chemical carcinogenesis	hsa05204	1	83	0.331837979	0.511808332 CYP3A4
Hematopoietic cell lineage	hsa04640	1	88	0.347978833	0.511808332 GP1BB
Apoptosis	hsa04210	1	88	0.347978833	0.511808332 CSF2RB
Protein digestion and absorption	hsa04974	1	88	0.347978833	0.511808332 SLC7A7
Gap junction	hsa04540	1	89	0.351161364	0.511808332 PRKG1
Salivary secretion	hsa04970	1	90	0.354328845	0.511808332 PRKG1
GABAergic synapse	hsa04727	1	90	0.354328845	0.511808332 GNGT2
Morphine addiction	hsa05032	1	93	0.36374167	0.513576281 GNGT2
Cytokine-cytokine receptor interaction	hsa04060	2	266	0.368721433	0.513576281 CSF2RB IL12A
Retrograde endocannabinoid signaling	hsa04723	1	103	0.3941674	0.539386968 GNGT2
Toll-like receptor signaling pathway	hsa04620	1	107	0.405938825	0.544686327 IL12A
MicroRNAs in cancer	hsa05206	2	296	0.420624043	0.544686327 APC2 ZFPM2
Cholinergic synapse	hsa04725	1	113	0.423181527	0.544686327 GNGT2

Serotonergic synapse	hsa04726	1	114	0.42600777	0.544686327 GNGT2
Glutamatergic synapse	hsa04724	1	118	0.437179185	0.544686327 GNGT2
Toxoplasmosis	hsa05145	1	119	0.439938956	0.544686327 IL12A
Dopaminergic synapse	hsa04728	1	131	0.472050561	0.558567798 GNGT2
Spliceosome	hsa03040	1	131	0.472050561	0.558567798 SRSF6
Measles	hsa05162	1	134	0.479795416	0.558567798 IL12A
Osteoclast differentiation	hsa04380	1	134	0.479795416	0.558567798 LILRA6
Natural killer cell mediated cytotoxicity	hsa04650	1	137	0.487430157	0.559111062 RAET1L
Insulin signaling pathway	hsa04910	1	142	0.499914133	0.559773699 PYGM
PI3K-Akt signaling pathway	hsa04151	2	346	0.502361012	0.559773699 GNGT2 FGF1
Influenza A	hsa05164	1	176	0.577324244	0.634243536 IL12A
Tuberculosis	hsa05152	1	180	0.585628926	0.634431337 IL12A
Chemokine signaling pathway	hsa04062	1	189	0.603740599	0.645092695 GNGT2
Proteoglycans in cancer	hsa05205	1	225	0.668817073	0.704969348 FGF1
MAPK signaling pathway	hsa04010	1	260	0.722093031	0.746772652 FGF1
HTLV-I infection	hsa05166	1	264	0.727624635	0.746772652 APC2
Metabolic pathways	hsa01100	4	1182	0.84638341	0.857375403 CYP21A2 CYP3A4 AOC3 PYGM

Olfactory transduction	hsa04740	1	406	0.867691784	0.867691784	PRKG1
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B, Downregulated DEGs

Term	ID	Input		P-value	Corrected P-value	DEGs		
		t	Background					
							num	number
ECM-receptor interaction	hsa04512	6	87	0.000262403	0.028601937	COL5A2 ITGA10 COL3A1 COL6A3 SV2B LAMB4		
PI3K-Akt signaling pathway	hsa04151	10	346	0.002804546	0.152847772	COL6A3 PCK1 GH1 COL5A2 CREB3L3 ITGA10 COL3A1 FGF5 LAMB4 PIK3AP1		
Protein digestion and absorption	hsa04974	4	88	0.012918829	0.469384113	COL5A2 COL3A1 COL6A3 SLC16A10		
Focal adhesion	hsa04510	6	207	0.019990048	0.476471663	COL5A2 ITGA10 MYL2 COL3A1 COL6A3 LAMB4		
Regulation of actin cytoskeleton	hsa04810	6	215	0.023599401	0.476471663	ITGAX ITGA10 TIAM1 CD14 MYL2 FGF5		
Amoebiasis	hsa05146	4	109	0.026227798	0.476471663	COL5A2 COL3A1 CD14 LAMB4		
Mucin type O-Glycan biosynthesis	hsa00512	2	31	0.040731164	0.634242405	GALNT13 GALNT18		
Primary immunodeficiency	hsa05340	2	36	0.05339581	0.636209186	ZAP70 LCK		
Hematopoietic cell lineage	hsa04640	3	88	0.062993607	0.636209186	CD38 CD14 CD34		
Viral carcinogenesis	hsa05203	5	207	0.063136043	0.636209186	HIST1H2BM IRF9 HIST4H4 CREB3L3 HIST1H4D		

Pyruvate metabolism	hsa00620	2	41	0.067255978	0.636209186	LDHD PCK1
NF-kappa B signaling pathway	hsa04064	3	92	0.070041378	0.636209186	CD14 ZAP70 LCK
Ovarian steroidogenesis	hsa04913	2	51	0.097972263	0.79337064	ALOX5 GDF9
Taste transduction	hsa04742	2	53	0.104521506	0.79337064	TAS2R14 TAS2R19
Cholinergic synapse	hsa04725	3	113	0.112363523	0.79337064	CREB3L3 KCNQ4 KCNJ2
Alcoholism	hsa05034	4	180	0.116458076	0.79337064	HIST1H2BM HIST4H4 CREB3L3 HIST1H4D
Glycosaminoglycan biosynthesis - keratan sulfate	hsa00533	1	15	0.145091042	0.811007159	B3GNT7
Retinol metabolism	hsa00830	2	68	0.15687071	0.811007159	RDH16 CYP26C1
Complement and coagulation cascades	hsa04610	2	69	0.160523135	0.811007159	FGG A2M
Osteoclast differentiation	hsa04380	3	134	0.162175464	0.811007159	IRF9 CTSK LCK
Systemic lupus erythematosus	hsa05322	3	135	0.164698567	0.811007159	HIST1H2BM HIST4H4 HIST1H4D
Proximal tubule bicarbonate reclamation	hsa04964	1	23	0.213774507	0.811007159	PCK1
Hypertrophic cardiomyopathy (HCM)	hsa05410	2	84	0.216847651	0.811007159	ITGA10 MYL2
Jak-STAT signaling pathway	hsa04630	3	157	0.222836184	0.811007159	IRF9 IFNLR1 GH1
Insulin secretion	hsa04911	2	87	0.228352485	0.811007159	CREB3L3 KCNMB3

Glycosphingolipid biosynthesis - lacto and neolacto series	hsa00601	1	26	0.238103548	0.811007159	B3GALT1
Salivary secretion	hsa04970	2	90	0.239902001	0.811007159	CD38 MUC5B
Dilated cardiomyopathy	hsa05414	2	91	0.24375942	0.811007159	ITGA10 MYL2
Nicotinate and nicotinamide metabolism	hsa00760	1	28	0.253909148	0.811007159	CD38
Histidine metabolism	hsa00340	1	28	0.253909148	0.811007159	CARNS1
Phototransduction	hsa04744	1	29	0.261690326	0.811007159	PDE6A
beta-Alanine metabolism	hsa00410	1	29	0.261690326	0.811007159	CARNS1
Citrate cycle (TCA cycle)	hsa00020	1	30	0.269391515	0.811007159	PCK1
Tuberculosis	hsa05152	3	180	0.287281238	0.811007159	ITGAX CD14 CORO1A
T cell receptor signaling pathway	hsa04660	2	106	0.301731328	0.811007159	ZAP70 LCK
Toll-like receptor signaling pathway	hsa04620	2	107	0.305584925	0.811007159	CD14 CTSK
Chemokine signaling pathway	hsa04062	3	189	0.313000214	0.811007159	TIAM1 CCR10 FGR
Fructose and mannose metabolism	hsa00051	1	36	0.313963719	0.811007159	MTMR7
Neuroactive ligand-receptor interaction	hsa04080	4	275	0.319590397	0.811007159	GRID1 GPR35 ADRA2A GH1
Glycine, serine and threonine metabolism	hsa00260	1	37	0.321127233	0.811007159	SARDH
Toxoplasmosis	hsa05145	2	119	0.351462031	0.811007159	ALOX5 LAMB4

Porphyrin and chlorophyll metabolism	hsa00860	1	43	0.36258595	0.811007159	CP
Lysosome	hsa04142	2	122	0.362789989	0.811007159	CTSK AP3B2
Type I diabetes mellitus	hsa04940	1	44	0.369248815	0.811007159	PTPRN
Valine, leucine and isoleucine degradation	hsa00280	1	44	0.369248815	0.811007159	BCKDHA
Vasopressin-regulated water reabsorption	hsa04962	1	45	0.375843032	0.811007159	CREB3L3
Intestinal immune network for IgA production	hsa04672	1	48	0.395220731	0.811007159	CCR10
Tight junction	hsa04530	2	134	0.407330697	0.811007159	MYH8 MYL2
Cocaine addiction	hsa05030	1	50	0.407808553	0.811007159	CREB3L3
Natural killer cell mediated cytotoxicity	hsa04650	2	137	0.418244508	0.811007159	ZAP70 LCK
Pathogenic Escherichia coli infection	hsa05130	1	55	0.438159517	0.811007159	CD14
Legionellosis	hsa05134	1	55	0.438159517	0.811007159	CD14
Cell adhesion molecules (CAMs)	hsa04514	2	143	0.43977218	0.811007159	VTCN1 CD34
Staphylococcus aureus infection	hsa05150	1	56	0.44404311	0.811007159	FGG
Starch and sucrose metabolism	hsa00500	1	56	0.44404311	0.811007159	TREH
Arginine and proline metabolism	hsa00330	1	57	0.449865973	0.811007159	CARNS1

Inositol phosphate metabolism	hsa00562	1	61	0.472562397	0.811007159	PLCD1
Phagosome	hsa04145	2	154	0.478110136	0.811007159	CD14 CORO1A
Glycolysis / Gluconeogenesis	hsa00010	1	66	0.499638837	0.811007159	PCK1
Arachidonic acid metabolism	hsa00590	1	68	0.510081659	0.811007159	ALOX5
Amphetamine addiction	hsa05031	1	70	0.520309627	0.811007159	CREB3L3
PPAR signaling pathway	hsa03320	1	71	0.525344406	0.811007159	PCK1
Viral myocarditis	hsa05416	1	71	0.525344406	0.811007159	MYH8
Adipocytokine signaling pathway	hsa04920	1	71	0.525344406	0.811007159	PCK1
Melanoma	hsa05218	1	71	0.525344406	0.811007159	FGF5
Cytokine-cytokine receptor interaction	hsa04060	3	266	0.526241845	0.811007159	IFNLR1 CCR10 GH1
Thyroid hormone synthesis	hsa04918	1	72	0.530327098	0.811007159	CREB3L3
B cell receptor signaling pathway	hsa04662	1	74	0.540138342	0.811007159	PIK3AP1
Drug metabolism - cytochrome P450	hsa00982	1	74	0.540138342	0.811007159	FMO5
Pertussis	hsa05133	1	75	0.544967939	0.811007159	CD14
Arrhythmogenic right ventricular cardiomyopathy (ARVC)	hsa05412	1	75	0.544967939	0.811007159	ITGA10
Gastric acid secretion	hsa04971	1	75	0.544967939	0.811007159	KCNJ2

Cardiac muscle contraction	hsa04260	1	77	0.554477661	0.811007159	MYL2
Metabolism of xenobiotics by cytochrome P450	hsa00980	1	80	0.568376134	0.811007159	AKR7A3
Calcium signaling pathway	hsa04020	2	183	0.571283755	0.811007159	CD38 PLCD1
Huntington's disease	hsa05016	2	183	0.571283755	0.811007159	CREB3L3 DNAH1
Phosphatidylinositol signaling system	hsa04070	1	81	0.572913314	0.811007159	PLCD1
Small cell lung cancer	hsa05222	1	86	0.594903586	0.81309888	LAMB4
Salmonella infection	hsa05132	1	87	0.599165808	0.81309888	CD14
ErbB signaling pathway	hsa04012	1	88	0.603383828	0.81309888	NRG2
Prostate cancer	hsa05215	1	89	0.607558098	0.81309888	CREB3L3
Rheumatoid arthritis	hsa05323	1	90	0.611689066	0.81309888	CTSK
Epstein-Barr virus infection	hsa05169	2	202	0.625644753	0.821629856	CD38 FGR
Pancreatic secretion	hsa04972	1	96	0.63558999	0.824753677	CD38
Estrogen signaling pathway	hsa04915	1	100	0.650712298	0.829407858	CREB3L3
Melanogenesis	hsa04916	1	101	0.65439519	0.829407858	CREB3L3
Proteoglycans in cancer	hsa05205	2	225	0.684268762	0.835767463	TIAM1 FGF5
TNF signaling pathway	hsa04668	1	110	0.685865048	0.835767463	CREB3L3

Serotonergic synapse	hsa04726	1	114	0.698928533	0.835767463	ALOX5
Metabolic pathways	hsa01100	11	1182	0.704697639	0.835767463	CD38 TREH PCK1 GALNT13 ALOX5 PLCD1 GALNT18 RDH16 SARDH BCKDHA B3GALT1
Leukocyte transendothelial migration	hsa04670	1	118	0.711456314	0.835767463	MYL2
Neurotrophin signaling pathway	hsa04722	1	120	0.717526118	0.835767463	NTRK3
Vascular smooth muscle contraction	hsa04270	1	121	0.720513656	0.835767463	KCNMB3
Axon guidance	hsa04360	1	129	0.743319246	0.835767463	RND1
Parkinson's disease	hsa05012	1	131	0.74872785	0.835767463	UBA7
Dopaminergic synapse	hsa04728	1	131	0.74872785	0.835767463	CREB3L3
Hepatitis C	hsa05160	1	133	0.754024106	0.835767463	IRF9
Measles	hsa05162	1	134	0.756630823	0.835767463	IRF9
MAPK signaling pathway	hsa04010	2	260	0.759091549	0.835767463	FGF5 CD14
Ubiquitin mediated proteolysis	hsa04120	1	138	0.766788197	0.835799135	UBA7
Insulin signaling pathway	hsa04910	1	142	0.776527528	0.838034659	PCK1
Hepatitis B	hsa05161	1	147	0.788139596	0.842227608	CREB3L3
Purine metabolism	hsa00230	1	169	0.832555956	0.876976044	PDE6A
Influenza A	hsa05164	1	176	0.844659516	0.876976044	IRF9

Transcriptional misregulation in cancer	hsa05202	1	179	0.849578894	0.876976044	CD14
Herpes simplex infection	hsa05168	1	185	0.858961572	0.876976044	IRF9
Pathways in cancer	hsa05200	2	327	0.860884741	0.876976044	FGF5 LAMB4
HTLV-I infection	hsa05166	1	264	0.939939019	0.948642159	LCK
Olfactory transduction	hsa04740	1	406	0.987398148	0.987398148	CNGA3

DEG, differentially expressed gene; hsa, *Homo sapiens*.

Table SVI. Summary of RNA-seq reads used in AS analysis.

Sample	Ctrl_1st	Ctrl_2nd	SRSF6_1st	SRSF6_2nd	Total
KAS	12819	13071	13578	13852	19404
All AS	37492	36636	39574	40214	81399
Proportion of KAS (%)	34.19	35.68	34.31	34.45	23.84
Detected_exon	213768	213172	215925	214374	240773
AnnotatedExon	367321	367321	367321	367321	367321
Ratio (%)	58.20	58.03	58.78	58.36	65.55
NAS	24673	23565	25996	26362	61995
All AS	37492	36636	39574	40214	81399
Proportion of NAS (%)	65.81	64.32	65.69	65.55	76.16
All_Junction	200907	199202	213797	219556	326115
Novel_Junction	59714	57352	71257	77410	167859
Known_Junction	141193	141850	142540	142146	158256

AS, alternative splicing; KAS, known AS; NAS, novel AS; Ctrl, control.

Table SVII. Classification of AS events detected from all samples in cells.

A, All AS events													
Sample	3pMXE	5pMXE	A3SS	A3SS&ES	A5SS	A5SS&ES	ES	IntronR	MXE	cassetteExon	Total	Detected junction	AS/100SJ
Ctrl_1st	1037	2443	7283	821	8777	1040	4495	8522	546	2528	37492	200907	18.66
Ctrl_2nd	1040	2424	7194	815	8932	1032	4169	7955	520	2555	36636	199202	18.39
SRSF6_1st	1111	2549	7705	884	9876	1108	4408	8592	574	2767	39574	213797	18.51
SRSF6_2nd	1053	2573	8200	920	10070	1099	4778	8045	605	2871	40214	219556	18.32
Total	2461	5485	16857	2013	20314	2389	8571	17014	1269	5026	81399	326115	24.96
B, Known AS events													
Sample	3pMXE	5pMXE	A3SS	A3SS&ES	A5SS	A5SS&ES	ES	IntronR	MXE	cassetteExon	Total	Detected junction	AS/100SJ
Ctrl_1st	302	584	2815	311	3211	408	2231	1115	273	1569	12819	141193	9.08
Ctrl_2nd	312	567	2881	327	3319	439	2207	1152	276	1591	13071	141850	9.21
SRSF6_1st	315	616	2940	336	3523	430	2323	1156	287	1652	13578	142540	9.53
SRSF6_2nd	329	618	3022	335	3566	442	2417	1160	280	1683	13852	142146	9.74
Total	479	879	4248	474	5065	620	3192	1626	479	2342	19404	158256	12.26
C, Novel AS events													
Sample	3pMXE	5pMXE	A3SS	A3SS&ES	A5SS	A5SS&ES	ES	IntronR	MXE	cassetteExon	Total	Detected junction	AS/100SJ

Ctrl_1st	735	1859	4468	510	5566	632	2264	7407	273	959	24673	59714	41.32
Ctrl_2nd	728	1857	4313	488	5613	593	1962	6803	244	964	23565	57352	41.09
SRSF6_1st	796	1933	4765	548	6353	678	2085	7436	287	1115	25996	71257	36.48
SRSF6_2nd	724	1955	5178	585	6504	657	2361	6885	325	1188	26362	77410	34.06
Total	1982	4606	12609	1539	15249	1769	5379	15388	790	2684	61995	167859	36.93

AS, alternative splicing; Ctrl, control; SRSF6, serine and arginine-rich splicing factor 6; 3pMXE, alternative last exon; 5pMXE, alternative first exon; A3SS, alternative 3' splice site; A5SS, alternative 5' splice site; cassetteExon, exon included; ES, exon skipping; IntronR, intron retention.

Table SVIII. Classification of all regulated alternative splicing events in cells (SRSF6 vs. Ctrl).

Type	Up	Down	Total
3pMXE	5	8	13
5pMXE	9	9	18
A3SS	56	35	91
A3SS&ES	6	6	12
A5SS	65	44	109
A5SS&ES	4	7	11
ES	50	42	92
IntronR	127	88	215
MXE	10	14	24
cassetteExon	48	28	76
Total	380	281	661

AS, alternative splicing; Ctrl, control; SRSF6, serine and arginine-rich splicing factor 6; 3pMXE, alternative last exon; 5pMXE, alternative first exon; A3SS, alternative 3' splice site; A5SS, alternative 5' splice site; cassetteExon, exon included; ES, exon skipping; IntronR, intron retention.

Table SIX. Kyoto Encyclopedia of Genes and Genomes enrichment for regulated alternative splicing.

Term	ID	Input number	Background number	P-value	Corrected P-value	DEGs
Selenocompound metabolism	hsa00450	5	17	3.84E-05	0.006755628	TXNRD2 CCBL2 CCBL1 TXNRD3 TXNRD1
Pyrimidine metabolism	hsa00240	10	105	0.000210342	0.018510104	POLR3E NME6 NT5C3A POLR2F CANT1 POLR2J TXNRD2 TXNRD3 POLR3H TXNRD1
Fanconi anemia pathway	hsa03460	6	54	0.001820906	0.106826488	BRCA2 SLX1A PALB2 FANCD2 TELO2 TOP3A
Purine metabolism	hsa00230	11	169	0.002561804	0.112719389	NME6 NT5C3A NPR2 POLR3E GUK1 POLR3H CANT1 POLR2F POLR2J PFAS PKM
RNA polymerase	hsa03020	4	32	0.007039211	0.239023652	POLR3E POLR3H POLR2F POLR2J
Endometrial cancer	hsa05213	5	52	0.008148534	0.239023652	APC2 EGFR ILK TCF7L2 CASP9
Metabolic pathways	hsa01100	40	1182	0.014216957	0.345064116	GALT ACADVL NDUFB6 NDUFB5 FLAD1 SMPD4 ALOX12 PGS1 POLR3H CDIPT NT5C3A SYNJ1 PHOSPHO2 SYNJ2 FDF

						T1 AMT COX6C ASL DNMT3B IDH1 PCYT2 POLR2F UAP1L1 HMGCR PIP5KL1 SHMT1 POLR2J NME6 PLD2 PIP5K1C CEPT1 CSAD GLB1 ACSL5 PFAS GUK1 PKM CCBL1 PPCS CCBL2
Inositol phosphate metabolism	hsa00562	5	61	0.015684733	0.345064116	PIP5K1C SYNJ2 SYNJ1 PIP5KL1 CDIPT
Endocytosis	hsa04144	10	203	0.025265785	0.494086464	ARAP3 PLD2 PIP5K1C EGFR ACAP1 SH3GLB2 AGAP3 SNF8 FGFR4 PIP5KL1
Viral myocarditis	hsa05416	5	71	0.028347012	0.49890741	MYH10 EIF4G1 DAG1 CASP8 CASP9
Circadian rhythm	hsa04710	3	31	0.038232752	0.611724031	PER2 FBXW11 NPAS2
Base excision repair	hsa03410	3	33	0.044819465	0.657352151	TDG NEIL1 PARP3
Ubiquitin mediated proteolysis	hsa04120	7	138	0.049829678	0.67461718	FBXW11 UBE2J2 TCEB1 UBE2D1 CUL4A RHOBTB1 FBXW7
Apoptosis	hsa04210	5	88	0.061785028	0.711327649	PRKAR2A MAP3K14 PRKAR1A CASP8 CASP9
Colorectal cancer	hsa05210	4	62	0.062742223	0.711327649	APC2 MSH2 TCF7L2 CASP9

Cytosolic DNA-sensing pathway	hsa04623	4	63	0.065786875	0.711327649	ADAR POLR3E POLR3H POLR2F
Glycerophospholipid metabolism	hsa00564	5	91	0.069314493	0.711327649	PGS1 PCYT2 CEPT1 PLD2 CDIPT
Huntington's disease	hsa05016	8	183	0.075961764	0.711327649	NDUFB6 NDUFB5 CASP8 CASP9 POLR2F HIP1 COX6C POLR2J
Regulation of actin cytoskeleton	hsa04810	9	215	0.076791053	0.711327649	MYH10 FGD1 PIP5K1C ARHGEF7 EGFR PXN APC2 FGFR4 PAK1
One carbon pool by folate	hsa00670	2	20	0.083415843	0.734059423	AMT SHMT1
Biosynthesis of amino acids	hsa01230	4	72	0.096522786	0.767462898	IDH1 ASL SHMT1 PKM
Spliceosome	hsa03040	6	131	0.097931351	0.767462898	SNRPD2 NCBP2 U2AF1 PRPF40B USP39 TRA2B
Adherens junction	hsa04520	4	73	0.100293447	0.767462898	EGFR PTPRB CTNND1 TCF7L2
Dorso-ventral axis formation	hsa04320	2	24	0.113905754	0.835308862	EGFR SPIRE2

Phosphatidylinositol signaling system	hsa04070	4	81	0.132800709	0.867564279	PIP5K1C SYNJ2 SYNJ1 CDIPT
Vitamin B6 metabolism	hsa00750	1	6	0.136914096	0.867564279	PHOSPHO2
Nitrogen metabolism	hsa00910	2	27	0.138341442	0.867564279	CA5B AMT
Hypertrophic cardiomyopathy (HCM)	hsa05410	4	84	0.145986245	0.867564279	EMD DAG1 TPM2 TTN
Homologous recombination	hsa03440	2	28	0.146724435	0.867564279	BRCA2 TOP3A
Legionellosis	hsa05134	3	55	0.147880275	0.867564279	BCL2L13 CASP8 CASP9

DEG, differentially expressed gene; hsa, *Homo sapiens*.

Table SX. Summary of RNA-sequencing reads used in alternative splicing analysis of clinical cancer samples. Samples were divided into two groups (low and high) according to the expression level of SRSF6.

A, Low SRSF6

Sample	Total reads	Total mapped	Total mapped/total reads (%)	Total uniquely mapped	Total uniquely mapped/total mapped (%)	Splice reads	Splice reads/total uniquely mapped (%)	RPKM of SRSF6
TCGA-EK- A2IR-01A	193053782	181400875	93.96	121906873	67.20	15691629	12.87	9.61
TCGA-VS- A9UY-01A	109346226	107778351	98.57	80016920	74.24	11162096	13.95	10.45
TCGA-VS- A94Y-01A	89619306	87139495	97.23	65334819	74.98	8744991	13.38	10.9
TCGA-EX- A8YF-01A	132449126	124485712	93.99	83940129	67.43	12660681	15.08	11.05

TCGA-DG-A2KJ-01A	70557280	66343320	94.03	44323071	66.81	3866203	8.72	11.12
TCGA-C5-A0TN-01A	116784232	110611190	94.71	75901453	68.62	10461685	13.78	11.14
TCGA-ZJ-A8QQ-01A	133976616	126182599	94.18	82218122	65.16	12192820	14.83	11.28
TCGA-EA-A43B-01A	94731752	92159096	97.28	61179420	66.38	7231415	11.82	13.87

B, High SRSF6

Sample	Total reads	Total mapped	Total mapped/total reads (%)	Total uniquely mapped	Total uniquely mapped/total mapped (%)	Splice reads	Splice reads/total uniquely mapped (%)	RPKM of SRSF6
TCGA-ZJ-AAX4-01A	82930894	81431201	98.19	59225238	72.73	8269530	13.96	18.68
TCGA-C5-A1BJ-01A	269369564	253698543	94.18	187193424	73.79	26917789	14.38	20.55

TCGA-DS- A1OC-01A	119425746	115622951	96.82	84342533	72.95	12120844	14.37	21.42
TCGA-VS- A8EC-01A	121247134	117983101	97.31	79900621	67.72	10917604	13.66	22.93
TCGA-FU- A57G-01A	121822452	117947567	96.82	87884675	74.51	12075666	13.74	24.42
TCGA-Q1- A6DW-01A	130034222	127550292	98.09	93369872	73.20	13962801	14.95	25.56
TCGA-EA- A1QT-01A	220978146	214442736	97.04	155491343	72.51	22143869	14.24	27.69
TCGA-C5- A1M6-01A	124340630	109837333	88.34	80591142	73.37	11080371	13.75	28.46

SRSF6, serine and arginine-rich splicing factor 6; TCGA, The Cancer Genome Atlas.

Table SXI Classification of AS events detected from all clinical cancer samples.

A, All AS events													
Sample	3pMXE	5pMXE	A3SS	A3SS&ES	A5SS	A5SS&ES	ES	IntronR	MXE	cassetteExon	Total	Detected junction	AS/100SJ
TCGA-C5-A0TN-01A	627	1095	5634	632	5808	744	3665	5239	535	2169	26148	182315	14.34
TCGA-C5-A1BJ-01A	965	2150	8234	916	9746	1151	5125	7099	940	3419	39745	237777	16.72
TCGA-C5-A1M6-01A	685	1456	6527	700	7037	853	4196	6483	680	2629	31246	201022	15.54
TCGA-DG-A2KJ-01A	312	219	2093	214	1373	201	988	2643	139	472	8654	68002	12.73
TCGA-DS-A1OC-01A	787	1552	6907	806	8038	947	4646	6072	777	2880	33412	213384	15.66
TCGA-EA-A1QT-01A	984	2051	8158	912	9173	1071	4761	5950	884	3246	37190	227410	16.35
TCGA-EA-A43B-01A	485	684	4011	475	3905	522	2606	4382	359	1557	18986	149468	12.7
TCGA-EK-A2IR-01A	738	1356	7061	780	7292	899	4242	5969	717	2689	31743	203011	15.64
TCGA-EX-A8YF-01A	789	1622	6531	802	7610	924	4395	6630	790	2720	32813	205027	16
TCGA-FU-A57G-01A	722	1355	6240	712	6904	825	4049	5322	685	2499	29313	197822	14.82
TCGA-Q1-A6DW-01A	725	1570	6499	767	7389	926	4579	6043	799	2767	32064	207197	15.48
TCGA-VS-A8EC-01A	709	1357	6408	687	6922	849	4133	6039	668	2478	30250	195624	15.46
TCGA-VS-A94Y-01A	498	1037	4965	568	5580	694	3463	5538	534	2149	25026	179161	13.97
TCGA-VS-A9UY-01A	668	1336	5840	696	6718	841	4020	5655	662	2515	28951	190344	15.21

TCGA-ZJ-A8QQ-01A	602	1289	5850	661	6674	817	3774	5693	632	2395	28387	188247	15.08
TCGA-ZJ-AAX4-01A	604	1167	5581	678	6128	768	3833	6312	585	2348	28004	189930	14.74
Total	2482	5017	19273	2064	21177	2250	8561	19405	1450	5409	87088	450729	19.32

B, Known AS events

Sample	3pMXE	5pMXE	A3SS	A3SS&ES	A5SS	A5SS&ES	ES	IntronR	MXE	cassetteExon	Total	Detected junction	AS/100SJ
TCGA-C5-A0TN-01A	627	1095	5634	632	5808	744	3665	5239	535	2169	26148	182315	14.34
TCGA-C5-A1BJ-01A	965	2150	8234	916	9746	1151	5125	7099	940	3419	39745	237777	16.72
TCGA-C5-A1M6-01A	685	1456	6527	700	7037	853	4196	6483	680	2629	31246	201022	15.54
TCGA-DG-A2KJ-01A	312	219	2093	214	1373	201	988	2643	139	472	8654	68002	12.73
TCGA-DS-A1OC-01A	787	1552	6907	806	8038	947	4646	6072	777	2880	33412	213384	15.66
TCGA-EA-A1QT-01A	984	2051	8158	912	9173	1071	4761	5950	884	3246	37190	227410	16.35
TCGA-EA-A43B-01A	485	684	4011	475	3905	522	2606	4382	359	1557	18986	149468	12.7
TCGA-EK-A2IR-01A	738	1356	7061	780	7292	899	4242	5969	717	2689	31743	203011	15.64
TCGA-EX-A8YF-01A	789	1622	6531	802	7610	924	4395	6630	790	2720	32813	205027	16
TCGA-FU-A57G-01A	722	1355	6240	712	6904	825	4049	5322	685	2499	29313	197822	14.82
TCGA-Q1-A6DW-01A	725	1570	6499	767	7389	926	4579	6043	799	2767	32064	207197	15.48
TCGA-VS-A8EC-01A	709	1357	6408	687	6922	849	4133	6039	668	2478	30250	195624	15.46

TCGA-VS-A94Y-01A	498	1037	4965	568	5580	694	3463	5538	534	2149	25026	179161	13.97
TCGA-VS-A9UY-01A	668	1336	5840	696	6718	841	4020	5655	662	2515	28951	190344	15.21
TCGA-ZJ-A8QQ-01A	602	1289	5850	661	6674	817	3774	5693	632	2395	28387	188247	15.08
TCGA-ZJ-AAX4-01A	604	1167	5581	678	6128	768	3833	6312	585	2348	28004	189930	14.74
Total	2482	5017	19273	2064	21177	2250	8561	19405	1450	5409	87088	450729	19.32

C, Novel AS events

Sample	3pMXE	5pMXE	A3SS	A3SS&ES	A5SS	A5SS&ES	ES	IntronR	MXE	cassetteExon	Total	Detected junction	AS/100SJ
TCGA-C5-A0TN-01A	194	388	1664	140	1574	138	519	4266	26	166	9075	26637	34.07
TCGA-C5-A1BJ-01A	310	898	2196	203	2786	249	753	5980	64	352	13791	53391	25.83
TCGA-C5-A1M6-01A	181	515	1722	122	1859	153	530	5428	34	242	10786	30149	35.78
TCGA-DG-A2KJ-01A	152	77	1059	64	441	53	226	2234	7	11	4324	8495	50.9
TCGA-DS-A1OC-01A	265	590	1866	188	2266	202	832	5058	58	299	11624	39830	29.18
TCGA-EA-A1QT-01A	380	920	2635	255	2895	264	821	4903	80	413	13566	56357	24.07
TCGA-EA-A43B-01A	174	189	1197	79	1023	88	325	3573	16	127	6791	19818	34.27
TCGA-EK-A2IR-01A	218	510	2230	205	2005	159	641	4974	57	276	11275	39652	28.43
TCGA-EX-A8YF-01A	245	619	1570	159	2064	197	635	5608	47	238	11382	31971	35.6
TCGA-FU-A57G-01A	226	467	1594	129	1862	150	512	4313	36	233	9522	27240	34.96

TCGA-Q1-A6DW-01A	233	628	1539	161	1929	197	764	5055	70	250	10826	36630	29.56
TCGA-VS-A8EC-01A	213	503	1870	155	1955	168	645	5052	44	233	10838	32343	33.51
TCGA-VS-A94Y-01A	124	353	1237	90	1474	124	419	4583	36	201	8641	22227	38.88
TCGA-VS-A9UY-01A	204	515	1431	146	1772	179	537	4667	35	227	9713	29412	33.02
TCGA-ZJ-A8QQ-01A	169	454	1490	114	1803	136	443	4703	39	202	9553	27520	34.71
TCGA-ZJ-AAX4-01A	171	404	1384	129	1551	135	500	5288	25	217	9804	26345	37.21
Total	1561	3189	11434	1171	11588	1114	3351	17496	289	1430	52623	231554	22.73

AS, alternative splicing; 3pMXE, alternative last exon; 5pMXE, alternative first exon; A3SS, alternative 3' splice site; A5SS, alternative 5' splice site; cassetteExon, exon included; ES, exon skipping; IntronR, intron retention; TCGA, The Cancer Genome Atlas.

Table SXII. Classification of all RASE in clinical cancer samples.

Sample/type	3pMXE	5pMXE	A3SS	A3SS&ES	A5SS	A5SS&ES	ES	IntronR	MXE	cassetteExon	Total RASE
High vs. low SRSF6											
Up-regulated RASEs	37	59	213	17	280	40	167	456	33	107	1409
Down-regulated RASEs	17	36	181	12	204	15	70	191	15	75	816
Total RASE	54	95	394	29	484	55	237	647	48	182	2225

RASE, regulated alternative splicing event; SRSF6, serine and arginine-rich splicing factor 6; 3pMXE, alternative last exon; 5pMXE, alternative first exon; A3SS, alternative 3' splice site; A5SS, alternative 5' splice site; cassetteExon, exon included; ES, exon skipping; IntronR, intron retention.