

TABLE 1
PIP Signature

Gene name	PIP (day 5 versus 1)		PIP (day 7 versus 1)		PIP (day 9 versus 1)		PIP (day 11 versus 1)	
	p-value	FC	p-value	FC	p-value	FC	p-value	FC
DLX5	1.48E-19	17.52	1.37E-21	37.64	9.61E-22	40.21	3.14E-21	32.45
HAPLN1	2.37E-11	2.52	2.89E-20	14.87	3.61E-21	20.06	3.02E-21	20.62
SULF1	3.23E-05	-1.36	1.77E-12	2.43	1.12E-21	14.15	1.94E-23	25.80
ERP27	3.09E-12	2.41	2.42E-22	18.69	1.77E-23	28.22	1.70E-23	28.40
FOXC1	4.48E-09	1.95	1.04E-20	16.10	3.51E-22	27.03	4.41E-22	26.04
TFAP2A	1.94E-17	9.14	8.73E-19	13.36	5.42E-19	14.23	3.01E-20	21.66
TFAP2A	1.94E-17	9.14	8.73E-19	13.36	5.42E-19	14.23	3.01E-20	21.66
TFAP2A	1.94E-17	9.14	8.73E-19	13.36	5.42E-19	14.23	3.01E-20	21.66
TFAP2A	1.94E-17	9.14	8.73E-19	13.36	5.42E-19	14.23	3.01E-20	21.66
GAS1	3.91E-26	14.44	1.05E-28	36.33	4.83E-30	66.10	8.78E-31	96.03
FLRT3	2.05E-21	8.74	1.57E-19	5.70	3.93E-23	14.10	3.74E-23	14.19
CGA	0.0014057	1.61	1.70E-07	2.74	1.17E-13	9.77	1.18E-15	18.18
ISL1	0.375112	1.05	1.93E-14	3.13	4.39E-21	12.22	5.04E-20	9.13
ISL1	0.375112	1.05	1.93E-14	3.13	4.39E-21	12.22	5.04E-20	9.13
ISL1	0.375112	1.05	1.93E-14	3.13	4.39E-21	12.22	5.04E-20	9.13
ISL1	0.375112	1.05	1.93E-14	3.13	4.39E-21	12.22	5.04E-20	9.13
CDH6	1.10E-17	4.10	1.36E-16	3.45	3.70E-19	5.35	1.20E-16	3.48
CTNNA2	6.32E-15	3.10	7.71E-19	6.06	7.61E-19	6.06	4.22E-22	13.94
OTX1	0.0004423	1.58	8.60E-13	5.62	3.76E-14	7.68	6.79E-16	12.35
OTX1	0.0004423	1.58	8.60E-13	5.62	3.76E-14	7.68	6.79E-16	12.35
ALDH1A1	0.014164	-1.27	0.246741	-1.11	1.64E-09	2.49	6.16E-17	9.95
EMP1	0.0097998	1.16	3.45E-13	2.36	5.84E-23	15.32	1.21E-22	13.89
SMPDL3A	0.138292	-1.09	5.25E-07	1.49	7.37E-19	6.14	3.05E-20	8.44
SMPDL3A	0.138292	-1.09	5.25E-07	1.49	7.37E-19	6.14	3.05E-20	8.44
FREM2	6.81E-10	1.80	5.11E-18	4.90	1.57E-18	5.40	1.01E-21	11.56
FREM2	6.81E-10	1.80	5.11E-18	4.90	1.57E-18	5.40	1.01E-21	11.56
PROS1	3.51E-15	2.95	8.01E-21	8.18	1.09E-20	7.92	4.80E-22	11.27
PROS1	3.51E-15	2.95	8.01E-21	8.18	1.09E-20	7.92	4.80E-22	11.27
PROS1	3.51E-15	2.95	8.01E-21	8.18	1.09E-20	7.92	4.80E-22	11.27
EMX2	0.769588	1.03	5.21E-07	2.26	4.55E-10	3.54	9.09E-14	7.51
LGI1	9.04E-10	2.67	1.12E-12	4.17	3.96E-16	8.74	1.24E-16	9.98
LGI1	9.04E-10	2.67	1.12E-12	4.17	3.96E-16	8.74	1.24E-16	9.98
LGI1	9.04E-10	2.67	1.12E-12	4.17	3.96E-16	8.74	1.24E-16	9.98
DKK1	4.04E-13	5.92	5.40E-16	12.40	2.36E-13	6.24	2.30E-14	7.93
RIMBP2	0.0002822	1.40	1.06E-11	2.88	2.67E-14	4.30	1.11E-17	8.87
GREM1	0.182109	-1.10	0.0002755	1.37	5.24E-09	1.99	5.42E-06	1.54
ZFH3	0.309331	-1.08	7.22E-06	1.58	6.33E-10	2.32	4.75E-15	4.95
ZFH3	0.309331	-1.08	7.22E-06	1.58	6.33E-10	2.32	4.75E-15	4.95
HS.554261	0.0025325	1.23	2.38E-16	4.21	1.32E-16	4.40	6.05E-20	8.97
HS.554261	0.0025325	1.23	2.38E-16	4.21	1.32E-16	4.40	6.05E-20	8.97
HS.554261	0.0025325	1.23	2.38E-16	4.21	1.32E-16	4.40	6.05E-20	8.97
MEIS2	7.98E-12	1.73	2.94E-20	4.52	4.44E-23	8.12	4.35E-24	10.52
SIX6	2.36E-07	1.80	1.29E-13	3.85	8.89E-19	12.14	9.95E-18	9.09
DDIT4L	1.40E-12	2.35	1.70E-15	3.37	4.27E-21	10.48	3.55E-19	6.54
ANKRD1	5.08E-10	2.12	1.58E-12	2.81	1.46E-13	3.23	4.66E-12	2.65
ABCA4	0.272396	1.10	3.96E-10	2.63	7.15E-15	5.75	6.78E-16	7.22
ANKRD38	0.203389	-1.12	0.050505	1.20	2.15E-10	2.74	1.62E-15	6.69
EPSTI1	0.510918	1.05	3.34E-11	2.67	5.78E-17	7.25	4.41E-16	5.96
FAM89A	3.38E-06	1.38	2.71E-18	4.69	7.76E-20	6.37	1.65E-19	5.94

TABLE 1
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POU4F1	0.705476	1.03	9.39E-11	2.36	1.97E-15	4.61	3.56E-17	6.55
POU4F1	0.705476	1.03	9.39E-11	2.36	1.97E-15	4.61	3.56E-17	6.55
POU4F1	0.705476	1.03	9.39E-11	2.36	1.97E-15	4.61	3.56E-17	6.55
DLX3	5.55E-14	3.56	2.67E-17	6.61	6.24E-18	7.65	7.57E-18	7.50
CCL2	1.10E-08	1.91	1.91E-08	1.87	6.02E-10	2.16	5.02E-17	6.32
HEY1	6.73E-05	-1.49	0.0001507	-1.45	2.71E-12	3.26	1.47E-10	2.58
HS6ST2	1.13E-14	4.67	8.87E-17	7.26	4.85E-18	9.98	1.95E-17	8.52
GPR177	8.17E-05	1.35	6.73E-15	3.49	7.67E-18	5.90	4.08E-17	5.10
TFPI	1.78E-15	2.91	4.95E-18	4.25	2.36E-20	6.68	1.65E-21	8.78
TFAP2B	0.277658	1.11	1.73E-05	1.66	1.60E-10	2.95	1.05E-13	5.02
TFAP2B	0.277658	1.11	1.73E-05	1.66	1.60E-10	2.95	1.05E-13	5.02
TFAP2B	0.277658	1.11	1.73E-05	1.66	1.60E-10	2.95	1.05E-13	5.02
SYTL4	0.000849	1.39	1.14E-09	2.42	4.38E-15	5.72	2.77E-14	4.87
SYTL4	0.000849	1.39	1.14E-09	2.42	4.38E-15	5.72	2.77E-14	4.87
SYTL4	0.000849	1.39	1.14E-09	2.42	4.38E-15	5.72	2.77E-14	4.87
MAP1LC3C	0.101703	1.17	0.116941	1.17	6.11E-09	2.46	1.29E-16	10.54
MAP1LC3C	0.101703	1.17	0.116941	1.17	6.11E-09	2.46	1.29E-16	10.54
INS-IGF2	0.0539006	1.21	2.13E-05	1.68	1.22E-10	3.10	4.06E-14	5.74
INS-IGF2	0.0539006	1.21	2.13E-05	1.68	1.22E-10	3.10	4.06E-14	5.74
SEMA3C	0.0012582	-1.23	0.654666	1.03	7.79E-12	2.15	7.65E-18	4.87
SEMA3C	0.0012582	-1.23	0.654666	1.03	7.79E-12	2.15	7.65E-18	4.87
HES4	1.29E-13	3.06	1.42E-16	4.93	9.51E-19	7.85	2.61E-21	16.09
ANGPT2	0.253243	1.10	1.34E-06	1.69	6.17E-17	7.52	1.19E-14	4.65
BOC	9.31E-17	4.89	2.64E-19	8.52	4.99E-21	13.73	5.82E-22	18.54
BCMO1	0.0050528	1.41	0.092121	1.21	4.15E-05	1.76	3.13E-12	4.97
GRP	0.0629202	1.16	2.04E-06	1.65	1.64E-08	1.99	1.80E-14	4.38
TNC	1.53E-05	1.56	2.84E-15	5.37	8.47E-18	9.66	8.93E-14	4.07
TNC	1.53E-05	1.56	2.84E-15	5.37	8.47E-18	9.66	8.93E-14	4.07
CHX10	0.284734	-1.06	1.58E-10	1.92	4.66E-13	2.46	3.21E-16	3.74
ARID5B	2.09E-07	-1.57	0.567962	-1.03	6.82E-10	1.90	6.89E-13	2.55
EYA1	1.53E-07	1.40	3.42E-19	4.30	1.39E-22	8.72	2.12E-20	5.37
TTC29	1.26E-10	-2.12	1.05E-07	-1.65	7.14E-06	-1.45	1.04E-10	2.14
HS.126022	0.481657	1.04	1.42E-15	3.61	3.28E-16	4.00	1.14E-16	4.32
ADAM28	0.807751	1.02	1.43E-09	2.26	9.37E-12	2.95	1.57E-13	3.85
LEF1	1.38E-12	3.65	6.99E-15	5.56	5.39E-17	9.08	3.87E-17	9.43
LOC650494	0.667898	1.02	9.34E-11	1.84	2.41E-20	6.91	2.14E-16	3.37
LOC650494	0.667898	1.02	9.34E-11	1.84	2.41E-20	6.91	2.14E-16	3.37
EDNRA	1.35E-07	1.91	4.50E-11	2.84	2.23E-13	4.02	4.25E-16	6.90
CPE	0.0070449	1.29	0.0005128	1.42	5.81E-14	4.65	7.94E-15	5.51
SHISA2	2.04E-22	19.08	1.89E-23	27.77	1.51E-22	19.96	1.98E-21	13.87
EVI1	0.133617	1.11	4.19E-12	2.66	4.57E-18	7.42	2.27E-14	3.64
SLITRK4	2.96E-06	1.35	3.62E-16	3.10	1.25E-17	3.83	1.32E-20	6.71
SLITRK4	2.96E-06	1.35	3.62E-16	3.10	1.25E-17	3.83	1.32E-20	6.71
IFI16	1.86E-07	1.73	4.31E-10	2.22	4.62E-16	5.31	2.71E-16	5.56
HS.105791	2.07E-07	1.49	2.14E-09	1.70	1.86E-13	2.43	7.77E-17	3.79
GATA3	1.34E-05	1.55	3.71E-12	3.07	1.69E-13	3.76	4.79E-14	4.13
HS.386897	0.0399299	-1.16	0.0358315	1.16	1.06E-08	1.87	7.14E-13	2.94
GOLSYN	0.0229891	-1.19	0.0071094	1.24	9.48E-14	3.63	1.70E-12	3.02
PDGFC	5.04E-08	-1.55	0.042315	-1.12	1.69E-08	1.60	3.36E-16	3.48
PDGFC	5.04E-08	-1.55	0.042315	-1.12	1.69E-08	1.60	3.36E-16	3.48
PDGFC	5.04E-08	-1.55	0.042315	-1.12	1.69E-08	1.60	3.36E-16	3.48

TABLE 1
PIP Signature

YPEL2	5.26E-13	2.50	1.17E-15	3.55	6.78E-17	4.33	1.27E-19	7.55
YPEL2	5.26E-13	2.50	1.17E-15	3.55	6.78E-17	4.33	1.27E-19	7.55
SOSTDC1	0.0698706	-1.15	2.05E-08	1.92	8.32E-11	2.47	5.28E-12	2.86
LOC644907	5.90E-05	-1.64	0.0044174	-1.37	0.0975492	1.18	2.78E-05	1.69
SGPP2	0.0395979	1.08	3.39E-14	1.90	1.55E-19	3.36	5.19E-20	3.60
SGPP2	0.0395979	1.08	3.39E-14	1.90	1.55E-19	3.36	5.19E-20	3.60
SGPP2	0.0395979	1.08	3.39E-14	1.90	1.55E-19	3.36	5.19E-20	3.60
PRDM1	6.89E-12	2.22	4.38E-15	3.27	4.30E-16	3.80	5.77E-15	3.21
PRDM1	6.89E-12	2.22	4.38E-15	3.27	4.30E-16	3.80	5.77E-15	3.21
PRDM1	6.89E-12	2.22	4.38E-15	3.27	4.30E-16	3.80	5.77E-15	3.21
PRDM1	6.89E-12	2.22	4.38E-15	3.27	4.30E-16	3.80	5.77E-15	3.21
LOC653158	1.29E-10	2.05	4.92E-14	3.01	4.00E-14	3.04	3.58E-15	3.54
PAQR9	0.35491	1.04	2.49E-14	2.33	8.19E-19	4.22	5.62E-17	3.19
PAQR9	0.35491	1.04	2.49E-14	2.33	8.19E-19	4.22	5.62E-17	3.19
PAQR9	0.35491	1.04	2.49E-14	2.33	8.19E-19	4.22	5.62E-17	3.19
CRIP1	8.39E-07	1.73	0.0024073	1.31	9.63E-14	4.05	3.07E-13	3.73
RAB25	1.56E-06	1.60	1.03E-13	3.44	3.47E-11	2.46	9.11E-12	2.64
RAB25	1.56E-06	1.60	1.03E-13	3.44	3.47E-11	2.46	9.11E-12	2.64
RAB25	1.56E-06	1.60	1.03E-13	3.44	3.47E-11	2.46	9.11E-12	2.64
COLEC12	0.577043	1.03	3.39E-05	1.36	2.34E-16	4.12	8.12E-18	5.38
GANAB	0.0013703	1.92	0.0139224	1.60	2.68E-05	2.59	0.0011712	1.94
EFNA1	3.84E-08	1.71	8.97E-13	2.68	5.82E-17	5.12	1.15E-18	7.36
RHOBTB3	4.94E-09	1.87	1.67E-10	2.15	1.69E-15	4.14	1.70E-16	4.96
RHOBTB3	4.94E-09	1.87	1.67E-10	2.15	1.69E-15	4.14	1.70E-16	4.96
RHOBTB3	4.94E-09	1.87	1.67E-10	2.15	1.69E-15	4.14	1.70E-16	4.96
HLA-DRB5	3.16E-07	1.61	2.27E-14	3.37	4.52E-07	1.59	2.12E-15	3.96
SLIT2	0.0015481	-1.27	0.552702	-1.04	1.46E-09	1.97	2.89E-12	2.61
SLIT2	0.0015481	-1.27	0.552702	-1.04	1.46E-09	1.97	2.89E-12	2.61
KCNJ2	8.39E-07	-1.55	0.783342	-1.02	3.80E-13	2.82	1.00E-10	2.15
KCNJ2	8.39E-07	-1.55	0.783342	-1.02	3.80E-13	2.82	1.00E-10	2.15
PRKD1	1.01E-10	2.13	3.17E-14	3.23	6.88E-15	3.57	3.14E-15	3.76
ID4	2.06E-16	4.05	2.11E-14	3.00	1.40E-16	4.17	9.32E-15	3.15
SERTAD2	7.64E-13	2.28	2.88E-16	3.48	3.30E-16	3.45	5.42E-17	3.89
LOC643911	6.31E-06	1.36	7.30E-11	1.87	1.25E-14	2.72	1.25E-15	3.08
SERPINF1	1.31E-09	2.01	1.12E-13	3.23	3.54E-15	4.08	9.07E-17	5.47
EPAS1	5.13E-12	-2.08	0.892225	1.01	6.78E-12	2.05	7.55E-14	2.50
PTHR1	5.96E-07	1.70	7.62E-05	1.44	5.50E-08	1.86	5.54E-14	3.88
TMPRSS4	0.62233	1.04	0.0585409	1.17	2.27E-05	1.53	1.39E-12	3.29
TMPRSS4	0.62233	1.04	0.0585409	1.17	2.27E-05	1.53	1.39E-12	3.29
SLC27A2	0.0001181	-1.30	0.0002252	-1.28	3.69E-09	1.72	3.46E-11	2.03
SLC27A2	0.0001181	-1.30	0.0002252	-1.28	3.69E-09	1.72	3.46E-11	2.03
C5ORF30	0.157979	1.11	0.0074514	1.23	1.74E-06	1.60	3.54E-10	2.23
HS.125056	0.95557	1.00	5.72E-08	1.93	1.20E-10	2.58	7.12E-14	4.14
TP73L	0.295769	1.08	0.0086582	1.22	1.56E-07	1.72	2.58E-13	3.22
TP73L	0.295769	1.08	0.0086582	1.22	1.56E-07	1.72	2.58E-13	3.22
VTCN1	0.225954	1.13	0.0020123	1.40	1.57E-12	4.34	5.24E-12	3.95
VTCN1	0.225954	1.13	0.0020123	1.40	1.57E-12	4.34	5.24E-12	3.95
LOC646345	0.0071221	1.17	1.76E-11	2.06	3.18E-19	6.25	1.64E-15	3.26
PLA2G4A	0.437395	1.05	8.43E-10	1.96	8.77E-12	2.38	6.98E-14	3.08
PLA2G4A	0.437395	1.05	8.43E-10	1.96	8.77E-12	2.38	6.98E-14	3.08
PLA2G4A	0.437395	1.05	8.43E-10	1.96	8.77E-12	2.38	6.98E-14	3.08

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MORC4	2.44E-13	-1.71	0.0130386	-1.09	3.82E-08	1.31	1.24E-15	2.03
DCUN1D4	9.11E-05	1.40	1.10E-05	1.49	5.60E-10	2.14	0.0001677	1.37
C4ORF32	4.56E-05	-1.48	0.435511	-1.06	3.44E-07	1.76	3.61E-10	2.37
ZNF608	3.70E-09	2.21	1.22E-10	2.62	2.75E-10	2.51	2.32E-12	3.32
HS.475733	0.0333151	1.12	6.96E-14	2.52	2.88E-14	2.64	3.23E-16	3.41
HS.475733	0.0333151	1.12	6.96E-14	2.52	2.88E-14	2.64	3.23E-16	3.41
HS.475733	0.0333151	1.12	6.96E-14	2.52	2.88E-14	2.64	3.23E-16	3.41
DDIT3	0.0402448	-1.15	0.0205624	1.17	9.49E-08	1.66	2.15E-12	2.58
HAND1	3.76E-13	2.98	1.23E-11	2.47	9.34E-19	8.42	2.79E-14	3.50
ID1	2.46E-11	1.67	0.322841	1.04	1.97E-12	1.80	9.30E-08	1.37
ID1	2.46E-11	1.67	0.322841	1.04	1.97E-12	1.80	9.30E-08	1.37
HS.552826	2.05E-08	2.04	5.50E-12	3.14	3.98E-12	3.20	2.45E-12	3.30
HS.552826	2.05E-08	2.04	5.50E-12	3.14	3.98E-12	3.20	2.45E-12	3.30
HS.552826	2.05E-08	2.04	5.50E-12	3.14	3.98E-12	3.20	2.45E-12	3.30
RIN2	6.57E-13	1.91	8.98E-18	3.20	1.64E-16	2.73	1.17E-19	4.27
RELN	0.173868	1.15	4.04E-06	1.86	2.24E-08	2.41	1.41E-09	2.82
RELN	0.173868	1.15	4.04E-06	1.86	2.24E-08	2.41	1.41E-09	2.82
RELN	0.173868	1.15	4.04E-06	1.86	2.24E-08	2.41	1.41E-09	2.82
LMX1A	3.49E-12	2.08	1.82E-16	3.43	1.76E-16	3.44	7.46E-15	2.77
LMX1A	3.49E-12	2.08	1.82E-16	3.43	1.76E-16	3.44	7.46E-15	2.77
LMX1A	3.49E-12	2.08	1.82E-16	3.43	1.76E-16	3.44	7.46E-15	2.77
MSX2	9.91E-10	1.95	3.63E-12	2.50	2.09E-16	4.64	8.44E-13	2.70
MSX2	9.91E-10	1.95	3.63E-12	2.50	2.09E-16	4.64	8.44E-13	2.70
MSX2	9.91E-10	1.95	3.63E-12	2.50	2.09E-16	4.64	8.44E-13	2.70
MSX2	9.91E-10	1.95	3.63E-12	2.50	2.09E-16	4.64	8.44E-13	2.70
ID2	1.05E-18	13.28	1.58E-17	9.51	7.17E-19	13.98	1.02E-18	13.34
PLCE1	2.05E-05	1.34	1.25E-14	2.86	8.39E-13	2.32	1.04E-14	2.89
PLCE1	2.05E-05	1.34	1.25E-14	2.86	8.39E-13	2.32	1.04E-14	2.89
MXRA5	1.16E-11	2.19	1.03E-13	2.75	7.27E-13	2.49	6.70E-14	2.81
CTSO	2.36E-07	1.66	1.61E-11	2.45	3.88E-13	3.00	1.09E-15	4.46
EHBP1	2.82E-09	1.39	2.80E-16	2.20	2.13E-11	1.54	3.13E-20	3.52
GDF6	0.24405	1.08	0.0001646	1.34	4.10E-13	2.81	1.01E-12	2.68
KLHL14	2.19E-05	1.43	0.033917	1.16	4.35E-13	2.90	5.90E-17	5.46
KLHL14	2.19E-05	1.43	0.033917	1.16	4.35E-13	2.90	5.90E-17	5.46
HS.489857	1.45E-05	1.47	5.84E-05	1.41	1.27E-12	2.89	3.53E-08	1.80
HS.489857	1.45E-05	1.47	5.84E-05	1.41	1.27E-12	2.89	3.53E-08	1.80
HS.489857	1.45E-05	1.47	5.84E-05	1.41	1.27E-12	2.89	3.53E-08	1.80
HS.347034	0.875468	-1.01	0.0007688	1.33	4.62E-07	1.69	7.19E-12	2.77
BMP4	1.85E-09	2.33	5.43E-10	2.48	3.41E-11	2.89	2.09E-14	4.87
FAM110B	0.366625	1.07	6.45E-05	1.42	1.52E-09	2.06	4.07E-09	1.98
MUC15	0.906718	1.01	0.0003478	1.38	1.22E-06	1.68	1.18E-10	2.50
MUC15	0.906718	1.01	0.0003478	1.38	1.22E-06	1.68	1.18E-10	2.50
MAFB	1.48E-09	1.90	2.42E-17	5.42	3.76E-21	14.01	6.60E-16	4.16
MAFB	1.48E-09	1.90	2.42E-17	5.42	3.76E-21	14.01	6.60E-16	4.16
MAFB	1.48E-09	1.90	2.42E-17	5.42	3.76E-21	14.01	6.60E-16	4.16
ERMP1	2.46E-13	2.16	1.55E-13	2.20	1.10E-11	1.87	2.18E-17	3.50
HMGCS2	0.0023913	1.18	0.191345	1.07	1.49E-08	1.55	5.10E-13	2.18
PTPN13	5.47E-12	2.45	3.47E-14	3.24	1.27E-14	3.46	3.98E-14	3.22
VEGFC	0.0010888	1.28	3.28E-07	1.61	4.35E-05	1.40	2.15E-12	2.63
VWF	2.35E-21	28.36	5.55E-21	24.60	6.67E-19	12.33	4.81E-16	6.01
RSPO3	5.18E-08	1.64	9.28E-12	2.26	6.47E-11	2.08	5.51E-13	2.59

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HMCN1	0.130995	1.13	2.49E-05	1.53	0.0006145	1.38	1.10E-08	2.07
HS.22689	0.847171	1.01	3.39E-06	1.52	1.19E-05	1.46	4.23E-10	2.09
HS.22689	0.847171	1.01	3.39E-06	1.52	1.19E-05	1.46	4.23E-10	2.09
HS.22689	0.847171	1.01	3.39E-06	1.52	1.19E-05	1.46	4.23E-10	2.09
HS.479288	0.651825	1.03	0.138426	1.11	4.42E-10	2.14	5.65E-12	2.64
HS.479288	0.651825	1.03	0.138426	1.11	4.42E-10	2.14	5.65E-12	2.64
MSX1	2.99E-09	1.96	5.33E-12	2.61	2.10E-18	7.99	2.54E-16	5.08
TRIM38	1.99E-10	1.79	5.32E-16	3.17	1.79E-13	2.34	3.09E-16	3.28
TRIM38	1.99E-10	1.79	5.32E-16	3.17	1.79E-13	2.34	3.09E-16	3.28
TRIM38	1.99E-10	1.79	5.32E-16	3.17	1.79E-13	2.34	3.09E-16	3.28
ZNF679	0.042372	1.34	0.0059148	1.52	0.181695	1.21	0.0133358	1.44
AMDHD1	0.0102586	1.25	0.0011915	1.34	6.51E-09	2.12	9.25E-11	2.61
SIX1	0.812051	1.02	0.0014207	1.32	8.37E-09	2.03	9.95E-10	2.23
SIX1	0.812051	1.02	0.0014207	1.32	8.37E-09	2.03	9.95E-10	2.23
SFRS11	0.0056062	1.22	0.180095	1.09	0.307706	1.07	0.0007983	1.29
SMAD6	1.21E-17	3.75	2.45E-15	2.73	1.44E-11	1.88	6.32E-14	2.33
HS.93739	0.0185553	1.16	0.0002416	1.30	1.34E-05	1.41	2.22E-12	2.45
EPHB3	1.77E-06	1.47	1.30E-10	2.00	1.09E-11	2.22	3.89E-12	2.33
ELF5	0.0033855	1.12	3.59E-09	1.42	8.68E-13	1.74	8.59E-17	2.46
CEBPA	1.33E-10	1.78	1.35E-12	2.11	5.53E-13	2.18	2.02E-12	2.07
FILIP1	5.50E-17	6.39	1.63E-12	2.95	1.03E-10	2.36	1.27E-16	5.91
RBP1	8.52E-12	2.08	1.50E-09	1.73	1.96E-17	4.28	2.37E-18	5.06
MMRN1	0.394573	1.05	0.832584	-1.01	0.829126	1.01	3.88E-11	2.00
RARB	0.0988544	1.06	5.56E-15	2.12	2.03E-15	2.21	1.26E-16	2.50
RARB	0.0988544	1.06	5.56E-15	2.12	2.03E-15	2.21	1.26E-16	2.50
RARB	0.0988544	1.06	5.56E-15	2.12	2.03E-15	2.21	1.26E-16	2.50
EPS8	3.18E-06	1.62	1.24E-09	2.23	7.15E-12	2.92	7.66E-12	2.91
KHDRBS3	0.0007248	1.18	8.19E-09	1.49	7.93E-10	1.58	5.46E-10	1.59
HS.560401	0.817508	1.02	0.205667	1.12	0.0001557	1.48	3.28E-09	2.33
OPN3	1.15E-06	1.48	1.87E-05	1.37	0.0006478	1.26	1.15E-11	2.19
CLIC6	2.90E-14	3.34	2.96E-13	2.90	1.79E-18	7.31	9.65E-19	7.79
LOC730746	0.0012699	1.39	0.0004725	1.45	0.0279244	1.23	7.44E-05	1.55
PDE4D	1.06E-10	-2.68	3.53E-08	-2.01	0.401291	1.07	0.0568332	-1.18
PDE4D	1.06E-10	-2.68	3.53E-08	-2.01	0.401291	1.07	0.0568332	-1.18
ZNF750	0.0035794	1.20	9.59E-12	2.14	2.15E-16	3.81	2.70E-14	2.83
ZNF750	0.0035794	1.20	9.59E-12	2.14	2.15E-16	3.81	2.70E-14	2.83
ZNF750	0.0035794	1.20	9.59E-12	2.14	2.15E-16	3.81	2.70E-14	2.83
HS.19193	0.0011208	1.30	5.95E-09	1.94	0.0317447	1.17	2.36E-10	2.23
C1ORF53	0.0079459	-1.16	0.0001888	1.26	2.58E-16	3.43	1.18E-10	1.85
BMP2	0.235558	-1.09	8.77E-12	2.74	1.77E-12	3.00	1.54E-10	2.36
VGLL1	0.33368	-1.08	0.992732	-1.00	0.0207844	1.22	1.41E-07	1.87
MERTK	0.0007206	1.17	6.74E-08	1.39	3.67E-11	1.68	1.21E-17	3.12
MERTK	0.0007206	1.17	6.74E-08	1.39	3.67E-11	1.68	1.21E-17	3.12
ABCA13	0.905037	1.01	0.46463	1.06	1.61E-08	2.07	9.21E-09	2.12
DYNC111	3.00E-17	5.25	1.18E-18	7.08	1.20E-16	4.69	4.79E-16	4.21
PERP	0.0235571	1.13	2.75E-09	1.67	2.79E-11	1.95	1.05E-10	1.86
PTPRF	0.738545	-1.02	3.92E-05	1.42	2.87E-05	1.44	1.77E-07	1.69
HS.18081	0.917077	-1.01	0.2044	-1.13	0.912797	-1.01	1.03E-06	1.87
C12ORF64	0.250314	1.04	0.0203305	1.09	5.89E-09	1.41	1.48E-14	2.02
STOM	3.59E-18	3.13	1.08E-20	4.63	9.83E-18	2.96	8.15E-18	2.99
STOM	3.59E-18	3.13	1.08E-20	4.63	9.83E-18	2.96	8.15E-18	2.99

TABLE 1
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SNX10	4.77E-05	1.42	2.82E-09	1.97	2.70E-05	1.44	6.64E-11	2.33
HS.572444	6.53E-09	1.64	5.86E-11	1.92	7.82E-16	3.28	9.13E-15	2.84
SLN	0.257138	1.10	0.898113	-1.01	0.0031974	1.30	2.48E-08	1.99
SPHAR	1.52E-05	1.59	6.70E-05	1.51	1.54E-05	1.59	3.38E-06	1.68
F2RL2	0.630086	-1.03	0.411981	1.05	1.49E-09	1.81	6.46E-11	2.04
ROBO2	0.66688	1.02	0.189906	1.08	0.0157705	1.16	2.68E-09	1.76
KLF5	1.06E-05	-1.65	0.0151851	-1.26	0.286837	-1.10	0.400549	1.08
KLF5	1.06E-05	-1.65	0.0151851	-1.26	0.286837	-1.10	0.400549	1.08
LRRC1	0.180269	1.04	1.09E-12	1.57	1.93E-16	2.04	5.40E-16	1.96
LRRC1	0.180269	1.04	1.09E-12	1.57	1.93E-16	2.04	5.40E-16	1.96
BMP5	0.0231535	1.14	1.27E-08	1.62	8.16E-11	1.91	3.38E-12	2.16
MPZL2	0.0724664	-1.09	2.80E-10	1.64	6.60E-13	2.00	1.17E-11	1.81
MPZL2	0.0724664	-1.09	2.80E-10	1.64	6.60E-13	2.00	1.17E-11	1.81
TLL1	0.570934	1.05	0.48683	1.06	7.26E-10	2.50	2.94E-07	1.88
TLL1	0.570934	1.05	0.48683	1.06	7.26E-10	2.50	2.94E-07	1.88
HAS2	0.0001193	-1.33	0.0035146	-1.22	0.0005269	1.28	0.219921	-1.08
ENPEP	0.0010192	-1.19	0.381182	-1.04	7.29E-12	1.87	2.64E-11	1.79
RERG	2.39E-10	-2.06	0.109191	1.11	3.49E-14	3.22	0.0111867	-1.19
RERG	2.39E-10	-2.06	0.109191	1.11	3.49E-14	3.22	0.0111867	-1.19
RERG	2.39E-10	-2.06	0.109191	1.11	3.49E-14	3.22	0.0111867	-1.19
SCARA3	2.37E-12	-1.64	3.62E-10	-1.45	0.0119831	-1.10	0.0532114	1.07
SCARA3	2.37E-12	-1.64	3.62E-10	-1.45	0.0119831	-1.10	0.0532114	1.07
ATP6V1B1	1.09E-11	2.75	2.58E-15	4.84	2.24E-16	5.98	2.88E-20	16.88
LINGO2	0.0101003	1.17	2.41E-09	1.77	8.54E-06	1.40	1.25E-13	2.69
ARID3B	3.27E-05	-1.46	0.259702	1.09	0.014001	1.21	0.0009117	1.32
TSC22D2	0.0406011	1.16	0.0006712	1.31	2.37E-05	1.44	9.83E-09	1.87
CXXC5	0.0013822	1.27	0.535293	-1.04	0.002228	1.26	0.333016	1.07
SH3RF2	0.0274453	-1.21	0.120664	-1.14	4.96E-05	1.51	0.0001313	1.46
TACC1	2.69E-07	-1.47	5.84E-06	-1.36	0.0137549	1.15	3.17E-06	1.38
TACC1	2.69E-07	-1.47	5.84E-06	-1.36	0.0137549	1.15	3.17E-06	1.38
GAD1	5.44E-23	5.45	1.04E-22	5.16	2.91E-19	3.00	4.51E-18	2.60
NOG	0.104496	1.13	3.66E-06	1.55	3.42E-06	1.56	3.17E-09	2.01
SPTLC3	0.851454	-1.01	0.10978	1.11	4.32E-08	1.74	3.08E-08	1.76
SPTLC3	0.851454	-1.01	0.10978	1.11	4.32E-08	1.74	3.08E-08	1.76
LOC57228	4.42E-08	1.51	2.42E-13	2.27	7.83E-13	2.16	2.06E-14	2.55
LOC57228	4.42E-08	1.51	2.42E-13	2.27	7.83E-13	2.16	2.06E-14	2.55
LOC57228	4.42E-08	1.51	2.42E-13	2.27	7.83E-13	2.16	2.06E-14	2.55
IRX5	2.05E-17	5.54	4.91E-17	5.14	7.61E-17	4.96	5.52E-19	7.84
IRX5	2.05E-17	5.54	4.91E-17	5.14	7.61E-17	4.96	5.52E-19	7.84
IRX5	2.05E-17	5.54	4.91E-17	5.14	7.61E-17	4.96	5.52E-19	7.84
ARHGAP10	2.77E-05	-1.43	0.0022851	-1.26	0.0011171	1.29	0.0012745	1.28
ESRRG	0.0192871	1.14	5.39E-11	1.95	1.49E-15	3.22	3.99E-12	2.16
TMEM62	1.66E-06	-1.43	0.455087	-1.04	0.0006696	1.24	0.0002341	1.27
TMEM62	1.66E-06	-1.43	0.455087	-1.04	0.0006696	1.24	0.0002341	1.27
SAT1	0.0002354	1.19	3.15E-16	2.52	4.57E-18	3.15	5.41E-18	3.12
ST6GALNAC	0.788983	-1.02	0.0208396	1.18	0.0001312	1.37	9.96E-08	1.72
SEMA3F	0.0002867	1.36	1.10E-08	1.92	1.53E-09	2.08	6.34E-11	2.41
SPRYD5	0.347616	1.05	2.75E-05	1.34	0.160813	1.08	1.56E-08	1.63
S100P	1.76E-06	1.47	0.0010741	1.25	1.15E-05	1.40	1.52E-13	2.72
ACPP	4.12E-07	1.65	2.95E-12	2.75	1.23E-10	2.28	1.17E-12	2.90
ACPP	4.12E-07	1.65	2.95E-12	2.75	1.23E-10	2.28	1.17E-12	2.90

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ELF1	0.0017933	1.17	1.62E-06	1.34	3.75E-05	1.26	9.25E-13	1.98
HS.4988	1.97E-06	-1.62	0.817743	-1.02	0.0121232	1.22	0.0030431	1.28
HS.4988	1.97E-06	-1.62	0.817743	-1.02	0.0121232	1.22	0.0030431	1.28
HS.4988	1.97E-06	-1.62	0.817743	-1.02	0.0121232	1.22	0.0030431	1.28
AKR1B10	0.367947	1.07	3.06E-05	1.45	6.71E-07	1.64	9.60E-08	1.75
DYNLRB2	0.495281	1.06	0.115939	1.14	3.81E-05	1.50	2.48E-07	1.80
METRNL	0.0015807	-1.15	5.84E-07	1.32	0.0015146	1.15	3.40E-11	1.66
CXCR7	0.000261	-1.22	0.305545	1.05	1.10E-15	2.71	2.59E-14	2.33
EDN3	0.616779	1.02	7.34E-05	1.26	7.21E-14	2.31	4.50E-12	1.95
NPNT	0.0753955	-1.12	0.965416	1.00	0.420898	1.05	6.98E-08	1.64
SUMO2	1.02E-06	1.27	2.51E-08	1.36	0.0010016	1.14	1.95E-07	1.31
SLCO6A1	3.07E-05	1.38	5.73E-08	1.65	0.024216	1.16	1.27E-11	2.27
S100A16	0.295016	1.07	3.39E-06	1.52	8.12E-13	2.83	1.62E-11	2.42
S100A16	0.295016	1.07	3.39E-06	1.52	8.12E-13	2.83	1.62E-11	2.42
ANK3	0.0692768	-1.10	4.70E-05	1.30	0.356459	1.05	2.73E-07	1.46
RGL2	2.79E-05	1.30	8.26E-13	2.18	8.01E-11	1.83	2.95E-13	2.28
PGM2	0.675119	-1.02	0.0859566	1.08	1.78E-14	2.28	7.98E-09	1.49
DAPL1	0.187435	1.10	0.324219	1.08	0.0884159	1.14	1.01E-07	1.79
GPR37	2.53E-09	-1.50	0.0008433	-1.17	0.0044375	1.14	1.02E-09	1.54
MAOA	1.80E-11	2.01	2.31E-12	2.18	6.71E-12	2.09	1.64E-13	2.46
MAOA	1.80E-11	2.01	2.31E-12	2.18	6.71E-12	2.09	1.64E-13	2.46
FAM110A	2.02E-06	1.54	2.13E-08	1.79	1.36E-08	1.82	4.21E-10	2.09
SAMD11	1.98E-08	1.85	0.0124362	1.21	0.0006584	1.32	0.0008671	1.31
SAMD11	1.98E-08	1.85	0.0124362	1.21	0.0006584	1.32	0.0008671	1.31
ADAMTS18	0.577317	-1.03	0.191312	1.07	0.0058061	1.16	5.78E-09	1.61
AIPL1	0.001528	1.22	4.31E-08	1.60	2.77E-09	1.74	9.33E-10	1.81
S100A13	2.36E-09	1.62	7.96E-12	1.95	2.86E-15	2.77	1.89E-13	2.27
DISP1	4.07E-14	2.72	1.13E-14	2.92	2.54E-15	3.19	7.20E-17	4.03
C20ORF75	3.73E-07	-1.69	0.151366	-1.11	0.0003599	1.35	0.415353	1.06
KRT8	0.0039826	1.27	3.65E-10	2.28	2.50E-13	3.42	8.36E-12	2.77
KRT8	0.0039826	1.27	3.65E-10	2.28	2.50E-13	3.42	8.36E-12	2.77
KRT8	0.0039826	1.27	3.65E-10	2.28	2.50E-13	3.42	8.36E-12	2.77
AKTIP	0.0024997	-1.25	0.235657	-1.08	0.0829484	1.12	0.017223	1.18
RAB11FIP4	2.14E-10	2.34	3.03E-11	2.58	3.41E-07	1.72	5.27E-12	2.84
RAB11FIP4	2.14E-10	2.34	3.03E-11	2.58	3.41E-07	1.72	5.27E-12	2.84
AMOT	0.0087802	1.20	7.19E-07	1.55	3.17E-15	3.75	6.57E-15	3.57
DUSP26	0.242499	-1.08	0.0585848	1.13	6.00E-05	1.36	3.78E-09	1.84
KRT19	6.66E-08	1.44	1.00E-13	2.20	3.94E-16	2.87	1.49E-16	3.03
KRT19	6.66E-08	1.44	1.00E-13	2.20	3.94E-16	2.87	1.49E-16	3.03
KRT19	6.66E-08	1.44	1.00E-13	2.20	3.94E-16	2.87	1.49E-16	3.03
PCDH17	2.53E-16	3.32	1.08E-15	3.04	7.33E-15	2.74	1.02E-10	1.83
LOC644743	1.94E-06	1.46	5.12E-12	2.29	8.72E-15	3.20	6.34E-13	2.53
LOC644743	1.94E-06	1.46	5.12E-12	2.29	8.72E-15	3.20	6.34E-13	2.53
LOC644743	1.94E-06	1.46	5.12E-12	2.29	8.72E-15	3.20	6.34E-13	2.53
TMEM79	0.0402863	1.17	2.60E-06	1.61	2.55E-10	2.33	1.10E-07	1.80
TMEM79	0.0402863	1.17	2.60E-06	1.61	2.55E-10	2.33	1.10E-07	1.80
TMEM79	0.0402863	1.17	2.60E-06	1.61	2.55E-10	2.33	1.10E-07	1.80
ATP7B	2.47E-06	1.24	1.32E-13	1.78	5.54E-10	1.44	3.47E-13	1.73
TPD52L1	2.73E-05	-1.27	1.02E-07	1.42	1.11E-13	2.16	3.81E-12	1.89
TPD52L1	2.73E-05	-1.27	1.02E-07	1.42	1.11E-13	2.16	3.81E-12	1.89
TPD52L1	2.73E-05	-1.27	1.02E-07	1.42	1.11E-13	2.16	3.81E-12	1.89

TABLE 1
PIP Signature

TNFRSF19	3.85E-16	4.35	1.64E-15	3.91	9.70E-13	2.65	1.06E-12	2.64
C3ORF28	0.0002834	1.51	0.0383607	1.23	0.0375353	1.23	0.191216	1.14
MYH6	0.0894753	1.11	0.243217	1.07	0.26841	1.07	1.52E-07	1.56
HS.375535	0.864684	1.01	0.0043247	1.19	5.46E-09	1.69	2.92E-08	1.61
HS.375535	0.864684	1.01	0.0043247	1.19	5.46E-09	1.69	2.92E-08	1.61
LOC647954	9.00E-05	1.32	6.63E-11	2.03	5.30E-16	3.75	1.04E-12	2.43
LOC647954	9.00E-05	1.32	6.63E-11	2.03	5.30E-16	3.75	1.04E-12	2.43
LOC647954	9.00E-05	1.32	6.63E-11	2.03	5.30E-16	3.75	1.04E-12	2.43
ID3	1.12E-19	5.77	3.56E-18	4.35	4.50E-21	7.86	8.85E-20	5.89
ID3	1.12E-19	5.77	3.56E-18	4.35	4.50E-21	7.86	8.85E-20	5.89
HS.136841	0.174488	1.09	0.0015904	1.26	1.61E-05	1.42	1.01E-09	1.95
LRP4	0.0119284	-1.27	0.0531531	1.19	0.0012465	1.38	0.0001006	1.51
PRLR	0.0016497	1.34	0.4865	1.06	0.0662413	1.17	6.00E-05	1.51
HS.98418	0.74537	1.03	0.006513	1.30	0.0025212	1.35	0.0008424	1.40
LOC730130	0.242818	1.10	0.465307	1.06	0.000325	1.41	0.0063111	1.27
LOC730130	0.242818	1.10	0.465307	1.06	0.000325	1.41	0.0063111	1.27
HS.539808	0.66898	-1.03	9.49E-05	1.43	1.01E-06	1.66	1.93E-06	1.63
HS.539808	0.66898	-1.03	9.49E-05	1.43	1.01E-06	1.66	1.93E-06	1.63
OR7E91P	0.572638	-1.03	7.26E-06	1.30	6.65E-09	1.53	7.78E-11	1.73
HLA-DRB3	0.209697	1.11	0.002185	1.33	0.039456	1.20	7.17E-07	1.78
ITPR1	0.789965	1.02	0.0057811	-1.20	0.081935	1.11	0.0015409	1.24
HS.128375	0.240385	1.13	0.45135	1.08	0.11254	1.18	1.68E-05	1.73
RBBP4	0.083824	1.18	0.105846	1.17	0.0830889	1.18	0.385886	1.08
CLDN4	0.0144944	1.26	1.48E-05	1.63	5.72E-06	1.69	1.66E-08	2.17
C2ORF15	7.95E-09	1.78	1.05E-09	1.92	1.22E-12	2.58	6.51E-09	1.79
TRIM55	0.857646	1.01	0.406582	1.04	3.93E-10	1.76	1.41E-07	1.49
IGSF11	0.000105	1.20	8.34E-12	1.68	5.08E-16	2.39	1.36E-16	2.54
TMEM144	8.65E-11	2.26	2.73E-12	2.69	3.21E-10	2.14	4.08E-13	2.99
TMEM144	8.65E-11	2.26	2.73E-12	2.69	3.21E-10	2.14	4.08E-13	2.99
LPAR5	4.10E-07	1.81	2.30E-08	2.04	0.06524	1.17	9.88E-05	1.48
PLCL1	0.590506	-1.03	0.0144345	1.14	4.10E-10	1.76	5.06E-06	1.36
IRX3	6.90E-21	18.51	1.49E-20	16.55	2.71E-20	15.23	1.31E-21	23.90
IRX3	6.90E-21	18.51	1.49E-20	16.55	2.71E-20	15.23	1.31E-21	23.90
IRX3	6.90E-21	18.51	1.49E-20	16.55	2.71E-20	15.23	1.31E-21	23.90
HLA-DRB1	0.042302	1.12	7.30E-07	1.47	0.0246396	1.14	5.83E-10	1.82
GAS6	2.70E-16	3.45	8.56E-18	4.38	7.40E-18	4.43	1.92E-20	7.51
DACT2	2.23E-06	1.32	6.91E-10	1.60	0.0280786	1.11	5.35E-09	1.52
PUNC	0.0829082	-1.12	1.20E-08	1.75	3.18E-07	1.58	7.43E-13	2.65
PUNC	0.0829082	-1.12	1.20E-08	1.75	3.18E-07	1.58	7.43E-13	2.65
PUNC	0.0829082	-1.12	1.20E-08	1.75	3.18E-07	1.58	7.43E-13	2.65
C10ORF82	1.65E-09	1.50	3.25E-15	2.30	3.94E-10	1.55	1.85E-13	1.96
DIRC2	6.72E-08	1.48	6.95E-08	1.48	5.83E-10	1.69	1.50E-06	1.38
KIF13B	8.62E-05	1.31	2.95E-12	2.25	1.48E-07	1.54	1.97E-12	2.29
KIF13B	8.62E-05	1.31	2.95E-12	2.25	1.48E-07	1.54	1.97E-12	2.29
KIF13B	8.62E-05	1.31	2.95E-12	2.25	1.48E-07	1.54	1.97E-12	2.29
CHMP4C	0.0120787	-1.19	0.0122936	-1.19	0.242767	1.08	0.281238	-1.07
GADD45A	0.0556865	1.13	4.18E-05	1.38	8.47E-07	1.54	0.0021504	1.24
HS.552096	0.832712	-1.02	0.412108	-1.07	4.37E-08	1.93	4.17E-05	1.49
ST3GAL1	5.80E-12	-1.94	4.17E-06	-1.34	0.0008564	1.20	0.0053598	-1.16
ST3GAL1	5.80E-12	-1.94	4.17E-06	-1.34	0.0008564	1.20	0.0053598	-1.16
GRAMD3	0.566629	-1.05	0.227454	1.12	0.117682	1.16	0.0225899	1.25

TABLE 1
PIP Signature

HS.573834	9.15E-08	1.99	2.84E-05	1.58	0.0429653	1.20	4.10E-08	2.06
SMTNL2	3.35E-05	1.40	4.28E-13	2.86	1.85E-09	1.93	5.34E-12	2.50
CCK	0.397981	1.04	0.0010843	-1.20	1.14E-10	1.79	4.12E-08	1.51
SLCO2A1	0.0005269	1.27	0.0027511	1.22	1.38E-10	1.98	7.16E-10	1.86
SLCO2A1	0.0005269	1.27	0.0027511	1.22	1.38E-10	1.98	7.16E-10	1.86
LOC643431	0.0460189	1.21	0.0001323	1.52	6.16E-09	2.35	1.13E-06	1.84
LOC643431	0.0460189	1.21	0.0001323	1.52	6.16E-09	2.35	1.13E-06	1.84
LOC643431	0.0460189	1.21	0.0001323	1.52	6.16E-09	2.35	1.13E-06	1.84
TGM1	0.0197348	1.16	4.78E-06	1.44	7.84E-09	1.75	2.12E-07	1.58
DDC	0.800185	1.02	0.490699	1.06	3.79E-07	1.90	0.0007621	1.41
MYF6	0.123268	1.16	0.0028162	1.38	0.0001948	1.53	1.28E-06	1.89
SCGN	0.0029612	-1.24	0.0330874	-1.15	2.43E-13	2.89	0.0040235	1.23
VGLL2	0.0043999	-1.16	0.0791666	-1.09	1.15E-13	2.27	0.0120235	1.14
FOXI2	0.0305373	-1.15	0.0109315	-1.19	1.35E-09	1.91	4.09E-09	1.83
ASNS	6.14E-06	-1.44	0.235584	-1.08	0.0229377	1.16	0.38892	1.05
KLK12	0.109426	-1.13	6.30E-05	1.45	3.38E-10	2.31	0.102092	1.13
KLK12	0.109426	-1.13	6.30E-05	1.45	3.38E-10	2.31	0.102092	1.13
TYRP1	0.803248	1.02	0.0414069	1.15	0.28031	1.07	5.15E-07	1.58
RAP2C	0.86653	1.01	0.0005388	1.23	0.000797	1.22	0.0069823	1.16
LOC130576	0.158364	1.12	2.89E-06	1.67	1.62E-12	3.38	2.06E-11	2.89
LOC130576	0.158364	1.12	2.89E-06	1.67	1.62E-12	3.38	2.06E-11	2.89
TRIM17	0.236658	1.08	0.0263468	1.15	4.57E-07	1.55	2.98E-05	1.38
S100A14	0.0894807	1.14	0.0194134	1.21	3.19E-07	1.76	5.61E-05	1.47
HS.559234	1.58E-07	1.55	4.26E-07	1.51	0.0010947	1.24	2.32E-11	2.10
HS.568924	8.12E-06	1.45	5.90E-06	1.46	1.30E-05	1.43	3.65E-05	1.39
RHBDF1	1.12E-06	-1.66	0.178274	1.11	4.13E-05	-1.47	0.522235	1.05
DNASE2	9.82E-08	1.72	4.72E-06	1.52	6.24E-05	1.40	3.88E-08	1.78
LOC340598	0.0018876	-1.31	0.0419494	1.18	6.23E-08	1.87	0.0154951	1.22
LOC340598	0.0018876	-1.31	0.0419494	1.18	6.23E-08	1.87	0.0154951	1.22
C19ORF10	0.958437	1.01	0.8211	-1.03	0.0030791	1.46	0.514915	-1.08
KCTD12	4.91E-09	-1.89	4.61E-07	-1.61	0.0113374	1.20	0.0442133	-1.15
KCTD12	4.91E-09	-1.89	4.61E-07	-1.61	0.0113374	1.20	0.0442133	-1.15
TMC4	0.0001249	1.31	1.95E-06	1.46	0.0007244	1.26	2.05E-09	1.80
C20ORF151	4.97E-06	1.41	1.04E-10	1.96	1.52E-12	2.33	1.39E-07	1.55
ECHDC2	1.12E-11	2.33	1.02E-12	2.62	3.88E-06	1.47	5.36E-13	2.71
HS.550404	3.78E-05	1.29	0.0005718	1.22	4.06E-11	1.86	3.07E-07	1.44
LYPD6	0.95517	1.00	7.97E-06	1.26	1.02E-13	1.99	2.18E-15	2.32
LYPD6	0.95517	1.00	7.97E-06	1.26	1.02E-13	1.99	2.18E-15	2.32
BMF	1.18E-07	1.47	1.05E-09	1.68	4.75E-13	2.21	2.91E-13	2.26
PTGS2	0.0050603	-1.17	0.186413	1.07	6.26E-11	1.87	0.427921	1.04
CYP1B1	3.33E-05	1.44	1.44E-11	2.56	2.82E-18	8.29	1.92E-12	2.85
UPK2	2.27E-05	1.37	1.22E-11	2.21	1.11E-06	1.49	5.82E-05	1.34
RIPK4	2.18E-07	1.61	1.43E-09	1.92	5.07E-10	2.00	1.82E-09	1.90
RIPK4	2.18E-07	1.61	1.43E-09	1.92	5.07E-10	2.00	1.82E-09	1.90
STRA6	0.0017939	1.19	1.00E-08	1.58	2.64E-12	2.08	1.27E-09	1.68
HS.374257	1.03E-08	-1.83	0.00035	-1.32	0.0012868	1.27	0.005826	-1.22
HS.374257	1.03E-08	-1.83	0.00035	-1.32	0.0012868	1.27	0.005826	-1.22
STAP2	0.0207958	1.12	1.30E-08	1.51	1.71E-09	1.59	5.78E-09	1.54
STAP2	0.0207958	1.12	1.30E-08	1.51	1.71E-09	1.59	5.78E-09	1.54
STAP2	0.0207958	1.12	1.30E-08	1.51	1.71E-09	1.59	5.78E-09	1.54
GHRL	0.0002791	1.25	2.10E-09	1.69	1.57E-11	2.00	0.0062175	1.17

TABLE 1
PIP Signature

CYP26C1	0.0006956	1.27	2.07E-05	1.39	8.28E-09	1.75	0.0134259	1.18
MEOX1	0.131262	1.10	0.0198849	1.17	3.07E-12	2.49	6.48E-07	1.55
GRHL3	4.35E-14	2.40	1.07E-15	2.90	1.72E-16	3.22	4.68E-11	1.82
C20ORF82	0.0008921	1.29	0.0001635	1.36	4.43E-09	1.91	0.0015141	1.27
LOC646723	0.121172	-1.10	0.0006145	1.28	1.60E-09	1.90	0.0007645	1.28
LOC646723	0.121172	-1.10	0.0006145	1.28	1.60E-09	1.90	0.0007645	1.28
LOC646723	0.121172	-1.10	0.0006145	1.28	1.60E-09	1.90	0.0007645	1.28
SYNPR	0.0202166	1.15	4.14E-12	2.19	0.0177894	1.15	0.0004226	1.26
HS.390250	0.233788	1.08	0.0001653	1.33	4.20E-05	1.38	0.0199856	1.17
PCOLCE2	1.56E-12	2.24	2.20E-13	2.45	7.10E-16	3.36	2.35E-12	2.20
PCOLCE2	1.56E-12	2.24	2.20E-13	2.45	7.10E-16	3.36	2.35E-12	2.20
LOC342897	1.27E-10	2.28	1.25E-15	4.64	1.72E-13	3.27	3.02E-14	3.67
DSP	7.09E-06	1.33	3.81E-10	1.70	1.78E-11	1.88	8.25E-09	1.56
RNASE1	0.050095	-1.10	1.02E-07	1.43	0.0072986	1.14	1.39E-08	1.49
ARHGEF19	2.85E-06	1.36	6.77E-14	2.38	2.43E-07	1.44	1.76E-07	1.45
CFTR	0.0729531	1.14	0.942886	1.01	1.85E-09	2.04	6.47E-06	1.52
LTB	0.14023	1.10	0.006543	1.20	9.58E-15	3.36	5.94E-05	1.36
BIK	0.0001568	1.34	0.0076812	1.20	0.0006043	1.29	0.614258	-1.03
TMEM100	0.419424	1.05	0.188628	1.08	1.73E-08	1.67	0.829692	1.01
STARD10	1.14E-07	1.61	1.01E-11	2.28	1.34E-09	1.87	1.52E-12	2.49
STARD10	1.14E-07	1.61	1.01E-11	2.28	1.34E-09	1.87	1.52E-12	2.49
SDC4	0.12177	1.08	1.21E-07	1.50	2.80E-11	1.94	1.82E-09	1.68
SDC4	0.12177	1.08	1.21E-07	1.50	2.80E-11	1.94	1.82E-09	1.68
SDC4	0.12177	1.08	1.21E-07	1.50	2.80E-11	1.94	1.82E-09	1.68
PROM2	4.05E-09	2.33	1.17E-08	2.21	9.66E-07	1.81	1.22E-08	2.20
PROM2	4.05E-09	2.33	1.17E-08	2.21	9.66E-07	1.81	1.22E-08	2.20
ATP2C2	1.16E-05	1.45	4.04E-09	1.89	2.43E-10	2.11	2.94E-06	1.51
LY6E	3.66E-09	2.06	5.09E-13	3.29	4.35E-11	2.55	3.27E-10	2.30
LY6E	3.66E-09	2.06	5.09E-13	3.29	4.35E-11	2.55	3.27E-10	2.30
LY6E	3.66E-09	2.06	5.09E-13	3.29	4.35E-11	2.55	3.27E-10	2.30
EPN3	0.0041474	1.20	2.62E-07	1.53	5.52E-08	1.60	5.10E-05	1.33
TESK2	1.53E-13	2.01	2.03E-13	1.99	0.138212	1.06	1.02E-13	2.04
CGN	0.0008949	1.46	1.49E-06	1.93	0.0006806	1.48	5.47E-05	1.65
HS.517927	9.44E-07	1.61	9.04E-11	2.32	0.0003129	1.35	0.0496506	1.15
HS.560343	7.35E-08	1.82	3.27E-10	2.29	8.14E-07	1.67	1.06E-11	2.73
TMEM154	0.0952591	1.11	0.0009083	1.26	2.83E-07	1.57	0.0110977	1.18
GATA2	0.0007169	1.24	0.0020417	1.21	2.19E-09	1.72	3.02E-06	1.41
SEPP1	8.60E-16	4.19	3.96E-18	6.61	1.30E-16	4.85	1.00E-18	7.58
SEPP1	8.60E-16	4.19	3.96E-18	6.61	1.30E-16	4.85	1.00E-18	7.58
SEPP1	8.60E-16	4.19	3.96E-18	6.61	1.30E-16	4.85	1.00E-18	7.58
BNIP1	1.18E-13	2.40	1.46E-18	4.82	1.25E-16	3.50	1.30E-12	2.16
TJP3	1.56E-19	5.54	3.00E-20	6.43	5.30E-17	3.57	1.75E-18	4.55
TJP3	1.56E-19	5.54	3.00E-20	6.43	5.30E-17	3.57	1.75E-18	4.55
NFE2	9.10E-13	2.78	1.19E-12	2.74	3.68E-11	2.31	6.76E-12	2.51

TABLE 2
N-SB Signature

Gene name	N-SB (day 5 versus 1)		N-SB (day 7 versus 1)		N-SB (day 9 versus 1)		N-SB (day 11 versus 1)	
	p-value	FC	p-value	FC	p-value	FC	p-value	FC
LHX2	3.66E-15	4.55	1.60E-23	56.65	2.85E-24	81.63	2.39E-24	84.91
FABP7	4.57E-13	2.15	2.28E-17	3.61	3.65E-23	12.52	1.06E-23	14.73
FABP7	4.57E-13	2.15	2.28E-17	3.61	3.65E-23	12.52	1.06E-23	14.73
FABP7	4.57E-13	2.15	2.28E-17	3.61	3.65E-23	12.52	1.06E-23	14.73
LIX1	3.24E-19	5.94	3.44E-21	9.42	3.90E-22	12.22	1.06E-22	14.48
LIX1	3.24E-19	5.94	3.44E-21	9.42	3.90E-22	12.22	1.06E-22	14.48
LIX1	3.24E-19	5.94	3.44E-21	9.42	3.90E-22	12.22	1.06E-22	14.48
DACH1	0.0079376	1.15	9.42E-20	5.50	7.69E-22	8.80	5.27E-23	12.06
WNT5B	0.486825	-1.03	7.04E-14	2.05	1.95E-20	4.74	8.22E-21	5.08
PRSS23	0.0245434	1.16	1.07E-17	5.51	1.23E-19	8.52	2.66E-20	10.14
PRSS23	0.0245434	1.16	1.07E-17	5.51	1.23E-19	8.52	2.66E-20	10.14
PRSS23	0.0245434	1.16	1.07E-17	5.51	1.23E-19	8.52	2.66E-20	10.14
PRSS23	0.0245434	1.16	1.07E-17	5.51	1.23E-19	8.52	2.66E-20	10.14
HS.71947	1.41E-08	1.82	5.10E-18	6.98	2.20E-16	4.96	4.45E-21	16.10
HS.71947	1.41E-08	1.82	5.10E-18	6.98	2.20E-16	4.96	4.45E-21	16.10
ARHGAP15	3.63E-14	3.43	1.06E-14	3.73	7.82E-19	8.56	2.72E-20	12.76
ARHGAP15	3.63E-14	3.43	1.06E-14	3.73	7.82E-19	8.56	2.72E-20	12.76
NCALD	0.0052426	1.15	1.66E-10	1.69	2.73E-21	6.88	1.21E-21	7.46
NCALD	0.0052426	1.15	1.66E-10	1.69	2.73E-21	6.88	1.21E-21	7.46
NCALD	0.0052426	1.15	1.66E-10	1.69	2.73E-21	6.88	1.21E-21	7.46
MGC39900	4.85E-17	2.89	7.95E-19	3.70	9.90E-20	4.28	1.01E-20	5.11
TPBG	9.62E-07	1.68	1.67E-17	7.97	1.14E-16	6.56	1.64E-18	10.35
ZNF521	5.97E-20	15.37	5.10E-21	22.08	5.67E-21	21.72	6.33E-22	31.14
ZNF521	5.97E-20	15.37	5.10E-21	22.08	5.67E-21	21.72	6.33E-22	31.14
ZNF521	5.97E-20	15.37	5.10E-21	22.08	5.67E-21	21.72	6.33E-22	31.14
ST6GALNAC	1.05E-14	3.04	8.23E-18	5.00	6.04E-21	10.19	1.25E-19	7.32
TMEM88	6.40E-19	4.38	3.72E-20	5.51	1.49E-18	4.12	6.35E-21	6.46
DLL1	3.63E-20	4.59	5.22E-25	14.49	2.99E-24	11.57	1.23E-26	25.20
DLL1	3.63E-20	4.59	5.22E-25	14.49	2.99E-24	11.57	1.23E-26	25.20
ZFHX4	1.87E-11	3.47	1.30E-16	10.34	9.65E-18	14.44	2.33E-18	17.65
MAP2	9.44E-14	2.79	6.17E-17	4.50	1.69E-17	5.00	7.66E-21	10.79
MAP2	9.44E-14	2.79	6.17E-17	4.50	1.69E-17	5.00	7.66E-21	10.79
EPB41L5	6.40E-16	2.70	1.54E-16	2.91	1.76E-17	3.30	2.28E-20	5.34
FGF9	2.06E-07	1.66	7.92E-13	2.86	4.09E-17	5.82	1.11E-18	8.31
FGF9	2.06E-07	1.66	7.92E-13	2.86	4.09E-17	5.82	1.11E-18	8.31
FGF9	2.06E-07	1.66	7.92E-13	2.86	4.09E-17	5.82	1.11E-18	8.31
NELL2	3.77E-07	1.38	4.16E-12	1.87	1.18E-13	2.14	1.53E-18	3.89
NELL2	3.77E-07	1.38	4.16E-12	1.87	1.18E-13	2.14	1.53E-18	3.89
DKFZP586H2	9.94E-25	13.95	2.10E-26	24.49	1.21E-24	13.59	1.22E-24	13.57
ZEB2	2.59E-14	3.74	7.40E-16	4.90	7.06E-15	4.11	9.50E-17	5.85
ZEB2	2.59E-14	3.74	7.40E-16	4.90	7.06E-15	4.11	9.50E-17	5.85
ZEB2	2.59E-14	3.74	7.40E-16	4.90	7.06E-15	4.11	9.50E-17	5.85
SFRP2	0.306511	-1.07	5.36E-05	1.39	2.73E-10	2.09	9.94E-13	2.73
SFRP2	0.306511	-1.07	5.36E-05	1.39	2.73E-10	2.09	9.94E-13	2.73
TSHZ2	0.0017062	1.32	1.64E-11	2.80	3.38E-14	4.21	6.46E-17	7.31
TSHZ2	0.0017062	1.32	1.64E-11	2.80	3.38E-14	4.21	6.46E-17	7.31
ENC1	1.97E-15	4.11	2.08E-18	7.48	7.79E-21	14.47	1.68E-13	3.06
CDH11	0.0018493	1.41	1.33E-08	2.41	1.19E-13	5.44	4.46E-14	5.96
CDH11	0.0018493	1.41	1.33E-08	2.41	1.19E-13	5.44	4.46E-14	5.96

TABLE 2
N-SB Signature

CDH11	0.0018493	1.41	1.33E-08	2.41	1.19E-13	5.44	4.46E-14	5.96
LPHN3	0.305798	1.05	2.00E-10	1.79	6.18E-11	1.86	4.46E-16	3.21
LPHN3	0.305798	1.05	2.00E-10	1.79	6.18E-11	1.86	4.46E-16	3.21
HIST1H2BK	0.0536865	-1.09	0.0017674	1.17	2.08E-15	2.60	1.27E-14	2.39
HES5	0.425011	1.09	0.005797	1.38	2.91E-18	24.18	5.70E-20	48.94
HES5	0.425011	1.09	0.005797	1.38	2.91E-18	24.18	5.70E-20	48.94
HES5	0.425011	1.09	0.005797	1.38	2.91E-18	24.18	5.70E-20	48.94
IL17RD	1.25E-15	-4.14	6.04E-09	-1.84	0.0056793	-1.22	0.83053	1.01
LOC728715	7.32E-12	2.72	3.02E-19	11.38	7.70E-17	6.25	9.84E-16	4.98
ETV5	3.44E-13	-3.22	0.0002247	-1.37	1.29E-09	2.10	0.0002489	1.37
ETV5	3.44E-13	-3.22	0.0002247	-1.37	1.29E-09	2.10	0.0002489	1.37
ACTA2	1.70E-10	1.79	4.47E-09	1.62	8.10E-22	9.68	4.04E-19	5.25
TAGLN3	0.683794	1.03	0.0011005	1.30	1.03E-08	1.90	1.31E-16	5.65
TAGLN3	0.683794	1.03	0.0011005	1.30	1.03E-08	1.90	1.31E-16	5.65
TAGLN3	0.683794	1.03	0.0011005	1.30	1.03E-08	1.90	1.31E-16	5.65
HIST1H1D	1.99E-08	1.83	8.13E-12	2.57	9.46E-13	2.89	1.45E-14	3.77
FEZ1	2.13E-23	9.34	4.18E-22	6.84	3.67E-19	3.92	9.68E-21	5.16
FEZ1	2.13E-23	9.34	4.18E-22	6.84	3.67E-19	3.92	9.68E-21	5.16
FEZ1	2.13E-23	9.34	4.18E-22	6.84	3.67E-19	3.92	9.68E-21	5.16
ANGPTL4	1.77E-13	1.91	2.12E-10	1.55	1.26E-17	2.90	3.85E-14	2.02
DYRK3	9.06E-06	1.28	0.0477767	1.09	2.19E-09	1.54	5.01E-09	1.50
FGFRL1	1.60E-13	-2.77	7.25E-11	-2.08	0.00127	-1.25	0.0001004	-1.33
HECTD2	1.30E-06	1.34	1.89E-11	1.78	6.21E-13	2.00	9.42E-14	2.15
HS.61257	0.79654	-1.02	2.50E-08	1.83	2.88E-05	1.44	7.71E-13	2.97
GPR56	4.61E-11	2.53	1.24E-16	6.29	1.70E-16	6.11	2.75E-17	7.30
GPR56	4.61E-11	2.53	1.24E-16	6.29	1.70E-16	6.11	2.75E-17	7.30
NEUROG2	0.453939	1.10	7.67E-13	6.66	7.84E-05	1.80	6.00E-14	8.77
NEUROG2	0.453939	1.10	7.67E-13	6.66	7.84E-05	1.80	6.00E-14	8.77
NEUROG2	0.453939	1.10	7.67E-13	6.66	7.84E-05	1.80	6.00E-14	8.77
FRZB	1.08E-20	28.05	4.51E-21	32.59	2.89E-21	35.26	1.19E-19	19.15
FRZB	1.08E-20	28.05	4.51E-21	32.59	2.89E-21	35.26	1.19E-19	19.15
FRZB	1.08E-20	28.05	4.51E-21	32.59	2.89E-21	35.26	1.19E-19	19.15
VASH1	1.10E-07	1.81	7.03E-09	2.02	1.12E-09	2.20	1.93E-13	3.56
RTN1	8.11E-09	1.55	2.51E-14	2.44	3.03E-09	1.59	9.59E-14	2.29
RNF165	8.09E-06	1.57	2.04E-12	3.13	5.85E-11	2.58	1.84E-14	4.33
RNF165	8.09E-06	1.57	2.04E-12	3.13	5.85E-11	2.58	1.84E-14	4.33
SCUBE1	0.0010775	1.26	8.99E-14	2.95	2.20E-15	3.72	8.69E-14	2.96
LRP2	4.31E-08	1.78	2.20E-10	2.20	3.74E-11	2.39	6.35E-14	3.43
SIX3	2.19E-15	8.68	1.46E-16	12.00	2.55E-13	5.38	5.99E-12	4.13
NLGN1	9.13E-05	-1.38	0.195948	1.09	6.78E-07	1.60	9.87E-11	2.25
NLGN1	9.13E-05	-1.38	0.195948	1.09	6.78E-07	1.60	9.87E-11	2.25
NLGN1	9.13E-05	-1.38	0.195948	1.09	6.78E-07	1.60	9.87E-11	2.25
P4HA1	0.0233116	1.19	0.759342	-1.02	0.0013103	-1.30	1.09E-06	1.61
C4ORF31	1.99E-10	1.83	8.83E-12	2.05	7.96E-10	1.74	3.72E-14	2.61
SLC6A16	5.18E-08	2.15	1.18E-12	4.13	3.99E-12	3.77	7.68E-16	8.06
BTG2	8.50E-10	2.01	3.97E-12	2.58	1.28E-13	3.12	5.86E-14	3.27
ME3	8.58E-06	1.28	4.05E-10	1.61	1.53E-14	2.29	5.10E-14	2.17
ME3	8.58E-06	1.28	4.05E-10	1.61	1.53E-14	2.29	5.10E-14	2.17
ME3	8.58E-06	1.28	4.05E-10	1.61	1.53E-14	2.29	5.10E-14	2.17
TH	0.000237	-1.19	0.0491056	-1.09	2.36E-10	1.59	1.66E-10	1.60
SYT11	0.285311	1.09	7.53E-06	1.61	6.81E-10	2.38	6.03E-11	2.71

TABLE 2
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TMEM74	7.45E-07	1.49	4.35E-14	2.86	6.77E-17	4.35	1.63E-12	2.38
LPAR4	1.17E-05	1.42	0.0232763	1.16	1.90E-07	1.60	1.38E-11	2.28
LPAR4	1.17E-05	1.42	0.0232763	1.16	1.90E-07	1.60	1.38E-11	2.28
HS.181245	2.14E-16	5.93	2.57E-18	9.32	4.63E-18	8.73	1.17E-17	7.89
EFNB1	4.66E-15	3.44	9.74E-17	4.52	8.15E-18	5.55	4.91E-17	4.77
EFNB1	4.66E-15	3.44	9.74E-17	4.52	8.15E-18	5.55	4.91E-17	4.77
LOC648149	1.40E-06	1.61	8.94E-12	2.66	4.66E-14	3.66	3.20E-15	4.45
LOC648149	1.40E-06	1.61	8.94E-12	2.66	4.66E-14	3.66	3.20E-15	4.45
CA2	0.0044311	-1.17	0.0306647	1.12	2.10E-12	2.13	0.0004862	1.23
CA2	0.0044311	-1.17	0.0306647	1.12	2.10E-12	2.13	0.0004862	1.23
HS.13438	6.97E-09	1.72	1.09E-11	2.19	1.66E-14	3.03	1.03E-13	2.74
SOX3	8.69E-09	-2.06	0.0063006	-1.26	0.0012553	-1.33	8.09E-07	1.71
SOX3	8.69E-09	-2.06	0.0063006	-1.26	0.0012553	-1.33	8.09E-07	1.71
C8ORF4	0.168816	-1.08	0.0001632	1.30	5.33E-08	1.61	5.35E-12	2.27
CTNNBIP1	5.35E-06	1.49	1.33E-13	3.09	6.12E-15	3.77	5.61E-15	3.79
CTNNBIP1	5.35E-06	1.49	1.33E-13	3.09	6.12E-15	3.77	5.61E-15	3.79
HS.493947	0.0001233	1.35	5.03E-05	1.38	0.536754	1.04	1.18E-09	1.95
CAPN6	2.88E-12	1.93	1.33E-15	2.68	5.41E-13	2.05	6.48E-12	1.87
CAPN6	2.88E-12	1.93	1.33E-15	2.68	5.41E-13	2.05	6.48E-12	1.87
GLT25D2	0.0055039	-1.26	0.0220138	1.21	6.97E-09	2.05	1.55E-10	2.46
GLT25D2	0.0055039	-1.26	0.0220138	1.21	6.97E-09	2.05	1.55E-10	2.46
GLT25D2	0.0055039	-1.26	0.0220138	1.21	6.97E-09	2.05	1.55E-10	2.46
PDLIM7	0.020155	-1.20	0.0175343	1.20	1.17E-08	1.92	3.64E-10	2.23
HIST1H2BD	0.388283	-1.05	0.0985281	-1.10	0.0001052	1.29	1.57E-11	2.05
CNTNAP1	3.85E-14	3.91	7.11E-17	6.62	8.00E-13	3.19	3.31E-17	7.15
SORCS2	1.39E-09	2.85	1.31E-12	4.68	6.70E-14	6.11	2.87E-13	5.34
SORCS2	1.39E-09	2.85	1.31E-12	4.68	6.70E-14	6.11	2.87E-13	5.34
MAMDC2	1.07E-07	-1.79	1.06E-09	-2.16	0.940842	1.01	1.64E-06	1.62
ARRDC4	1.84E-12	3.74	3.65E-13	4.22	0.0001316	1.51	2.07E-15	6.62
SC65	0.0002747	1.27	3.02E-07	1.50	3.70E-08	1.59	1.72E-10	1.89
HS.4892	2.81E-11	3.19	6.14E-10	2.65	6.91E-10	2.63	6.26E-11	3.03
MFNG	2.70E-13	3.02	7.09E-17	5.48	4.28E-15	3.96	1.45E-15	4.29
MFNG	2.70E-13	3.02	7.09E-17	5.48	4.28E-15	3.96	1.45E-15	4.29
PLEKHA1	7.56E-08	1.55	6.80E-09	1.66	0.0006633	1.24	9.22E-12	2.10
COL11A1	3.00E-16	-3.05	4.30E-14	-2.36	1.80E-06	-1.36	0.0002234	1.23
COL11A1	3.00E-16	-3.05	4.30E-14	-2.36	1.80E-06	-1.36	0.0002234	1.23
COL11A1	3.00E-16	-3.05	4.30E-14	-2.36	1.80E-06	-1.36	0.0002234	1.23
ROBO1	2.81E-07	1.51	1.56E-08	1.64	3.76E-05	1.33	1.52E-08	1.64
LOC654096	0.548272	1.04	4.99E-06	1.47	1.29E-08	1.77	1.58E-11	2.32
LOC654096	0.548272	1.04	4.99E-06	1.47	1.29E-08	1.77	1.58E-11	2.32
FJX1	1.29E-14	3.19	4.58E-17	4.73	5.50E-15	3.36	3.89E-09	1.78
FJX1	1.29E-14	3.19	4.58E-17	4.73	5.50E-15	3.36	3.89E-09	1.78
C18ORF26	5.30E-09	1.83	1.43E-06	1.52	1.91E-07	-1.62	0.009866	-1.19
C18ORF26	5.30E-09	1.83	1.43E-06	1.52	1.91E-07	-1.62	0.009866	-1.19
C18ORF26	5.30E-09	1.83	1.43E-06	1.52	1.91E-07	-1.62	0.009866	-1.19
LOC653527	0.0275281	1.16	0.000253	1.32	6.04E-09	1.83	4.33E-11	2.23
LOC653527	0.0275281	1.16	0.000253	1.32	6.04E-09	1.83	4.33E-11	2.23
MAP6	2.48E-08	1.38	0.0100869	1.11	4.78E-06	1.25	2.91E-11	1.62
MAP6	2.48E-08	1.38	0.0100869	1.11	4.78E-06	1.25	2.91E-11	1.62
APLP1	0.0003107	1.65	7.74E-08	2.57	4.58E-08	2.66	3.53E-10	3.70
PLVAP	0.093409	1.16	0.0219332	1.23	0.0873396	1.16	3.35E-10	2.55

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OPN1SW	0.748992	-1.02	0.0486637	1.17	0.302184	1.08	1.15E-08	1.97
PLP1	0.0048185	-1.12	6.07E-08	-1.36	0.0247094	1.09	5.16E-08	1.37
DKKL1	8.91E-06	1.32	9.36E-11	1.79	1.14E-08	1.55	1.01E-09	1.66
NOS2A	0.894773	1.01	0.239392	1.14	4.57E-07	2.15	2.81E-10	3.33
LOC728411	2.57E-08	2.17	9.32E-09	2.28	5.18E-07	1.89	2.29E-12	3.74
GNE	1.31E-07	-1.55	0.234816	1.07	0.0244454	-1.14	0.0002286	1.28
GCUD2	1.38E-05	1.31	1.59E-05	1.30	8.75E-07	-1.39	0.0117945	1.14
KIAA0367	0.0040977	1.16	1.25E-06	1.38	0.303755	-1.05	1.24E-10	1.76
LRRRC4C	1.89E-08	1.78	1.26E-11	2.42	6.46E-06	1.48	4.98E-11	2.27
PRRT2	1.06E-11	5.50	1.15E-14	11.64	1.92E-11	5.20	1.62E-14	11.15
CCKBR	0.340591	1.06	9.10E-08	1.62	7.24E-15	3.36	0.0003768	1.29
C6ORF126	2.24E-07	1.69	4.74E-12	2.69	0.0092863	1.22	0.0023194	1.27
C6ORF126	2.24E-07	1.69	4.74E-12	2.69	0.0092863	1.22	0.0023194	1.27
NECAB2	1.41E-10	2.32	4.71E-14	3.67	9.48E-15	4.12	1.10E-14	4.07
FEZF1	8.14E-15	4.74	2.85E-16	6.37	5.86E-13	3.46	9.49E-12	2.91
FEZF1	8.14E-15	4.74	2.85E-16	6.37	5.86E-13	3.46	9.49E-12	2.91
RRAS	0.204321	1.09	1.81E-06	1.54	0.0094212	1.20	8.20E-09	1.84
RBM24	2.33E-10	2.30	7.40E-10	2.18	0.0001702	1.39	9.45E-13	3.09
RBM24	2.33E-10	2.30	7.40E-10	2.18	0.0001702	1.39	9.45E-13	3.09
RBM24	2.33E-10	2.30	7.40E-10	2.18	0.0001702	1.39	9.45E-13	3.09
SEMA5A	7.09E-06	1.47	5.19E-06	1.48	1.15E-06	1.55	3.77E-12	2.54
MVP	9.57E-08	1.58	1.23E-14	3.07	1.54E-05	1.38	9.48E-16	3.60
LOC285382	2.16E-10	1.65	1.00E-05	1.29	1.08E-11	1.81	1.67E-08	1.47
FGF8	0.399675	-1.09	2.48E-11	3.78	7.22E-14	6.19	5.49E-09	2.65
FGF8	0.399675	-1.09	2.48E-11	3.78	7.22E-14	6.19	5.49E-09	2.65
ADA	0.0006078	1.27	2.13E-06	1.47	0.0001441	1.31	4.86E-06	1.43
ADA	0.0006078	1.27	2.13E-06	1.47	0.0001441	1.31	4.86E-06	1.43
ADA	0.0006078	1.27	2.13E-06	1.47	0.0001441	1.31	4.86E-06	1.43
ZEB1	0.200116	1.08	0.247314	1.07	0.0319099	1.14	1.55E-08	1.70
TTYH1	1.58E-13	2.62	4.01E-14	2.82	9.28E-17	4.15	9.30E-17	4.15
TTYH1	1.58E-13	2.62	4.01E-14	2.82	9.28E-17	4.15	9.30E-17	4.15
TMEFF1	1.30E-10	2.83	5.92E-10	2.60	3.41E-06	1.73	4.21E-10	2.65
CD99L2	0.0743925	1.15	6.74E-06	1.56	9.13E-09	1.99	1.14E-09	2.18
POU3F2	0.286457	1.11	0.0010651	1.42	4.30E-05	1.61	2.15E-08	2.26
POU3F2	0.286457	1.11	0.0010651	1.42	4.30E-05	1.61	2.15E-08	2.26
VIM	1.13E-19	-5.48	1.16E-19	-5.47	4.34E-16	-3.05	1.28E-10	-1.76
VIM	1.13E-19	-5.48	1.16E-19	-5.47	4.34E-16	-3.05	1.28E-10	-1.76
PTGIS	1.52E-10	2.14	1.26E-15	4.16	4.69E-13	2.84	6.12E-15	3.72
PTGIS	1.52E-10	2.14	1.26E-15	4.16	4.69E-13	2.84	6.12E-15	3.72
SILV	3.22E-17	3.15	4.65E-19	4.15	8.01E-17	2.99	3.46E-17	3.13
HS.560863	6.94E-15	4.74	6.19E-17	7.30	1.87E-15	5.30	2.50E-09	2.16
ARMCX4	8.16E-06	1.50	3.74E-12	2.72	0.005282	1.24	4.02E-12	2.71
AFAP1L2	3.42E-09	1.62	2.65E-09	1.63	4.96E-12	2.02	8.56E-11	1.82
AFAP1L2	3.42E-09	1.62	2.65E-09	1.63	4.96E-12	2.02	8.56E-11	1.82
AFAP1L2	3.42E-09	1.62	2.65E-09	1.63	4.96E-12	2.02	8.56E-11	1.82
DLG4	1.40E-07	1.84	1.12E-10	2.54	3.74E-07	1.77	1.62E-09	2.22
PNMA2	0.826882	-1.02	0.0109709	-1.23	0.0205466	1.20	0.0359857	-1.18
PNMA2	0.826882	-1.02	0.0109709	-1.23	0.0205466	1.20	0.0359857	-1.18
PNMA2	0.826882	-1.02	0.0109709	-1.23	0.0205466	1.20	0.0359857	-1.18
MSRB3	0.0093819	-1.16	0.0011935	-1.22	0.0085375	1.16	1.80E-05	1.34
TMEM59L	0.500166	-1.03	0.0030076	1.15	2.17E-06	1.31	5.77E-07	1.35

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MEX3B	3.99E-08	2.00	1.97E-08	2.06	1.12E-08	2.11	1.55E-08	2.08
MEX3B	3.99E-08	2.00	1.97E-08	2.06	1.12E-08	2.11	1.55E-08	2.08
MEX3B	3.99E-08	2.00	1.97E-08	2.06	1.12E-08	2.11	1.55E-08	2.08
KLK3	0.486829	1.03	0.0033468	1.17	1.65E-07	1.45	7.14E-09	1.58
PCDHB4	8.67E-07	1.66	8.47E-08	1.81	0.0048378	1.26	2.84E-09	2.08
TRIB2	7.13E-07	-1.48	0.0003791	1.26	4.62E-06	1.41	1.00E-07	1.56
GRM3	9.85E-12	2.58	1.60E-11	2.52	8.19E-09	1.91	2.64E-09	2.00
GRM3	9.85E-12	2.58	1.60E-11	2.52	8.19E-09	1.91	2.64E-09	2.00
CCDC136	2.37E-09	2.10	8.92E-12	2.77	3.71E-10	2.29	1.13E-12	3.13
CCDC136	2.37E-09	2.10	8.92E-12	2.77	3.71E-10	2.29	1.13E-12	3.13
NAV1	6.23E-14	4.95	1.09E-15	7.22	3.53E-15	6.42	2.39E-16	8.48
NDP	2.14E-06	1.93	9.12E-12	4.05	1.27E-10	3.35	3.30E-08	2.39
NDP	2.14E-06	1.93	9.12E-12	4.05	1.27E-10	3.35	3.30E-08	2.39
NDP	2.14E-06	1.93	9.12E-12	4.05	1.27E-10	3.35	3.30E-08	2.39
CEP57	2.81E-06	1.47	1.21E-08	1.74	7.75E-07	1.52	3.49E-07	1.56
RNF175	5.67E-09	1.60	1.35E-09	1.66	4.51E-11	1.86	4.68E-12	2.01
RNF175	5.67E-09	1.60	1.35E-09	1.66	4.51E-11	1.86	4.68E-12	2.01
KLHDC8A	0.0001335	-1.35	0.0002542	-1.32	7.53E-08	1.68	4.62E-05	1.39
SCARNA9	0.230522	-1.09	3.91E-07	1.71	4.99E-11	2.52	2.00E-10	2.35
HS.573138	0.0064614	1.23	7.11E-07	1.63	2.52E-08	1.83	1.07E-05	1.49
RHBDL1	0.000315	-1.41	0.517008	-1.05	1.38E-07	-1.86	4.88E-06	-1.62
HS.448059	0.0053866	1.36	3.32E-06	1.87	0.0011891	1.45	4.72E-10	2.99
EPHA2	1.72E-08	-2.64	3.24E-06	-1.98	0.598073	-1.06	0.310185	-1.12
BCHE	0.399782	-1.07	1.08E-05	1.57	0.0013445	1.33	1.35E-06	1.69
BCHE	0.399782	-1.07	1.08E-05	1.57	0.0013445	1.33	1.35E-06	1.69
PPP1R3C	1.31E-11	2.70	2.48E-08	1.90	7.98E-10	2.20	1.00E-07	1.80
ZNF397	6.62E-12	2.35	5.95E-09	1.79	0.016081	1.17	7.15E-13	2.63
NHLH1	0.682382	-1.03	0.899365	-1.01	0.0463915	1.14	0.0004601	1.31
NRCAM	2.88E-13	2.66	2.65E-16	4.10	1.25E-18	6.41	4.61E-16	3.94
HS.568639	0.0002645	1.36	3.60E-08	1.82	4.16E-08	1.81	2.41E-08	1.85
ELP4	1.49E-09	2.30	9.98E-13	3.49	4.11E-07	1.80	1.72E-11	2.92
ADCY6	6.13E-11	3.44	2.83E-11	3.63	1.96E-12	4.45	1.72E-13	5.48
HS.475334	5.05E-11	2.08	1.78E-13	2.70	1.75E-10	1.98	2.05E-11	2.16
SHANK3	1.53E-08	2.13	1.20E-10	2.73	1.53E-11	3.08	2.42E-12	3.47
LOC284422	5.15E-05	1.55	1.01E-08	2.22	0.791409	-1.02	0.888469	1.01
DIO1	1.44E-05	1.44	2.52E-09	1.91	4.97E-09	1.86	6.26E-08	1.70
HEYL	0.0358802	1.16	0.133369	-1.11	0.813814	-1.02	0.702742	1.03
TFDP2	0.703439	1.03	0.127976	1.11	0.138178	-1.11	2.77E-07	1.64
SARM1	0.0180028	1.15	0.107388	1.09	1.20E-08	1.64	3.24E-06	1.41
TBC1D26	0.744174	1.02	8.05E-10	1.98	0.174778	1.09	3.88E-09	1.87
SEMA6C	3.08E-07	1.59	1.61E-06	1.51	0.0006377	1.28	4.35E-06	1.47
ZDHHC14	0.0001181	-1.41	0.0014679	-1.30	6.44E-06	1.54	0.0303797	1.18
ZDHHC14	0.0001181	-1.41	0.0014679	-1.30	6.44E-06	1.54	0.0303797	1.18
MYL4	0.0119976	1.15	0.262876	1.06	3.79E-08	1.55	2.04E-06	1.40
PTN	7.09E-05	1.51	7.05E-06	1.64	1.31E-08	2.14	3.80E-06	1.68
PTN	7.09E-05	1.51	7.05E-06	1.64	1.31E-08	2.14	3.80E-06	1.68
PTN	7.09E-05	1.51	7.05E-06	1.64	1.31E-08	2.14	3.80E-06	1.68
HS.26409	1.92E-06	1.69	6.30E-11	2.70	9.87E-11	2.64	5.10E-13	3.65
EGF	1.50E-05	-1.47	0.0039726	-1.25	0.349377	-1.07	0.0056037	1.23
EGF	1.50E-05	-1.47	0.0039726	-1.25	0.349377	-1.07	0.0056037	1.23
SLC2A1	3.63E-12	-2.96	2.31E-14	-4.14	0.0721134	1.15	3.03E-07	-1.74

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SLC2A1	3.63E-12	-2.96	2.31E-14	-4.14	0.0721134	1.15	3.03E-07	-1.74
NDRG4	0.960164	-1.00	0.242474	1.08	0.0868664	1.12	0.368988	-1.06
UTP3	7.52E-12	-1.72	6.82E-13	-1.86	5.08E-14	-2.03	1.23E-10	-1.59
OTOF	6.60E-07	1.41	1.74E-09	1.64	1.58E-08	1.54	1.41E-08	1.55
GRM2	0.0011635	1.24	0.0533347	1.12	0.0061519	1.19	0.0184569	1.16
GRM2	0.0011635	1.24	0.0533347	1.12	0.0061519	1.19	0.0184569	1.16
HESX1	7.85E-13	6.57	1.85E-12	6.04	6.95E-10	3.64	5.57E-05	-1.82
DNHD1	0.218145	-1.06	5.25E-06	1.35	0.0109091	1.15	2.95E-08	1.53
RCOR2	0.0183259	1.24	0.147209	1.14	0.0001469	1.48	0.0108644	1.27
ENPP2	0.0001764	1.31	0.166201	1.09	0.259343	1.07	9.16E-08	1.62
LOC727994	0.0459589	1.15	0.0001631	1.37	8.07E-06	1.49	0.0001117	1.38
ZNF533	3.61E-19	4.36	2.92E-19	4.43	8.18E-15	2.41	6.55E-18	3.56
ZNF533	3.61E-19	4.36	2.92E-19	4.43	8.18E-15	2.41	6.55E-18	3.56
ZNF533	3.61E-19	4.36	2.92E-19	4.43	8.18E-15	2.41	6.55E-18	3.56
MYT1	7.37E-12	2.89	6.45E-12	2.91	2.02E-08	1.96	7.14E-10	2.27
CTNND2	8.95E-06	1.58	2.68E-05	1.52	0.0007111	1.36	7.05E-10	2.34
SHROOM3	9.88E-06	-1.36	3.48E-08	-1.58	0.0001846	-1.27	0.699029	1.02
SHROOM3	9.88E-06	-1.36	3.48E-08	-1.58	0.0001846	-1.27	0.699029	1.02
DRD1IP	0.0095672	1.26	1.73E-08	2.08	7.73E-07	1.77	4.90E-09	2.20
HS.324981	0.0160563	1.18	0.0045242	1.23	0.128966	1.11	1.26E-08	1.80
HS.324981	0.0160563	1.18	0.0045242	1.23	0.128966	1.11	1.26E-08	1.80
HS.569985	0.32513	1.08	8.66E-07	1.71	3.70E-05	1.50	3.74E-05	1.50
AP1S2	0.116941	1.09	2.11E-09	-1.67	3.13E-05	-1.31	0.0002841	-1.25
BTBD15	8.75E-07	-1.50	5.01E-09	-1.76	4.83E-10	-1.92	0.0045775	-1.20
DUSP4	2.08E-10	2.43	9.78E-09	2.03	3.54E-11	2.67	1.04E-07	1.84
DUSP4	2.08E-10	2.43	9.78E-09	2.03	3.54E-11	2.67	1.04E-07	1.84
CXORF57	1.73E-05	1.46	7.09E-08	1.75	8.62E-07	1.61	1.34E-07	1.71
BEGAIN	1.20E-06	1.45	3.92E-08	1.59	1.97E-08	1.63	5.21E-09	1.70
HS.170035	0.0008032	1.48	2.53E-11	3.72	0.238602	-1.13	4.14E-05	1.68
ACTN3	3.78E-13	4.08	1.04E-15	6.81	1.50E-12	3.69	7.31E-15	5.66
SPOCK1	9.95E-09	-1.67	0.111598	-1.10	1.43E-08	-1.65	0.0016387	-1.22
ATHL1	0.0826463	1.19	7.56E-08	2.20	0.499461	1.07	0.143346	1.16
CPXM1	5.77E-10	1.92	5.10E-14	2.96	1.24E-13	2.82	2.48E-13	2.72
TNFAIP2	0.0084567	-1.28	0.108349	-1.15	0.0059643	-1.30	0.0219463	-1.24
PTH2	2.72E-08	2.49	1.79E-10	3.41	1.77E-12	4.87	1.17E-08	2.61
FNDC5	1.53E-08	2.32	1.27E-07	2.08	9.02E-13	4.31	3.88E-11	3.28
NKAIN4	1.70E-07	1.87	6.88E-08	1.94	2.10E-14	4.69	3.26E-08	2.00
CAMK2N1	1.65E-05	1.39	1.03E-14	3.25	1.18E-13	2.82	8.83E-18	5.47
CAMK2N1	1.65E-05	1.39	1.03E-14	3.25	1.18E-13	2.82	8.83E-18	5.47
CAMK2N1	1.65E-05	1.39	1.03E-14	3.25	1.18E-13	2.82	8.83E-18	5.47
GFRA2	0.112599	1.12	0.0006309	1.31	0.180186	1.10	0.0011376	1.29
LAG3	6.07E-08	1.56	3.44E-10	1.83	2.58E-07	1.50	0.0002541	1.27
MEG3	1.57E-05	1.97	3.96E-08	2.81	7.66E-06	2.05	3.03E-05	1.91
LCTL	0.477273	1.05	0.0221006	1.20	0.0096082	1.23	0.0185191	-1.20
POU3F1	2.80E-17	4.86	1.87E-16	4.19	1.13E-12	2.48	1.42E-13	2.76
POU3F1	2.80E-17	4.86	1.87E-16	4.19	1.13E-12	2.48	1.42E-13	2.76
POU3F1	2.80E-17	4.86	1.87E-16	4.19	1.13E-12	2.48	1.42E-13	2.76
NRXN2	7.96E-11	3.27	6.40E-11	3.32	2.68E-11	3.52	2.61E-10	3.03
KIAA1644	0.0082911	-1.26	0.0176863	-1.23	0.0893507	-1.15	0.0011217	-1.35
KIAA1644	0.0082911	-1.26	0.0176863	-1.23	0.0893507	-1.15	0.0011217	-1.35
HS.574768	1.91E-09	2.11	2.73E-12	2.95	4.11E-10	2.27	2.09E-12	3.00

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HS.574768	1.91E-09	2.11	2.73E-12	2.95	4.11E-10	2.27	2.09E-12	3.00
RCBTB2	0.0826902	1.11	0.218698	1.08	0.0006304	1.27	2.00E-05	1.38
EPHB2	2.07E-13	2.69	7.51E-13	2.52	4.23E-12	2.32	9.91E-09	1.72
MGC61598	1.30E-09	1.70	1.52E-09	1.69	3.35E-06	1.38	1.85E-09	1.68
EDG3	3.94E-07	1.93	1.30E-08	2.27	1.02E-13	4.89	6.05E-06	1.72
EDG3	3.94E-07	1.93	1.30E-08	2.27	1.02E-13	4.89	6.05E-06	1.72
EDG3	3.94E-07	1.93	1.30E-08	2.27	1.02E-13	4.89	6.05E-06	1.72
TCEAL7	0.022403	-1.22	0.0324064	-1.21	0.679632	-1.03	0.0846848	1.16
SPRY2	1.21E-06	-1.66	0.611225	-1.04	3.39E-09	2.09	7.35E-05	-1.44
LOC400406	1.14E-10	2.33	4.15E-12	2.77	3.65E-08	1.83	9.08E-09	1.93
FHL1	0.0168389	-1.17	0.0471069	-1.14	5.29E-07	-1.56	0.0055085	-1.21
CCDC109B	2.44E-07	-1.46	3.65E-08	-1.53	1.57E-09	-1.68	9.26E-06	-1.34
C20ORF103	0.0120638	-1.26	0.0080831	-1.28	4.87E-14	4.72	2.62E-08	2.09
C20ORF103	0.0120638	-1.26	0.0080831	-1.28	4.87E-14	4.72	2.62E-08	2.09
C20ORF103	0.0120638	-1.26	0.0080831	-1.28	4.87E-14	4.72	2.62E-08	2.09
JPH4	0.0103224	1.26	0.0005642	1.39	0.0089668	-1.26	0.24763	-1.10
CLCF1	0.0085092	1.29	1.09E-05	1.66	8.85E-08	2.03	0.0008238	1.41
CDH17	0.909355	-1.01	7.89E-05	1.45	0.0455107	1.17	0.0024633	1.30
CRYBA4	3.93E-05	1.56	1.89E-10	2.73	1.52E-12	3.71	2.62E-08	2.12
MN1	7.44E-14	4.94	1.95E-14	5.55	7.11E-12	3.49	3.63E-14	5.26
MN1	7.44E-14	4.94	1.95E-14	5.55	7.11E-12	3.49	3.63E-14	5.26
ANGPTL2	1.82E-08	2.12	0.0211589	1.23	4.85E-08	2.03	0.000881	1.38
LSAMP	3.46E-07	1.57	3.53E-07	1.57	2.60E-08	1.71	1.14E-11	2.31
LOC133993	8.50E-08	-1.55	3.34E-06	-1.41	1.80E-08	-1.62	2.02E-08	-1.61
LOC133993	8.50E-08	-1.55	3.34E-06	-1.41	1.80E-08	-1.62	2.02E-08	-1.61
C6ORF170	1.65E-05	1.51	0.0001645	1.40	0.0032728	1.28	2.47E-05	1.49
KAL1	7.04E-11	-2.68	2.71E-05	-1.54	0.0034497	-1.30	1.34E-10	-2.59
KAL1	7.04E-11	-2.68	2.71E-05	-1.54	0.0034497	-1.30	1.34E-10	-2.59
KAL1	7.04E-11	-2.68	2.71E-05	-1.54	0.0034497	-1.30	1.34E-10	-2.59
IFIT1	3.88E-07	2.04	3.69E-06	1.84	3.91E-13	4.91	2.23E-06	1.88
IFIT1	3.88E-07	2.04	3.69E-06	1.84	3.91E-13	4.91	2.23E-06	1.88
IFIT1	3.88E-07	2.04	3.69E-06	1.84	3.91E-13	4.91	2.23E-06	1.88
HS.537002	0.0284167	1.18	4.49E-05	1.44	0.833991	1.02	0.0144236	1.21
HS.537002	0.0284167	1.18	4.49E-05	1.44	0.833991	1.02	0.0144236	1.21
GAD2	0.935334	-1.00	6.57E-05	1.30	4.41E-17	3.97	0.0164456	1.15
CD200	2.27E-08	-1.37	2.76E-09	-1.43	2.27E-08	-1.37	1.04E-06	-1.28
LOC150297	0.283258	1.06	0.0108645	1.15	0.0002429	1.25	0.0023879	1.19
GNRH1	0.009732	1.19	0.0001508	1.32	0.732754	-1.02	0.0001905	1.31
CPT1C	4.37E-10	2.48	1.93E-11	2.95	1.77E-08	2.07	1.25E-11	3.03
CRABP1	2.41E-11	2.08	1.27E-08	1.67	3.87E-06	1.42	1.07E-06	1.47
CRABP1	2.41E-11	2.08	1.27E-08	1.67	3.87E-06	1.42	1.07E-06	1.47
NNAT	0.0004156	1.42	0.001953	1.34	0.0001878	1.46	0.0016418	1.35
NNAT	0.0004156	1.42	0.001953	1.34	0.0001878	1.46	0.0016418	1.35
NNAT	0.0004156	1.42	0.001953	1.34	0.0001878	1.46	0.0016418	1.35
ACBD7	0.0010172	1.43	4.15E-05	1.62	0.0075248	1.32	0.0024639	1.38
SALL2	4.68E-06	1.46	1.03E-07	1.63	7.79E-10	1.93	2.98E-09	1.84
SALL2	4.68E-06	1.46	1.03E-07	1.63	7.79E-10	1.93	2.98E-09	1.84
PRKCG	0.133961	1.10	0.0210837	1.16	0.934808	1.00	0.0539709	1.13
RHPN1	0.0070067	1.22	2.78E-10	2.16	0.0154517	1.19	6.55E-06	1.50
MYLK	0.0001646	1.47	6.59E-07	1.82	0.0008739	1.39	1.22E-06	1.77
SNORD25	0.247998	1.11	4.45E-07	1.87	0.853446	1.02	1.93E-07	1.94

TABLE 2
N-SB Signature

NUAK2	0.104711	1.16	0.0013733	-1.38	0.774256	-1.03	0.699086	1.03
NUAK2	0.104711	1.16	0.0013733	-1.38	0.774256	-1.03	0.699086	1.03
SMOC1	0.190405	1.10	0.180189	1.10	2.97E-05	1.44	0.0253975	1.18
SGIP1	2.00E-05	1.51	2.84E-07	1.75	0.0181388	1.21	3.42E-06	1.60
MYH11	0.000982	-1.22	0.0096568	-1.16	0.268442	-1.06	0.0024013	-1.20
CYP46A1	4.55E-06	1.65	6.76E-05	1.49	9.12E-05	1.48	4.10E-06	1.65
CELSR2	1.26E-08	2.12	3.93E-10	2.52	3.15E-06	1.68	2.29E-10	2.59
CELSR2	1.26E-08	2.12	3.93E-10	2.52	3.15E-06	1.68	2.29E-10	2.59
TMEM16H	0.007764	1.27	6.64E-06	1.64	0.311394	-1.09	0.0652643	1.17
EMP3	2.39E-12	-2.38	7.81E-16	-3.76	1.91E-09	-1.81	4.09E-08	-1.64
EMP3	2.39E-12	-2.38	7.81E-16	-3.76	1.91E-09	-1.81	4.09E-08	-1.64
EMP3	2.39E-12	-2.38	7.81E-16	-3.76	1.91E-09	-1.81	4.09E-08	-1.64
MPPED1	0.707318	-1.02	0.0998393	1.11	0.0001979	1.30	0.0004427	1.28
COL8A2	0.956277	-1.00	0.000207	-1.33	0.042228	-1.15	2.74E-05	-1.41
HS.120377	0.0561046	-1.20	0.0215291	1.25	0.0001732	-1.50	0.0658931	-1.19
EPHB1	2.66E-05	1.47	1.46E-06	1.61	1.58E-05	1.49	0.0011376	1.31
UPK1A	6.94E-10	1.96	4.30E-13	2.76	3.78E-10	2.01	2.66E-08	1.72
CA4	0.0001749	1.34	6.22E-07	1.57	1.34E-11	2.37	2.64E-08	1.74
CA4	0.0001749	1.34	6.22E-07	1.57	1.34E-11	2.37	2.64E-08	1.74
CA4	0.0001749	1.34	6.22E-07	1.57	1.34E-11	2.37	2.64E-08	1.74
HS.130960	3.79E-06	1.55	5.40E-06	1.53	1.20E-06	1.60	0.0363416	1.17
FZD8	1.27E-13	5.59	4.01E-14	6.22	1.66E-13	5.45	3.05E-10	3.07
PTGS1	1.11E-11	2.58	7.86E-14	3.45	1.55E-08	1.87	1.38E-10	2.28
HS.277205	2.62E-08	1.62	2.02E-05	1.36	3.88E-06	1.41	0.0081489	1.17
HS.277205	2.62E-08	1.62	2.02E-05	1.36	3.88E-06	1.41	0.0081489	1.17
NPIP	0.018855	-1.23	0.0446548	1.19	0.0004176	-1.41	0.0010948	-1.36
PAK3	3.09E-14	3.13	1.36E-11	2.28	2.48E-10	2.01	8.03E-13	2.61
PAK3	3.09E-14	3.13	1.36E-11	2.28	2.48E-10	2.01	8.03E-13	2.61
DUSP6	1.18E-09	-2.96	7.92E-05	-1.66	0.0002464	1.58	3.67E-06	-1.91
DUSP6	1.18E-09	-2.96	7.92E-05	-1.66	0.0002464	1.58	3.67E-06	-1.91
MIAT	1.82E-06	2.17	9.35E-10	3.49	4.34E-10	3.70	2.13E-11	4.71
MIAT	1.82E-06	2.17	9.35E-10	3.49	4.34E-10	3.70	2.13E-11	4.71
MIAT	1.82E-06	2.17	9.35E-10	3.49	4.34E-10	3.70	2.13E-11	4.71
CDC42EP4	1.12E-07	2.25	5.68E-06	1.85	6.26E-11	3.55	1.39E-07	2.22
CDC42EP4	1.12E-07	2.25	5.68E-06	1.85	6.26E-11	3.55	1.39E-07	2.22
IRS2	8.16E-10	1.72	1.77E-08	1.57	3.23E-11	1.92	6.90E-10	1.73
HS.128236	0.0009388	1.30	4.78E-07	1.64	3.08E-06	1.54	0.0017468	1.28
LRCH4	0.601652	-1.06	0.628444	1.06	0.0090633	-1.39	0.720474	1.04
FUT8	5.11E-15	4.05	2.32E-14	3.64	5.07E-10	2.11	3.83E-10	2.14
BCL6B	2.29E-15	2.85	2.31E-16	3.25	4.91E-11	1.85	2.57E-09	1.63
LOC645460	0.423701	-1.07	0.0014316	1.35	0.390101	-1.07	0.0120986	1.25
PCDH18	4.73E-07	2.29	5.95E-06	2.00	0.430758	1.10	0.223709	1.15
PCDH18	4.73E-07	2.29	5.95E-06	2.00	0.430758	1.10	0.223709	1.15
PCDH18	4.73E-07	2.29	5.95E-06	2.00	0.430758	1.10	0.223709	1.15
LRR3B	0.107476	1.10	0.0002329	1.29	5.73E-06	1.42	0.767336	1.02
EMX1	0.120304	-1.10	0.910049	1.01	0.0001655	1.32	2.55E-08	1.70
ARHGEF6	6.22E-10	1.65	0.0004162	1.21	1.05E-09	1.63	1.09E-13	2.25
PTPRZ1	0.088455	-1.15	0.39638	-1.07	0.0615098	-1.17	0.142085	1.13
PTPRZ1	0.088455	-1.15	0.39638	-1.07	0.0615098	-1.17	0.142085	1.13
PTPRZ1	0.088455	-1.15	0.39638	-1.07	0.0615098	-1.17	0.142085	1.13
IGFBP3	0.936483	-1.01	1.14E-05	-1.59	1.91E-16	7.14	6.65E-10	2.39

TABLE 2
N-SB Signature

IGFBP3	0.936483	-1.01	1.14E-05	-1.59	1.91E-16	7.14	6.65E-10	2.39
IGFBP3	0.936483	-1.01	1.14E-05	-1.59	1.91E-16	7.14	6.65E-10	2.39
IGFBP3	0.936483	-1.01	1.14E-05	-1.59	1.91E-16	7.14	6.65E-10	2.39
NKD2	4.14E-08	1.66	2.42E-06	1.47	0.917168	-1.01	0.0001254	1.33
RFPL2	0.656856	-1.03	0.254711	1.07	0.0381474	1.14	0.0081361	1.19
CACNG7	0.0002755	1.39	3.62E-08	1.91	0.0008248	1.34	0.0004911	1.36
GBX2	0.233876	-1.09	0.544168	1.04	9.38E-07	1.61	0.589229	-1.04
TNRC4	0.0057598	1.20	0.312309	1.06	2.81E-08	1.67	0.186273	1.08
LRRC20	0.0008333	1.26	0.0054987	1.20	0.0365889	-1.14	0.0003088	1.29
LRRC20	0.0008333	1.26	0.0054987	1.20	0.0365889	-1.14	0.0003088	1.29
FAM132A	0.208397	1.12	0.0188336	1.25	0.134826	-1.15	0.113919	1.15
CA3	0.994926	1.00	0.269353	-1.07	0.212727	1.08	0.859357	1.01
LOC644733	0.0446226	1.14	0.0181466	-1.17	0.0071111	-1.20	0.0013584	-1.26
SYT1	0.848857	-1.02	0.0062371	1.28	0.0729859	-1.17	0.203013	1.11
TMEM35	0.0007798	1.58	0.0003489	1.65	0.0240996	1.33	0.023518	1.33
CSRP2	3.11E-05	1.30	8.14E-07	1.41	2.91E-09	1.63	1.04E-05	1.33
TIAM1	0.0211161	1.27	0.0137351	1.29	3.69E-06	1.82	0.0005624	1.48
RGMA	9.36E-15	5.30	1.15E-14	5.21	1.01E-12	3.68	1.43E-11	3.08
ZNF69	0.0875019	1.13	0.0259785	-1.18	0.0005395	1.33	0.973884	1.00
ATOH8	0.771153	-1.03	0.561875	1.06	0.0041315	1.35	0.0625757	1.20
LOC642342	0.0002675	1.49	0.782963	-1.03	0.0080535	1.31	0.58414	1.05
LOC642342	0.0002675	1.49	0.782963	-1.03	0.0080535	1.31	0.58414	1.05
SYTL2	8.76E-15	-2.45	4.26E-14	-2.28	2.41E-13	-2.12	7.44E-12	-1.87
SYDE1	6.66E-09	-1.51	4.06E-11	-1.74	5.09E-12	-1.86	4.80E-12	-1.87
F12	0.0057092	-1.23	0.0037131	-1.25	1.35E-09	-2.03	0.0012524	-1.29
NOTCH1	1.59E-06	2.15	5.25E-06	2.02	3.96E-07	2.33	1.54E-07	2.46
ATP1B2	0.0008398	1.48	0.0012959	1.45	0.000571	1.50	5.57E-06	1.83
GLCCI1	0.0478604	-1.21	0.620705	1.05	8.09E-05	-1.56	0.450032	1.07
GLCCI1	0.0478604	-1.21	0.620705	1.05	8.09E-05	-1.56	0.450032	1.07
FRMD4A	0.144221	1.10	0.731091	1.02	7.62E-08	1.70	0.018137	-1.18
C10ORF33	1.68E-09	1.78	1.39E-13	2.64	3.08E-09	1.74	1.02E-13	2.68
C6ORF141	1.34E-18	6.31	3.77E-18	5.74	4.66E-19	6.99	2.34E-16	4.11
C6ORF141	1.34E-18	6.31	3.77E-18	5.74	4.66E-19	6.99	2.34E-16	4.11
C6ORF141	1.34E-18	6.31	3.77E-18	5.74	4.66E-19	6.99	2.34E-16	4.11
LOC731429	0.0005545	-1.36	0.406779	-1.07	9.37E-06	-1.55	0.581943	-1.04
LOC643624	0.0738213	-1.17	0.0136769	1.26	0.102001	-1.16	0.0621038	1.18
C20ORF46	4.00E-05	1.65	1.78E-08	2.36	0.281589	1.11	0.0066943	1.33
LGALS1	0.0015744	1.26	0.167943	1.09	0.0007675	1.28	1.42E-06	1.53
NID1	0.0031231	1.29	4.42E-08	1.92	6.37E-07	1.73	2.85E-05	1.51
NID1	0.0031231	1.29	4.42E-08	1.92	6.37E-07	1.73	2.85E-05	1.51
TSPAN7	2.57E-07	1.71	4.75E-09	1.99	0.102915	1.13	4.75E-06	1.55
VIPR2	0.0249677	1.21	0.0269674	1.20	6.74E-12	3.00	0.261513	1.09
VIPR2	0.0249677	1.21	0.0269674	1.20	6.74E-12	3.00	0.261513	1.09
VIPR2	0.0249677	1.21	0.0269674	1.20	6.74E-12	3.00	0.261513	1.09
CDC42EP3	0.0105759	-1.27	0.0007183	-1.40	9.28E-05	1.50	0.0001259	-1.49
CACNA1H	0.011102	1.27	8.37E-07	1.83	3.77E-05	1.57	7.11E-05	1.54
FHOD3	4.35E-15	3.88	2.44E-15	4.05	5.05E-14	3.30	1.84E-12	2.68
FHOD3	4.35E-15	3.88	2.44E-15	4.05	5.05E-14	3.30	1.84E-12	2.68
FHOD3	4.35E-15	3.88	2.44E-15	4.05	5.05E-14	3.30	1.84E-12	2.68
C1ORF187	0.0018697	1.27	0.203496	1.09	0.0013316	1.28	0.001653	-1.28
LOC387762	0.187645	1.07	0.904153	1.01	6.98E-07	1.43	0.782464	1.01

TABLE 2
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LOC390975	0.436512	1.06	1.21E-05	1.52	0.0194267	1.20	0.0005815	1.34
GNG8	4.76E-09	2.14	6.39E-14	4.12	6.25E-13	3.51	1.06E-09	2.29
GNG8	4.76E-09	2.14	6.39E-14	4.12	6.25E-13	3.51	1.06E-09	2.29
LDLRAD3	3.91E-06	1.61	4.32E-07	1.75	0.0059415	1.26	0.0077123	1.25
HS.146950	0.951985	1.00	0.390989	-1.07	0.954987	1.00	0.0271123	-1.21
DLL3	0.0180503	-1.22	0.0005254	-1.37	6.44E-07	-1.72	0.0013926	-1.33
DSCR6	1.11E-14	5.25	6.56E-14	4.53	1.24E-10	2.72	0.0237382	1.23
ZIC4	0.000639	1.28	0.0003982	1.29	6.35E-07	1.54	0.069393	1.12
ZIC4	0.000639	1.28	0.0003982	1.29	6.35E-07	1.54	0.069393	1.12
ZIC4	0.000639	1.28	0.0003982	1.29	6.35E-07	1.54	0.069393	1.12
LHFP	8.44E-16	-2.78	2.97E-14	-2.34	0.0025112	1.17	0.0022662	-1.17
CDH4	2.97E-06	1.57	0.0001345	1.39	3.51E-05	1.45	0.0001936	1.38
FLJ30375	0.502558	1.04	0.609379	-1.03	3.92E-07	1.59	0.500772	-1.04
HS.397465	4.42E-06	1.76	1.98E-05	1.66	4.26E-07	1.95	8.33E-08	2.11
SOX21	2.83E-24	18.32	9.74E-24	15.38	9.14E-23	11.49	9.40E-23	11.45
SOX21	2.83E-24	18.32	9.74E-24	15.38	9.14E-23	11.49	9.40E-23	11.45
MOBKL2B	0.310191	1.10	0.0020254	1.40	0.0004777	1.48	0.0019271	1.40
ALDH2	0.778396	1.02	0.0871934	-1.14	0.0410733	-1.17	0.0001672	1.41
ELFN2	8.65E-12	2.85	3.30E-10	2.35	0.0098208	1.24	3.78E-10	2.33
PTPRN2	0.0005403	1.33	8.65E-05	1.40	0.0001161	1.39	0.0001269	1.39
GRASP	0.228077	1.07	0.273058	1.06	0.344741	1.05	0.4559	1.04
NLGN3	1.17E-12	2.22	6.38E-11	1.90	3.24E-10	1.79	1.91E-10	1.83
NLGN3	1.17E-12	2.22	6.38E-11	1.90	3.24E-10	1.79	1.91E-10	1.83
SLC6A10P	1.97E-08	1.98	1.54E-09	2.21	7.15E-11	2.58	2.96E-09	2.15
SLC6A10P	1.97E-08	1.98	1.54E-09	2.21	7.15E-11	2.58	2.96E-09	2.15
ARHGEF4	1.44E-06	1.71	9.59E-08	1.91	1.08E-05	1.59	3.28E-06	1.66
ARHGEF4	1.44E-06	1.71	9.59E-08	1.91	1.08E-05	1.59	3.28E-06	1.66
CENTD3	0.0524888	-1.23	0.45525	-1.08	0.00753	-1.34	0.0016902	-1.44
HTRA1	0.0003616	1.27	0.0029635	1.21	1.09E-05	-1.38	0.153845	-1.09
HTRA1	0.0003616	1.27	0.0029635	1.21	1.09E-05	-1.38	0.153845	-1.09
TCF3	0.379697	-1.07	0.0407617	1.18	0.843179	-1.02	0.782514	1.02
TCF3	0.379697	-1.07	0.0407617	1.18	0.843179	-1.02	0.782514	1.02
LOC645464	0.0281728	1.24	0.011665	1.29	2.92E-07	1.98	0.163212	1.14
LOC645464	0.0281728	1.24	0.011665	1.29	2.92E-07	1.98	0.163212	1.14
FLJ25404	6.25E-12	3.48	1.34E-11	3.30	3.48E-06	1.74	2.64E-08	2.16
MACF1	0.0028526	-1.20	0.0004291	-1.25	0.0001494	-1.28	4.54E-05	-1.32
SLC6A8	2.11E-06	1.77	1.28E-08	2.22	1.20E-09	2.50	8.22E-08	2.03
SLC6A8	2.11E-06	1.77	1.28E-08	2.22	1.20E-09	2.50	8.22E-08	2.03
MMP7	0.973803	-1.00	0.771743	-1.02	0.0069628	1.26	0.719147	-1.03
C3ORF58	0.0179464	-1.25	0.003525	-1.33	0.0037327	-1.32	8.28E-06	-1.66
QPCT	0.0006073	-1.28	3.76E-06	-1.47	6.33E-07	-1.55	4.74E-05	-1.37
TNFRSF25	0.0695819	1.29	0.255389	1.17	0.325696	1.14	0.0272522	1.37
HS.550164	2.64E-06	1.46	1.20E-05	1.40	2.11E-12	2.43	5.32E-09	1.77
LFNG	2.76E-10	3.12	2.02E-08	2.42	7.48E-13	4.84	1.17E-12	4.66
PKD1L2	6.88E-05	1.34	0.0046834	1.20	0.371709	1.05	0.0002121	1.30
HS.525171	0.68105	1.04	0.0891632	1.18	0.0245316	1.25	0.0003935	1.48