

a

Rank	ProbelD	Gene	Chromosome	Position	Mean $\Delta\beta$	p-value
1	cg15089487	<i>THAP10</i>	15	68972306	0.04	1.30E-03
2	cg11324740	<i>OIP5</i>	15	39412085	0.03	6.05E-04
3	cg15240064	<i>ZNF12</i>	7	6713362	0.04	2.04E-03
4	cg01353347	<i>IRAK1</i>	X	152938352	-0.03	6.67E-04
5	cg22226839	<i>ATP2B4</i>	1	201862674	-0.04	5.25E-03
6	cg21241823	<i>PRDM15</i>	21	42173093	-0.04	4.54E-03
7	cg15940569	<i>GABRB3</i>	15	24570449	0.04	4.25E-03
8	cg11909310	<i>DKFZP686A10121</i>	7	89813722	0.06	7.30E-03
9	cg12736438	<i>RAB20</i>	13	110012458	-0.03	1.74E-03
10	cg01041367	<i>TMEM70</i>	8	75050634	0.04	5.91E-03
11	cg04244987	<i>NCKIPSD</i>	3	48698642	-0.03	4.10E-03
12	cg18349258	<i>SMEK2</i>	2	55697707	0.04	6.00E-03
13	cg11492856	<i>CAPN7</i>	3	15221591	-0.03	3.55E-03
14	cg15995002	<i>RAD54B</i>	8	95556400	0.03	3.34E-03
15	cg01798443	<i>RPSA</i>	3	39422895	0.03	4.43E-03
16	cg24034289	<i>SCAMP3</i>	1	153498968	-0.03	3.62E-03
17	cg25948180	<i>PDHX</i>	11	34893357	0.04	8.09E-03
18	cg19837131	<i>PIK3C3</i>	18	37789059	-0.05	1.01E-02
19	cg11814446	<i>LEMD3</i>	12	63849263	0.03	5.79E-03
20	cg27537561	<i>VDR</i>	12	46584923	-0.04	8.87E-03
21	cg01160766	<i>RPL38</i>	17	69711466	-0.03	7.81E-03
22	cg18855178	<i>PCSK4</i>	19	1441194	0.03	4.51E-03
23	cg08785133	<i>PORCN</i>	X	48252137	-0.03	4.24E-03
24	cg13240311	<i>PKIG</i>	20	42594209	-0.03	8.51E-03
25	cg20663980	<i>CDX4</i>	X	72583795	0.03	9.03E-04
26	cg27198824	<i>AFF2</i>	X	147390419	-0.03	9.52E-03
27	cg05857825	<i>MAPRE1</i>	20	30871874	-0.03	6.28E-03
28	cg21509097	<i>LYPLA3</i>	16	66837114	-0.03	7.45E-03
29	cg02345317	<i>NLGN3</i>	X	70281268	-0.03	1.27E-04
30	cg16468910	<i>SNX4</i>	3	126721481	0.03	1.10E-02
31	cg14751914	<i>SMAD7</i>	18	44731402	-0.04	1.46E-02
32	cg25095380	<i>PRDM5</i>	4	122062657	0.03	1.29E-02
33	cg04856685	<i>MAP4</i>	3	48105803	-0.03	5.69E-03
34	cg19695867	<i>WDR47</i>	1	109386913	0.03	9.43E-03
35	cg13192155	<i>ERAS</i>	X	48570887	-0.03	9.45E-03
36	cg11223864	<i>GNB2</i>	7	100109259	-0.03	1.16E-02
37	cg17150465	<i>SCRIB</i>	8	144969546	-0.03	1.18E-03
38	cg05471775	<i>HIST1H4B</i>	6	26135510	-0.03	9.47E-03
39	cg04959788	<i>PTCH2</i>	1	45081216	-0.03	5.76E-03
40	cg17758148	<i>JMY</i>	5	78609397	0.03	1.86E-03
41	cg14272175	<i>PXK</i>	3	58294000	0.03	7.48E-03
42	cg26757053	<i>LYPLAL1</i>	1	217413644	0.04	1.75E-02
43	cg00620629	<i>C6orf113</i>	6	117096644	0.03	1.27E-02
44	cg07118638	<i>THEX1</i>	8	8897611	0.03	9.99E-03
45	cg19724470	<i>CD274</i>	9	5440936	0.03	1.71E-02
46	cg05158538	<i>PPARGC1A</i>	4	23500584	0.03	1.17E-02
47	cg26365553	<i>MADD</i>	11	47247189	-0.02	7.85E-04
48	cg13585240	<i>ARIH2</i>	3	48934379	0.02	1.65E-03
49	cg04156850	<i>GRB2</i>	17	70914167	-0.03	7.12E-03
50	cg24130043	<i>ZNF197</i>	3	44641366	-0.02	3.52E-03

b

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1	cg16746631	<i>IMPA1</i>	8	82760695	-0.04	4.72E-04
2	cg04624659	<i>SPAG17</i>	1	118529340	-0.04	7.51E-04
3	cg27372468	<i>SLC22A4</i>	5	131658111	0.04	1.54E-04
4	cg16208448	<i>TPP2</i>	13	102047992	-0.06	2.79E-03
5	cg18215716	<i>TMEM111</i>	3	10004246	0.04	2.00E-03
6	cg05107152	<i>KLC4</i>	6	43134752	0.04	2.66E-03
7	cg04062907	<i>ANAPC7</i>	12	109325928	0.03	7.55E-06
8	cg12930602	<i>DIPA</i>	11	65414471	0.04	3.01E-03
9	cg24110050	<i>TCTEX1D1</i>	1	66990441	-0.04	3.19E-03
10	cg13700897	<i>RSPO2</i>	8	109165240	0.03	1.49E-03
11	cg02210123	<i>RHOJ</i>	14	62740588	-0.04	3.46E-03
12	cg02597128	<i>CXorf41</i>	X	106336479	-0.05	5.71E-03
13	cg16082125	<i>USP11</i>	X	46977504	-0.04	3.32E-03
14	cg08463061	<i>RND3</i>	2	151052578	-0.06	6.38E-03
15	cg16541031	<i>IRF7</i>	11	605519	-0.03	2.36E-04
16	cg11738543	<i>SOCS2</i>	12	92491356	-0.03	2.99E-03
17	cg09665351	<i>APXL</i>	X	9715283	0.04	5.83E-03
18	cg16290693	<i>SPSB1</i>	1	9275539	-0.05	6.51E-03
19	cg10159529	<i>IL5RA</i>	3	3127530	0.03	1.87E-03
20	cg25909811	<i>KDELR2</i>	7	6489778	0.03	1.18E-03
21	cg01808130	<i>SLC35B3</i>	6	8380205	-0.04	7.02E-03
22	cg14155482	<i>PIP5K1A</i>	1	149437706	0.03	5.21E-03
23	cg22492966	<i>JMJD1C</i>	10	64698935	0.04	7.92E-03
24	cg08142684	<i>TCP1</i>	6	160129858	-0.04	6.12E-03
25	cg10274830	<i>C6orf96</i>	6	151815702	-0.05	9.03E-03
26	cg27198824	<i>AFF2</i>	X	147390419	-0.03	4.78E-03
27	cg05459203	<i>NUDCD3</i>	7	44497199	-0.04	9.22E-03
28	cg27631817	<i>OFCC1</i>	6	10168924	-0.04	8.12E-03
29	cg23828595	<i>PRKG1</i>	10	52503616	-0.03	5.73E-03
30	cg18506672	<i>SNURF</i>	15	22751346	-0.03	2.74E-03
31	cg07623294	<i>ELAVL2</i>	9	23816507	-0.03	5.71E-03
32	cg13181019	<i>MPP7</i>	10	28611588	0.03	4.99E-04
33	cg06618866	<i>TLR2</i>	4	154824537	-0.03	6.71E-03
34	cg23653712	<i>SGCB</i>	4	52599136	-0.03	7.65E-04
35	cg17746675	<i>C3orf31</i>	3	11863297	0.03	7.97E-03
36	cg02200584	<i>PDGFC</i>	4	158111996	-0.03	3.43E-03
37	cg12542604	<i>ANKS1A</i>	6	34964682	0.04	1.09E-02
38	cg02171545	<i>SNRPN</i>	15	22644459	-0.04	1.32E-02
39	cg14967972	<i>PANK1</i>	10	91395245	-0.04	1.38E-02
40	cg17412258	<i>DLK1</i>	14	100262770	-0.03	3.27E-03
41	cg02712845	<i>DPAGT1</i>	11	118478248	-0.05	1.43E-02
42	cg20902737	<i>EFTUD2</i>	17	40331968	0.03	3.53E-03
43	cg11692477	<i>SLC40A1</i>	2	190153722	-0.03	3.62E-03
44	cg00468146	<i>ID4</i>	6	19946190	-0.03	8.41E-03
45	cg09053680	<i>UTF1</i>	10	134894104	-0.03	3.14E-03
46	cg06905514	<i>CAMK2B</i>	7	44331466	-0.03	7.05E-03
47	cg24921089	<i>AMPD3</i>	11	10429416	-0.03	1.02E-02
48	cg03863149	<i>ZNF644</i>	1	91260104	-0.04	1.36E-02
49	cg15494458	<i>BPI</i>	20	36364926	0.03	9.51E-03
50	cg26491425	<i>RHOV</i>	15	38953924	0.03	6.50E-03

C

Rank	ProbelD	Gene	Chromosome	Position	Mean $\Delta\beta$	p-value
1	cg16399745	CNAP1	12	6474300	-0.06	1.17E-03
2	cg06340713	CHM	X	85190083	0.05	5.03E-04
3	cg12237946	PGBD4	15	32181668	-0.07	2.73E-03
4	cg02245418	ZNF364	1	144321032	0.04	9.45E-04
5	cg25040783	APPL	3	57236346	0.04	1.53E-03
6	cg05881762	UBE3A	15	23235942	0.04	3.38E-03
7	cg04578090	PROCA1	17	24063650	-0.05	5.86E-03
8	cg22947000	BCMO1	16	79829782	0.06	6.99E-03
9	cg24371383	CEP55	10	95246094	0.04	2.90E-03
10	cg22232206	SRF	6	43246163	-0.04	1.75E-03
11	cg24073051	CDV3	3	134774669	0.03	2.07E-03
12	cg01485998	FLJ12505	1	211190520	-0.04	4.66E-03
13	cg00662775	TCEAL4	X	102727091	-0.07	8.90E-03
14	cg23054437	MOSC2	1	218987929	-0.05	7.67E-03
15	cg00901652	SH2BP1	11	10729010	-0.04	7.86E-03
16	cg23839680	CCT6A	7	56085732	-0.06	9.63E-03
17	cg09580336	ATP1A1	1	116716645	0.04	5.86E-03
18	cg14196790	SLC22A5	5	131732934	-0.04	5.69E-03
19	cg04902405	ZC3H11A	1	202035140	0.04	9.01E-03
20	cg11392765	BAPX1	4	13155771	-0.04	6.32E-03
21	cg05419984	PIGX	3	197922860	-0.04	9.89E-03
22	cg02620013	MLNR	13	48692682	-0.03	4.58E-03
23	cg20649047	NUMB	14	72994914	-0.04	7.70E-03
24	cg00325491	FN5	11	92925818	0.03	2.76E-03
25	cg26536259	BMP2	20	6696006	-0.03	3.71E-03
26	cg04145477	QRSL1	6	107184322	-0.03	1.30E-03
27	cg13306784	INPP5E	9	138454309	-0.04	1.05E-02
28	cg10521267	ZNF684	1	40769714	0.04	1.15E-02
29	cg01909833	BRD2	6	33045245	-0.03	6.18E-03
30	cg27170298	BCS1L	2	219233031	-0.04	1.30E-02
31	cg12073779	CRYGD	2	208697714	-0.03	9.22E-03
32	cg05944800	INSIG2	2	118562016	-0.03	7.09E-03
33	cg26083396	IMPDH1	7	127837121	-0.04	1.47E-02
34	cg05062178	ITGB5	3	126087937	0.03	4.67E-03
35	cg11395610	RAB28	4	13094336	-0.03	8.61E-03
36	cg04422896	C12orf43	12	119938652	-0.03	8.63E-03
37	cg26675382	NUP43	6	150109539	0.05	1.80E-02
38	cg05768141	KCNJ10	1	158306471	0.03	1.22E-02
39	cg12179176	SNX19	11	130291765	0.03	1.09E-02
40	cg25921910	CDC73	1	191357280	0.04	1.65E-02
41	cg17572791	HAX1	1	152511809	-0.03	1.29E-02
42	cg04587910	XLF	2	219733988	0.03	4.37E-03
43	cg19848683	EVI1	3	170346742	-0.03	4.47E-03
44	cg24456340	GNGT2	17	44641482	-0.03	3.14E-03
45	cg08513100	UBE2B	5	133734621	-0.03	1.37E-02
46	cg15182360	PCDH20	13	60887738	-0.04	1.92E-02
47	cg20716209	STAT3	17	37794796	-0.03	1.23E-02
48	cg12917695	HSPC268	7	138675699	-0.03	8.90E-03
49	cg23062876	DBT	1	100488055	-0.03	1.21E-02
50	cg14800883	ARPC4	3	9809004	0.05	2.18E-02