

Supplementary Table 4. Discovered DMR list with statistical values

Seqnames	Start	End	Beta	Pval	Gene_name	Condition
chr3	123,166,906	123,167,281	0.190	0.003	ADCY5	hyper
chr16	4,166,157	4,166,601	0.157	0.031	ADCY9	hyper
chr4	3,767,519	3,768,172	0.150	0.012	ADRA2C	hyper
chr14	105,261,718	105,262,242	0.149	0.041	AKT1	hyper
chr17	36,666,337	36,667,046	0.123	0.027	ARHGAP23	hyper
chr17	66,255,193	66,255,555	-0.159	0.039	ARSG	hypo
chr3	197,281,606	197,282,442	-0.131	0.036	BDH1	hypo
chr1	39,957,535	39,958,075	0.096	0.049	BMP8A	hyper
chr11	1,411,501	1,412,000	0.114	0.042	BRSK2	hyper
chr11	63,530,260	63,530,836	0.129	0.043	C11orf95	hyper
chr9	139,740,230	139,741,651	0.065	0.033	C9orf172	hyper
chr22	46,932,382	46,933,142	0.103	0.039	CELSR1	hyper
chr19	19,006,681	19,007,151	0.259	0.005	CERS1	hyper
chr9	126,135,337	126,135,960	0.145	0.013	CRB2	hyper
chr19	47,151,979	47,153,125	0.115	0.002	DACT3	hyper
chr11	639,507	640,146	0.074	0.045	DRD4	hyper
chr6	291,972	293,392	-0.083	0.049	DUSP22	hypo
chr6	152,128,584	152,129,542	-0.139	0.011	ESR1	hypo
chr5	176,830,370	176,831,517	-0.105	0.022	F12	hypo
chr22	48,971,269	48,971,941	0.146	0.040	FAM19A5	hyper
chr9	134,152,041	134,152,454	0.134	0.033	FAM78A	hyper
chr3	13,590,415	13,590,904	0.151	0.009	FBLN2	hyper
chr5	180,045,790	180,046,398	0.200	0.003	FLT4	hyper
chr22	38,220,590	38,221,471	0.145	0.010	GALR3	hyper
chr22	19,711,419	19,711,979	0.157	0.035	GP1BB	hyper
chr19	48,946,117	48,946,924	0.085	0.034	GRIN2D	hyper
chr10	38,645,254	38,645,566	-0.121	0.047	HSD17B7P2	hypo
chr2	96,012,225	96,012,698	0.158	0.029	KCNIP3	hyper
chr7	127,671,088	127,672,093	0.118	0.008	LRRC4	hyper
chr20	30,134,808	30,135,215	-0.171	0.014	MCTS2P	hypo
chr16	84,002,039	84,002,594	0.220	0.002	NECAB2	hyper
chr4	1,400,134	1,400,593	0.128	0.013	NKX1-1	hyper
chr8	53,851,189	53,853,241	0.106	0.009	NPBWR1	hyper
chr19	1,753,636	1,754,466	0.106	0.049	ONECUT3	hyper
chr15	31,775,660	31,776,316	0.094	0.023	OTUD7A	hyper
chr14	105,780,861	105,781,331	0.167	0.048	PACS2	hyper
chr7	94,285,993	94,286,670	-0.104	0.030	PEG10	hypo
chr9	96,338,662	96,339,294	0.149	0.026	PHF2	hyper
chr22	50,355,296	50,356,831	-0.179	0.005	PIM3	hypo
chr11	400,362	400,729	0.263	0.009	PKP3	hyper
chr9	140,116,412	140,116,811	0.202	0.009	RNF208	hyper

Supplementary Table 4. Continued

Seqnames	Start	End	Beta	Pval	Gene_name	Condition
chr2	241,507,957	241,508,288	0.189	0.030	RNPEPL1	hyper
chr3	127,795,671	127,796,136	0.125	0.046	RUVBL1-AS1	hyper
chr9	139,964,409	139,964,805	0.133	0.012	SAPCD2	hyper
chr5	1,594,125	1,594,896	0.185	0.015	SDHAP3	hyper
chr3	53,079,250	53,079,767	0.178	0.017	SFMBT1	hyper
chr6	100,895,066	100,897,621	0.067	0.043	SIM1	hyper
chr20	62,679,560	62,680,033	0.120	0.048	SOX18	hyper
chr2	220,312,823	220,313,537	0.149	0.039	SPEG	hyper
chr17	45,786,298	45,786,440	0.258	0.007	TBKBP1	hyper
chr5	133,450,421	133,450,718	0.170	0.013	TCF7	hyper
chr1	29,449,155	29,449,711	-0.117	0.046	TMEM200B	hypo
chr16	1,583,712	1,584,348	-0.170	0.009	TMEM204	hypo
chr6	32,063,931	32,064,460	-0.116	0.021	TNXB	hypo
chr4	1,872,705	1,873,333	0.160	0.034	WHSC1	hyper
chr18	5,295,101	5,295,675	0.179	0.013	ZBTB14	hyper
chr19	54,057,415	54,058,039	-0.186	0.002	ZNF331	hypo
chr8	81,786,355	81,786,720	0.146	0.034	ZNF704	hyper