

**Supplemental table S1:**

439 differentially methylated CpG sites between African (AF), Caucasian (CA) and Asian (AS) individuals.

TargetID	DNA methylation			FDR	Chr.	Position	Gene	Feature	Variance	meQTL
	AF	CA	AS							
cg13549940	0.64	0.81	0.81	2.30E-12	1	6390053	ACOT7	Body	AF	yes
cg06957310	0.57	0.76	0.73	4.74E-15	17	29283870	ADAP2	Body;ncRNA promoter	AF	yes
cg20490392	0.81	0.69	0.73	2.55E-04	8	6419438	ANGPT2;MCPH1	Body;Body	AF	no
cg25350011	0.79	0.64	0.68	1.45E-04	8	6419483	ANGPT2;MCPH1	Body;Body	AF	no
cg26741686	0.69	0.78	0.82	4.46E-06	4	186318356	ANKRD37	Body	AF	yes
cg24424889	0.39	0.27	0.32	5.96E-07	22	39494175	APOBEC3H	Promoter	AF	yes
cg10435235	0.45	0.29	0.32	3.54E-06	13	111956623	ARHGEF7	3'UTR	AF	no
cg18929511	0.56	0.42	0.48	1.07E-04	8	17942993	ASAH1	Promoter	AF	yes
cg19203115	0.43	0.29	0.33	1.34E-06	18	29263741	B4GALT6	Body;ncRNA promoter	AF	no
cg27284398	0.54	0.37	0.41	2.32E-10	19	14014213	C19orf57	Body	AF	yes
cg25234359	0.48	0.33	0.37	5.53E-06	19	18699219	C19orf60	Promoter	AF	yes
cg15007983	0.38	0.26	0.27	1.66E-04	19	18699326	C19orf60	Promoter	AF	yes
cg11766577	0.61	0.72	0.80	3.97E-09	21	47581405	SPATC1L	Body	AF	yes
cg13126279	0.62	0.73	0.80	2.48E-08	21	47581558	SPATC1L	Body	AF	yes
cg14789911	0.60	0.72	0.79	4.66E-12	21	47582049	SPATC1L	Body	AF	yes
cg07747299	0.34	0.22	0.18	2.34E-07	21	47604052	SPATC1L	Promoter;ncRNA promoter	AF	yes
cg08742575	0.39	0.23	0.18	4.55E-10	21	47604166	SPATC1L	Promoter;ncRNA promoter	AF	yes
cg12016809	0.41	0.25	0.19	6.84E-09	21	47604291	SPATC1L	Promoter;ncRNA promoter	AF	yes
cg05896524	0.41	0.30	0.22	9.27E-07	21	47604654	SPATC1L	Promoter;ncRNA promoter	AF	yes
cg02578087	0.30	0.18	0.18	2.54E-04	3	8671361	C3orf32	Body	AF	no
cg13535736	0.64	0.51	0.57	2.46E-05	9	111863775	C9orf5	Body	AF	no
cg19283806	0.61	0.50	0.47	1.41E-03	18	66389420	CCDC102B	Promoter	AF	yes
cg19463256	0.81	0.67	0.72	1.22E-06	19	46915351	CCDC8	Promoter	AF	no
cg24851651	0.81	0.59	0.68	8.09E-08	11	66362959	CCS	Body	AF	yes
cg13164537	0.43	0.52	0.55	5.30E-05	18	67624071	CD226	Promoter	AF	no
cg26848442	0.59	0.68	0.71	8.40E-05	18	67624264	CD226	Promoter	AF	yes
cg23611477	0.89	0.81	0.75	4.11E-11	1	1644835	CDK11A;CDK11B	Body;Promoter	AF	yes
cg00669623	0.28	0.15	0.14	2.76E-17	1	1655867	CDK11B;CDK11A	Promoter	AF	no
cg18190219	0.55	0.67	0.70	2.10E-09	22	46762943	CELSR1	Body	AF	yes
cg17099656	0.22	0.37	0.36	4.42E-07	22	47135171	CERK	Promoter	AF	yes

cg25114630	0.16	0.03	0.03	1.23E-12	15	101792522	CHSY1	Promoter	AF	yes
cg19276111	0.43	0.55	0.49	2.33E-03	1	24229232	CNR2	Promoter	AF	no
cg17713488	0.21	0.41	0.36	3.81E-07	19	10077935	COL5A3	Body	AF	yes
cg06285241	0.30	0.20	0.15	6.56E-20	14	105944655	CRIP2	Body	AF	no
cg04329125	0.61	0.52	0.43	2.32E-07	14	105945022	CRIP2	Body	AF	no
cg27279301	0.49	0.33	0.31	6.71E-11	14	105945287	CRIP2	Body	AF	no
cg22718636	0.22	0.42	0.34	5.29E-06	4	961658	DGKQ	Body	AF	yes
cg12856521	0.38	0.24	0.22	2.62E-09	11	46389249	DGKZ	Body	AF	no
cg20291162	0.40	0.52	0.55	5.68E-07	17	40259547	DHX58	Body	AF	yes
cg02228675	0.09	0.18	0.22	5.35E-08	17	40259724	DHX58	Body	AF	yes
cg09219688	0.65	0.44	0.49	4.51E-11	10	11789383	ECHDC3	Body	AF	yes
cg02678768	0.45	0.29	0.24	2.79E-17	17	74002944	EVPL	3'UTR	AF	yes
cg17765387	0.31	0.48	0.46	1.48E-08	12	117354824	FBXW8	Body	AF	yes
cg26988138	0.62	0.53	0.49	8.46E-04	19	2639424	GNG7	Promoter	AF	no
cg26922917	0.75	0.69	0.62	1.93E-05	12	131622584	GPR133	Body	AF	no
cg09408571	0.59	0.66	0.75	5.84E-07	1	101003634	GPR88	Promoter	AF	yes
cg09796376	0.29	0.17	0.14	2.63E-28	20	30640595	HCK	Body	AF	yes
cg20408074	0.42	0.35	0.28	2.66E-07	6	31325817	HLA-B	Promoter	AF	no
cg00620824	0.39	0.32	0.24	6.51E-08	6	31240784	HLA-C	Promoter	AF	no
cg24918767	0.40	0.25	0.28	8.94E-09	4	88297189	HSD17B11	Body	AF	no
cg06546677	0.50	0.66	0.66	1.25E-05	8	145537504	HSF1	Body;ncRNA promoter	AF	yes
cg11132204	0.71	0.81	0.84	1.63E-07	11	9405884	IPO7	Promoter	AF	yes
cg02817932	0.34	0.49	0.64	1.80E-17	16	85683584	KIAA0182	Body	AF	yes
cg06935979	0.62	0.48	0.46	1.01E-06	1	232941706	KIAA1383	Promoter	AF	yes
cg00951395	0.49	0.32	0.33	7.12E-09	1	232941775	KIAA1383	Promoter	AF	yes
cg19368911	0.61	0.70	0.75	1.01E-07	1	245541456	KIF26B	Body	AF	no
cg02592271	0.62	0.69	0.74	2.43E-05	2	27665507	KRTCAP3	Body	AF	no
cg14781242	0.66	0.81	0.84	9.37E-14	1	32738251	LCK	Promoter	AF	yes
cg01201279	0.50	0.64	0.78	5.46E-17	3	156543471	LEKR1	Promoter	AF	yes
cg15260248	0.72	0.81	0.86	2.14E-07	3	189829092	LEPREL1	Promoter	AF	yes
cg11036041	0.45	0.29	0.29	2.50E-13	4	41365307	LIMCH1	Body	AF	no
cg22961457	0.39	0.31	0.25	3.40E-06	20	62370310	LIME1;SLC2A4RG	3'UTR;Promoter	AF	no
cg15544633	0.07	0.15	0.22	2.79E-13	2	99771531	LIPT1	Promoter	AF	yes
cg27084952	0.41	0.54	0.52	3.69E-21	16	980146	LMF1	Body	AF	yes
cg06722407	0.45	0.53	0.58	5.68E-05	13	19918586	LOC100101938	Body;ncRNA promoter	AF	no
cg16172923	0.59	0.67	0.75	8.70E-07	7	1883390	MAD1L1	Body;ncRNA promoter	AF	no
cg16658412	0.47	0.57	0.63	9.76E-07	7	1883420	MAD1L1	Body;ncRNA promoter	AF	no

cg05095590	0.26	0.37	0.38	2.46E-03	7	2139259	MAD1L1	Body	AF	no
cg14926196	0.45	0.61	0.62	3.50E-07	6	37616482	MDGA1	Body	AF	yes
cg24796644	0.37	0.51	0.55	9.72E-06	6	37617956	MDGA1	Body	AF	yes
cg02493602	0.46	0.37	0.34	2.38E-03	11	86383696	ME3	Promoter	AF	no
cg08471713	0.50	0.39	0.33	1.07E-06	17	41738893	MEOX1	Promoter	AF	yes
cg19478698	0.74	0.59	0.64	1.91E-09	3	195530151	MUC4	Body	AF	yes
cg11440486	0.84	0.69	0.58	7.67E-17	17	48585216	MYCBPAP	Promoter;ncRNA promoter	AF	yes
cg00901687	0.88	0.67	0.56	1.85E-25	17	48585270	MYCBPAP	Promoter;ncRNA promoter	AF	yes
cg12235788	0.29	0.14	0.17	2.73E-12	3	123476518	MYLK	Body	AF	yes
cg21667061	0.53	0.45	0.40	3.81E-04	15	60772094	NARG2	Promoter;ncRNA promoter	AF	no
cg09829573	0.66	0.58	0.53	8.38E-14	1	144692074	NBPF9	Body	AF	no
cg12425861	0.28	0.11	0.11	2.32E-20	14	105830606	PACS2	Body	AF	yes
cg18397450	0.33	0.12	0.13	3.96E-22	14	105830631	PACS2	Body	AF	yes
cg19499452	0.23	0.04	0.06	6.01E-22	14	105830721	PACS2	Body	AF	yes
cg18912855	0.22	0.03	0.05	4.92E-22	14	105830859	PACS2	Body	AF	yes
cg15948536	0.46	0.28	0.35	8.76E-09	4	169770092	PALLD	Promoter	AF	yes
cg06103394	0.28	0.09	0.09	4.84E-16	16	3018991	PAQR4	Promoter	AF	yes
cg22681709	0.44	0.27	0.28	1.86E-09	2	178499509	PDE11A	Body	AF	yes
cg08900409	0.49	0.62	0.59	1.02E-04	19	18475669	PGPEP1	3'UTR	AF	yes
cg12091331	0.58	0.70	0.75	7.33E-08	8	42065314	PLAT	Promoter	AF	no
cg06064179	0.76	0.88	0.88	1.22E-11	17	62829976	PLEKHM1P	Body	AF	no
cg25120325	0.78	0.70	0.65	6.96E-09	10	118380370	PNLIPRP2	Promoter	AF	yes
cg11609571	0.44	0.51	0.56	1.26E-03	5	145215629	PRELID2	Promoter	AF	yes
cg22410499	0.43	0.30	0.30	6.50E-05	9	33749216	PRSS3	Promoter	AF	yes
cg10599438	0.43	0.35	0.29	3.09E-03	19	844589	PRTN3	Body	AF	yes
cg04520948	0.20	0.04	0.08	1.93E-13	3	184016710	PSMD2	Promoter	AF	yes
cg00632811	0.53	0.43	0.38	4.52E-05	12	108078821	PWP1	Promoter	AF	yes
cg25345738	0.61	0.48	0.41	6.40E-07	12	108078835	PWP1	Promoter	AF	yes
cg12092579	0.38	0.23	0.29	2.07E-06	1	178380975	RASAL2	Body	AF	no
cg08896939	0.19	0.30	0.35	2.23E-07	17	29297380	RNF135	Promoter	AF	yes
cg04193820	0.15	0.28	0.29	4.15E-08	17	29297414	RNF135	Promoter	AF	yes
cg13458384	0.58	0.48	0.46	1.08E-06	9	136567339	SARDH	Body	AF	yes
cg00101728	0.40	0.56	0.54	1.36E-07	6	2953027	SERPINB6	Body	AF	yes
cg14150973	0.20	0.09	0.06	3.89E-21	19	40950431	SERTAD3	Promoter	AF	yes
cg01448863	0.62	0.49	0.55	3.58E-10	14	70264043	SLC10A1	Promoter	AF	no
cg21088438	0.61	0.48	0.52	3.23E-06	14	70264869	SLC10A1	Promoter	AF	yes
cg05964212	0.48	0.35	0.39	5.53E-07	3	48936979	SLC25A20	Promoter	AF	no

cg11146691	0.38	0.46	0.50	1.71E-02	12	47219737	SLC38A4	Promoter	AF	yes
cg24940967	0.66	0.51	0.57	1.12E-03	3	45837197	SLC6A20	Body	AF	no
cg13375589	0.50	0.57	0.62	3.02E-03	17	4487125	SMTNL2	Promoter	AF	yes
cg20729813	0.76	0.64	0.66	3.68E-05	4	7502429	SORCS2	Body	AF	no
cg06712013	0.60	0.45	0.48	2.24E-05	12	49759545	SPATS2	Promoter	AF	no
cg18872420	0.62	0.75	0.85	4.57E-12	14	78023429	SPTLC2	Body	AF	yes
cg23433370	0.59	0.52	0.46	3.82E-03	12	27396894	STK38L	Promoter	AF	yes
cg06008345	0.48	0.35	0.39	1.44E-10	10	71176719	TACR2	Promoter	AF	yes
cg00810292	0.49	0.65	0.62	6.84E-05	13	75900518	TBC1D4	Body	AF	yes
cg07189381	0.45	0.34	0.33	1.64E-06	19	55660514	TNNT1	Promoter	AF	no
cg24699670	0.33	0.22	0.21	1.24E-07	19	55660614	TNNT1	Promoter	AF	yes
cg10218876	0.41	0.24	0.24	3.70E-09	19	55660625	TNNT1	Promoter	AF	yes
cg12970512	0.66	0.52	0.53	6.72E-05	14	103251610	TRAF3	Promoter	AF	no
cg20916523	0.50	0.42	0.34	1.19E-03	3	10184584	VHL	Body;ncRNA promoter	AF	yes
cg02750262	0.50	0.41	0.35	1.01E-06	18	72916776	ZADH2	Body	AF	yes
cg10197305	0.21	0.14	0.07	5.02E-07	4	125112	ZNF718	Body;ncRNA promoter	AF	no
cg03396347	0.73	0.60	0.61	1.08E-05	1	1875803			AF	yes
cg02251754	0.50	0.29	0.18	3.50E-20	1	28572299			AF	yes
cg02193146	0.64	0.79	0.76	6.37E-06	1	110752257		ncRNA promoter	AF	no
cg23915527	0.50	0.36	0.39	2.45E-05	1	161368787			AF	yes
cg21868798	0.36	0.30	0.24	3.09E-05	1	199481399			AF	yes
cg20240347	0.46	0.31	0.35	1.72E-04	1	204465584			AF	yes
cg16450677	0.29	0.17	0.19	8.75E-08	2	70312492			AF	yes
cg12391643	0.38	0.46	0.54	3.35E-05	2	85316997			AF	yes
cg22111694	0.70	0.50	0.44	1.29E-30	2	91758369			AF	yes
cg04722349	0.62	0.55	0.49	2.90E-14	2	133090251			AF	yes
cg14898223	0.56	0.43	0.49	1.17E-04	2	190447407			AF	no
cg23555395	0.60	0.38	0.41	6.45E-22	2	238036564			AF	yes
cg16415457	0.56	0.49	0.44	3.55E-06	3	23713441			AF	yes
cg00315563	0.39	0.20	0.27	3.03E-08	3	182243039			AF	yes
cg03307177	0.41	0.52	0.53	6.08E-04	3	196347230			AF	yes
cg12367833	0.68	0.82	0.84	1.52E-12	4	42764094			AF	yes
cg16301894	0.77	0.61	0.68	1.25E-06	4	129389744			AF	yes
cg27586797	0.38	0.52	0.65	5.22E-07	5	13664584			AF	yes
cg10680621	0.32	0.25	0.19	2.62E-06	5	139069449			AF	no
cg08951638	0.50	0.41	0.36	8.07E-06	5	141706213			AF	no
cg19318364	0.64	0.72	0.80	4.75E-18	6	55774999			AF	yes

cg25753473	0.28	0.16	0.16	2.38E-07	6	170532835			AF	no
cg12575883	0.40	0.32	0.23	1.50E-08	7	1003710			AF	yes
cg15679892	0.54	0.66	0.66	1.53E-06	7	1267057			AF	yes
cg04462931	0.77	0.63	0.66	1.37E-06	7	64300061			AF	no
cg25332918	0.79	0.65	0.68	1.32E-05	7	158766061			AF	yes
cg00154902	0.35	0.42	0.47	4.43E-05	8	1245703			AF	yes
cg22816462	0.79	0.91	0.91	9.08E-06	8	6633067			AF	yes
cg00923880	0.59	0.49	0.42	5.47E-06	8	19613178			AF	yes
cg07964753	0.72	0.87	0.82	1.76E-07	8	142112622			AF	yes
cg17903548	0.59	0.49	0.45	7.26E-07	8	142401534			AF	yes
cg26466789	0.45	0.24	0.28	2.04E-13	8	144437314			AF	yes
cg23244022	0.52	0.22	0.27	1.31E-15	8	144437350			AF	yes
cg22123784	0.73	0.50	0.58	4.49E-12	8	144437507			AF	no
cg14157578	0.43	0.55	0.52	1.39E-03	9	110764967			AF	yes
cg13544455	0.68	0.78	0.81	9.46E-13	9	139496083		ncRNA promoter	AF	yes
cg25705717	0.27	0.20	0.12	1.85E-09	10	27608719			AF	yes
cg06749524	0.30	0.48	0.51	8.49E-21	10	111152929			AF	yes
cg16777618	0.58	0.50	0.45	5.58E-04	11	128694184			AF	yes
cg05694021	0.56	0.43	0.48	2.89E-04	12	19699504			AF	no
cg25134647	0.74	0.52	0.50	1.61E-07	12	25454990			AF	yes
cg00557959	0.61	0.69	0.75	3.71E-05	13	113296414			AF	yes
cg13252730	0.50	0.35	0.40	4.89E-05	14	22975486			AF	yes
cg17311865	0.47	0.27	0.35	1.17E-05	14	22975521			AF	yes
cg05499111	0.52	0.64	0.70	5.63E-16	15	27902080			AF	no
cg25508830	0.43	0.28	0.31	5.01E-06	15	100893944			AF	yes
cg04381865	0.83	0.67	0.73	1.22E-06	16	15219673			AF	yes
cg04506728	0.74	0.82	0.87	7.53E-08	16	53407722		ncRNA promoter	AF	no
cg04042333	0.84	0.76	0.71	1.62E-04	17	1104665			AF	no
cg02352716	0.69	0.60	0.52	6.57E-09	17	1104805			AF	yes
cg05200811	0.51	0.59	0.67	2.70E-08	21	47581042			AF	yes
cg00147172	0.69	0.60	0.54	1.47E-07	22	46423604			AF	no
cg08979191	0.56	0.72	0.56	8.77E-07	5	132113734	SEPT8	Promoter	CA	yes
cg24951781	0.54	0.69	0.57	3.32E-07	5	132114055	SEPT8	Promoter	CA	yes
cg18912768	0.58	0.44	0.56	3.16E-09	2	169887819	ABCB11	Promoter	CA	no
cg21351392	0.73	0.59	0.70	1.63E-06	6	161607487	AGPAT4	Body	CA	yes
cg02107279	0.43	0.29	0.41	4.55E-06	5	14870749	ANKH	Body	CA	yes
cg13286116	0.61	0.46	0.55	1.46E-04	11	13302098	ARNTL	Promoter	CA	yes

cg07314988	0.70	0.59	0.78	7.64E-09	11	289774	ATHL1	Promoter;ncRNA promoter	CA	yes
cg10261205	0.85	0.72	0.89	1.59E-13	11	289927	ATHL1	Body;ncRNA promoter	CA	yes
cg06556497	0.57	0.49	0.62	3.94E-04	18	76828521	ATP9B	Promoter	CA	no
cg14170999	0.75	0.62	0.75	6.02E-05	17	79380515	BAHCC1	Body	CA	yes
cg08208480	0.27	0.38	0.19	3.26E-07	11	1413093	BRSK2	Body	CA	yes
cg15465743	0.56	0.66	0.47	4.02E-07	11	1413145	BRSK2	Body	CA	yes
cg16062483	0.77	0.65	0.77	1.63E-07	14	98444417	C14orf64	Body	CA	no
cg20744362	0.59	0.73	0.60	1.19E-04	22	50050164	C22orf34	Body	CA	yes
cg06204040	0.75	0.88	0.81	1.03E-05	16	89037481	CBFA2T3	Body	CA	yes
cg04850148	0.76	0.61	0.74	3.66E-06	17	34539744	CCL4L2	Body	CA	no
cg04524040	0.49	0.35	0.44	1.18E-07	19	4153364	CREB3L3	Promoter	CA	yes
cg14839256	0.40	0.26	0.33	8.37E-08	8	7332851	DEFB104B	Promoter	CA	no
cg19400179	0.56	0.48	0.63	7.88E-07	3	108321607	DZIP3	Promoter	CA	yes
cg25075347	0.46	0.34	0.47	1.17E-07	6	133731801	EYA4	Body	CA	yes
cg10833066	0.55	0.39	0.64	1.05E-16	12	111807467	FAM109A	Promoter;ncRNA promoter	CA	yes
cg16794471	0.62	0.50	0.59	3.30E-05	2	153271840	FMNL2	Body	CA	no
cg07753967	0.33	0.22	0.35	6.42E-04	20	29611652	FRG1B	Promoter	CA	no
cg14815891	0.36	0.25	0.38	2.05E-03	20	29611903	FRG1B	Body	CA	no
cg26984593	0.50	0.37	0.51	6.25E-08	10	14051636	FRMD4A	Body	CA	yes
cg08734931	0.50	0.37	0.51	3.05E-08	10	14051649	FRMD4A	Body	CA	yes
cg02284273	0.52	0.38	0.55	2.74E-07	10	14051679	FRMD4A	Body	CA	yes
cg03179435	0.34	0.22	0.35	4.86E-06	10	14051821	FRMD4A	Body	CA	yes
cg05517541	0.61	0.41	0.57	2.03E-12	6	112115209	FYN	Promoter	CA	no
cg26846943	0.69	0.54	0.67	2.29E-05	6	112165062	FYN	Promoter	CA	no
cg01190989	0.56	0.46	0.58	1.96E-06	4	22502077	GPR125	Body	CA	no
cg25772418	0.58	0.40	0.56	3.71E-09	12	131519998	GPR133	Body;ncRNA promoter	CA	yes
cg06611426	0.60	0.49	0.62	6.93E-07	12	52404161	GRASP	Body	CA	no
cg22138327	0.21	0.15	0.28	1.93E-09	13	27999177	GTF3A	Body	CA	yes
cg26038582	0.69	0.57	0.64	1.73E-02	1	42384390	HIVEP3	Promoter	CA	no
cg12858166	0.54	0.75	0.39	7.97E-15	6	33033176	HLA-DPA1	3'UTR	CA	yes
cg13661648	0.58	0.78	0.43	2.46E-16	6	33035284	HLA-DPA1	3'UTR	CA	yes
cg17294865	0.57	0.79	0.55	8.22E-07	6	33050124	HLA-DPA1	Promoter	CA	yes
cg15138289	0.45	0.63	0.45	1.76E-06	6	33051749	HLA-DPB1	Body	CA	yes
cg25057035	0.57	0.68	0.53	7.61E-10	6	33053889	HLA-DPB1	Body	CA	yes
cg04006133	0.62	0.47	0.58	4.09E-06	16	84172431	HSDL1	Promoter	CA	no
cg24426391	0.46	0.35	0.48	1.91E-08	11	20384886	HTATIP2	Promoter	CA	yes
cg18150584	0.57	0.50	0.64	6.28E-04	1	23887816	ID3	Promoter	CA	no

cg10967866	0.59	0.46	0.53	1.08E-04	10	134362164	INPP5A	Body	CA	no
cg21341645	0.53	0.44	0.62	8.29E-11	7	155091523	INSIG1	Body	CA	yes
cg22000984	0.51	0.37	0.50	7.84E-10	5	150226278	IRGM	Promoter	CA	yes
cg00862290	0.35	0.41	0.28	5.70E-04	3	178984973	KCNMB3	Promoter	CA	yes
cg01017257	0.57	0.48	0.61	3.62E-05	1	15059738	KIAA1026	Body;Body	CA	yes
cg16558994	0.30	0.21	0.36	2.37E-05	1	21023132	KIF17	Body	CA	yes
cg14018024	0.55	0.45	0.57	5.73E-05	9	133908909	LAMC3	Body	CA	no
cg00378510	0.29	0.21	0.35	2.45E-06	19	2291020	LINGO3	Body	CA	yes
cg02713669	0.41	0.32	0.45	1.16E-05	2	109746691	LOC100287216;SH3RF3	ncRNA promoter;Body	CA	no
cg25308803	0.69	0.59	0.73	5.24E-08	2	109746735	LOC100287216;SH3RF3	ncRNA promoter;Body	CA	yes
cg03846641	0.70	0.57	0.73	2.41E-08	2	109746751	LOC100287216;SH3RF3	ncRNA promoter;Body	CA	yes
cg07548255	0.69	0.59	0.71	1.84E-06	2	109746754	LOC100287216;SH3RF3	ncRNA promoter ;Body	CA	yes
cg17179862	0.60	0.48	0.54	1.20E-02	17	46681362	LOC404266;HOXB6	Body;Promoter	CA	no
cg24610854	0.48	0.31	0.45	1.27E-08	5	130510020	LYRM7	Body	CA	yes
cg07737292	0.75	0.66	0.86	3.99E-07	16	56892460	MIR138-2	Body;ncRNA promoter	CA	yes
cg17129188	0.67	0.60	0.72	2.33E-07	8	134307597	NDRG1	Promoter	CA	no
cg08651937	0.80	0.67	0.82	5.29E-10	3	156530506	PA2G4P4	Promoter	CA	no
cg24169315	0.65	0.49	0.65	1.13E-05	2	242048359	PASK	Body	CA	yes
cg01042202	0.65	0.57	0.69	4.36E-07	5	140242159	PCDHA (cluster)	Body	CA	yes
cg17165241	0.65	0.76	0.63	2.74E-05	11	400385	PKP3	Body	CA	yes
cg18222590	0.41	0.35	0.48	1.21E-10	1	204290972	PLEKHA6	Promoter	CA	yes
cg17178900	0.28	0.50	0.24	2.76E-10	1	205818956	PM20D1	Body	CA	yes
cg26354017	0.31	0.50	0.28	1.98E-08	1	205819088	PM20D1	Promoter	CA	yes
cg14159672	0.30	0.48	0.26	5.54E-11	1	205819179	PM20D1	Promoter	CA	yes
cg14893161	0.26	0.38	0.22	2.00E-11	1	205819251	PM20D1	Promoter	CA	yes
cg11965913	0.15	0.30	0.11	9.61E-14	1	205819406	PM20D1	Promoter	CA	yes
cg24503407	0.25	0.43	0.21	1.11E-13	1	205819492	PM20D1	Promoter	CA	yes
cg07157834	0.33	0.46	0.28	2.78E-09	1	205819609	PM20D1	Promoter	CA	yes
cg24499605	0.45	0.32	0.43	1.76E-14	1	3142925	PRDM16	Body	CA	no
cg10761639	0.74	0.84	0.69	1.09E-17	1	2023794	PRKCZ	Promoter	CA	yes
cg11821200	0.54	0.42	0.51	2.37E-06	5	40685989	PTGER4	Body	CA	no
cg18311871	0.51	0.43	0.59	2.48E-09	7	157754600	PTPRN2	Body	CA	yes
cg06715136	0.61	0.55	0.68	3.33E-04	7	158046025	PTPRN2	Body	CA	yes
cg06400119	0.47	0.38	0.51	8.89E-05	7	158046222	PTPRN2	Body	CA	yes
cg18112681	0.62	0.47	0.55	1.79E-06	11	63303399	RARRES3	Promoter	CA	no
cg10631373	0.41	0.29	0.36	2.25E-04	1	89457642	RBMXL1;CCBL2	Promoter;Promoter	CA	yes
cg14227325	0.53	0.36	0.46	2.64E-06	2	113190197	RGPD8	Body	CA	yes

cg05302531	0.50	0.62	0.55	1.77E-05	7	101936362	SH2B2	Body;ncRNA promoter	CA	no
cg10259889	0.56	0.72	0.63	8.19E-06	7	101936430	SH2B2	Body;ncRNA promoter	CA	no
cg05256304	0.33	0.41	0.29	1.02E-03	11	116969870	SIK3	Promoter;ncRNA promoter	CA	no
cg19980771	0.30	0.44	0.32	4.66E-03	6	110798022	SLC22A16	Promoter;ncRNA promoter	CA	yes
cg17132030	0.32	0.24	0.38	4.23E-10	19	17599784	SLC27A1	Body	CA	yes
cg03258139	0.66	0.58	0.72	1.91E-06	9	2013970	SMARCA2	Promoter	CA	no
cg04134399	0.28	0.15	0.28	9.18E-09	1	246231142	SMYD3	Body	CA	no
cg21523688	0.56	0.80	0.62	7.68E-21	15	45319037	SORD	Body	CA	yes
cg11861562	0.66	0.74	0.62	2.69E-05	11	117069780	TAGLN	Promoter	CA	yes
cg16524733	0.49	0.62	0.48	2.62E-06	11	117070046	TAGLN	Promoter	CA	yes
cg09566995	0.62	0.50	0.57	1.13E-03	11	1320634	TOLLIP	Body	CA	no
cg18786374	0.55	0.46	0.59	7.68E-05	2	202313532	TRAK2	Promoter	CA	no
cg07144255	0.77	0.87	0.70	2.29E-10	2	3323078	TSSC1	Body	CA	yes
cg17205313	0.53	0.37	0.60	1.27E-11	18	21572748	TTC39C	Promoter	CA	yes
cg12407057	0.81	0.65	0.85	2.38E-17	1	1366206		ncRNA promoter	CA	no
cg10760651	0.48	0.37	0.50	1.06E-04	1	86968184			CA	yes
cg02889973	0.46	0.39	0.51	3.25E-04	1	234977572			CA	no
cg00967073	0.50	0.43	0.57	4.64E-06	1	244443687			CA	no
cg11807280	0.48	0.36	0.45	5.38E-07	2	66654644			CA	no
cg22068400	0.27	0.48	0.27	7.47E-10	2	90016264			CA	yes
cg12697337	0.43	0.67	0.43	3.36E-09	2	90016302			CA	no
cg09455823	0.63	0.51	0.72	6.10E-13	2	201606912			CA	yes
cg08439880	0.64	0.50	0.60	2.12E-06	3	133502540			CA	yes
cg04181038	0.27	0.34	0.22	1.96E-04	4	183730758			CA	yes
cg06834916	0.51	0.39	0.48	6.31E-05	5	95610			CA	no
cg21594278	0.30	0.23	0.36	2.59E-07	5	72815513			CA	yes
cg08355045	0.38	0.26	0.41	2.29E-08	6	80787529			CA	yes
cg07095347	0.47	0.33	0.42	2.58E-06	6	133253256			CA	yes
cg07185983	0.49	0.63	0.42	3.25E-10	6	139012860		ncRNA promoter	CA	yes
cg15288329	0.54	0.41	0.53	2.39E-07	6	170268691			CA	no
cg10312186	0.41	0.28	0.37	1.38E-05	6	170403583			CA	no
cg04804717	0.60	0.51	0.64	9.79E-07	7	1300320			CA	no
cg07234876	0.72	0.85	0.75	1.07E-04	8	600039			CA	yes
cg23336892	0.39	0.31	0.45	1.06E-08	10	57361919			CA	yes
cg09033333	0.51	0.41	0.56	5.62E-10	10	133892406			CA	no
cg20731937	0.45	0.26	0.39	3.18E-09	12	48336164			CA	yes
cg00792968	0.44	0.36	0.50	1.69E-04	13	22635873			CA	yes



cg20515423	0.62	0.50	0.63	4.72E-05	14	34385840			CA	no
cg21484985	0.73	0.80	0.67	2.21E-03	14	70690525		ncRNA promoter	CA	yes
cg19865237	0.44	0.31	0.39	5.29E-04	14	104690244		ncRNA promoter	CA	yes
cg25228737	0.67	0.57	0.70	2.08E-11	15	82234347			CA	no
cg08194009	0.40	0.27	0.36	3.27E-05	17	25707428			CA	no
cg22127848	0.70	0.59	0.71	2.34E-09	17	64295986			CA	no
cg26843498	0.51	0.42	0.58	2.24E-07	19	2361574			CA	yes
cg08931129	0.44	0.31	0.44	4.75E-05	20	29535007			CA	no
cg00157199	0.54	0.40	0.51	9.28E-04	20	29551622			CA	yes
cg10356904	0.77	0.62	0.76	1.43E-08	22	49881777			CA	yes
cg14507445	0.80	0.66	0.80	4.27E-10	22	49886340			CA	yes
cg05729745	0.58	0.42	0.56	4.23E-06	22	49937644		ncRNA promoter	CA	yes
cg26279745	0.41	0.35	0.50	6.63E-06	14	24801970	ADCY4	Body	AS	no
cg06758191	0.83	0.84	0.53	2.52E-21	4	7812988	AFAP1	Body	AS	yes
cg10645314	0.58	0.54	0.75	1.18E-07	2	3704589	ALLC	Promoter	AS	yes
cg20090290	0.41	0.39	0.54	7.86E-07	11	46543695	AMBRA1	Body	AS	no
cg21175976	0.35	0.33	0.46	6.62E-07	8	11421337	BLK	Body	AS	yes
cg17658113	0.62	0.57	0.46	2.87E-06	11	1413282	BRSK2	Body	AS	yes
cg12064373	0.43	0.40	0.55	5.47E-07	11	1457153	BRSK2	Body	AS	yes
cg01338139	0.51	0.49	0.63	4.42E-17	15	38987640	C15orf53	Promoter	AS	yes
cg09033006	0.40	0.46	0.22	5.74E-19	1	244517177	C1orf100	Promoter	AS	yes
cg06917450	0.29	0.27	0.54	2.31E-16	1	38156652	C1orf109	Promoter	AS	yes
cg06937882	0.50	0.47	0.60	8.88E-04	20	24974362	C20orf3	Promoter	AS	no
cg05486191	0.45	0.40	0.32	1.72E-08	7	5937190	C7orf28A	Promoter	AS	no
cg11070193	0.65	0.64	0.80	2.21E-06	1	26527870	CATSPER4	Body	AS	yes
cg20415053	0.54	0.62	0.74	1.60E-05	1	26527928	CATSPER4	Body	AS	yes
cg05275595	0.59	0.59	0.44	7.01E-08	19	43857874	CD177	Promoter	AS	yes
cg02792829	0.54	0.60	0.42	6.51E-13	15	40762807	CHST14	Promoter	AS	no
cg01962183	0.51	0.56	0.65	2.29E-07	16	1507866	CLCN7	Body	AS	no
cg04385420	0.73	0.77	0.63	1.28E-09	16	85816991	COX4NB	Body;ncRNA promoter	AS	yes
cg19112186	0.77	0.72	0.65	6.95E-05	22	51016638	CPT1B	Promoter	AS	yes
cg21156386	0.74	0.74	0.87	2.20E-06	11	692983	DEAF1	Body	AS	yes
cg02963119	0.33	0.28	0.41	2.52E-04	16	450970	DECR2	Promoter	AS	no
cg12014181	0.68	0.66	0.79	6.31E-05	10	729479	DIP2C	Body	AS	yes
cg10804726	0.13	0.16	0.26	9.14E-15	17	72270433	DNAI2	Promoter	AS	yes
cg21181453	0.65	0.71	0.54	2.60E-08	9	130700954	DPM2	Promoter;ncRNA promoter	AS	yes
cg12807187	0.60	0.65	0.53	1.91E-05	3	71778392	EIF4E3	Promoter	AS	no

cg13298116	0.29	0.33	0.19	2.08E-04	11	62369859	EML3;MTA2	3'UTR;Promoter	AS	no
cg06737308	0.36	0.40	0.51	3.17E-06	4	185021514	ENPP6	Body	AS	yes
cg04850659	0.31	0.26	0.40	1.05E-08	1	17019133	ESPNP	Body	AS	no
cg01061164	0.74	0.78	0.63	8.99E-18	6	170686343	FAM120B	Body	AS	yes
cg22621161	0.70	0.75	0.84	2.91E-13	10	116654257	FAM160B1	Body	AS	yes
cg12239580	0.53	0.49	0.62	1.29E-04	3	43073058	FAM198A	Body	AS	yes
cg10157098	0.52	0.53	0.64	1.11E-05	7	128354967	FAM71F1	Promoter	AS	yes
cg06791446	0.60	0.62	0.74	1.52E-08	10	123355268	FGFR2	Promoter	AS	yes
cg02210151	0.52	0.54	0.66	8.64E-08	10	123356041	FGFR2	Promoter	AS	yes
cg01493009	0.80	0.88	0.70	1.13E-15	13	41186645	FOXO1	Body	AS	yes
cg10760299	0.60	0.58	0.70	2.56E-04	15	45669010	GATM	Body	AS	no
cg04879348	0.71	0.68	0.51	2.61E-30	2	109124576	GCC2	3'UTR	AS	yes
cg06223162	0.30	0.38	0.53	5.65E-08	1	101003688	GPR88	Promoter	AS	yes
cg25210835	0.25	0.28	0.46	2.81E-09	1	110254828	GSTM5	Promoter	AS	yes
cg17005068	0.57	0.54	0.70	1.44E-08	22	24384525	GSTT1	Promoter	AS	yes
cg23914842	0.32	0.39	0.50	1.21E-07	1	9327170	H6PD	3'UTR	AS	yes
cg08309069	0.63	0.58	0.45	8.27E-08	6	31240651	HLA-C	Promoter	AS	no
cg07075026	0.36	0.44	0.55	4.35E-06	17	47091521	IGF2BP1	Body;ncRNA promoter	AS	yes
cg10950924	0.39	0.47	0.56	2.41E-07	17	47092072	IGF2BP1	Body;ncRNA promoter	AS	yes
cg18128536	0.47	0.53	0.62	1.45E-04	17	47092178	IGF2BP1	Body;ncRNA promoter	AS	yes
cg11783901	0.24	0.28	0.36	2.81E-09	17	47102000	IGF2BP1	Body	AS	yes
cg13897122	0.48	0.45	0.58	1.43E-05	2	103039542	IL18RAP	Promoter	AS	no
cg15021238	0.48	0.45	0.57	1.82E-07	2	173305865	ITGA6	Body	AS	no
cg18346707	0.50	0.45	0.34	1.07E-07	2	231732249	ITM2C	Body	AS	yes
cg09359103	0.45	0.41	0.22	7.67E-15	1	154839909	KCNN3	Body	AS	yes
cg27626185	0.47	0.46	0.24	4.94E-35	17	73056755	KCTD2	Body	AS	yes
cg18428193	0.64	0.67	0.76	7.87E-06	2	27665017	KRTCAP3	Promoter	AS	no
cg24768116	0.51	0.57	0.66	3.50E-06	2	27665128	KRTCAP3	Promoter	AS	no
cg12000995	0.47	0.54	0.66	4.83E-07	2	27665139	KRTCAP3	Promoter	AS	no
cg12648201	0.50	0.57	0.67	9.27E-07	2	27665141	KRTCAP3	Promoter	AS	no
cg21248554	0.51	0.56	0.67	5.10E-07	2	27665150	KRTCAP3	Promoter	AS	yes
cg16393899	0.48	0.43	0.33	1.37E-04	6	5136301	LYRM4	Body	AS	yes
cg25814293	0.31	0.36	0.44	3.70E-04	7	1883251	MAD1L1	Body;ncRNA promoter	AS	no
cg20290983	0.19	0.16	0.28	9.26E-11	6	43655470	MRPS18A	Promoter	AS	no
cg00574513	0.44	0.40	0.53	4.59E-19	3	123417080	MYLK	Body	AS	yes
cg08017634	0.38	0.33	0.49	4.47E-10	8	144659831	NAPRT1	Body;ncRNA promoter	AS	yes
cg06860422	0.37	0.43	0.29	2.22E-06	16	788079	NARFL	Body	AS	no

cg00755546	0.17	0.23	0.33	2.55E-07	1	19971792	NBL1	Promoter	AS	yes
cg09226051	0.42	0.40	0.30	4.03E-03	1	247611502	NLRP3	Body	AS	yes
cg11787167	0.44	0.36	0.24	8.11E-09	14	33407370	NPAS3	Promoter	AS	yes
cg14654471	0.91	0.89	0.75	3.57E-14	1	5937169	NPHP4	Body	AS	yes
cg05348875	0.55	0.56	0.67	4.46E-06	2	206628625	NRP2	Body;ncRNA promoter	AS	no
cg14157435	0.55	0.58	0.71	3.42E-05	2	206628692	NRP2	Body;ncRNA promoter	AS	no
cg15964132	0.88	0.85	0.76	9.20E-07	11	3175636	OSBPL5	Promoter	AS	yes
cg20511548	0.43	0.48	0.56	8.03E-06	11	3178322	OSBPL5	Promoter	AS	yes
cg04757492	0.55	0.50	0.42	2.63E-07	8	145003862	PLEC1	Body	AS	yes
cg00095688	0.62	0.66	0.52	1.24E-05	1	2003864	PRKCZ	Promoter	AS	no
cg26689483	0.37	0.39	0.26	3.64E-05	4	17513197	QDPR	Body	AS	no
cg02780029	0.40	0.38	0.50	1.80E-06	10	43622663	RET;RET	Body;3'UTR	AS	yes
cg02673002	0.73	0.69	0.60	2.91E-06	11	74459317	RNF169	Promoter	AS	yes
cg17766305	0.25	0.20	0.32	6.68E-05	10	90147030	RNLS	Body	AS	no
cg25841625	0.39	0.34	0.46	1.17E-06	4	77119588	SCARB2	Body	AS	no
cg16034991	0.82	0.83	0.67	3.55E-08	19	52146598	SIGLEC14	3'UTR	AS	yes
cg09488502	0.46	0.49	0.35	1.05E-11	19	52134289	SIGLEC5	Promoter	AS	yes
cg04798314	0.51	0.66	0.84	2.26E-13	1	246668601	SMYD3	Body	AS	yes
cg15293181	0.77	0.77	0.64	1.69E-12	2	1166311	SNTG2	Body	AS	yes
cg26924012	0.18	0.17	0.31	5.83E-23	15	45694286	SPATA5L1	Promoter;ncRNA promoter	AS	yes
cg01286930	0.38	0.41	0.52	1.61E-06	2	54783773	SPTBN1	Body	AS	yes
cg02927682	0.37	0.40	0.49	1.75E-03	1	54844424	SSBP3	Body	AS	yes
cg01996567	0.41	0.48	0.56	9.40E-05	7	149484880	SSPO	Body	AS	no
cg12289045	0.55	0.53	0.66	1.26E-06	19	51141361	SYT3	Promoter	AS	yes
cg23472400	0.87	0.82	0.70	2.87E-15	7	99704848	TAF6	3'UTR	AS	yes
cg16590012	0.84	0.85	0.62	2.73E-29	1	1265354	TAS1R3	Promoter	AS	yes
cg04995717	0.63	0.59	0.49	4.20E-05	9	27109293	TEK	Promoter	AS	yes
cg22824376	0.12	0.17	0.24	8.22E-15	14	77648248	TMEM63C	Promoter	AS	yes
cg03497872	0.62	0.60	0.38	1.55E-18	16	1275895	TPSG1	Promoter	AS	yes
cg20511966	0.91	0.90	0.77	1.35E-14	8	141361266	TRAPPC9	Body	AS	yes
cg07973162	0.60	0.56	0.35	8.44E-17	4	69435250	UGT2B17	Promoter	AS	no
cg05554000	0.73	0.71	0.61	6.88E-04	7	158905015	VIPR2	Body	AS	yes
cg13444538	0.70	0.68	0.57	1.51E-05	7	158905317	VIPR2	Body	AS	yes
cg22854985	0.91	0.89	0.74	2.23E-17	2	174082101	ZAK	Body	AS	yes
cg12297590	0.64	0.64	0.76	1.90E-04	6	158080750	ZDHHC14	Body	AS	no
cg06513375	0.76	0.77	0.89	3.52E-07	8	145955988	ZNF251	Body	AS	yes
cg12717203	0.23	0.17	0.09	2.29E-06	4	124342	ZNF718	Body;ncRNA promoter	AS	no

cg05388281	0.32	0.25	0.16	9.35E-08	4	125504	ZNF718	Body;ncRNA promoter	AS	no
cg24853868	0.51	0.49	0.66	2.26E-05	1	146555624			AS	yes
cg13502125	0.66	0.63	0.77	8.15E-05	1	147826191			AS	yes
cg15829088	0.33	0.37	0.45	3.36E-04	1	247802935		ncRNA promoter	AS	yes
cg13700939	0.72	0.66	0.59	1.34E-06	2	128166166			AS	no
cg23320965	0.77	0.76	0.64	6.20E-11	2	202850601			AS	no
cg01879591	0.50	0.46	0.38	7.52E-03	2	242954430			AS	no
cg01292810	0.56	0.62	0.45	2.14E-06	3	184241840			AS	yes
cg19775763	0.60	0.61	0.36	5.91E-11	3	194786989			AS	yes
cg18522231	0.24	0.28	0.51	3.87E-16	3	196705629			AS	yes
cg21434132	0.32	0.38	0.59	2.60E-13	3	196705742			AS	yes
cg00335715	0.30	0.26	0.40	7.14E-04	5	90575459		ncRNA promoter	AS	no
cg00599530	0.68	0.68	0.56	5.08E-07	6	170589809			AS	no
cg18217622	0.58	0.55	0.45	4.46E-06	6	170732253			AS	no
cg07257824	0.50	0.50	0.35	5.03E-09	6	170732353			AS	no
cg08735705	0.41	0.34	0.24	1.04E-08	7	1003645			AS	yes
cg16101574	0.25	0.24	0.54	2.56E-12	7	7291514			AS	yes
cg21634283	0.58	0.55	0.69	2.47E-04	7	57071676			AS	yes
cg14927855	0.72	0.69	0.58	2.89E-10	7	155151427			AS	yes
cg06106484	0.32	0.29	0.42	1.69E-07	8	32985289			AS	no
cg10616319	0.48	0.41	0.32	5.89E-09	10	15468812			AS	yes
cg14957089	0.52	0.57	0.65	1.05E-04	11	331092			AS	no
cg26881268	0.82	0.79	0.67	1.02E-11	11	94782548			AS	yes
cg12564567	0.35	0.29	0.46	2.68E-06	11	116371188		ncRNA promoter	AS	yes
cg22764591	0.11	0.09	0.22	5.74E-07	12	58329936			AS	yes
cg23591463	0.17	0.12	0.27	7.91E-05	12	114851495			AS	yes
cg14456004	0.16	0.20	0.30	1.31E-11	13	21872349			AS	yes
cg20293942	0.32	0.35	0.16	8.84E-08	13	50701256			AS	yes
cg16896868	0.67	0.71	0.84	1.00E-06	13	110319562			AS	yes
cg15975806	0.71	0.75	0.85	9.27E-05	13	110319607			AS	yes
cg24447866	0.45	0.49	0.61	1.57E-13	15	29034942			AS	yes
cg21520684	0.43	0.47	0.55	1.42E-09	15	29034950			AS	yes
cg08109568	0.61	0.64	0.80	1.80E-17	15	31115862			AS	yes
cg08125436	0.48	0.44	0.57	6.35E-05	16	7855305			AS	no
cg26536949	0.50	0.58	0.71	5.61E-06	17	57053			AS	yes
cg05528899	0.59	0.63	0.77	1.27E-05	17	57120			AS	yes
cg05785424	0.42	0.35	0.17	1.80E-17	17	21226409			AS	yes

cg22116458	0.26	0.20	0.11	2.10E-17	17	21226746
cg07529122	0.44	0.40	0.30	1.17E-03	21	47054539

AS	yes
AS	yes

**Supplemental table S2:**

51 unique pop-CpG sites overlapping with non-coding RNA promoters.

TargetID	Chr.	Position	Transcript ID	Feature	Strand	Transcript	
						start	stop
cg12407057	1	1366206	ENST00000428781	lincRNA	-	1363502	1365635
cg12407057	1	1366206	ENST00000434150	lincRNA	-	1365930	1367223
cg02193146	1	110752257	ENST00000455967	antisense	-	110751456	110752609
cg15829088	1	247802935	ENST00000435333	antisense	-	247728941	247804156
cg15829088	1	247802935	ENST00000446347	antisense	-	247729210	247803505
cg15829088	1	247802935	ENST00000449298	antisense	+	247803051	247910364
cg15829088	1	247802935	ENST00000582218	antisense	+	247803351	247827145
cg02713669	2	109746691	ENST00000567491	lincRNA	-	109743783	109745386
cg25308803	2	109746735	ENST00000567491	lincRNA	-	109743783	109745386
cg03846641	2	109746751	ENST00000567491	lincRNA	-	109743783	109745386
cg07548255	2	109746754	ENST00000567491	lincRNA	-	109743783	109745386
cg05348875	2	206628625	ENST00000423425	antisense	-	206624221	206628730
cg14157435	2	206628692	ENST00000423425	antisense	-	206624221	206628730
cg20916523	3	10184584	ENST00000458986	snoRNA	+	10182834	10182931
cg12717203	4	124342	ENST00000511079	lincRNA	+	124386	156177
cg12717203	4	124342	ENST00000513304	lincRNA	+	124404	127532
cg12717203	4	124342	ENST00000513889	lincRNA	+	124420	125178
cg12717203	4	124342	ENST00000510175	lincRNA	+	124420	157779
cg10197305	4	125112	ENST00000511079	lincRNA	+	124386	156177
cg10197305	4	125112	ENST00000513304	lincRNA	+	124404	127532
cg10197305	4	125112	ENST00000513889	lincRNA	+	124420	125178
cg10197305	4	125112	ENST00000510175	lincRNA	+	124420	157779
cg05388281	4	125504	ENST00000511079	lincRNA	+	124386	156177
cg05388281	4	125504	ENST00000513304	lincRNA	+	124404	127532
cg05388281	4	125504	ENST00000513889	lincRNA	+	124420	125178
cg05388281	4	125504	ENST00000510175	lincRNA	+	124420	157779
cg00335715	5	90575459	ENST00000440769	lincRNA	-	90575914	90576959
cg19980771	6	110798022	ENST00000569685	antisense	+	110799110	110800639
cg07185983	6	139012860	ENST00000432673	antisense	+	139013685	139018425
cg25814293	7	1883251	ENST00000428925	antisense	-	1881252	1881812
cg25814293	7	1883251	ENST00000580817	miRNA	-	1883816	1883889
cg16172923	7	1883390	ENST00000428925	antisense	-	1881252	1881812
cg16172923	7	1883390	ENST00000580817	miRNA	-	1883816	1883889
cg16658412	7	1883420	ENST00000428925	antisense	-	1881252	1881812
cg16658412	7	1883420	ENST00000580817	miRNA	-	1883816	1883889
cg05302531	7	101936362	ENST00000581001	miRNA	+	101936369	101936453
cg10259889	7	101936430	ENST00000581001	miRNA	+	101936369	101936453
cg08017634	8	144659831	ENST00000529247	antisense	+	144661806	144662840
cg06546677	8	145537504	ENST00000525023	antisense	-	145538253	145538801
cg21181453	9	130700954	ENST00000588890	antisense	+	130700162	130703122
cg21181453	9	130700954	ENST00000587978	antisense	+	130700162	130703130
cg21181453	9	130700954	ENST00000586374	antisense	+	130700192	130703134
cg21181453	9	130700954	ENST00000590283	antisense	+	130700198	130703134
cg21181453	9	130700954	ENST00000587355	antisense	+	130700201	130703134
cg21181453	9	130700954	ENST00000591408	antisense	+	130700410	130703101
cg21181453	9	130700954	ENST00000415141	antisense	+	130702015	130703231
cg13544455	9	139496083	ENST00000516631	snoRNA	+	139496967	139497062
cg07314988	11	289774	ENST00000534742	antisense	+	288038	288987
cg07314988	11	289774	ENST00000525217	antisense	+	288086	288978
cg10261205	11	289927	ENST00000534742	antisense	+	288038	288987
cg10261205	11	289927	ENST00000525217	antisense	+	288086	288978
cg12564567	11	116371188	ENST00000452629	lincRNA	-	116367616	116371347
cg05256304	11	116969870	ENST00000442124	antisense	+	116969703	116978886

cg10833066	12	111807467	ENST00000548006	lincRNA	+	111807086	111834903
cg10833066	12	111807467	ENST00000552663	lincRNA	+	111807086	111841114
cg25772418	12	131519998	ENST00000535370	lincRNA	-	131515115	131520032
cg06722407	13	19918586	ENST00000413833	lincRNA	+	19919189	19920889
cg21484985	14	70690525	ENST00000554008	lincRNA	+	70690482	70696825
cg21484985	14	70690525	ENST00000555198	lincRNA	+	70690493	70696898
cg19865237	14	104690244	ENST00000553757	lincRNA	+	104689921	104754406
cg19865237	14	104690244	ENST00000556528	lincRNA	+	104689931	104741966
cg19865237	14	104690244	ENST00000555282	lincRNA	+	104689951	104710084
cg26924012	15	45694286	ENST00000458245	lincRNA	-	45671395	45694525
cg21667061	15	60772094	ENST00000559824	antisense	+	60771377	60922836
cg21667061	15	60772094	ENST00000501579	antisense	+	60771380	60820823
cg21667061	15	60772094	ENST00000558235	antisense	+	60771406	60922715
cg21667061	15	60772094	ENST00000558140	antisense	+	60771419	60822088
cg04506728	16	53407722	ENST00000566383	lincRNA	+	53407405	53418171
cg07737292	16	56892460	ENST00000384916	miRNA	+	56892430	56892513
cg04385420	16	85816991	ENST00000516502	snRNA	-	85815381	85815505
cg06957310	17	29283870	ENST00000442757	antisense	-	29283298	29283979
cg07075026	17	47091521	ENST00000504865	antisense	-	47082093	47091087
cg10950924	17	47092072	ENST00000504865	antisense	-	47082093	47091087
cg18128536	17	47092178	ENST00000504865	antisense	-	47082093	47091087
cg11440486	17	48585216	ENST00000502300	lincRNA	-	48580773	48585689
cg00901687	17	48585270	ENST00000502300	lincRNA	-	48580773	48585689
cg19203115	18	29263741	ENST00000565978	antisense	+	29265618	29266786
cg07747299	21	47604052	ENST00000415026	antisense	+	47604993	47608855
cg08742575	21	47604166	ENST00000415026	antisense	+	47604993	47608855
cg12016809	21	47604291	ENST00000415026	antisense	+	47604993	47608855
cg05896524	21	47604654	ENST00000415026	antisense	+	47604993	47608855
cg05729745	22	49937644	ENST00000581025	miRNA	-	49937041	49937114

**Supplemental table S3:**

Enrichment analysis of 439 pop-CpGs for genomic context and histone occupancy .

**Genomic context**

	# Features pop-CpG	pop-CpG	# Features 450k	450k	Fisher Exact Test		
					p-value	FDR	Odds ratio
Promoter (coding genes)	141	439	175797	406021	0.0017	0.0060	0.7418
Body	147	439	134014	406021	0.8859	0.8859	1.0144
Intergenic	114	439	96210	406021	0.3870	0.5418	1.0959
Island	104	439	138017	406021	0.0007	0.0049	0.6969
Shore	124	439	97279	406021	0.1091	0.1909	1.1788
Shelf	36	439	36097	406021	0.7371	0.8600	0.9223
Open sea	175	439	134628	406021	0.0446	0.1041	1.2022

**Promoter context**

Features	# Features pop-CpG	pop-CpG	# Features 450k	450k	Fisher Exact Test		
					p-value	FDR	Odds ratio
CTCF	26	141	49179	175797	0.0492	0.2820	0.66
H2A.Z	77	141	114339	175797	0.2386	0.4061	0.84
H3k27ac	64	141	92707	175797	0.3400	0.4061	0.86
H3k27me3	50	141	62001	175797	1.0000	1.0000	1.01
H3k36me3	47	141	74832	175797	0.1519	0.4061	0.78
H3k4me1	74	141	70976	175797	0.0705	0.2820	1.30
H3k4me2	83	141	118696	175797	0.3405	0.4061	0.87
H3k4me3	81	141	115529	175797	0.3723	0.4061	0.87
H3k79me2	51	141	89451	175797	0.0390	0.2820	0.71
H3k9ac	68	141	102662	175797	0.2226	0.4061	0.83
H3k9me3	32	141	33116	175797	0.3482	0.4061	1.20
H4k20me1	59	141	87672	175797	0.2932	0.4061	0.84

**Gene body context**

Features	# Features pop-CpG	pop-CpG	# Features 450k	450k	Fisher Exact Test		
					p-value	FDR	Odds ratio
<b>CTCF</b>	<b>38</b>	<b>147</b>	<b>20520</b>	<b>134014</b>	<b>0.0063</b>	<b>0.0378</b>	<b>1.69</b>
H2A.Z	44	147	29068	134014	0.0716	0.2148	1.38
H3k27ac	41	147	25010	134014	0.0271	0.1084	1.49
H3k27me3	49	147	43570	134014	0.8683	0.8683	1.03
H3k36me3	59	147	59266	134014	0.5967	0.7518	0.91
<b>H3k4me1</b>	<b>62</b>	<b>147</b>	<b>35175</b>	<b>134014</b>	<b>0.0027</b>	<b>0.0324</b>	<b>1.61</b>
H3k4me2	51	147	36422	134014	0.1401	0.2814	1.28
H3k4me3	45	147	31586	134014	0.1407	0.2814	1.30
H3k79me2	44	147	36068	134014	0.5355	0.7518	1.11
H3k9ac	30	147	25919	134014	0.7599	0.8290	1.06
H3k9me3	30	147	21618	134014	0.2322	0.3981	1.27
H4k20me1	77	147	75570	134014	0.6265	0.7518	0.93



**Outside transcriptional context**

Features	# Features pop-CpG	pop-CpG	# Features 450k	450k	Fisher Exact Test		
					p-value	FDR	Odds ratio
CTCF	20	114	15681	96210	0.7098	0.7098	1.08
H2A.Z	37	114	23054	96210	0.1212	0.3062	1.35
H3k27ac	19	114	11002	96210	0.1503	0.3062	1.46
H3k27me3	40	114	44130	96210	0.1645	0.3062	0.76
H3k36me3	11	114	12160	96210	0.4782	0.5581	0.76
H3k4me1	32	114	21153	96210	0.2353	0.3530	1.28
H3k4me2	34	114	21833	96210	0.1682	0.3062	1.31
H3k4me3	32	114	17876	96210	0.0517	0.3062	1.51
H3k79me2	12	114	8427	96210	0.5116	0.5581	1.20
H3k9ac	25	114	13236	96210	0.0375	0.3062	1.59
H3k9me3	36	114	23201	96210	0.1786	0.3062	1.31
H4k20me1	35	114	37253	96210	0.2725	0.3633	0.79

**Supplemental table S4:**

39 pop-CpG sites with outlier characteristics of local selection (ANOVA Tukey,  $p < 0.05$ ).

Outlier	TargetID	Chr.	Position	Gene symbol	Gene context	CpG context	Population comparism (ANOVA Tukey test)					
							AF-chimp	CA-chimp	AS-chimp	CA-AF	AS-AF	AS-CA
AF	cg06957310	17	29283870	ADAP2	Body		1.6E-03	6.3E-01	9.8E-01	5.9E-13	1.1E-12	3.9E-01
AF	cg12016809	21	47604291	SPATC1L	Promoter	Island shore	9.0E-04	6.5E-01	1.0E+00	5.0E-06	5.1E-11	2.1E-01
AF	cg00669623	1	1655867	CDK11B;CDK11A	Promoter	Island	9.4E-05	1.0E+00	9.7E-01	6.0E-13	6.0E-13	9.8E-01
AF	cg17099656	22	47135171	CERK	Promoter		3.1E-02	9.9E-01	1.0E+00	2.3E-07	1.6E-06	9.5E-01
AF	cg12856521	11	46389249	DGKZ	Body	Island	7.0E-07	1.4E-01	2.2E-01	1.4E-08	3.0E-10	9.6E-01
AF	cg05964212	3	48936979	SLC25A20	Promoter	Island shore	1.3E-03	9.9E-01	5.5E-01	2.1E-09	2.5E-05	1.9E-01
AF	cg06712013	12	49759545	SPATS2	Promoter	Island shore	4.4E-02	1.0E+00	9.9E-01	4.4E-06	6.0E-05	8.9E-01
AF	cg23915527	1	161368787			Island shore	2.5E-02	1.0E+00	8.8E-01	6.5E-07	3.5E-04	4.2E-01
CA	cg16062483	14	98444417	C14orf64	Body		9.9E-01	3.7E-03	9.6E-01	3.5E-08	9.7E-01	2.0E-07
CA	cg06611426	12	52404161	GRASP	Body		8.7E-02	4.0E-06	2.1E-01	3.2E-06	8.3E-01	2.1E-08
CA	cg24426391	11	20384886	HTATIP2	Promoter	Island shore	1.6E-01	6.4E-06	3.5E-01	6.1E-07	8.1E-01	2.5E-09
CA	cg01042202	5	140242159	PCDHA (cluster)	Body	Island	3.5E-01	5.5E-04	9.2E-01	1.1E-04	1.9E-01	3.0E-09
CA	cg17178900	1	205818956	PM20D1	Body	Island	5.4E-01	3.2E-05	8.5E-01	1.0E-08	7.2E-01	8.9E-12
CA	cg26354017	1	205819088	PM20D1	Promoter	Island	5.1E-01	1.5E-04	8.4E-01	5.6E-07	7.0E-01	7.1E-10
CA	cg14159672	1	205819179	PM20D1	Promoter	Island	5.8E-01	8.9E-05	9.9E-01	5.8E-08	2.4E-01	9.1E-13
CA	cg14893161	1	205819251	PM20D1	Promoter	Island shore	1.0E+00	2.1E-02	5.3E-01	5.9E-08	1.4E-01	6.5E-13
CA	cg24503407	1	205819492	PM20D1	Promoter	Island shore	7.6E-01	4.1E-02	2.4E-01	2.4E-10	3.3E-01	6.0E-13
CA	cg19980771	6	110798022	SLC22A16	Promoter	Island	1.1E-01	2.2E-04	6.7E-02	1.8E-03	9.8E-01	5.1E-03
CA	cg17205313	18	21572748	TTC39C	Promoter		3.6E-01	2.0E-05	9.8E-01	7.6E-08	8.3E-02	6.1E-13
CA	cg22127848	17	64295986				8.8E-01	5.0E-04	9.9E-01	2.1E-08	7.9E-01	4.0E-11
AS	cg06917450	1	38156652	C1orf109	Promoter	Island shore	1.3E-01	2.8E-01	1.3E-09	8.8E-01	6.1E-13	5.9E-13
AS	cg21156386	11	692983	DEAF1	Body	Island shore	1.0E+00	1.0E+00	4.7E-02	1.0E+00	1.3E-06	6.4E-07
AS	cg06737308	4	185021514	ENPP6	Body		8.9E-01	4.0E-01	1.2E-03	3.9E-01	9.1E-08	2.1E-04
AS	cg17005068	22	24384525	GSTT1	Promoter	Island shore	2.4E-01	5.9E-01	9.2E-06	6.3E-01	1.1E-07	1.2E-10
AS	cg18428193	2	27665017	KRTCAP3	Promoter	Island	1.0E+00	8.8E-01	2.3E-02	4.7E-01	4.2E-07	3.9E-04
AS	cg24768116	2	27665128	KRTCAP3	Promoter	Island	8.1E-01	1.3E-01	4.3E-04	7.6E-02	3.7E-08	3.0E-03
AS	cg12648201	2	27665141	KRTCAP3	Promoter	Island	3.4E-01	1.9E-02	8.6E-06	8.1E-02	9.7E-09	1.1E-03
AS	cg21248554	2	27665150	KRTCAP3	Promoter	Island	8.9E-01	2.9E-01	4.6E-04	2.0E-01	6.5E-09	1.6E-04
AS	cg16393899	6	5136301	LYRM4	3'UTR	Island shore	9.0E-01	4.3E-01	5.5E-03	4.2E-01	5.1E-06	3.6E-03
AS	cg08017634	8	144659831	NAPRT1	Body	Island	1.0E+00	6.8E-01	2.0E-02	5.6E-02	2.8E-06	1.7E-12
AS	cg14654471	1	5937169	NPHP4	Body	Island	4.6E-01	1.5E-01	1.5E-08	6.2E-01	6.0E-13	1.6E-12
AS	cg17766305	10	90147030	RNLS	Body		2.8E-01	9.5E-01	5.7E-03	8.9E-02	2.0E-02	1.3E-06
AS	cg26924012	15	45694286	SPATA5L1	Promoter	Island shore	1.1E-02	7.2E-02	6.0E-13	5.9E-01	5.9E-13	5.6E-13
AS	cg12289045	19	51141361	SYT3	Promoter	Island shore	1.0E+00	9.5E-01	4.8E-02	7.9E-01	3.7E-06	3.0E-08
AS	cg13444538	7	158905317	VIPR2	Body	Island	9.7E-01	7.6E-01	8.6E-03	7.2E-01	1.4E-06	2.0E-04
AS	cg16101574	7	7291514				1.0E+00	1.0E+00	3.3E-04	9.9E-01	4.0E-12	1.2E-12
AS	cg23591463	12	114851495			Island shore	6.7E-01	1.0E+00	2.5E-02	2.9E-01	6.7E-03	4.5E-06
AS	cg00599530	6	170589809			Island	2.3E-01	1.6E-01	1.5E-05	9.8E-01	3.3E-07	2.3E-06
AS	cg01292810	3	184241840			Island shore	2.0E-01	8.2E-01	3.3E-04	1.6E-01	4.3E-04	1.8E-08

**Supplemental table S5:**

596 genetic variations (SNPs) associated to 298 pop-CpG sites (FDR&lt;0.05).

TargetID	Selection frequency	FDR	TargetID
rs12105714	0.5003	<0.01	cg22111694
rs2424794	0.3470	<0.01	cg00157199
rs3737622	0.0396	<0.01	cg23611477
rs10833312	0.0358	<0.01	cg24426391
rs6794037	0.0318	<0.01	cg19775763
rs2222029	0.0308	<0.01	cg22068400
rs1913671	0.0300	<0.01	cg22068400
rs2195078	0.0299	<0.01	cg22068400
rs335115	0.0299	<0.01	cg22068400
rs7571971	0.0298	<0.01	cg22068400
rs10179543	0.0297	<0.01	cg22068400
rs4461289	0.0295	<0.01	cg15293181
rs2306676	0.0293	0.014286	cg22068400
rs6547790	0.0292	0.022222	cg22068400
rs6974	0.0291	0.022222	cg22068400
rs11047943	0.0289	<0.01	cg25134647
rs3809109	0.0286	<0.01	cg07314988
rs2809823	0.0282	<0.01	cg06223162
rs3737717	0.0265	<0.01	cg16590012
rs6938061	0.0260	<0.01	cg24796644
rs498045	0.0257	<0.01	cg24851651
rs3850684	0.0245	<0.01	cg06749524
rs2074175	0.0243	<0.01	cg15007983
rs3809109	0.0242	<0.01	cg10261205
rs644534	0.0241	<0.01	cg12239580
rs2074175	0.0233	<0.01	cg25234359
rs17679120	0.0229	<0.01	cg06737308
rs4963867	0.0227	<0.01	cg25134647
rs1430410	0.0226	<0.01	cg01201279
rs4890183	0.0225	<0.01	cg26536949
rs2272473	0.0222	<0.01	cg04520948
rs4881729	0.0219	<0.01	cg15465743
rs12934778	0.0219	<0.01	cg04381865
rs12370258	0.0218	<0.01	cg25772418
rs268691	0.0217	<0.01	cg14150973
rs1561140	0.0214	<0.01	cg07737292
rs884080	0.0214	<0.01	cg10761639
rs4072287	0.0211	<0.01	cg08900409
rs2412322	0.0209	<0.01	cg00901687
rs9366218	0.0204	<0.01	cg01061164
rs12145714	0.0204	<0.01	cg20415053
rs708727	0.0203	<0.01	cg14893161
rs1495986	0.0201	<0.01	cg00951395
rs4890183	0.0198	<0.01	cg05528899
rs4881729	0.0197	<0.01	cg17658113
rs7309941	0.0196	<0.01	cg23591463
rs7045617	0.0195	<0.01	cg13544455
rs1385331	0.0194	<0.01	cg03307177
rs9464303	0.0193	<0.01	cg19318364
rs5760147	0.0192	<0.01	cg17005068
rs10927202	0.0192	<0.01	cg09033006
rs11264091	0.0189	<0.01	cg06917450
rs708727	0.0189	<0.01	cg14159672
rs4881729	0.0189	<0.01	cg12064373
rs708727	0.0188	<0.01	cg24503407

rs9891712	0.0187	<0.01	cg08471713
rs7463743	0.0187	<0.01	cg00154902
rs708727	0.0186	<0.01	cg17178900
rs1495986	0.0186	<0.01	cg06935979
rs2809823	0.0186	<0.01	cg09408571
rs9277554	0.0184	<0.01	cg25057035
rs4881729	0.0184	<0.01	cg08208480
rs1861420	0.0184	<0.01	cg22824376
rs708727	0.0184	<0.01	cg11965913
rs9508	0.0181	<0.01	cg02251754
rs628265	0.0180	<0.01	cg16558994
rs12145714	0.0180	<0.01	cg11070193
rs9328566	0.0180	<0.01	cg21156386
rs2247016	0.0180	<0.01	cg09455823
rs10512598	0.0180	<0.01	cg27626185
rs708727	0.0176	<0.01	cg26354017
rs8133082	0.0173	<0.01	cg12016809
rs11077773	0.0171	<0.01	cg27626185
rs9277554	0.0170	<0.01	cg17294865
rs4074794	0.0170	<0.01	cg17165241
rs17192691	0.0170	<0.01	cg10804726
rs3822030	0.0170	<0.01	cg22718636
rs2412322	0.0169	<0.01	cg11440486
rs351111	0.0168	<0.01	cg10599438
rs6840580	0.0166	<0.01	cg16301894
rs5769118	0.0166	<0.01	cg17099656
rs11640338	0.0165	<0.01	cg02817932
rs11654695	0.0165	<0.01	cg26536949
rs12621987	0.0163	<0.01	cg07144255
rs4082812	0.0162	<0.01	cg21523688
rs7405782	0.0160	<0.01	cg22116458
rs4076933	0.0159	<0.01	cg19499452
rs9277554	0.0159	<0.01	cg15138289
rs11122125	0.0159	<0.01	cg14654471
rs7528532	0.0159	<0.01	cg09359103
rs1809148	0.0158	<0.01	cg08017634
rs708727	0.0158	<0.01	cg07157834
rs4654274	0.0158	<0.01	cg04798314
rs8133082	0.0157	<0.01	cg05896524
rs8133082	0.0156	<0.01	cg08742575
rs4076933	0.0156	<0.01	cg12425861
rs4076933	0.0155	<0.01	cg18912855
rs11692699	0.0155	<0.01	cg15544633
rs2756072	0.0153	<0.01	cg00101728
rs7299249	0.0153	<0.01	cg22764591
rs12938802	0.0153	<0.01	cg26536949
rs2503865	0.0152	<0.01	cg02780029
rs12415178	0.0152	<0.01	cg25120325
rs12620999	0.0152	<0.01	cg23555395
rs1561325	0.0151	<0.01	cg18346707
rs10993768	0.0151	<0.01	cg13458384
rs7627043	0.0148	<0.01	cg19775763
rs4076933	0.0148	<0.01	cg18397450
rs6938061	0.0148	<0.01	cg14926196
rs3213445	0.0147	<0.01	cg19112186
rs9435168	0.0147	<0.01	cg23914842
rs3807125	0.0147	<0.01	cg10157098
rs10412065	0.0147	<0.01	cg17713488
rs8133082	0.0146	<0.01	cg14789911

rs4689863	0.0145	<0.01	cg06758191
rs2159134	0.0143	<0.01	cg05275595
rs11748	0.0143	<0.01	cg17165241
rs7405782	0.0141	<0.01	cg05785424
rs10264122	0.0141	<0.01	cg12575883
rs2015241	0.0140	<0.01	cg14456004
rs10264122	0.0139	<0.01	cg08735705
rs9460122	0.0139	<0.01	cg01061164
rs4985147	0.0139	<0.01	cg04381865
rs3006069	0.0139	<0.01	cg02107279
rs8133082	0.0138	<0.01	cg07747299
rs10229556	0.0138	<0.01	cg21634283
rs16861323	0.0138	<0.01	cg22854985
rs12691770	0.0138	<0.01	cg04722349
rs3754446	0.0138	<0.01	cg25210835
rs1346268	0.0138	<0.01	cg26924012
rs6058511	0.0137	<0.01	cg09796376
rs2992458	0.0136	<0.01	cg13502125
rs12938802	0.0136	<0.01	cg05528899
rs1876432	0.0135	<0.01	cg04193820
rs925151	0.0135	<0.01	cg12564567
rs1008898	0.0135	<0.01	cg16101574
rs999885	0.0135	<0.01	cg23472400
rs10122	0.0134	<0.01	cg22764591
rs1969869	0.0134	<0.01	cg24853868
rs1445688	0.0133	<0.01	cg27586797
rs8133082	0.0133	<0.01	cg05200811
rs8133082	0.0133	<0.01	cg13126279
rs4774580	0.0133	<0.01	cg26924012
rs2074824	0.0133	<0.01	cg24169315
rs9549244	0.0133	<0.01	cg01493009
rs9769506	0.0131	<0.01	cg21341645
rs2420936	0.0131	<0.01	cg06791446
rs2403583	0.0131	<0.01	cg24426391
rs1038125	0.0131	<0.01	cg13375589
rs4907727	0.0130	<0.01	cg00557959
rs7297186	0.0129	<0.01	cg10833066
rs2163645	0.0129	<0.01	cg12391643
rs6558406	0.0129	<0.01	cg04757492
rs3827011	0.0129	<0.01	cg17132030
rs7497062	0.0128	<0.01	cg01338139
rs13241427	0.0128	<0.01	cg15679892
rs7406009	0.0127	<0.01	cg22116458
rs6573939	0.0127	<0.01	cg21484985
rs9316484	0.0127	<0.01	cg20293942
rs4750090	0.0127	<0.01	cg09219688
rs1876432	0.0125	<0.01	cg08896939
rs7549324	0.0124	<0.01	cg14654471
rs12873208	0.0124	<0.01	cg00792968
rs7202817	0.0124	<0.01	cg06103394
rs11847295	0.0124	0.05	cg12425861
rs4735895	0.0124	<0.01	cg07234876
rs11654695	0.0123	<0.01	cg05528899
rs2955221	0.0123	<0.01	cg06513375
rs1131293	0.0122	<0.01	cg24169315
rs3789504	0.0122	<0.01	cg13549940
rs11847295	0.0122	<0.01	cg19499452
rs1973265	0.0121	<0.01	cg03307177
rs6481162	0.0121	<0.01	cg23336892

rs4283986	0.0121	<0.01	cg10157098
rs2598422	0.0120	<0.01	cg02678768
rs4481540	0.0120	<0.01	cg05554000
rs12790950	0.0120	<0.01	cg21156386
rs4874164	0.0120	<0.01	cg08017634
rs1861739	0.0120	<0.01	cg17099656
rs12735611	0.0119	<0.01	cg04798314
rs1531554	0.0119	<0.01	cg14170999
rs1128889	0.0119	<0.01	cg02678768
rs7714584	0.0119	<0.01	cg22000984
rs2108485	0.0119	<0.01	cg24169315
rs1876432	0.0118	<0.01	cg06957310
rs6858295	0.0118	<0.01	cg04181038
rs2159192	0.0117	<0.01	cg16101574
rs2839133	0.0117	<0.01	cg05200811
rs10924763	0.0116	<0.01	cg04798314
rs3765103	0.0116	<0.01	cg25114630
rs2242566	0.0116	0.05	cg10261205
rs2912089	0.0116	<0.01	cg22816462
rs10272099	0.0116	<0.01	cg12575883
rs6594018	0.0115	<0.01	cg20240347
rs8009922	0.0115	<0.01	cg11787167
rs7778301	0.0115	<0.01	cg16101574
rs11166972	0.0115	<0.01	cg20511966
rs7942486	0.0115	<0.01	cg13286116
rs6585735	0.0115	<0.01	cg06791446
rs4521710	0.0115	<0.01	cg06715136
rs4977203	0.0113	<0.01	cg06546677
rs2314664	0.0113	<0.01	cg15007983
rs3811207	0.0112	<0.01	cg17311865
rs2395309	0.0112	<0.01	cg13661648
rs2420936	0.0112	<0.01	cg02210151
rs556759	0.0112	<0.01	cg24851651
rs10936997	0.0112	<0.01	cg00862290
rs10272099	0.0112	<0.01	cg08735705
rs6787114	0.0112	<0.01	cg19775763
rs2395309	0.0112	<0.01	cg12858166
rs2839133	0.0112	<0.01	cg11766577
rs1054645	0.0112	<0.01	cg03497872
rs4874159	0.0112	<0.01	cg08017634
rs5770594	0.0111	<0.01	cg10356904
rs9671295	0.0111	0.033333	cg19499452
rs2071904	0.0111	<0.01	cg05729745
rs7573861	0.0111	<0.01	cg07144255
rs4984988	0.0111	<0.01	cg27084952
rs12541647	0.0111	<0.01	cg08017634
rs2450772	0.0111	<0.01	cg23244022
rs1088475	0.0110	<0.01	cg08109568
rs332311	0.0110	<0.01	cg16896868
rs3811207	0.0109	<0.01	cg13252730
rs2272588	0.0109	<0.01	cg18872420
rs8559	0.0109	<0.01	cg02251754
rs2071904	0.0108	<0.01	cg10356904
rs3913632	0.0108	<0.01	cg06749524
rs4129789	0.0108	<0.01	cg06204040
rs790929	0.0108	<0.01	cg20293942
rs2160591	0.0108	<0.01	cg25345738
rs4729568	0.0108	0.033333	cg23472400
rs4481540	0.0107	<0.01	cg13444538

rs6570261	0.0107	<0.01	cg07185983
rs7406009	0.0107	<0.01	cg05785424
rs399867	0.0107	<0.01	cg13444538
rs2030201	0.0107	<0.01	cg04722349
rs1474480	0.0106	<0.01	cg07314988
rs7101776	0.0106	<0.01	cg11132204
rs30523	0.0106	<0.01	cg24951781
rs8040604	0.0106	<0.01	cg24447866
rs13008857	0.0105	<0.01	cg22681709
rs3077	0.0105	<0.01	cg12858166
rs6819770	0.0105	<0.01	cg06737308
rs1544800	0.0105	<0.01	cg27084952
rs7249727	0.0105	<0.01	cg26843498
rs2774084	0.0105	<0.01	cg15975806
rs2180311	0.0105	<0.01	cg03396347
rs6504593	0.0105	<0.01	cg11783901
rs13380040	0.0104	<0.01	cg25508830
rs1004420	0.0104	<0.01	cg14781242
rs4916596	0.0104	<0.01	cg21434132
rs2936523	0.0104	<0.01	cg22816462
rs738469	0.0104	<0.01	cg24424889
rs11167024	0.0104	<0.01	cg07964753
rs768659	0.0103	<0.01	cg06917450
rs8048084	0.0103	<0.01	cg06103394
rs7768422	0.0103	<0.01	cg19980771
rs2170810	0.0103	<0.01	cg17311865
rs11196967	0.0102	<0.01	cg22621161
rs1466681	0.0102	<0.01	cg27626185
rs8076012	0.0102	<0.01	cg11783901
rs6058522	0.0102	<0.01	cg09796376
rs735480	0.0102	<0.01	cg21523688
rs1874249	0.0102	<0.01	cg01338139
rs2839133	0.0102	<0.01	cg13126279
rs7503709	0.0101	<0.01	cg22116458
rs5770594	0.0101	<0.01	cg05729745
rs6717729	0.0101	<0.01	cg15544633
rs4076700	0.0101	<0.01	cg17765387
rs10477291	0.0101	<0.01	cg11609571
rs3847691	0.0101	<0.01	cg25772418
rs3961919	0.0100	<0.01	cg14227325
rs16967029	0.0100	<0.01	cg08896939
rs10256972	0.0100	<0.01	cg08735705
rs4676237	0.0100	<0.01	cg25308803
rs5770594	0.0099	<0.01	cg14507445
rs906528	0.0099	<0.01	cg26881268
rs9277535	0.0099	<0.01	cg25057035
rs7387252	0.0098	<0.01	cg18929511
rs2314664	0.0098	<0.01	cg25234359
rs10208384	0.0098	<0.01	cg10645314
rs10235911	0.0098	<0.01	cg06715136
rs2774084	0.0098	<0.01	cg16896868
rs10256972	0.0098	<0.01	cg12575883
rs2912091	0.0098	<0.01	cg22816462
rs7557391	0.0098	<0.01	cg12391643
rs2074158	0.0097	<0.01	cg20291162
rs3077	0.0097	<0.01	cg13661648
rs12482934	0.0097	<0.01	cg05896524
rs8768	0.0097	<0.01	cg11070193
rs10900579	0.0097	<0.01	cg18222590

rs8768	0.0097	<0.01	cg20415053
rs4916596	0.0097	<0.01	cg18522231
rs16967029	0.0097	<0.01	cg04193820
rs4073925	0.0096	<0.01	cg11146691
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rs7986407	0.0096	<0.01	cg01493009
rs2839133	0.0096	<0.01	cg14789911
rs70165	0.0095	<0.01	cg22824376
rs9838704	0.0095	<0.01	cg01292810
rs1015390	0.0095	<0.01	cg20731937
rs4676237	0.0095	<0.01	cg03846641
rs11746515	0.0095	<0.01	cg27586797
rs9330294	0.0095	<0.01	cg23915527
rs4819138	0.0095	<0.01	cg07529122
rs4845681	0.0094	<0.01	cg09359103
rs10861768	0.0094	<0.01	cg25345738
rs2160591	0.0094	<0.01	cg00632811
rs2474460	0.0093	<0.01	cg03396347
rs6585735	0.0093	<0.01	cg02210151
rs522207	0.0093	<0.01	cg21434132
rs11892316	0.0093	<0.01	cg12391643
rs719094	0.0093	0.025	cg22116458
rs7503709	0.0093	<0.01	cg05785424
rs629081	0.0093	<0.01	cg02750262
rs12548656	0.0092	<0.01	cg20511966
rs17133461	0.0092	<0.01	cg02673002
rs10151755	0.0092	<0.01	cg11787167
rs971891	0.0092	<0.01	cg24610854
rs9844652	0.0092	<0.01	cg19478698
rs30514	0.0092	<0.01	cg24951781
rs6697423	0.0092	<0.01	cg02251754
rs2838970	0.0092	<0.01	cg07529122
rs11674275	0.0092	<0.01	cg03846641
rs8587	0.0091	<0.01	cg04385420
rs17740650	0.0091	<0.01	cg09488502
rs4961331	0.0091	<0.01	cg07964753
rs332311	0.0091	<0.01	cg15975806
rs17740650	0.0090	<0.01	cg16034991
rs11724804	0.0090	<0.01	cg22718636
rs2074158	0.0090	<0.01	cg02228675
rs2071904	0.0090	<0.01	cg14507445
rs1853782	0.0090	<0.01	cg24853868
rs12940226	0.0090	<0.01	cg10804726
rs7911727	0.0090	<0.01	cg02210151
rs2074546	0.0090	<0.01	cg26843498
rs522207	0.0090	<0.01	cg18522231
rs16824489	0.0089	<0.01	cg16558994
rs9937517	0.0089	<0.01	cg27084952
rs7566263	0.0089	<0.01	cg16450677
rs6845	0.0089	<0.01	cg04520948
rs7099565	0.0089	<0.01	cg22621161
rs9674544	0.0089	<0.01	cg10950924
rs7898821	0.0089	<0.01	cg12014181
rs12449695	0.0089	<0.01	cg13375589
rs11770823	0.0088	<0.01	cg25332918
rs2701859	0.0088	<0.01	cg01493009
rs1524878	0.0088	<0.01	cg08109568
rs12122100	0.0088	<0.01	cg24853868
rs11167028	0.0088	<0.01	cg07964753



rs262683	0.0087	<0.01	cg10761639
rs6832992	0.0087	<0.01	cg12367833
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rs7928630	0.0087	<0.01	cg20511548
rs2734791	0.0087	<0.01	cg12575883
rs212787	0.0087	<0.01	cg25075347
rs10967719	0.0087	<0.01	cg04995717
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rs9900686	0.0086	<0.01	cg06957310
rs9321669	0.0086	<0.01	cg07185983
rs3129586	0.0086	<0.01	cg04798314
rs1321685	0.0086	<0.01	cg10760651
rs4985976	0.0086	0.05	cg05785424
rs6478803	0.0086	<0.01	cg21181453
rs2287807	0.0086	<0.01	cg17713488
rs4521710	0.0085	<0.01	cg06400119
rs4676237	0.0085	<0.01	cg07548255
rs4951407	0.0085	<0.01	cg20240347
rs11674275	0.0085	<0.01	cg25308803
rs11132224	0.0085	<0.01	cg06737308
rs2450772	0.0085	<0.01	cg26466789
rs2071904	0.0085	<0.01	cg20744362
rs4808652	0.0084	<0.01	cg17132030
rs9297145	0.0084	0.033333	cg23472400
rs4801882	0.0084	<0.01	cg09488502
rs2170810	0.0084	<0.01	cg13252730
rs1017943	0.0084	<0.01	cg26466789
rs1949783	0.0084	0.05	cg15679892
rs6509933	0.0084	<0.01	cg10218876
rs929069	0.0084	<0.01	cg27084952
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rs8040604	0.0084	<0.01	cg21520684
rs589927	0.0083	<0.01	cg06917450
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rs17748862	0.0083	<0.01	cg25705717
rs301164	0.0082	<0.01	cg04385420
rs1868031	0.0082	<0.01	cg19318364
rs7214921	0.0082	<0.01	cg02228675
rs2172349	0.0082	<0.01	cg00923880
rs4451728	0.0082	0.05	cg11132204
rs4370914	0.0082	<0.01	cg20511548
rs13585	0.0082	<0.01	cg18190219
rs7954957	0.0081	0.033333	cg22764591
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rs31874	0.0081	<0.01	cg01042202
rs6794945	0.0081	<0.01	cg08439880
rs10919703	0.0081	<0.01	cg21868798
rs1017943	0.0081	<0.01	cg23244022
rs6458011	0.0081	<0.01	cg24796644
rs4916511	0.0081	<0.01	cg03307177
rs10906566	0.0080	<0.01	cg02284273
rs2030048	0.0080	<0.01	cg06223162
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rs16979053	0.0080	<0.01	cg12016809
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rs4909289	0.0080	<0.01	cg06715136
rs10908445	0.0079	<0.01	cg09359103
rs13223383	0.0079	<0.01	cg14927855
rs918542	0.0079	<0.01	cg17713488
rs873785	0.0079	0.033333	cg22718636
rs4944950	0.0079	<0.01	cg02673002
rs2505952	0.0079	<0.01	cg08355045
rs7859	0.0079	<0.01	cg21181453
rs4597375	0.0079	<0.01	cg13375589
rs11755081	0.0079	<0.01	cg01061164
rs7586635	0.0079	0.025	cg15544633
rs2613843	0.0079	0.05	cg14150973
rs7633133	0.0079	<0.01	cg12235788
rs8138399	0.0078	<0.01	cg14507445
rs12595568	0.0078	<0.01	cg01338139
rs2516835	0.0078	0.025	cg15544633
rs10000869	0.0078	<0.01	cg26741686
rs7441245	0.0078	<0.01	cg16301894
rs4979619	0.0078	<0.01	cg14157578
rs9448881	0.0078	<0.01	cg08355045
rs2074639	0.0077	<0.01	cg10599438
rs12463408	0.0077	0.033333	cg14227325
rs2428684	0.0077	<0.01	cg11440486
rs4243839	0.0077	<0.01	cg06715136
rs30514	0.0077	<0.01	cg08979191
rs2061690	0.0077	<0.01	cg09359103
rs591567	0.0077	<0.01	cg06917450
rs11653662	0.0077	<0.01	cg14170999
rs10861768	0.0077	<0.01	cg00632811
rs12446849	0.0077	<0.01	cg27084952
rs9323533	0.0077	<0.01	cg21484985
rs4985155	0.0076	0.033333	cg04381865
rs10508471	0.0076	<0.01	cg03179435
rs1409150	0.0076	<0.01	cg10631373
rs12872335	0.0076	0.02	cg20293942
rs16861266	0.0076	<0.01	cg22854985
rs12565738	0.0076	<0.01	cg09226051
rs9900686	0.0076	<0.01	cg08896939
rs7010142	0.0076	<0.01	cg20511966
rs9323529	0.0076	<0.01	cg21088438
rs8138399	0.0076	<0.01	cg10356904
rs3803792	0.0076	<0.01	cg10804726
rs2340518	0.0075	<0.01	cg08896939
rs16979053	0.0075	0.025	cg05896524
rs6665593	0.0075	<0.01	cg10761639
rs4845397	0.0075	<0.01	cg09359103
rs1865108	0.0075	<0.01	cg05275595
rs11695974	0.0075	0.033333	cg14227325
rs4237786	0.0074	<0.01	cg20511548
rs10787548	0.0074	0.033333	cg22621161
rs7248982	0.0074	0.033333	cg27284398
rs16979053	0.0074	<0.01	cg07747299
rs8138399	0.0074	<0.01	cg05729745
rs4906423	0.0074	<0.01	cg19865237
rs7230037	0.0073	<0.01	cg02750262
rs787583	0.0073	<0.01	cg02750262
rs4648808	0.0073	0.016667	cg10761639
rs10906566	0.0072	<0.01	cg08734931
rs9277535	0.0072	<0.01	cg17294865

rs6121318	0.0072	0.05	cg09796376
rs2839133	0.0072	0.025	cg05896524
rs509016	0.0072	<0.01	cg18522231
rs4756763	0.0071	<0.01	cg13286116
rs10804876	0.0071	<0.01	cg00862290
rs4862103	0.0071	<0.01	cg04181038
rs10910030	0.0071	0.016667	cg10761639
rs242602	0.0071	0.05	cg09796376
rs10906566	0.0071	<0.01	cg26984593
rs7174744	0.0071	0.033333	cg08109568
rs7556371	0.0071	<0.01	cg20240347
rs706612	0.0070	0.02	cg20293942
rs2459994	0.0070	0.016667	cg10761639
rs2685477	0.0070	<0.01	cg06749524
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rs6504593	0.0070	<0.01	cg18128536
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rs855436	0.0069	<0.01	cg22410499
rs4845396	0.0069	0.016667	cg09359103
rs3800268	0.0069	0.025	cg01061164
rs2025700	0.0069	0.02	cg20293942
rs12747565	0.0069	<0.01	cg15829088
rs4896381	0.0069	<0.01	cg07185983
rs4938349	0.0069	<0.01	cg11861562
rs13079919	0.0069	0.033333	cg00315563
rs3793371	0.0069	0.04	cg08017634
rs2288519	0.0068	<0.01	cg24699670
rs6778111	0.0068	<0.01	cg12235788
rs2245979	0.0068	0.033333	cg11070193
rs7251424	0.0068	<0.01	cg00378510
rs6862469	0.0068	<0.01	cg27586797
rs3802354	0.0068	<0.01	cg21181453
rs7553195	0.0068	0.028571	cg09359103
rs4801882	0.0068	<0.01	cg16034991
rs4984719	0.0068	<0.01	cg27084952
rs3803892	0.0068	0.033333	cg27284398
rs12022413	0.0068	0.025	cg24853868
rs11773068	0.0068	<0.01	cg18311871
rs1456721	0.0067	<0.01	cg19400179
rs9769826	0.0067	<0.01	cg21341645
rs2301220	0.0067	<0.01	cg13661648
rs6453008	0.0067	<0.01	cg21594278
rs2378113	0.0067	<0.01	cg04879348
rs6509931	0.0067	<0.01	cg24699670
rs3128342	0.0067	0.044444	cg10761639
rs2285769	0.0067	<0.01	cg06758191
rs6998229	0.0067	<0.01	cg00154902
rs12939237	0.0067	<0.01	cg18128536
rs4768699	0.0066	<0.01	cg11146691
rs4938349	0.0066	<0.01	cg16524733
rs8138399	0.0066	<0.01	cg20744362
rs10497466	0.0066	<0.01	cg22681709
rs11804831	0.0066	0.044444	cg10761639
rs4636972	0.0066	<0.01	cg02352716
rs4262947	0.0066	<0.01	cg27084952
rs4130296	0.0066	<0.01	cg17765387
rs9341802	0.0066	<0.01	cg08355045
rs2178403	0.0066	0.033333	cg04520948
rs1492888	0.0066	<0.01	cg11146691

rs13390931	0.0065	0.04	cg14227325
rs2936817	0.0065	<0.01	cg12239580
rs8076012	0.0065	<0.01	cg18128536
rs6696861	0.0065	0.033333	cg13549940
rs968660	0.0065	<0.01	cg21594278
rs6810830	0.0065	<0.01	cg06737308
rs4854150	0.0065	<0.01	cg07144255
rs13197494	0.0065	<0.01	cg21351392
rs1039750	0.0065	0.033333	cg26881268
rs10059011	0.0065	<0.01	cg22000984
rs3901254	0.0065	<0.01	cg24796644
rs2460002	0.0064	0.044444	cg10761639
rs9277535	0.0064	<0.01	cg15138289
rs3117222	0.0064	<0.01	cg17294865
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rs757322	0.0064	<0.01	cg26843498
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rs17799348	0.0064	<0.01	cg21175976
rs3819495	0.0064	0.05	cg26466789
rs6459830	0.0064	<0.01	cg06400119
rs6756248	0.0063	0.044444	cg15544633
rs3734110	0.0063	<0.01	cg27586797
rs6446628	0.0063	<0.01	cg06758191
rs16979053	0.0063	0.033333	cg11766577
rs2290416	0.0063	0.05	cg08017634
rs9512681	0.0063	<0.01	cg22138327
rs7703551	0.0063	0.033333	cg21594278
rs7743193	0.0063	<0.01	cg00101728
rs10949703	0.0063	<0.01	cg06715136
rs4983582	0.0063	<0.01	cg19865237
rs11204553	0.0063	<0.01	cg15829088
rs10280773	0.0063	<0.01	cg16101574
rs4527124	0.0063	<0.01	cg19283806
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rs9679602	0.0062	0.044444	cg15544633
rs624177	0.0062	0.05	cg07075026
rs710587	0.0062	<0.01	cg15260248
rs3117222	0.0062	<0.01	cg25057035
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rs916719	0.0062	0.05	cg19980771
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rs2039890	0.0062	0.033333	cg19865237
rs6714365	0.0062	<0.01	cg18346707
rs2055249	0.0062	<0.01	cg24426391
rs3128917	0.0062	<0.01	cg15138289
rs12473335	0.0061	0.044444	cg15544633
rs6572493	0.0061	<0.01	cg17311865
rs11894434	0.0061	0.033333	cg04722349
rs4760673	0.0061	<0.01	cg20731937
rs2168741	0.0061	0.05	cg06749524
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rs1911728	0.0061	0.025	cg22824376
rs7605559	0.0061	0.05	cg04879348
rs16979053	0.0061	<0.01	cg14789911
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rs6509933	0.0060	<0.01	cg24699670
rs3796093	0.0060	0.05	cg24169315
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rs6807584	0.0060	<0.01	cg16415457
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rs10513151	0.0060	<0.01	cg27586797
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rs937725	0.0059	0.044444	cg15544633
rs7605443	0.0059	0.04	cg14227325
rs11881836	0.0059	0.05	cg04524040
rs7328594	0.0058	0.05	cg01493009
rs6773354	0.0058	0.05	cg08439880
rs10508471	0.0058	<0.01	cg26984593
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rs271178	0.0057	<0.01	cg07095347
rs10235911	0.0057	0.033333	cg06400119
rs1431399	0.0057	<0.01	cg13661648
rs17091325	0.0056	<0.01	cg00923880
rs7423759	0.0056	0.05	cg15544633
rs1373942	0.0056	<0.01	cg27586797
rs11167042	0.0056	<0.01	cg17903548
rs659366	0.0056	0.033333	cg02673002
rs10508471	0.0055	<0.01	cg02284273
rs6458011	0.0055	<0.01	cg14926196
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rs3128917	0.0055	<0.01	cg25057035
rs6661767	0.0055	0.05	cg01017257
rs7312159	0.0055	<0.01	cg23433370
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rs7522389	0.0055	<0.01	cg00755546
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rs744266	0.0054	<0.01	cg25345738
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rs683936	0.0054	<0.01	cg16558994
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rs838695	0.0054	<0.01	cg15260248
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rs12698186	0.0054	0.025	cg06715136
rs9277937	0.0054	<0.01	cg25057035
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rs7911727	0.0053	<0.01	cg06791446
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rs6600234	0.0053	0.044444	cg27084952
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rs7576705	0.0053	0.033333	cg23555395
rs2190935	0.0052	<0.01	cg16101574
rs256235	0.0052	0.025	cg24951781
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rs11596719	0.0050	<0.01	cg03179435
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rs12026838	0.0048	0.033333	cg04798314
rs3811988	0.0048	<0.01	cg22000984
rs7535952	0.0048	<0.01	cg00755546
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rs1105207	0.0047	<0.01	cg06737308
rs10788184	0.0047	0.02	cg06791446
rs4938354	0.0047	0.033333	cg16524733
rs1416836	0.0047	<0.01	cg14157578
rs4239439	0.0047	0.033333	cg17205313
rs4508039	0.0046	<0.01	cg00755546
rs12882789	0.0046	0.025	cg11787167
rs11596719	0.0045	0.033333	cg08734931
rs4961381	0.0044	0.05	cg17903548
rs3919526	0.0044	0.033333	cg16101574
rs2281389	0.0044	0.025	cg17294865
rs195413	0.0044	0.025	cg24796644
rs11596590	0.0044	0.033333	cg10616319
rs9616329	0.0044	0.025	cg10356904
rs4938354	0.0043	0.05	cg11861562
rs12728802	0.0043	0.016667	cg16558994
rs13223383	0.0042	<0.01	cg21341645

rs739236	0.0042	0.04	cg10356904
rs4958847	0.0041	<0.01	cg22000984
rs6960962	0.0041	0.042857	cg16101574
rs3758803	0.0040	0.04	cg24426391
rs4554200	0.0039	0.016667	cg22000984
rs10788184	0.0039	0.05	cg02210151
rs10119193	0.0039	0.04	cg14157578
rs10512367	0.0038	0.04	cg14157578

**Supplemental table S6:**

79 unique SNPs overlapping with gene exons.

SNP	Chr.	Position	Gene symbol	Exon ID	Start	End
rs11121648	1	5923788	NPHP4	ENSE00001821466	5922871	5924093
rs11121648	1	5923788	NPHP4	ENSE00001232767	5922871	5926518
rs610719	1	21020128	RP5-930J4.5	ENSE00001778613	21020076	21020224
rs8768	1	26497340	ZNF593	ENSE00000955851	26497066	26498551
rs8768	1	26497340	ZNF593	ENSE00001668894	26496909	26498551
rs8559	1	28564252	ATPIF1	ENSE00001876539	28562872	28564609
rs9508	1	28564279	ATPIF1	ENSE00001918899	28564272	28564616
rs9508	1	28564279	ATPIF1	ENSE00001876539	28562872	28564609
rs1409150	1	89473175	GBP3	ENSE00002583738	89472349	89473535
rs1409150	1	89473175	GBP3	ENSE00002628791	89472362	89473535
rs1409150	1	89473175	GBP3	ENSE00001941852	89472363	89473535
rs1409150	1	89473175	GBP3	ENSE00002615493	89472953	89473535
rs2809823	1	101003762	GPR88	ENSE00001258674	101003693	101004058
rs2030048	1	101006577	GPR88	ENSE00001451884	101004450	101007574
rs4845397	1	154832304	KCNN3	ENSE00001798524	154832171	154832319
rs2061690	1	154919080	PBXIP1	ENSE00001073606	154918048	154919279
rs2061690	1	154919080	PBXIP1	ENSE00001073606	154918048	154919279
rs2061690	1	154919080	PBXIP1	ENSE00001447181	154918455	154919279
rs2061690	1	154919080	PBXIP1	ENSE00001073606	154918048	154919279
rs2061690	1	154919080	PBXIP1	ENSE00001073606	154918048	154919279
rs708727	1	205767885	SLC41A1	ENSE00002829050	205767797	205767943
rs708727	1	205767885	SLC41A1	ENSE00002748365	205767797	205767943
rs3129586	1	246687586	RP11-690C23.2	ENSE00001705461	246687499	246687589
rs10925085	1	247752161	OR2G2	ENSE00001280164	247751662	247752615
rs7571971	2	88895351	EIF2AK3	ENSE00001735965	88895269	88895375
rs6974	2	89050126	RPIA	ENSE00001182788	89049498	89050427
rs2516835	2	99779131	LIPT1	ENSE00001834512	99778420	99779620
rs2516835	2	99779131	LIPT1	ENSE00001797528	99778420	99779174
rs2516835	2	99779131	LIPT1	ENSE00001816494	99778420	99779611
rs2516835	2	99779131	LIPT1	ENSE00001816494	99778420	99779611
rs2516835	2	99779131	LIPT1	ENSE00001816494	99778420	99779611
rs2516835	2	99779131	LIPT1	ENSE00001816494	99778420	99779611
rs2516835	2	99779131	LIPT1	ENSE00001816494	99778420	99779611
rs2378113	2	109066424	GCC2	ENSE00001873384	109066089	109066475
rs2378113	2	109066424	GCC2	ENSE00001578065	109066340	109066450
rs2108485	2	242021742	SNED1	ENSE00002914804	242021692	242021779
rs2108485	2	242021742	SNED1	ENSE00002914804	242021692	242021779
rs2108485	2	242021742	SNED1	ENSE00002802756	242021692	242021779
rs2108485	2	242021742	SNED1	ENSE00002914804	242021692	242021779
rs3796093	2	242039198	MTERFD2	ENSE00000827773	242038811	242039309
rs3796093	2	242039198	MTERFD2	ENSE00000827773	242038811	242039309
rs3796093	2	242039198	MTERFD2	ENSE00000827773	242038811	242039309
rs3796093	2	242039198	MTERFD2	ENSE00000827773	242038811	242039309
rs3796093	2	242039198	MTERFD2	ENSE00000827773	242038811	242039309
rs3796093	2	242039198	MTERFD2	ENSE00000827773	242038811	242039309
rs3796093	2	242039198	MTERFD2	ENSE00001952923	242038583	242039309
rs3796093	2	242039198	MTERFD2	ENSE00001662814	242038814	242039309
rs1131293	2	242046785	PASK	ENSE00002884488	242046768	242046914
rs1131293	2	242046785	PASK	ENSE00002960509	242046768	242046914
rs1131293	2	242046785	PASK	ENSE00002884488	242046768	242046914
rs1131293	2	242046785	PASK	ENSE00002884488	242046768	242046914
rs1131293	2	242046785	PASK	ENSE00002884488	242046768	242046914
rs1131293	2	242046785	PASK	ENSE00002884488	242046768	242046914
rs2074824	2	242051777	PASK	ENSE00000827778	242051655	242051854
rs2074824	2	242051777	PASK	ENSE00000827778	242051655	242051854
rs2074824	2	242051777	PASK	ENSE00000827778	242051655	242051854





rs2450772	8	144413416	TOP1MT	ENSE00002845712	144413394	144413509
rs2450772	8	144413416	TOP1MT	ENSE00002835394	144413394	144413509
rs2290416	8	144657600	NAPRT1	ENSE00002740298	144657593	144657695
rs2290416	8	144657600	NAPRT1	ENSE00002765179	144657593	144657695
rs2290416	8	144657600	NAPRT1	ENSE00002765179	144657593	144657695
rs2290416	8	144657600	NAPRT1	ENSE00002740298	144657593	144657695
rs2290416	8	144657600	NAPRT1	ENSE00002765179	144657593	144657695
rs2290416	8	144657600	NAPRT1	ENSE00002765179	144657593	144657695
rs2290416	8	144657600	NAPRT1	ENSE00002765179	144657593	144657695
rs3793371	8	144664299	EEF1D	ENSE00002147609	144663224	144666421
rs4874164	8	144675048	EEF1D	ENSE00002156570	144674885	144675063
rs4874164	8	144675048	EEF1D	ENSE00002178577	144674885	144675112
rs4874164	8	144675048	EEF1D	ENSE00002178577	144674885	144675112
rs4874164	8	144675048	EEF1D	ENSE00002140608	144674817	144675112
rs4874164	8	144675048	EEF1D	ENSE00002158534	144674817	144675063
rs4874164	8	144675048	EEF1D	ENSE00002158534	144674817	144675063
rs4874164	8	144675048	EEF1D	ENSE00002158534	144674817	144675063
rs4874164	8	144675048	EEF1D	ENSE00002158534	144674817	144675063
rs4874164	8	144675048	EEF1D	ENSE00002144104	144674824	144675063
rs6558406	8	144992103	PLEC	ENSE00001244232	144989321	144996563
rs6558406	8	144992103	PLEC	ENSE00001244232	144989321	144996563
rs6558406	8	144992103	PLEC	ENSE00001244232	144989321	144996563
rs6558406	8	144992103	PLEC	ENSE00001244232	144989321	144996563
rs6558406	8	144992103	PLEC	ENSE00001244232	144989321	144996563
rs6558406	8	144992103	PLEC	ENSE00001244232	144989321	144996563
rs6558406	8	144992103	PLEC	ENSE00001244232	144989321	144996563
rs6558406	8	144992103	PLEC	ENSE00001244232	144989321	144996563
rs6558406	8	144992103	PLEC	ENSE00002158741	144990345	144996563
rs10119193	9	110296686	RP11-438P9.1	ENSE00001650754	110296671	110296962
rs7859	9	130703565	FAM102A	ENSE00001180911	130702858	130705516
rs7859	9	130703565	FAM102A	ENSE00001896704	130703160	130706963
rs7859	9	130703565	FAM102A	ENSE00001948083	130703160	130705516
rs7859	9	130703565	FAM102A	ENSE00001850360	130703160	130704017
rs7859	9	130703565	FAM102A	ENSE00001811902	130703162	130705516
rs6478803	9	130703789	FAM102A	ENSE00001180911	130702858	130705516
rs6478803	9	130703789	FAM102A	ENSE00001896704	130703160	130706963
rs6478803	9	130703789	FAM102A	ENSE00001948083	130703160	130705516
rs6478803	9	130703789	FAM102A	ENSE00001850360	130703160	130704017
rs6478803	9	130703789	FAM102A	ENSE00001811902	130703162	130705516
rs4750090	10	11789382	ECHDC3	ENSE00002846921	11789348	11789469
rs4750090	10	11789382	ECHDC3	ENSE00002876216	11789348	11789469
rs4750090	10	11789382	ECHDC3	ENSE00002846921	11789348	11789469
rs4750090	10	11789382	ECHDC3	ENSE00001761547	11789274	11789469
rs7099565	10	116719543	TRUB1	ENSE00001097026	116719485	116719566
rs7099565	10	116719543	TRUB1	ENSE00001946012	116719485	116719759
rs2242566	11	295876	ATHL1	ENSE00002159295	294556	296107
rs11748	11	403980	PKP3	ENSE00001308715	403943	404135
rs4074794	11	409815	SIGIRR	ENSE00002179724	409466	410027
rs2055249	11	20397723	HTATIP2	ENSE00002196905	20397563	20398263
rs11216781	11	118012310	SCN4B	ENSE00002162246	118011922	118012579
rs10122	12	58350631	XRCC6BP1	ENSE00001107587	58350470	58351052
rs10122	12	58350631	XRCC6BP1	ENSE00002423561	58350470	58350673
rs10122	12	58350631	XRCC6BP1	ENSE00002406173	58350470	58350723
rs4076700	12	117383320	FBXW8	ENSE00000835049	117383169	117383333
rs4076700	12	117383320	FBXW8	ENSE00000835049	117383169	117383333
rs4076700	12	117383320	FBXW8	ENSE00000835049	117383169	117383333
rs2170810	14	22972742	TRAJ37	ENSE00001508129	22972735	22972797
rs9323533	14	70690877	RP11-486O13.2	ENSE00002533112	70690724	70690914
rs11847295	14	105779305	BRF1	ENSE00002372990	105766783	105781926

rs4076933	14	105848891	PACS2	ENSE00002775837	105848814	105848918
rs4076933	14	105848891	PACS2	ENSE00002775837	105848814	105848918
rs4076933	14	105848891	PACS2	ENSE00002775837	105848814	105848918
rs4076933	14	105848891	PACS2	ENSE00002775837	105848814	105848918
rs4076933	14	105848891	PACS2	ENSE00002878211	105848814	105848918
rs4076933	14	105848891	PACS2	ENSE00002878211	105848814	105848918
rs4076933	14	105848891	PACS2	ENSE00002775837	105848814	105848918
rs12595568	15	38990803	C15orf53	ENSE00001219749	38990339	38992239
rs4262947	16	950922	LA16c-306A4.2	ENSE00002599765	950520	952578
rs1054645	16	1270162	CACNA1H	ENSE00002630254	1269981	1271768
rs1054645	16	1270162	CACNA1H	ENSE00002613592	1269981	1271084
rs1054645	16	1270162	CACNA1H	ENSE00002613592	1269981	1271084
rs1054645	16	1270162	CACNA1H	ENSE00002613592	1269981	1271084
rs1054645	16	1270162	CACNA1H	ENSE00002613592	1269981	1271084
rs1054645	16	1270162	CACNA1H	ENSE00002617538	1269981	1271765
rs1054645	16	1270162	CACNA1H	ENSE00001493467	1269981	1271771
rs8587	16	85813231	EMC8	ENSE00002849512	85812230	85813473
rs8587	16	85813231	EMC8	ENSE00002768705	85812230	85813473
rs12449695	17	4495740	SMTNL2	ENSE00002833218	4495656	4495743
rs12449695	17	4495740	SMTNL2	ENSE00002813055	4495656	4495743
rs12449695	17	4495740	SMTNL2	ENSE00002674303	4495650	4495743
rs7406009	17	21436581	C17orf51	ENSE00002295897	21431571	21438799
rs7406009	17	21436581	C17orf51	ENSE00001671380	21435738	21437832
rs7406009	17	21436581	C17orf51	ENSE00001875421	21435876	21437282
rs2074158	17	40257163	DHX58	ENSE00002830371	40257036	40257185
rs2074158	17	40257163	DHX58	ENSE00002790578	40257036	40257185
rs2074158	17	40257163	DHX58	ENSE00002790578	40257036	40257185
rs6504593	17	47132819	IGF2BP1	ENSE00001218472	47126714	47133012
rs3803792	17	72277879	DNAI2	ENSE00002271888	72277651	72278139
rs3803792	17	72277879	DNAI2	ENSE00002271888	72277651	72278139
rs10512598	17	73038132	ATP5H	ENSE00002718103	73037527	73038372
rs11077773	17	73060073	KCTD2	ENSE00002715311	73059113	73061984
rs11077773	17	73060073	KCTD2	ENSE00001307943	73059113	73061979
rs1128889	17	74002930	EVPL	ENSE00001117959	74002926	74006624
rs11653662	17	80071450	CCDC57	ENSE00001511537	80069862	80071641
rs11653662	17	80071450	CCDC57	ENSE00001511537	80069862	80071641
rs11653662	17	80071450	CCDC57	ENSE00001246985	80069868	80071641
rs7230037	18	72914280	ZADH2	ENSE00001403351	72907063	72914295
rs7230037	18	72914280	ZADH2	ENSE00002266862	72911412	72914295
rs7230037	18	72914280	ZADH2	ENSE00002729031	72913672	72914295
rs7230037	18	72914280	ZADH2	ENSE00002686241	72913833	72914295
rs2074639	19	840984	PRTN3	ENSE00001234969	840974	841069
rs351111	19	844020	PRTN3	ENSE00002818997	843893	844034
rs351111	19	844020	PRTN3	ENSE00002926212	843893	844034
rs3803892	19	14000170	C19orf57	ENSE00001055366	14000001	14001275
rs3803892	19	14000170	C19orf57	ENSE00001055366	14000001	14001275
rs3803892	19	14000170	C19orf57	ENSE00002955878	14000001	14000249
rs3803892	19	14000170	C19orf57	ENSE00002768722	14000001	14000754
rs3803892	19	14000170	C19orf57	ENSE00001055366	14000001	14001275
rs4072287	19	18475675	PGPEP1	ENSE00000951782	18474201	18480763
rs10415880	19	50189156	PRMT1	ENSE00002142490	50188981	50189500
rs17740650	19	52130488	SIGLEC5	ENSE00002969571	52130402	52130501
rs17740650	19	52130488	SIGLEC5	ENSE00002784699	52130402	52130501
rs17740650	19	52130488	SIGLEC5	ENSE00002784699	52130402	52130501
rs6509933	19	55683104	SYT5	ENSE00002772593	55682567	55685052
rs6509933	19	55683104	SYT5	ENSE00002764071	55682591	55685052
rs6509933	19	55683104	SYT5	ENSE00002898194	55683055	55683149
rs13585	22	46753179	TRMU	ENSE00001660722	46752739	46753232
rs13585	22	46753179	TRMU	ENSE00001609244	46752739	46753234

rs13585	22	46753179	TRMU	ENSE00001609244	46752739	46753234
rs13585	22	46753179	TRMU	ENSE00001609244	46752739	46753234
rs13585	22	46753179	TRMU	ENSE00001609244	46752739	46753234
rs13585	22	46753179	TRMU	ENSE00001868921	46752739	46753237
rs13585	22	46753179	TRMU	ENSE00001927271	46751341	46753234
rs13585	22	46753179	TRMU	ENSE00001878208	46752739	46753236
rs13585	22	46753179	TRMU	ENSE00001900691	46752739	46753235
rs3213445	22	51015838	CPT1B	ENSE00002918594	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00002918594	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00002918594	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00001916095	51015785	51015892
rs3213445	22	51015838	CPT1B	ENSE00002810716	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00002918594	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00002918594	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00002918594	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00002918594	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00002918594	51015753	51015892
rs3213445	22	51015838	CPT1B	ENSE00002810716	51015753	51015892
rs3213445	22	51015838	CHKB-CPT1B	ENSE00002780900	51015753	51015892
rs3213445	22	51015838	CHKB-CPT1B	ENSE00002780900	51015753	51015892

**Supplemental table S7:**

Model-based Gene Set Analysis comparing 598 SNPs and GWA studies available at GWASdb.

<b>Enriched phenotype</b>	<b>SNPs in population</b>	<b>SNPs in study</b>	<b>Score</b>	<b>Standard error</b>	<b>SNP</b>
Hepatitis B	14	6	9.99E-01	5.18E-04	rs9277535, rs2395309, rs3077, rs2301220, rs3117222, rs3128917
Cognitive performance	550	2	0.00E+00	0.00E+00	rs4597375, rs6600234
Serum markers of iron status	67	2	0.00E+00	0.00E+00	rs6773354, rs6794945
Primary tooth development (time to first tooth eruption)	7	1	1.46E-02	7.55E-04	rs9674544
Primary tooth development (number of teeth)	10	1	5.01E-03	5.26E-04	rs9674544
Progressive supranuclear palsy	12	1	2.67E-03	3.29E-04	rs7571971
Hepatitis B vaccine response	4	1	1.50E-03	4.84E-05	rs9277535
Information processing speed	26	1	6.48E-05	1.98E-05	rs11077773
Attention deficit hyperactivity disorder	80	1	0.00E+00	0.00E+00	rs2290416
Crohn`s disease	113	1	0.00E+00	0.00E+00	rs7714584
Menarche (age at onset)	63	1	0.00E+00	0.00E+00	rs900145
HIV-1 control	53	1	0.00E+00	0.00E+00	rs12122100

**Supplemental table S8:**10 HBV-associated SNPs associated to 17 CpG sites (Pearson's correlation,  $\rho > 0.6$ ).

Gene symbol	Gene feature	TargetID	SNP ID	Pearson's correlation
HLA-DPA1	Promoter	cg15253861	rs3077	0.87
HLA-DPA1	Promoter	cg15253861	rs2395309	0.87
HLA-DPA1	Promoter	cg05366160	rs3077	0.84
HLA-DPA1	Promoter	cg05366160	rs2395309	0.84
HLA-DPA1	Promoter	cg20981163	rs3117222	0.82
HLA-DPA1	Promoter	cg17294865	rs3117222	0.77
HLA-DPA1	Promoter	cg02904996	rs3077	0.69
HLA-DPA1	Promoter	cg02904996	rs2395309	0.67
HLA-DPA1	Promoter	cg15253861	rs9277341	0.67
HLA-DPA1	Promoter	cg05366160	rs9277341	0.65
HLA-DPA1	Promoter	cg20981163	rs2301220	0.60
HLA-DPA1	Promoter	cg20981163	rs3077	-0.60
HLA-DPA1	Promoter	cg17294865	rs3077	-0.60
HLA-DPA1	Promoter	cg20981163	rs2395309	-0.60
HLA-DPA1	Promoter	cg17294865	rs2395309	-0.61
HLA-DPA1	Promoter	cg17294865	rs9277535	-0.65
HLA-DPA1	Promoter	cg02904996	rs2301220	-0.68
HLA-DPA1	Promoter	cg20981163	rs9277535	-0.69
HLA-DPA1	Promoter	cg17294865	rs3128917	-0.77
HLA-DPA1	Promoter	cg20981163	rs3128917	-0.82
HLA-DPA1	Promoter	cg05366160	rs2301220	-0.84
HLA-DPA1	Promoter	cg15253861	rs2301220	-0.87
HLA-DPA1	Body	cg13661648	rs2301220	0.97
HLA-DPA1	Body	cg12858166	rs2301220	0.96
HLA-DPA1	Body	cg25283336	rs2301220	0.92
HLA-DPA1	Body	cg09737870	rs2395309	0.90
HLA-DPA1	Body	cg09737870	rs3077	0.90
HLA-DPA1	Body	cg11437465	rs2301220	0.89
HLA-DPA1	Body	cg18715193	rs2301220	0.85
HLA-DPA1	Body	cg14302130	rs2301220	0.82
HLA-DPA1	Body	cg05751055	rs2301220	0.81
HLA-DPA1	Body	cg05995528	rs2395309	0.79
HLA-DPA1	Body	cg05995528	rs3077	0.79
HLA-DPA1	Body	cg15680603	rs2301220	0.77
HLA-DPA1	Body	cg22037249	rs2301220	0.77
HLA-DPA1	Body	cg09737870	rs9277341	0.72
HLA-DPA1	Body	cg23195763	rs2281388	0.70
HLA-DPA1	Body	cg23195763	rs9380343	0.69
HLA-DPA1	Body	cg23195763	rs10484569	0.65
HLA-DPA1	Body	cg05995528	rs9277341	0.62
HLA-DPA1	Body	cg23195763	rs2301220	0.62
HLA-DPA1	Body	cg23195763	rs2395309	-0.60
HLA-DPA1	Body	cg23195763	rs3077	-0.61
HLA-DPA1	Body	cg05751055	rs9277341	-0.62
HLA-DPA1	Body	cg22037249	rs9277341	-0.63
HLA-DPA1	Body	cg14302130	rs9277341	-0.64
HLA-DPA1	Body	cg18715193	rs9277341	-0.65
HLA-DPA1	Body	cg11437465	rs9277341	-0.67
HLA-DPA1	Body	cg25283336	rs9277341	-0.72
HLA-DPA1	Body	cg12858166	rs9277341	-0.76
HLA-DPA1	Body	cg22037249	rs3077	-0.76
HLA-DPA1	Body	cg22037249	rs2395309	-0.76
HLA-DPA1	Body	cg15680603	rs2395309	-0.76
HLA-DPA1	Body	cg15680603	rs3077	-0.77
HLA-DPA1	Body	cg13661648	rs9277341	-0.77

HLA-DPA1	Body	cg05995528	rs2301220	-0.78
HLA-DPA1	Body	cg05751055	rs2395309	-0.81
HLA-DPA1	Body	cg05751055	rs3077	-0.81
HLA-DPA1	Body	cg14302130	rs2395309	-0.82
HLA-DPA1	Body	cg14302130	rs3077	-0.82
HLA-DPA1	Body	cg18715193	rs2395309	-0.86
HLA-DPA1	Body	cg18715193	rs3077	-0.86
HLA-DPA1	Body	cg11437465	rs2395309	-0.89
HLA-DPA1	Body	cg09737870	rs2301220	-0.89
HLA-DPA1	Body	cg11437465	rs3077	-0.89
HLA-DPA1	Body	cg25283336	rs3077	-0.93
HLA-DPA1	Body	cg25283336	rs2395309	-0.93
HLA-DPA1	Body	cg12858166	rs2395309	-0.97
HLA-DPA1	Body	cg12858166	rs3077	-0.97
HLA-DPA1	Body	cg13661648	rs2395309	-0.98
HLA-DPA1	Body	cg13661648	rs3077	-0.98