

Supplementary Table S10. Genetic regulation at replicated differentially methylated CpG sites (DMCs) in the SLE case-control epigenome-wide association study (EWAS). Significant methylation quantitative trait loci (meQTLs) are listed with top SNP per CpG site.

Chr	CpG position hg18	DMC CpG	CpG gene	Top SNP	SNP position hg18	SLE meQTL p Value	Control meQTL p Value
1	2754529	cg03976856	<i>Intergenic</i>	rs12049543	2751235	1,02E-16	1,76E-06
1	7764746	cg22229039	<i>Intergenic</i>	rs697681	7764276	5,57E-07	1,33E-15
1	7927695	cg24663338	<i>Intergenic</i>	rs9434948	7927550	1,25E-07	7,44E-17
1	9076837	cg17952939	<i>Intergenic</i>	rs11802925	9151211	8,79E-08	7,87E-10
1	9076841	cg16553238	<i>Intergenic</i>	rs11802925	9151211	4,40E-13	1,08E-14
1	11785494	cg17514528	<i>MTHFR</i>	rs4846052	11780538	3,87E-18	4,93E-15
1	17506268	cg23228178	<i>PADI4</i>	rs2977301	17483189	3,10E-04	2,08E-11
1	20786615	cg24502330	<i>CDA</i>	rs1043424	20849587	4,75E-10	4,56E-18
1	25124317	cg03961551	<i>RUNX3</i>	rs1507101	25123913	1,05E-04	4,40E-10
1	25164133	cg27058497	<i>RUNX3</i>	rs16830188	25171428	3,87E-08	2,58E-09
1	35449076	cg12633102	<i>Intergenic</i>	rs7543044	35446898	2,88E-21	1,18E-18
1	38239131	cg08423562	<i>FHL3</i>	rs4634868	38237902	1,41E-09	1,31E-07
1	43190786	cg15089806	<i>SLC2A1</i>	rs3754223	43191678	1,25E-36	5,70E-26
1	56733907	cg07477602	<i>PPAP2B</i>	rs1261411	56790327	2,99E-15	8,69E-08
1	85177669	cg10230190	<i>MCOLN2</i>	rs679961	85190367	7,15E-07	4,69E-09
1	89365313	cg15718932	<i>GBP2</i>	rs1410871	89428582	1,42E-04	3,70E-11
1	100956920	cg04295372	<i>VCAM1</i>	rs1409419	100955984	3,14E-20	6,02E-20
1	108462753	cg06207961	<i>Intergenic</i>	rs1777483	108410931	5,63E-23	5,12E-13
1	110980531	cg07706695	<i>Intergenic</i>	rs11102140	110973936	6,45E-11	1,21E-07
1	111019799	cg03483626	<i>KCNA3</i>	rs2821557	111020443	3,71E-11	4,65E-09
1	111535191	cg15591803	<i>DENND2D</i>	rs11102212	111443554	1,72E-62	1,44E-75
1	120238613	cg07814932	<i>ADAM30</i>	rs6685892	120259527	3,18E-10	3,85E-06
1	150276335	cg10069121	<i>S100A11</i>	rs3007676	150274223	1,36E-12	1,99E-08
1	152704317	cg21262032	<i>IL6R</i>	rs2229238	152704520	4,11E-24	1,19E-19
1	153455528	cg14665690	<i>GBAP1</i>	rs188271457	153399722	1,43E-05	2,51E-09
1	155802920	cg00699569	<i>Intergenic</i>	rs2777965	155817041	5,77E-10	2,17E-01
1	159100184	cg11939496	<i>CD244</i>	rs10908807	159103338	4,89E-27	2,84E-20
1	170456351	cg16696002	<i>DNM3</i>	rs678962	170456512	8,00E-12	2,93E-06
1	190811525	cg02586212	<i>RGS1</i>	rs1323292	190807644	1,32E-176	7,94E-203
1	196841700	cg07504763	<i>Intergenic</i>	rs72736041	196818316	8,36E-12	3,57E-04
1	202732207	cg20240347	<i>Intergenic</i>	rs4951401	202804271	1,14E-33	2,07E-38
1	203446206	cg03948781	<i>DSTYK</i>	rs1172147	203492080	1,17E-59	6,57E-43
1	203447860	cg24159697	<i>DSTYK</i>	rs1172147	203492080	1,24E-25	1,15E-11
1	203448204	cg17889831	<i>DSTYK</i>	rs1172147	203492080	4,84E-13	6,40E-06
1	204009967	cg16031515	<i>RAB7L1</i>	rs708724	204010286	7,22E-60	8,28E-60
1	204795657	cg06949439	<i>RASSF5</i>	rs71633592	204812136	1,61E-22	2,29E-31
1	204795663	cg01442843	<i>RASSF5</i>	rs12724616	204823693	4,35E-12	3,52E-09
1	204795722	cg02035751	<i>RASSF5</i>	rs71633592	204812136	7,79E-09	1,31E-10
1	205575957	cg15732149	<i>CD55</i>	rs12734973	205663275	8,09E-06	7,19E-14
1	224338422	cg16532282	<i>Intergenic</i>	rs12096737	224343177	6,70E-22	4,28E-31
1	245683309	cg14830002	<i>OR2B11</i>	rs10733113	245688980	1,62E-51	4,02E-42
2	10868701	cg14465207	<i>PDIA6</i>	rs1686447	10852675	1,04E-16	2,08E-08
2	33213033	cg03906115	<i>LTBP1</i>	rs438695	33151087	6,88E-10	4,07E-07
2	37270387	cg05538887	<i>SULT6B1</i>	rs4233921	37207653	1,03E-09	4,12E-05
2	38211729	cg27141474	<i>C2orf58</i>	rs10175368	38161365	1,50E-07	6,37E-10
2	43203917	cg12018969	<i>Intergenic</i>	rs12328347	43204773	2,52E-11	2,56E-06
2	43249375	cg15440661	<i>Intergenic</i>	rs2052923	43265324	2,98E-10	1,40E-04
2	47051302	cg10818566	<i>TTC7A</i>	rs12479328	47033527	3,29E-11	5,27E-07
2	47570748	cg04185310	<i>Intergenic</i>	rs10188090	47562657	2,44E-13	2,77E-10
2	48649498	cg14965639	<i>STON1-GTF2A1L</i>	rs17397852	48675618	7,75E-17	1,09E-14
2	55490059	cg13359689	<i>CCDC88A</i>	rs11125568	55489009	5,33E-13	7,50E-07
2	61460982	cg02054108	<i>USP34</i>	rs988911	61461014	6,29E-16	2,47E-10
2	65447437	cg08467103	<i>SPRED2</i>	rs7590888	65420816	6,22E-02	4,39E-09
2	69124546	cg13358873	<i>ANTXR1</i>	rs12468876	69098071	5,66E-09	9,89E-03
2	85605759	cg12450823	<i>Intergenic</i>	rs11695848	85546510	3,55E-18	9,75E-11
2	100003034	cg14057383	<i>AFF3</i>	rs114036686	100002992	1,97E-10	4,84E-14
2	102097839	cg00790071	<i>Intergenic</i>	rs1558643	102098123	6,81E-87	1,95E-80
2	102293920	cg11916609	<i>IL1RL1</i>	rs2310220	102318283	1,05E-11	3,70E-05
2	104741427	cg22365240	<i>Intergenic</i>	rs403491	104762723	3,00E-06	2,04E-12
2	106341263	cg06351682	<i>Intergenic</i>	rs4502405	106363635	1,44E-04	7,84E-17
2	112184943	cg23262488	<i>Intergenic</i>	rs17777974	112180515	1,35E-42	1,08E-34
2	113310256	cg15836722	<i>IL1B</i>	rs1143627	113310858	1,57E-15	3,59E-08
2	144165156	cg12058385	<i>ARHGAP15</i>	rs16822931	144166762	6,07E-24	1,03E-15
2	152971534	cg00059089	<i>FMNL2</i>	rs9917302	152983562	5,64E-11	2,20E-18
2	158685719	cg07151747	<i>UPP2</i>	rs2355164	158607788	2,67E-05	1,16E-09
2	173014111	cg15021238	<i>ITGA6</i>	rs12621278	173019799	1,56E-03	3,49E-11
2	173503447	cg00883212	<i>RAPGEF4</i>	rs2044517	173516817	8,12E-19	3,76E-11
2	218699221	cg06547715	<i>CXCR2</i>	rs4674259	218699250	4,83E-46	9,60E-34
2	218895618	cg22712983	<i>PNKD</i>	rs4672884	218890725	2,13E-11	1,56E-10

2	219284627	cg25925210	TLL4	rs2710246	219242138	1,28E-107	5,73E-114
2	232290638	cg20627754	Intergenic	rs6755895	232288039	1,40E-13	3,63E-12
2	241696891	cg19397991	PASK	rs13411510	241664323	1,87E-09	1,30E-09
3	4487309	cg12602909	Intergenic	rs711636	4464777	1,29E-37	1,29E-45
3	16899713	cg23220897	Intergenic	rs11929434	16874035	1,89E-28	8,44E-38
3	16949221	cg19448816	PLCL2	rs1025818	16940025	1,78E-30	1,86E-37
3	32438717	cg07116972	CMTM7	rs636006	32426349	1,69E-05	4,31E-09
3	41977234	cg02108620	ULK4	rs1716975	41935010	4,66E-23	7,26E-13
3	47026537	cg22292345	LOC100129354	rs2061197	46976354	1,46E-36	1,06E-40
3	47026550	cg24257776	LOC100129354	rs2061197	46976354	2,03E-26	4,50E-31
3	48648935	cg21800196	SLC26A6	rs17080319	48707484	1,72E-07	4,03E-10
3	49566012	cg08510456	BSN	rs1801143	49545204	8,01E-10	3,36E-06
3	52208059	cg15698299	ALAS1	rs187084	52236071	5,29E-06	4,62E-13
3	53140002	cg11184109	RFT1	rs9828221	53141699	1,99E-11	3,99E-16
3	55531237	cg10753966	ERC2	rs1160047	55506999	1,28E-09	3,32E-11
3	66526812	cg00225902	LRIG1	rs13434228	66456303	6,32E-12	1,09E-09
3	109609485	cg14479344	MYH15	rs4855559	109597726	1,12E-32	1,62E-30
3	120512713	cg25664938	ARHGAP31	rs16829639	120475655	8,80E-22	3,80E-17
3	120983619	cg25574175	NR1I2	rs3814055	120982725	6,78E-10	3,72E-10
3	134777544	cg21466315	CDV3	rs6781238	134780810	4,22E-10	2,78E-05
3	159928689	cg04481170	RARRES1	rs1870830	160024291	7,11E-05	1,53E-09
3	185776059	cg20438472	EPHB3	rs7652597	185776463	1,83E-27	3,88E-13
3	195570762	cg14180696	LRRC15	rs6789147	195570200	4,16E-29	1,07E-20
3	197014548	cg19478698	MUC4	rs12487782	197084624	2,25E-04	1,65E-09
3	197831627	cg03307177	Intergenic	rs1385331	197835612	3,27E-56	1,72E-61
4	6746376	cg07210669	S100P	rs3822262	6748667	3,04E-08	3,26E-12
4	7121780	cg06697600	GRPEL1	rs907526	7135736	1,21E-13	1,04E-26
4	25704536	cg16847428	Intergenic	rs1877386	25721647	1,02E-31	9,16E-37
4	37815345	cg08462501	TBC1D1	rs17580037	37817634	1,91E-18	2,30E-20
4	38352954	cg24279243	KLF3	rs337641	38288197	4,05E-21	1,04E-21
4	38848638	cg24403649	Intergenic	rs6831700	38933359	3,58E-10	2,07E-08
4	47824626	cg13974313	TXK	rs12649067	47860970	3,24E-16	2,88E-26
4	89115232	cg02549628	SPP1	rs45594140	89115776	1,10E-10	9,32E-09
4	128924101	cg23415995	HSPA4L	rs10493147	128956949	3,43E-07	1,85E-13
5	501790	cg17500228	EXOC3	rs2672744	464047	3,28E-11	1,38E-15
5	10885172	cg14521931	Intergenic	rs267949	10796929	2,92E-05	1,98E-14
5	39202928	cg14555759	FYB	rs6896856	39180975	5,06E-17	1,07E-15
5	43036547	cg09743437	Intergenic	rs11550287	43028194	8,46E-32	1,11E-31
5	43036895	cg14707231	Intergenic	rs11550287	43028194	3,99E-11	9,40E-09
5	77619671	cg11100795	AP3B1	rs11742673	77535322	1,29E-12	5,26E-14
5	95278414	cg16998950	ELL2	rs17085249	95262171	3,25E-10	2,43E-08
5	96096672	cg10202975	CAST	rs27531	96090389	3,12E-33	4,46E-13
5	96105189	cg02291010	CAST	rs151904	96092408	8,67E-43	8,77E-19
5	96319943	cg08175413	LNPEP	rs27302	96399506	1,34E-04	1,02E-15
5	131851350	cg15375424	IRF1	rs10072571	131844610	8,15E-15	8,70E-13
5	133875710	cg21975834	Intergenic	rs4958191	133928475	4,48E-14	5,06E-09
5	138742553	cg18446110	SLC23A1	rs12516732	138749063	4,08E-09	2,69E-11
5	139065357	cg21230503	Intergenic	rs6884009	139149061	1,09E-10	1,01E-08
5	150137919	cg16646054	C5orf62	rs73280105	150139608	4,82E-26	6,58E-21
5	153755659	cg07452312	GALNT10	rs34198899	153837231	3,24E-05	6,49E-10
5	156924088	cg25077558	ADAM19	rs11465226	156936229	3,88E-24	1,71E-12
5	159293380	cg16162590	ADRA1B	rs6884129	159311160	6,46E-04	6,42E-09
5	159823503	cg08688907	Intergenic	rs2431097	159823463	3,61E-11	1,17E-16
5	171436669	cg23367341	STK10	rs6866684	171440136	4,66E-11	3,27E-08
5	173245472	cg21566177	Intergenic	rs72810972	173239934	8,27E-42	7,94E-57
5	173249948	cg06889108	CPEB4	rs80079682	173224479	2,45E-14	7,81E-15
5	177846040	cg05206633	COL23A1	rs17081201	177778022	3,54E-09	1,99E-03
6	353730	cg16478536	IRF4	rs114595725	353815	1,46E-13	8,98E-11
6	392777	cg13299325	Intergenic	rs55683615	386043	1,49E-13	1,58E-16
6	2903749	cg15068318	SERPINB6	rs7743193	2915567	8,97E-08	2,63E-13
6	2903851	cg19886655	SERPINB6	rs7743193	2915567	1,77E-09	3,06E-05
6	2915876	cg01137047	SERPINB6	rs2295767	2899556	1,10E-07	6,14E-11
6	27949844	cg10536916	HIST1H4L	rs6910968	28012160	1,59E-04	2,48E-15
6	27950077	cg01247537	HIST1H4L	rs6910968	28012160	6,53E-09	3,00E-15
6	28982681	cg05314350	TRIM27	rs116786238	29004893	5,33E-10	1,27E-04
6	28995815	cg05216056	TRIM27	rs115862758	28993953	1,98E-45	1,56E-34
6	29725299	cg13638427	Intergenic	rs115639091	29776055	2,12E-16	1,01E-12
6	30003166	cg15411272	Intergenic	rs115779279	29944442	1,47E-105	6,41E-117
6	30019529	cg17608381	HLA-A	rs116543076	30023280	1,51E-28	1,15E-62
6	30081386	cg21723245	ZNRD1-AS1, HLA-J	rs115179837	30057476	1,02E-49	3,67E-37
6	30283053	cg14799927	TRIM26	rs3132671	30286266	1,04E-06	4,90E-09
6	30421525	cg20856330	RPP21	rs116049013	30405508	2,01E-12	9,55E-13
6	30812934	cg09179723	FLOT1	rs116338781	30796406	2,30E-27	9,32E-35

6	30828059	cg06126421	<i>Intergenic</i>	rs115791538	30828290	8,58E-12	8,95E-08
6	30828087	cg14753356	<i>Intergenic</i>	rs115154010	30872220	9,69E-12	2,04E-04
6	30904188	cg27154651	<i>Intergenic</i>	rs116640131	30897644	2,23E-33	6,40E-45
6	30904222	cg22028727	<i>Intergenic</i>	rs115309526	30896567	7,23E-25	3,54E-36
6	31647952	cg09621572	<i>LTA</i>	rs142541719	31648763	7,04E-28	2,06E-37
6	31647965	cg14437551	<i>LTA</i>	rs142541719	31648763	3,22E-28	8,17E-33
6	31647993	cg21999229	<i>LTA</i>	rs115272866	31609191	2,13E-27	1,49E-23
6	31648030	cg02402436	<i>LTA</i>	rs3130630	31618912	3,84E-56	1,82E-48
6	31648378	cg01157951	<i>LTA</i>	rs115472486	31614189	1,66E-44	7,09E-45
6	31648390	cg22318806	<i>LTA</i>	rs148958203	31651010	2,43E-07	4,07E-13
6	31648435	cg17709873	<i>LTA</i>	rs138845870	31648408	2,09E-51	4,61E-61
6	31648438	cg16280132	<i>LTA</i>	rs138845870	31648408	9,78E-18	4,60E-21
6	31648440	cg26348243	<i>LTA</i>	rs138845870	31648408	2,70E-09	1,36E-13
6	31648729	cg00501919	<i>LTA</i>	rs138853494	31648292	7,50E-47	4,00E-71
6	31650438	cg27531490	<i>TNF</i>	rs1800610	31651806	7,80E-33	1,36E-42
6	31662827	cg14324675	<i>LST1</i>	rs9469027	31662693	4,38E-32	5,98E-13
6	31691894	cg19563932	<i>AIF1</i>	rs114916196	31691910	7,44E-13	6,70E-21
6	31698849	cg00774102	<i>PRRC2A</i>	rs115641390	31701455	7,77E-06	4,58E-12
6	31715627	cg15809217	<i>BAG6</i>	rs116383790	31736712	6,58E-06	2,91E-10
6	31757598	cg22708150	<i>LY6G5C</i>	rs114741093	31690004	2,74E-11	4,58E-09
6	31813252	cg21769117	<i>CLIC1</i>	rs144656100	31823861	4,33E-15	3,15E-09
6	31814998	cg20640261	<i>MSH5</i>	rs115392083	31857121	2,82E-12	1,23E-08
6	31908864	cg16656520	<i>Intergenic</i>	rs2075801	31836246	1,65E-06	2,49E-10
6	32229203	cg14130039	<i>PPT2</i>	rs116733664	32247791	3,90E-10	3,70E-07
6	32229227	cg05133205	<i>PPT2</i>	rs115419732	32229572	7,96E-13	3,74E-15
6	32229237	cg17329164	<i>PPT2</i>	rs115419732	32229572	8,16E-19	3,80E-20
6	32229239	cg18049167	<i>PPT2</i>	rs115419732	32229572	4,09E-22	3,74E-24
6	32229371	cg13102294	<i>PPT2</i>	rs114358227	32240211	1,08E-24	2,90E-18
6	32229398	cg00552704	<i>PPT2</i>	rs114358227	32240211	1,04E-24	5,29E-19
6	32229411	cg06264679	<i>PPT2</i>	rs114358227	32240211	1,79E-24	2,56E-16
6	32272779	cg06023661	<i>NOTCH4</i>	rs115161993	32300595	5,40E-17	4,90E-13
6	32837108	cg07180897	<i>HLA-DQB2</i>	rs3891175	32742445	1,19E-183	4,44E-212
6	32873380	cg03639929	<i>Intergenic</i>	rs116050403	32884392	6,76E-18	7,77E-21
6	32919229	cg08099136	<i>PSMB8</i>	rs142515134	32919623	1,37E-06	3,12E-12
6	32919231	cg01309328	<i>PSMB8</i>	rs142523340	32922880	4,38E-02	1,58E-13
6	32930889	cg07156249	<i>PSMB9</i>	rs139386677	32934428	1,06E-93	8,30E-129
6	33012052	cg13524037	<i>HLA-DMB</i>	rs115701611	33021224	1,42E-21	3,46E-11
6	33249984	cg15818109	<i>COL11A2</i>	rs149528247	33251114	3,59E-66	1,26E-64
6	33283125	cg26106778	<i>RING1</i>	rs150764138	33280910	5,77E-10	5,39E-03
6	33508506	cg07417146	<i>SYNGAP1</i>	rs141802049	33512042	2,19E-29	2,51E-27
6	33508521	cg22875823	<i>SYNGAP1</i>	rs141802049	33512042	1,34E-62	1,22E-54
6	33509498	cg14928932	<i>SYNGAP1</i>	rs141802049	33512042	6,33E-19	7,59E-10
6	34868850	cg07306190	<i>UHRF1BP1</i>	rs4513788	34802757	1,11E-24	2,39E-28
6	35112758	cg11478024	<i>ANKS1A</i>	rs12525532	35112797	3,77E-24	8,89E-26
6	36127990	cg16145324	<i>MAPK14</i>	rs7775290	36144887	1,61E-11	3,94E-07
6	107064097	cg27632402	<i>Intergenic</i>	rs2247335	107099285	1,33E-15	2,31E-16
6	107064190	cg20661257	<i>Intergenic</i>	rs2247335	107099285	3,10E-09	1,10E-10
6	133077072	cg24964103	<i>VNN1</i>	rs3798792	133074452	1,57E-53	5,98E-39
6	151229952	cg16336494	<i>MTHFD1L</i>	rs11754661	151248771	6,98E-09	3,87E-11
6	157024996	cg08839808	<i>Intergenic</i>	rs6557508	157045827	1,47E-07	4,37E-09
6	166796816	cg11744817	<i>RPS6KA2</i>	rs9459678	166803971	5,75E-19	9,08E-23
6	166796880	cg06702850	<i>RPS6KA2</i>	rs9459678	166803971	3,61E-09	8,56E-05
6	167427558	cg26954951	<i>Intergenic</i>	rs86757	167427666	1,29E-16	9,20E-10
6	169907830	cg21762728	<i>C6orf70</i>	rs4716396	169915839	5,51E-21	1,45E-11
7	1033176	cg04816311	<i>C7orf50</i>	rs2363286	1058151	1,47E-19	2,24E-16
7	1049835	cg08973950	<i>C7orf50</i>	rs2363286	1058151	4,89E-16	3,55E-11
7	1068664	cg23657099	<i>C7orf50</i>	rs2363286	1058151	7,16E-45	5,05E-25
7	1825442	cg22963979	<i>MAD1L1</i>	rs13234909	1833457	1,67E-25	1,67E-26
7	1849777	cg25814293	<i>MAD1L1</i>	rs10275045	1887352	3,80E-21	6,04E-19
7	1850918	cg21422361	<i>MAD1L1</i>	rs3889797	1844450	4,81E-26	4,54E-17
7	1952827	cg16993108	<i>MAD1L1</i>	rs10237340	1953618	1,30E-11	1,00E-09
7	2086025	cg12492273	<i>MAD1L1</i>	rs3800917	2134465	4,98E-10	1,45E-02
7	2814101	cg18446336	<i>GNA12</i>	rs798544	2729628	5,95E-17	2,54E-30
7	2841094	cg25397054	<i>GNA12</i>	rs1182188	2836511	9,27E-43	1,72E-34
7	25185723	cg01322214	<i>C7orf31</i>	rs12673405	25252924	6,49E-04	3,34E-09
7	26159557	cg21699330	<i>NFE2L3</i>	rs3814095	26113744	1,75E-11	5,59E-15
7	29295895	cg00901138	<i>CHN2</i>	rs39109	29285791	1,09E-09	3,68E-11
7	36157249	cg02060682	<i>Intergenic</i>	rs7785609	36109543	2,75E-09	1,41E-05
7	73080467	cg05822532	<i>ELN</i>	rs6964149	73041129	3,10E-04	9,94E-10
7	75799620	cg22830091	<i>YWHAG</i>	rs2868371	75768695	2,89E-12	1,23E-09
7	100303225	cg24075113	<i>TRIP6</i>	rs314313	100261301	5,72E-12	3,42E-12
7	128367200	cg04864179	<i>IRF5</i>	rs3778754	128362788	1,20E-06	1,17E-19
7	134507194	cg19889856	<i>C7orf49</i>	rs2278130	134542501	2,10E-05	2,83E-09

7	137271408	cg09271097	CREB3L2	rs273955	137253792	8,48E-10	1,37E-08
7	142707764	cg25992874	CASP2	rs4647297	142701483	3,22E-16	1,67E-16
7	148949014	cg00601368	ZNF767	rs4727088	148895086	1,66E-14	3,06E-06
7	149895244	cg13662290	GIMAP4	rs1464750	149837973	9,63E-30	2,73E-22
7	149895920	cg00323915	GIMAP4	rs1464750	149837973	1,41E-09	3,22E-07
7	150047604	cg03450844	GIMAP1-GIMAP5	rs11772925	150059042	1,35E-30	1,65E-30
7	157955982	cg04007350	PTPRN2	rs7786823	157895300	4,78E-07	1,52E-09
8	1859762	cg04202620	ARHGEF10	rs7386814	1859902	8,09E-12	5,40E-09
8	1888299	cg19627093	ARHGEF10	rs12548952	1881984	6,79E-14	3,80E-17
8	10245566	cg11548083	MSRA	rs7831557	10317638	9,58E-21	2,18E-16
8	10505448	cg13601595	RP1L1	rs4841407	10553595	4,06E-12	2,88E-09
8	10526528	cg20009332	RP1L1	rs4841406	10543743	3,35E-03	2,14E-10
8	11250078	cg08265495	TDH	rs2060456	11250773	9,38E-17	3,22E-08
8	19315865	cg00158770	CSGALNACT1	rs6990357	19320961	2,16E-81	1,07E-79
8	19503952	cg15232539	CSGALNACT1	rs12542189	19509899	2,53E-11	1,44E-05
8	41546572	cg25897519	Intergenic	rs11995712	41591532	5,25E-09	3,55E-11
8	66913736	cg14864167	PDE7A	rs6472235	66984584	9,93E-03	2,99E-15
8	71543770	cg03706086	Intergenic	rs1481046	71534456	1,48E-26	1,46E-25
8	74950472	cg12682382	UBE2W	rs7834451	74884972	5,19E-144	1,76E-135
8	102031294	cg04962480	YWHAZ	rs2386922	102044655	2,21E-26	1,10E-25
8	128539975	cg08682625	LOC727677	rs10094871	128541151	6,02E-09	4,11E-14
8	130760738	cg25760227	Intergenic	rs4382437	130719230	2,15E-09	6,29E-08
8	131519495	cg04502852	ASAP1	rs17215817	131488842	9,56E-12	9,44E-06
8	143402094	cg01785719	TSNARE1	rs7822013	143379717	9,44E-11	1,40E-13
8	144726590	cg24351694	C8orf73	rs4873808	144764993	1,60E-13	7,67E-15
8	144726627	cg01048372	C8orf73	rs4873808	144764993	4,06E-17	8,52E-10
8	145075850	cg04757492	PLEC	rs11136335	145075765	8,78E-59	1,60E-75
8	145123656	cg00311984	PLEC	rs11136343	145130974	4,57E-10	3,71E-11
8	145158288	cg27263049	SPATC1	rs6985603	145158416	2,08E-17	2,25E-30
8	146075025	cg10639435	ZNF250	rs1735169	146037858	6,58E-12	4,84E-15
9	201689	cg14500300	Intergenic	rs661356	234457	1,55E-36	1,17E-21
9	32515315	cg14286514	DDX58	rs6476369	32545049	1,85E-18	8,09E-35
9	35898117	cg00918944	LOC158376	rs4271053	35893398	1,11E-05	1,07E-13
9	88086160	cg13959031	ISCA1	rs10780755	88072314	3,29E-10	1,12E-10
9	110903596	cg13535736	TMEM245	rs3829084	110841545	3,21E-16	8,82E-18
9	113977561	cg03404662	SUSD1	rs6477901	114032535	9,49E-11	1,06E-14
9	123069869	cg13584244	GSN	rs10818524	123070000	3,55E-05	4,38E-10
9	138340897	cg13683534	DKFZP434A062	rs11145910	138420315	7,77E-10	8,13E-09
9	138357324	cg14213590	GPSM1	rs28610213	138359628	2,62E-23	1,14E-20
9	138523648	cg14225168	NOTCH1	rs3124599	138523591	4,31E-08	6,66E-22
10	5970549	cg16407947	FBXO18	rs6602322	5970585	1,24E-29	8,44E-12
10	6145662	cg26105232	IL2RA	rs11256464	6122564	2,35E-10	4,18E-02
10	6429713	cg19837174	Intergenic	rs947471	6429678	1,28E-32	1,72E-39
10	35370502	cg07125981	CUL2	rs57785229	35418752	3,07E-02	9,35E-15
10	49901856	cg27141751	VSTM4	rs2250146	49920738	5,75E-13	1,33E-10
10	51245708	cg06098215	NCOA4	rs3123078	51194977	3,94E-07	2,22E-10
10	51245769	cg16814786	NCOA4	rs3123078	51194977	2,44E-03	7,29E-11
10	71562774	cg17446739	AIFM2	rs1046747	71580636	6,85E-10	8,94E-23
10	71563023	cg04859918	AIFM2	rs1046747	71580636	1,70E-09	1,49E-11
10	80715125	cg02795981	ZMIZ1	rs1250568	80715286	1,25E-08	1,99E-15
10	82353293	cg18643199	SH2D4B	rs7096348	82303556	5,32E-18	6,28E-13
10	101281262	cg26951440	NKX2-3	rs17094148	101270269	2,12E-11	3,29E-10
10	101287595	cg15903032	Intergenic	rs989978	101312545	6,69E-05	7,95E-11
10	101287632	cg23615741	Intergenic	rs10786559	101298880	6,26E-06	2,74E-11
10	104249318	cg15219811	ACTR1A	rs1056738	104226471	5,63E-12	5,85E-03
10	104402296	cg07119830	TRIM8	rs4146429	104391622	1,21E-35	5,00E-34
10	104944093	cg16396933	NT5C2	rs11598702	104887975	6,02E-12	4,83E-04
10	105410737	cg23901918	SH3PXD2A	rs11191732	105321751	5,58E-07	2,71E-14
10	106458726	cg00591421	SORCS3	rs4144552	106531699	4,23E-25	1,45E-17
10	112400303	cg13799081	RBM20	rs10749041	112408768	3,73E-19	9,28E-14
11	310940	cg06046490	IFITM3	rs6598040	320630	1,18E-32	5,33E-33
11	315915	cg09597767	Intergenic	rs6598040	320630	4,46E-47	1,07E-54
11	315964	cg03071500	Intergenic	rs6598040	320630	4,47E-39	8,45E-46
11	320536	cg12912872	Intergenic	rs6598040	320630	1,88E-37	1,68E-48
11	603792	cg17114584	IRF7	rs12364149	559753	1,16E-03	2,75E-18
11	607140	cg00645579	CDHR5	rs11539530	599353	2,20E-08	2,23E-29
11	11819455	cg02501827	USP47	rs4243942	11779294	8,16E-05	1,47E-12
11	19083608	cg02265742	Intergenic	rs11025033	19120027	2,32E-16	5,72E-13
11	36353703	cg05348871	PRR5L	rs12295535	36388600	2,64E-08	1,69E-13
11	47589722	cg18512352	Intergenic	rs10838738	47619625	2,28E-29	7,99E-33
11	60532121	cg10981907	CD6	rs11230559	60526110	7,35E-13	4,09E-08
11	60626536	cg24674703	CD5	rs2074223	60531154	2,87E-06	4,57E-09
11	61354906	cg25324164	FADS2	rs968567	61352140	1,51E-21	1,20E-36

11	61358513	cg11250194	FADS2	rs102275	61314379	2,26E-37	3,10E-24
11	63443823	cg04942251	Intergenic	rs1486936	63426963	2,70E-04	1,67E-09
11	63865126	cg04422903	CCDC88B	rs9787810	63841874	1,06E-33	1,63E-40
11	64014679	cg08822897	Intergenic	rs11231814	64066226	1,53E-40	3,50E-42
11	66959384	cg17375396	RPS6KB2	rs17501521	66981564	1,33E-04	4,94E-11
11	69726444	cg08632909	FADD	rs11235460	69687368	8,83E-10	8,82E-18
11	70867162	cg03146219	NADSYN1	rs66655809	70865417	1,64E-100	1,45E-58
11	70937087	cg02845204	KRTAP5-9	rs11234092	70929423	2,12E-20	4,45E-16
11	75200047	cg05568930	Intergenic	rs7108178	75221946	6,54E-42	5,84E-49
11	101906648	cg25511807	MMP7	rs11225308	101904688	3,70E-15	1,73E-12
11	116689063	cg11054816	BACE1	rs638405	116669034	2,03E-10	1,14E-11
11	117605992	cg25155064	MPZL3	rs1793185	117594644	5,06E-10	3,46E-13
11	117720322	cg15880738	CD3G	rs3212264	117721444	1,14E-06	7,29E-10
11	128067213	cg02758236	FLI1	rs594479	128076920	1,92E-05	3,44E-09
11	128067563	cg14570838	FLI1	rs594479	128076920	6,35E-07	1,74E-09
11	133631494	cg20203469	ACAD8	rs12272129	133682415	2,44E-12	1,09E-16
11	133631714	cg05949667	ACAD8	rs12272129	133682415	2,24E-11	1,55E-11
12	646612	cg12013258	Intergenic	rs7297967	646632	7,72E-11	4,01E-17
12	3096706	cg11958128	TSPAN9	rs17835270	3128528	3,46E-13	2,57E-22
12	6313215	cg08418872	TNFRSF1A	rs4149570	6321851	1,19E-08	1,78E-13
12	6363264	cg23079808	LTBR	rs2364480	6365536	4,38E-06	6,69E-11
12	6424312	cg22036538	CD27	rs2286596	6423316	2,74E-52	3,15E-57
12	7254807	cg07052231	PEX5	rs1450958	7239722	1,31E-07	1,47E-10
12	7793420	cg18460107	CLEC4C	rs11055463	7770921	2,43E-11	1,33E-06
12	9408829	cg24733624	Intergenic	rs7958583	9406321	5,43E-19	3,29E-18
12	11713175	cg14830166	ETV6	rs2111049	11718896	1,96E-26	1,67E-15
12	32566474	cg16294668	FGD4	rs7295095	32566794	4,28E-30	5,94E-34
12	44387714	cg15251256	Intergenic	rs17774089	44391028	3,34E-21	2,55E-08
12	50495166	cg20077028	Intergenic	rs373529	50405899	8,82E-26	8,73E-18
12	51265874	cg08016092	KRT72	rs589619	51322357	1,53E-11	7,06E-10
12	55105327	cg09107438	TIMELESS	rs703829	55109889	1,69E-25	1,02E-30
12	56496180	cg17332198	AVIL	rs1021469	56494431	3,92E-13	3,79E-09
12	68011702	cg22375663	Intergenic	rs569666	68036651	5,50E-13	5,05E-07
12	94913678	cg22491680	HAL	rs7970524	94914283	5,46E-12	1,10E-05
12	94914274	cg18817487	HAL	rs7970524	94914283	3,88E-10	1,42E-18
12	96675510	cg08993878	Intergenic	rs12322961	96666297	3,30E-29	2,73E-36
12	115431141	cg08153404	Intergenic	rs2733633	115427907	1,55E-78	9,39E-83
12	119641972	cg21892295	UNC119B	rs2014355	119659907	2,73E-37	4,15E-34
12	120735535	cg12213811	SETD1B	rs1168671	120714231	1,20E-15	7,18E-04
13	20042699	cg01124810	IFT88	rs3002170	20081104	4,14E-23	3,76E-15
13	49114118	cg17056618	Intergenic	rs9535274	49092395	1,34E-09	5,23E-10
13	50538143	cg24013213	GUCY1B2	rs6561611	50536236	4,02E-08	2,91E-13
13	98732874	cg05257202	UBAC2	rs9517676	98747379	4,86E-10	2,53E-08
13	113209940	cg12437013	TMCO3	rs9577575	113270207	2,88E-05	5,96E-11
13	113219502	cg20628942	TMCO3	rs9577575	113270207	1,25E-10	9,26E-02
14	23492208	cg01878807	DHRS4-AS1	rs8022613	23476758	6,17E-13	1,98E-10
14	52646113	cg13654573	DDHD1	rs944454	52553602	1,35E-08	4,61E-10
14	58108692	cg14832378	Intergenic	rs11622281	58108921	2,94E-138	1,19E-156
14	60943375	cg09254210	PRKCH	rs7160675	60943447	3,92E-30	2,61E-36
14	70446753	cg07137751	PCNX	rs989501	70431167	1,40E-15	4,56E-35
14	70702365	cg15910301	Intergenic	rs221899	70675021	3,63E-50	8,07E-56
14	88956694	cg04977856	FOXP3	rs10148621	88964633	2,48E-18	5,70E-19
14	97514170	cg16062483	C14orf64	rs1989285	97454290	8,72E-19	2,54E-17
14	97514229	cg16278496	Intergenic	rs1989285	97454290	7,75E-22	3,32E-19
14	97514266	cg11798182	Intergenic	rs2607036	97451179	2,37E-14	4,70E-17
14	103164372	cg23090046	KLC1	rs729438	103162542	3,36E-11	3,93E-04
15	36635963	cg27220062	RASGRP1	rs11631591	36637554	4,96E-08	6,39E-11
15	38430290	cg07047589	PHGR1	rs11070264	38399153	7,22E-10	3,85E-11
15	58559386	cg21667061	NARG2	rs1869486	58582099	5,28E-14	3,54E-26
15	60586187	cg02319972	Intergenic	rs8030359	60607288	1,55E-13	2,13E-19
15	61136245	cg10403394	TPM1	rs1972041	61147900	8,99E-12	5,64E-29
15	62050791	cg02919090	DAPK2	rs16947621	62058713	8,66E-17	3,89E-24
15	72502158	cg20040747	SEMA7A	rs750607	72521872	1,36E-17	7,43E-17
15	75123993	cg06616081	TSPAN3	rs16968665	75167772	2,18E-17	2,25E-15
15	79315716	cg11808699	IL16	rs7163931	79338897	1,36E-19	4,67E-16
15	83899615	cg07350262	AKAP13	rs4843075	83925559	2,41E-12	1,42E-20
15	83899698	cg09874482	AKAP13	rs4075254	83924992	4,17E-15	3,71E-05
15	86955096	cg09160955	Intergenic	rs7402429	86879640	1,31E-26	6,60E-31
15	86958819	cg27664085	Intergenic	rs7402429	86879640	3,33E-14	8,47E-23
15	86958845	cg26963367	Intergenic	rs7402429	86879640	2,15E-19	6,46E-25
15	89229460	cg06330618	FES	rs4932370	89205709	2,37E-16	1,64E-16
16	387935	cg08183303	NME4	rs3785301	456923	8,05E-07	1,44E-09
16	1995404	cg05211189	ZNF598	rs1046495	1976049	1,16E-14	8,38E-08

16	1995685	cg08576185	ZNF598	rs1046495	1976049	6,72E-26	8,55E-15
16	2138076	cg00664609	RAB26	rs258281	2131735	2,29E-10	2,09E-11
16	2138081	cg03546687	RAB26	rs258281	2131735	1,98E-13	1,64E-15
16	27319997	cg02656594	IL21R	rs8060368	27319915	9,14E-14	5,78E-07
16	28424779	cg17122311	IL27	rs151179	28394557	1,48E-16	1,52E-10
16	30105871	cg06038367	CORO1A	rs12373078	30095177	1,06E-10	3,42E-07
16	30678295	cg01688936	C16orf93	rs117306997	30678263	3,84E-16	4,06E-09
16	30843529	cg10421029	FBXL19	rs35675346	30843582	1,21E-16	3,86E-13
16	31374577	cg08729927	Intergenic	rs45465094	31292257	1,21E-09	3,90E-10
16	48121871	cg03466717	ZNF423	rs9932213	48174359	7,41E-16	2,26E-21
16	49287886	cg16771652	NOD2	rs4785224	49287947	4,13E-10	6,17E-03
16	49300528	cg04172533	NOD2	rs11647841	49300832	9,01E-15	2,19E-10
16	49300797	cg05261686	NOD2	rs11647841	49300832	4,15E-10	3,15E-05
16	65140579	cg03448915	TK2	rs725131	65143211	1,12E-55	1,28E-70
16	66138938	cg09101151	Intergenic	rs6499137	66229305	2,42E-49	2,37E-41
16	66956034	cg02226672	SMPD3	rs9935025	66864948	5,03E-11	9,70E-12
16	73880216	cg05552543	Intergenic	rs56343285	73967298	4,56E-16	4,09E-15
16	74211753	cg07861456	ADAT1	rs12600271	74191119	3,46E-11	6,52E-04
16	83207703	cg07964754	COTL1	rs2966305	83208028	4,79E-26	2,06E-31
16	84573888	cg08215318	Intergenic	rs13330176	84576588	7,92E-07	1,17E-12
16	87298467	cg03776194	RNF166	rs877579	87298122	1,11E-10	2,23E-08
16	87516570	cg05579598	CBFA2T3	rs477639	87517011	1,20E-44	2,29E-30
16	87516713	cg08698997	CBFA2T3	rs477639	87517011	1,11E-20	2,48E-15
16	87516888	cg27061485	CBFA2T3	rs477639	87517011	6,12E-09	5,84E-06
16	87691126	cg03172657	ACSF3	rs7188200	87694595	5,07E-04	2,13E-09
16	88014823	cg09971549	ANKRD11	rs17702309	88014842	2,64E-10	2,13E-04
16	88358624	cg03809021	FANCA	rs11076628	88402747	6,63E-06	5,18E-11
17	855673	cg01841306	ABR	rs2586238	849072	5,02E-19	1,09E-27
17	955969	cg04724319	ABR	rs2258130	953196	3,68E-09	9,77E-13
17	1437237	cg14131824	SLC43A2	rs4790666	1440465	3,39E-10	3,60E-09
17	4567983	cg07971820	ARRB2	rs34230287	4560379	1,02E-30	3,62E-33
17	4568001	cg13466002	ARRB2	rs34230287	4560379	1,02E-07	8,53E-10
17	9743521	cg20207911	RCVRN	rs874307	9738799	4,16E-13	2,14E-11
17	9743585	cg14181409	RCVRN	rs17676097	9732274	8,76E-11	5,72E-04
17	25109122	cg19048010	SSH2	rs2617874	25109298	2,35E-12	6,47E-06
17	31242073	cg08542715	Intergenic	rs4795101	31284106	8,87E-07	3,15E-09
17	35147540	cg14263391	GRB7	rs4252665	35138909	4,10E-07	2,08E-14
17	35149600	cg25038082	GRB7	rs72832924	35150382	2,08E-06	1,35E-12
17	35331396	cg12655416	ORMDL3	rs4795405	35341943	3,37E-07	3,00E-30
17	37513073	cg20291162	DHX58	rs730086	37525283	7,88E-45	6,78E-39
17	37811589	cg27576485	PTRF	rs7220037	37815535	4,08E-10	3,78E-06
17	40577358	cg06100756	Intergenic	rs12946454	40563647	3,17E-43	8,31E-36
17	40858927	cg03244997	ARHGAP27	rs114639101	40817243	1,12E-12	3,36E-09
17	41460367	cg05533539	MAPT	rs117577796	41362724	5,48E-09	6,27E-07
17	72828379	cg18271897	SEPT9	rs11077899	72818416	6,04E-11	1,21E-12
17	76238196	cg18758433	RPTOR	rs4396581	76164329	4,87E-09	1,45E-09
17	76408074	cg16015295	RPTOR	rs7217174	76408248	2,51E-17	6,71E-21
17	76408402	cg13526488	RPTOR	rs2333990	76399520	3,57E-28	1,13E-34
17	78415115	cg19016694	TBCD	rs1001865	78508277	5,48E-10	1,59E-03
17	78426927	cg07409471	TBCD	rs12940475	78495700	1,02E-15	1,24E-07
17	78427517	cg06218079	TBCD	rs12940475	78495700	6,70E-41	9,35E-34
17	78463452	cg11526020	TBCD	rs1001865	78508277	2,10E-13	6,05E-14
18	75653390	cg06705017	Intergenic	rs526260	75654161	3,64E-28	1,86E-27
18	75666602	cg16173847	Intergenic	rs4799088	75674536	1,35E-13	4,27E-09
18	75824214	cg16313807	HSBP1L1	rs10853393	75809980	1,82E-19	2,88E-16
19	618808	cg12106403	Intergenic	rs17672806	618118	7,75E-16	6,18E-25
19	1124241	cg08408668	SBNO2	rs873073	1125414	1,73E-06	5,11E-12
19	2480022	cg24339704	GNG7	rs917415	2465373	1,88E-07	4,48E-10
19	3558136	cg22757101	TBXA2R	rs12984273	3598901	2,27E-09	3,25E-04
19	4989822	cg24236839	KDM4B	rs2613766	5017995	2,17E-05	1,46E-10
19	7673584	cg05641903	FCER2	rs2335525	7691713	3,95E-13	1,33E-05
19	10257158	cg00500176	ICAM1	rs281437	10258238	5,62E-16	6,06E-10
19	10277150	cg15538607	ZGLP1	rs73510898	10277444	2,62E-10	2,63E-06
19	18559825	cg15428479	C19orf60	rs10409392	18560333	1,21E-92	1,86E-90
19	40895672	cg08539991	ZBTB32	rs16970649	40914697	3,61E-06	3,31E-11
19	42517246	cg24834889	HKR1	rs3745764	42546420	5,82E-08	4,44E-10
19	43485386	cg08189186	C19orf33	rs8112211	43516421	1,86E-06	2,53E-17
19	47007287	cg11310087	CEACAM3	rs7408605	47029558	1,62E-09	1,12E-14
19	47071550	cg19825589	CD79A	rs7408605	47029558	1,94E-07	3,83E-10
19	48548586	cg12032655	CD177	rs3746297	48464142	3,94E-09	2,17E-02
19	51950516	cg12156512	FKRP	rs11671189	51955350	2,86E-40	4,20E-30
19	59258650	cg01718139	VSTM1	rs612529	59259065	8,92E-23	5,42E-16
19	59276448	cg25930786	TARM1	rs612529	59259065	5,70E-10	1,02E-02

19	60384963	cg15576730	SYT5	rs8106715	60387556	3,84E-10	4,93E-09
20	1558358	cg10131232	SIRPG	rs13037971	1557495	1,21E-33	9,50E-27
20	3085766	cg07582993	FASTKD5	rs16988305	3055753	1,47E-10	9,83E-20
20	3728182	cg02737268	CDC25B	rs4815603	3720527	1,61E-19	1,35E-31
20	30815474	cg22052056	DNMT3B	rs6087990	30813569	1,74E-08	1,70E-09
20	30815889	cg13788819	DNMT3B	rs6087990	30813569	9,38E-13	2,99E-15
20	33144884	cg17206393	TRPC4AP	rs2378333	33172551	8,32E-09	2,58E-13
20	39200904	cg06457011	PLCG1	rs753381	39230879	8,34E-12	1,14E-06
20	61668913	cg23352030	PRIC285	rs395791	61700551	2,26E-04	6,62E-10
20	61670643	cg04300115	PRIC285	rs310665	61680325	3,53E-09	9,74E-13
20	61838142	cg14977069	LIME1	rs67468102	61815327	1,00E-09	2,64E-15
20	61838249	cg06653796	LIME1	rs2427530	61832181	1,37E-17	1,63E-20
20	61838328	cg21201401	LIME1	rs67468102	61815327	7,62E-13	6,74E-17
20	61838337	cg20513976	LIME1	rs67468102	61815327	4,48E-09	1,67E-10
20	62043319	cg01966791	UCKL1	rs817361	62028703	3,89E-23	7,59E-25
21	27136799	cg20187011	ADAMTS1	rs370850	27137937	3,34E-15	3,69E-07
21	33695242	cg06287548	Intergenic	rs9808753	33709182	7,51E-25	4,77E-19
21	43346909	cg14171527	CBS	rs706208	43346515	1,12E-03	4,69E-10
21	44389756	cg13203135	C21orf33	rs2838509	44412156	1,27E-06	4,29E-10
21	45500198	cg11663144	Intergenic	rs2838833	45489588	1,71E-53	4,97E-58
21	45715425	cg14356919	COL18A1	rs2282117	45714094	5,45E-15	1,14E-28
22	15940707	cg19716090	Intergenic	rs12159416	15921673	5,41E-11	2,76E-06
22	16009788	cg01055591	CECR5	rs2241049	15967680	1,75E-09	8,08E-07
22	20251269	cg06850285	UBE2L3	rs738129	20301041	8,14E-11	1,03E-14
22	30981776	cg22027471	SLC5A4	rs12160790	30982404	4,58E-05	3,32E-09
22	35914387	cg26999345	C1QTNF6	rs229535	35918512	5,00E-23	1,07E-25
22	36927139	cg00159439	MAFF	rs2284063	36874244	4,89E-11	7,09E-13
22	44206928	cg18855195	RIBC2	rs9614457	44118058	3,66E-58	1,22E-64
22	44827354	cg26759223	C22orf26	rs6520015	44842095	1,07E-09	4,84E-10
22	48438298	cg03648724	Intergenic	rs739244	48446162	5,69E-65	2,11E-67
22	49312989	cg10416593	TYMP	rs131816	49304328	2,88E-25	7,57E-38
22	49318006	cg20098015	ODF3B	rs140524	49307548	1,00E-03	4,17E-09