

**Table S2: Datasheet of SLE subtype associated CpGs that showed stability over a two year period.**

CpG	UCSC_RefGene_Name	Chr	MAPINFO	paired t-test FDR p		Methylation Beta value	
				p value	value	Time 1 (mean)	Time 2 (mean)
cg19142179	FBLN7	2	112927013	0.95	0.99	0.94	0.94
cg27395403	ST3GAL1	8	134532928	0.95	0.99	0.08	0.08
cg03952533	ABCG1	21	43679795	0.91	0.99	0.74	0.74
cg11109005		15	59698104	0.90	0.99	0.89	0.89
cg21740789		2	151377894	0.88	0.99	0.87	0.87
cg06991078	LRRRC8A	9	131655627	0.88	0.99	0.82	0.82
cg12954102	MIR181A2HG; NR6A1	9	127420539	0.87	0.98	0.14	0.14
cg01728830	TMPRSS4	11	117957665	0.82	0.98	0.90	0.90
cg15655655	SRI	7	87843586	0.80	0.97	0.91	0.91
cg06601685	HPD	12	122277439	0.76	0.97	0.04	0.04
cg27578726	C20orf166	20	61148856	0.74	0.96	0.09	0.10
cg12863443	C10orf28	10	99894013	0.73	0.96	0.88	0.88
cg27423228	FAM198A	3	43021399	0.69	0.96	0.20	0.20
cg20343278	PTPRM	18	7946813	0.68	0.95	0.32	0.32
cg14583825	PRKCG	19	54393040	0.65	0.95	0.13	0.13
cg08663999		3	150089701	0.65	0.95	0.80	0.80
cg14268695		20	23137044	0.65	0.95	0.35	0.35
cg09678539		2	27298343	0.64	0.95	0.07	0.07
cg05926784	RFX1	19	14073277	0.61	0.94	0.92	0.92
cg05007923	FNDC3A	13	49721418	0.61	0.94	0.61	0.60
cg26444636		11	34580491	0.59	0.94	0.91	0.91
cg04119625		12	6539690	0.59	0.93	0.26	0.26
cg06975815	MAP2K2	19	4091971	0.57	0.93	0.73	0.73
cg04626675	HIPK4	19	40895647	0.56	0.93	0.91	0.91
cg17744604	IL10	1	206946166	0.56	0.93	0.24	0.24
cg25137154	CPSF6	12	69648315	0.53	0.92	0.61	0.61
cg22206745	ORAOV1	11	69484557	0.52	0.92	0.93	0.93
cg25764700	NOL4L	20	31169564	0.52	0.92	0.72	0.72
cg10428485	MAD1L1	7	2045827	0.51	0.92	0.90	0.90
cg04079353	FZD3	8	28350783	0.50	0.91	0.90	0.90
cg04943851		14	78709688	0.48	0.91	0.89	0.89

cg21529477	LSP1	11	1892092	0.40	0.89	0.75	0.75
cg06379040	LRRRC49	15	71187132	0.36	0.88	0.91	0.91
cg13360325	KIRREL	1	158054982	0.34	0.87	0.84	0.84
cg24954967		3	46130858	0.33	0.86	0.74	0.73
cg08022379		3	112513640	0.32	0.86	0.29	0.29
cg21042265	ZNF827	4	146848440	0.25	0.83	0.66	0.67
cg27078364	SAMD9	7	92745380	0.16	0.77	0.92	0.91
cg05206538	GPR35	2	241544173	0.16	0.77	0.81	0.81
cg12866425		10	3856704	0.14	0.76	0.85	0.85
cg05167074	SHKBP1	19	41091695	0.13	0.74	0.54	0.53
cg16822407	KIAA1026	1	15392852	0.12	0.73	0.05	0.05
cg26974214	IFIT1	10	91151885	0.10	0.71	0.11	0.11
cg23002431	COPA	1	160278741	0.10	0.71	0.55	0.56
cg08258506	C14orf43	14	74244236	0.10	0.70	0.80	0.80
cg21954370		15	45018720	0.09	0.69	0.14	0.14
cg27051260	C1QTNF4	11	47616825	0.06	0.64	0.70	0.71
cg04708790	OAS1	12	113355675	0.06	0.64	0.90	0.91
cg05100846	WDR20	14	102647731	0.04	0.59	0.80	0.80
cg05671566		9	38357304	0.04	0.59	0.85	0.86
cg14464052	ASB18	2	237173071	0.04	0.57	0.38	0.39
cg20989280		1	160343735	0.03	0.55	0.57	0.58
cg14333162	RSAD2	2	7016969	0.03	0.54	0.66	0.64
cg01340229		3	160790402	0.03	0.53	0.85	0.85
cg05249479	EVL	14	100542584	0.03	0.52	0.06	0.07
cg00080483	C6orf1	6	34218054	0.02	0.47	0.28	0.28
cg03135704	TRIM22	11	5712109	0.02	0.46	0.07	0.06
cg25714134	STAT1	2	191873795	0.02	0.46	0.94	0.93
cg11791770	PHRF1	11	611791	0.01	0.42	0.89	0.89
cg01627616	JADE1	4	129752499	0.01	0.41	0.34	0.35
cg13119578		11	65196696	0.01	0.38	0.09	0.10
cg14137166		22	50979665	0.01	0.38	0.32	0.31
cg13234275	PHRF1	11	608991	0.01	0.37	0.93	0.92
cg12424383		1	27990967	0.01	0.37	0.82	0.81
cg17018649	FSTL1	3	120171076	0.01	0.35	0.60	0.61
cg03540917	SPINK2	4	57686587	0.01	0.32	0.63	0.64

cg01901274		8	28474361	0.01	0.32	0.68	0.67
cg00029229		3	40722890	0.01	0.32	0.47	0.48
cg06534752	C20orf117	20	35448345	0.01	0.31	0.40	0.40
cg16644494	ODF3B	22	50971601	0.01	0.31	0.77	0.75
cg20808080		2	6962835	0.01	0.31	0.87	0.87
cg07583563	CALM1	14	90867498	0.01	0.30	0.61	0.62
cg25573580	LY6E; LOC100133669	8	144099252	0.005	0.30	0.12	0.12
cg11351471	DDX60L	4	169400845	0.005	0.29	0.84	0.83
cg04738877	GALC	14	88459963	0.004	0.28	0.84	0.85
cg01372572	ATP10A	15	25941836	0.004	0.26	0.68	0.69
cg06168856	OAS1	12	113346982	0.004	0.26	0.60	0.58
cg06909315	TRAF2	9	139796221	0.004	0.26	0.69	0.68
cg15065340	TNK2	3	195632915	0.003	0.24	0.59	0.56
cg11251971	CYSTM1	5	139587026	0.003	0.24	0.54	0.52
cg19188021	ODF3B	22	50970742	0.003	0.23	0.17	0.14
cg22581187	IQGAP2	5	75966681	0.002	0.22	0.73	0.74
cg09837467		1	183523933	0.002	0.21	0.41	0.43
cg21186955	TRIM56	7	100729412	0.002	0.19	0.25	0.24
cg03587597		8	144105055	0.002	0.19	0.92	0.91
cg03110996		2	191883483	0.002	0.19	0.77	0.76
cg11622162	RNF213	17	78237543	0.002	0.17	0.13	0.12
cg12461141	TRIM22	11	5710654	0.001	0.15	0.45	0.42
cg03753191	EPST11	13	43566902	0.001	0.14	0.08	0.07
cg06376949	IFIT5	10	91173811	0.001	0.12	0.22	0.20
cg14617454	ANKRD45	1	173640387	0.001	0.12	0.90	0.89
cg07259759	USP35	11	77923985	0.001	0.10	0.65	0.66
cg22713958	LGALS3BP	17	76976245	0.001	0.10	0.72	0.71
cg09329097	PNPT1	2	55919983	0.001	0.10	0.87	0.86
cg10778971	IFI27	14	94577101	0.001	0.10	0.86	0.84
cg24351901	HLA-F	6	29692092	0.0005	0.09	0.33	0.32
cg11829870	KLHDC7B	22	50988451	0.0004	0.08	0.67	0.65
cg06603074	ZCCHC2	18	60192893	0.0004	0.08	0.41	0.40
cg02608002	BST2; MVB12A; BISPR	19	17515778	0.0004	0.08	0.09	0.08
cg16379091		11	315751	0.0004	0.08	0.84	0.83
cg11611544	LMOD1	1	201907088	0.0003	0.08	0.81	0.82

cg11617938	HLA-F	6	29692281	0.0003	0.07	0.74	0.72
cg04880620	OAS2	12	113415945	0.0003	0.07	0.49	0.48
cg00287009	SPATS2L	2	201273195	0.0003	0.07	0.73	0.72
cg17114584	IRF7	11	613792	0.0002	0.06	0.46	0.43
cg21979287	B2M	15	45007854	0.0002	0.05	0.34	0.32
cg06400288	C1orf21	1	184455065	0.0001	0.04	0.72	0.72
cg07687574	PIK3R5	17	8844581	0.0001	0.04	0.25	0.24
cg00855901	IFI44L	1	79085765	0.0001	0.04	0.12	0.11
cg24103563	TRIM34	11	5645324	0.0001	0.04	0.83	0.81
cg15231741	TRIM34; TRIM6-TRIM34	11	5645433	0.0001	0.03	0.91	0.90
cg19371652	OAS2	12	113415883	0.0001	0.03	0.23	0.21
cg08761339	IFI27	14	94576947	0.0001	0.03	0.93	0.92
cg27456769	PARP11	12	3979720	0.0001	0.03	0.88	0.87
cg23892836	HLA-F	6	29692085	3.39E-05	0.02	0.54	0.52
cg11105610	LGALS3BP	17	76976352	3.35E-05	0.02	0.86	0.84
cg22260958	OAS3	12	113375880	2.86E-05	0.02	0.87	0.87
cg02215171	HERC5	4	89379156	1.02E-05	0.01	0.31	0.29
cg08387293	AGRN	1	984383	9.77E-06	0.01	0.76	0.78
cg24709587		6	159526055	9.59E-06	0.01	0.52	0.51
cg23221113	ODF3B	22	50970943	8.83E-06	0.01	0.07	0.06
cg03848588	DDX58	9	32525008	7.68E-06	0.01	0.89	0.88
cg01721555	PARP14	3	122401300	6.93E-06	0.01	0.90	0.89
cg02423716	PARP11	12	3980162	6.25E-06	0.01	0.72	0.69
cg01237738	TMEM123	11	102322056	6.23E-06	0.01	0.08	0.07
cg16427501	PARP10	8	145060083	4.74E-06	0.004	0.22	0.20
cg03590031	PRIC285	20	62200285	4.35E-06	0.004	0.79	0.80
cg14750551	PARP14	3	122401343	4.14E-06	0.004	0.90	0.89
cg15378061		7	93638064	4.01E-06	0.004	0.21	0.24
cg09053843	HERC5	4	89379007	3.88E-06	0.004	0.24	0.22
cg23540139	IRF7	11	614521	3.88E-06	0.004	0.59	0.57
cg11224765	ODF3B	22	50971109	2.54E-06	0.003	0.15	0.13
cg00272009	PARP14	3	122398855	2.26E-06	0.003	0.61	0.59
cg06650861	DDX60	4	169238926	1.44E-06	0.002	0.85	0.82
cg19965693	IFIH1	2	163175743	1.22E-06	0.002	0.32	0.29
cg17836612	LGALS3BP	17	76976357	8.56E-07	0.001	0.67	0.65

cg06648848	DDX60	4	169241145	7.19E-07	0.001	0.92	0.91
cg15331332	HLA-F	6	29692111	5.54E-07	0.001	0.59	0.56
cg19459791		15	65363022	4.41E-07	0.001	0.78	0.79
cg14951497	STAT1	2	191875807	3.41E-07	0.001	0.84	0.82
cg14126601	EIF2AK2	2	37384708	1.93E-07	0.0004	0.36	0.33
cg01309328	PSMB8	6	32811253	1.67E-07	0.0003	0.32	0.30
cg25800166	OAS3	12	113375896	9.34E-08	0.0002	0.50	0.47
cg16400320		8	144105210	8.12E-08	0.0002	0.88	0.86
cg08099136	PSMB8	6	32811251	3.63E-08	0.0001	0.30	0.27
cg03386675	ADAR	1	154579713	2.79E-08	0.0001	0.14	0.12
cg06085204	XAF1	17	6659164	2.64E-08	0.0001	0.08	0.07
cg23533285	HLA-B	6	31322348	2.03E-08	0.0001	0.41	0.39
cg25178683	LGALS3BP	17	76976267	1.81E-08	0.0001	0.52	0.49
cg11694510	IFITM1	11	313354	1.20E-08	4.16E-05	0.61	0.59
cg03763873	EPSTI1	13	43565901	9.16E-09	3.26E-05	0.07	0.06
cg12037516	IRF7	11	614954	8.71E-09	3.12E-05	0.92	0.91
cg22485558	MX1	21	42797918	7.40E-09	2.79E-05	0.11	0.10
cg12331471	SP100	2	231282369	4.76E-09	2.00E-05	0.09	0.07
cg17052170	LY6E; LOC100133669	8	144099482	2.97E-09	1.36E-05	0.84	0.83
cg06708931		8	144103857	2.44E-09	1.16E-05	0.89	0.86
cg11016993	LGALS9	17	25959419	1.90E-09	9.38E-06	0.19	0.17
cg11702942	LY6E	8	144102584	1.10E-09	6.05E-06	0.69	0.67
cg22016995	IRF7	11	614787	4.70E-10	2.85E-06	0.95	0.94
cg14392283	LY6E	8	144103587	1.46E-10	1.00E-06	0.91	0.89
cg21433170	IFITM1	11	313408	1.37E-10	9.59E-07	0.41	0.38
cg17980508	IFI44L	1	79085713	7.49E-11	5.85E-07	0.15	0.13
cg11211792	ISG15	1	949634	4.91E-11	4.02E-07	0.73	0.70
cg09844573	PRIC285	20	62199190	2.60E-12	3.47E-08	0.09	0.10
cg06064964	PRIC285	20	62199181	3.43E-13	6.03E-09	0.04	0.05
cg06716655	ADAR	1	154579727	1.06E-13	2.06E-09	0.11	0.08
cg10771443	RSAD2	2	7018855	6.47E-14	1.37E-09	0.11	0.08
cg00480970	HELZ2	20	62200050	5.00E-16	1.90E-11	0.26	0.28