

Suppl. Table I: Active SLE histone H3K4me3 candidates

Probe ID	Fold change	Within	Genome Location	Description
UHNhscpg0000061	8,30	PTPN4	chr2:120233974-120234860	protein tyrosine phosphatase, non-receptor type lactamase, beta 2
UHNhscpg0000081	6,45	LACTB2	chr8:71743478-71744294	
UHNhscpg0008689	5,70		chr4:31377115-31377307	
UHNhscpg0000123	5,23			
UHNhscpg0005293	4,58		chr1:25055302-25055491	
UHNhscpg0003781	4,42		chr20:10455971-10456102	
UHNhscpg0010933	4,20	FLJ46536	chr2:218619572-218619741	hypothetical protein LOC285180 myelodysplasia syndrome 1
UHNhscpg0003620	4,20	MDS1	chr3:170564164-170564390	
UHNhscpg0012125	4,19			
UHNhscpg0003283	4,18		chr15:92149019-92149160	
UHNhscpg0004443	3,90		chr3:140140372-140140754	
UHNhscpg0011496	3,73		chr6:145123791-145123846	
UHNhscpg0011985	3,70			
UHNhscpg0004981	3,69		chr2:193481819-193481991	
UHNhscpg0011074	3,60		chr7:39955059-39955111	
UHNhscpg0005190	3,58		chr4:180260816-180261112	
UHNhscpg0004899	3,51	HNT	chr11:131648058-131648308	neurotrimin precursor (hNT)
UHNhscpg0005254	3,50		chr6:24118723-24118814	
UHNhscpg0006296	3,50		chr2:147782618-147782791	
UHNhscpg0005029	3,49	AAA1	chr7:34395585-34396352	AAA1 protein isoform V
UHNhscpg0012046	3,47			
UHNhscpg0010654	3,42		chr1:113609418-113609661	
UHNhscpg0010262	3,40		chr11:121171806-121171981	
UHNhscpg0011444	3,40	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2 cadherin 13 preproprotein
UHNhscpg0002631	3,36	CDH13	chr16:81837847-81838485	
UHNhscpg0000112	3,34		chr11:94604983-94605396	

UHNhscpg0009892	3,30	NXN	chr17:787837-788112	nucleoredoxin
UHNhscpg0004952	3,30		chr15:62855175-62855414	
UHNhscpg0004075	3,22	AOAH		acyloxyacyl hydrolase precursor
UHNhscpg0002157	3,20		chr14:48344116-48344456	
UHNhscpg0002922	3,19		chr7:36663261-36663977	
UHNhscpg0000201	3,17			
UHNhscpg0009398	3,06		chr16:33863879-33864179	
UHNhscpg0004702	3,06	SLC24A3	chr16:47869976-47870200	solute carrier family 24
UHNhscpg0000041	3,04			
UHNhscpg0008898	3,00		chr1:72522579-72522948	
UHNhscpg0005874	3,00		chr9:25870094-25870259	
UHNhscpg0001094	2,99		chr20:19621353-19621707	
UHNhscpg0004558	2,98		chr13:22360853-22361122	
UHNhscpg0002674	2,97		chr2:217128250-217128776	
UHNhscpg0004648	2,96		chr4:186255900-186255993	
UHNhscpg0006272	2,96		chr11:62790737-62790854	
				transient receptor potential cation channel, subfamily M, member 2, striatum short form (SSF-TRPM2)
UHNhscpg0003442	2,96	TRPM2	chr21:44619534-44619975	6.8 kDa mitochondrial proteolipid.
UHNhscpg0006136	2,95	C14orf2	chr12:68575679-68575906	
UHNhscpg0000966	2,91		chr14:103457340-103457908	
UHNhscpg0004758	2,90		chr12:52046529-52046814	
UHNhscpg0000674	2,90		chr18:46811243-46811721	
UHNhscpg0003674	2,90	PSCD1	chr2:184143799-184143878	pleckstrin homology, Sec7 and coiled/coil
UHNhscpg0002452	2,90		chr17:74229919-74230432	
UHNhscpg0010682	2,88	PGEA1	chr14:60178013-60178256	PKD2 interactor, golgi and endoplasmic reticulum
UHNhscpg0004987	2,87		chr22:37382301-37383083	
UHNhscpg0001493	2,87	SEC61B	chrY:12119134-12187549	Sec61 beta subunit
UHNhscpg0004683	2,86		chr9:25482438-25482624	
UHNhscpg0008517	2,86		chr9:101024654-101024883	

UHNhscpg0000044	2,86	CARS	chr11:3034119-3035473	hypothetical protein FLJ16116
UHNhscpg0005051	2,86		chr14:36123319-36123586	
UHNhscpg0008079	2,86			
UHNhscpg0011061	2,85			
UHNhscpg0002610	2,84		chr14:37136520-37136949	
UHNhscpg0003179	2,82		chr16:71256015-71256189	
UHNhscpg0000070	2,80		chr12:47739460-47740924	
UHNhscpg0006906	2,80		chr11:74120369-74120550	
UHNhscpg0009436	2,80	RFX4	chr12:105503492-105503749	regulatory factor X4 isoform F
UHNhscpg0008771	2,80		chr1:212842838-212843047	
UHNhscpg0011173	2,80	WDR5	chr9:135990906-135991845	WD repeat domain 5
UHNhscpg0009130	2,80		chr19:42434528-42434919	
UHNhscpg0001447	2,80	BC062338	chr18:40515107-40515460	hypothetical protein
UHNhscpg0010072	2,80	ABLIM3	chr5:148500613-148501795	actin binding LIM protein family, member 3
UHNhscpg0010324	2,78	FLJ13984	chr2:171910529-171910610	hypothetical protein LOC79828
UHNhscpg0001204	2,77		chr20:11257478-11257784	
UHNhscpg0002278	2,75		chr19:50674100-50674375	
UHNhscpg0009361	2,75	hfl-B5	chr11:32561673-32562466	B5 receptor
UHNhscpg0009150	2,74	CACNA2D1	chr7:81434575-81434692	calcium channel, voltage-dependent, alpha
UHNhscpg0002492	2,73	CENTG2	chr2:236606828-236607245	centaurin, gamma 2 isoform 1
UHNhscpg0004703	2,71	SATB2	chr2:200021489-200021756	SATB family member 2
UHNhscpg0001673	2,70		chr6:170596509-170596903	
UHNhscpg0001168	2,70	BC062338	chr18:40515107-40515460	hypothetical protein
UHNhscpg0003200	2,70	FLJ90013	chr4:15806284-15806549	hypothetical protein LOC202018
UHNhscpg0009161	2,70		chr12:30889855-30890052	
UHNhscpg0011890	2,69		chr5:55722308-55722424	
UHNhscpg0000920	2,69	RBM21	chr11:62115234-62115803	hypothetical protein FLJ22267
UHNhscpg0002168	2,68	ETV1	chr7:13995319-13995759	ets variant gene 1
UHNhscpg0007503	2,67	UGT3A1	chr5:36026368-36026581	hypothetical protein FLJ34658
UHNhscpg0000653	2,67	BC011600	chr6:31973515-31974151	RD RNA binding protein

UHNhscpg0005171	2,67	KIAA1212	chr2:55448488-55448605	KIAA1212
UHNhscpg0008160	2,66	RNF157	chr17:71719590-71719725	hypothetical protein FLJ34148
UHNhscpg0000121	2,66		chr17:76042497-76042875	
UHNhscpg0009200	2,65			
UHNhscpg0005325	2,62	JAM2	chr21:25980859-25980957	junctional adhesion molecule 2 precursor
UHNhscpg0002975	2,62		chr12:39869705-39869992	
UHNhscpg0000843	2,60		chr4:153186077-153186612	
UHNhscpg0009362	2,60			
UHNhscpg0010710	2,60	RAB18	chr10:27832876-27833884	RAB18, member RAS oncogene family
UHNhscpg0002554	2,60	RPL34	chr4:109760867-109761756	ribosomal protein L34
UHNhscpg0003147	2,60	PTPN13	chr4:87904592-87904686	protein tyrosine phosphatase, non-receptor type
UHNhscpg0001505	2,59		chr2:302262-302387	
UHNhscpg0002165	2,57		chr20:38753133-38753609	
UHNhscpg0003692	2,56			
UHNhscpg0012080	2,54			
UHNhscpg0008385	2,53			
UHNhscpg0003221	2,53	LOC84661	chr2:32117579-32118327	dpy-30-like protein
UHNhscpg0002961	2,52	QRSL1	chr6:107184320-107184857	glutamyl-tRNA synthase
UHNhscpg0011222	2,52	ZNF440	chr19:11785516-11786704	zinc finger protein 440
UHNhscpg0001295	2,50	SPAG4	chr20:33670118-33670758	sperm associated antigen 4
UHNhscpg0009924	2,50	CLIC4	chr1:24981609-24981714	chloride intracellular channel 4
UHNhscpg0009366	2,50	CSNK1A1	chr5:148853403-148853479	HLCDGP1
UHNhscpg0004915	2,50		chr4:8768347-8768418	
UHNhscpg0006309	2,50			
UHNhscpg0010718	2,50	LOC552891	chr9:113463150-113464000	hypothetical protein LOC552891
UHNhscpg0003698	2,50	PTPN13	chr4:87904592-87904686	protein tyrosine phosphatase, non-receptor type
UHNhscpg0002264	2,50	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0007765	2,50		chr12:39883242-39883279	
UHNhscpg0005744	2,49		chr18:11645287-11645571	
UHNhscpg0001860	2,49	C1orf73	chr1:210274732-210276110	C1orf73 protein

UHNhscpg0000956	2,44		chr2:175269423-175269830	
UHNhscpg0008563	2,43	DMD	chrX:31118634-31118655	dystrophin Dp71b isoform
UHNhscpg0000195	2,42		chr5:137397182-137397404	
UHNhscpg0007860	2,42		chr22:48192717-48192913	
UHNhscpg0006964	2,41	NPAT	chr11:107598278-107598521	nuclear protein, ataxia-telangiectasia locus
UHNhscpg0008724	2,40		chr2:2849157-2849350	
UHNhscpg0011123	2,40	TRIM70	chr17:18568493-18568718	hypothetical protein LOC147166
UHNhscpg0011930	2,40			
UHNhscpg0009911	2,40		chr12:44407182-44407386	
UHNhscpg0005050	2,40		chr14:36123316-36123588	
UHNhscpg0009288	2,40			
UHNhscpg0005725	2,40		chr4:90793925-90794054	
UHNhscpg0001856	2,38			
UHNhscpg0000132	2,36		chr14:98572749-98573067	
UHNhscpg0009227	2,36			
UHNhscpg0008755	2,35	C6orf64	chr6:39190384-39190867	hypothetical protein LOC55776
UHNhscpg0003923	2,35	PAX3	chr2:222868477-222868623	paired box gene 3 isoform PAX3e
UHNhscpg0001810	2,34		chr15:50873800-50874397	
UHNhscpg0010217	2,34			
UHNhscpg0000946	2,34	CNKSR3	chr6:154872658-154873814	CNKSR family member 3
UHNhscpg0003410	2,33			
UHNhscpg0009037	2,32		chr15:39310523-39310558	
UHNhscpg0003072	2,32			
UHNhscpg0007741	2,31		chr2:82223389-82223462	
UHNhscpg0004493	2,31	RYR3	chr15:31497577-31497893	ryanodine receptor 3
UHNhscpg0009225	2,31			
UHNhscpg0000800	2,30	C20orf144	chr20:31714406-31715210	hypothetical protein LOC128864
UHNhscpg0009106	2,30		chr12:52675318-52675483	
UHNhscpg0003851	2,30		chr14:26623754-26623813	
UHNhscpg0002330	2,30			

UHNhscpg0000483	2,30		chr12:50631108-50631563	
UHNhscpg0009186	2,30	BC014919	chr11:8666760-8666930	MGC10850 protein.
UHNhscpg0002369	2,30		chr12:102489048-102489597	
UHNhscpg0004372	2,30	NUP35	chr2:183697304-183697389	nucleoporin 35kDa isoform a
UHNhscpg0000673	2,30		chr17:22568552-22568999	
UHNhscpg0001178	2,30	MGC35402	chr19:58137582-58138141	Hypothetical protein MGC35402.
UHNhscpg0003374	2,30		chr15:92149010-92149160	
UHNhscpg0002004	2,29	MAML3	chr4:141293328-141294009	mastermind-like 3
UHNhscpg0002940	2,29		chr1:117949673-117949903	
UHNhscpg0010068	2,29		chr9:32633905-32633991	
UHNhscpg0011925	2,29			
UHNhscpg0010826	2,29	ZNF704	chr8:81761935-81762442	zinc finger protein 704
UHNhscpg0000714	2,28		chr9:86840057-86840341	
UHNhscpg0003045	2,28	C1orf126	chr1:15351420-15352210	hypothetical protein LOC200197
UHNhscpg0005652	2,28	RNF150	chr4:142274235-142274475	hypothetical protein FLJ27010
UHNhscpg0009657	2,28		chr7:25655866-25655926	
UHNhscpg0008704	2,28		chr5:3660004-3660219	
UHNhscpg0002393	2,27		chr14:101258396-101258872	
UHNhscpg0005768	2,27			
UHNhscpg0007256	2,27	MAP1D	chr2:172653205-172653417	methionine aminopeptidase 1D
UHNhscpg0005192	2,25			
UHNhscpg0006667	2,25		chr4:109312257-109312336	
UHNhscpg0005887	2,25	TRIM2	chr4:154445764-154445897	tripartite motif-containing 2
UHNhscpg0008945	2,23		chr8:91332113-91332255	
UHNhscpg0002288	2,23	PCDH20	chr13:60885510-60886291	hypothetical protein FLJ22218
UHNhscpg0001158	2,23	KIAA0553	chr17:39935621-39936830	hypothetical protein LOC23131
UHNhscpg0005633	2,22	DTNA	chr18:30341908-30341962	dystrobrevin alpha isoform 7
UHNhscpg0000200	2,22	CASC3	chr17:35549758-35551054	cancer susceptibility candidate 3
UHNhscpg0005125	2,21		chr21:38988222-38988383	
UHNhscpg0012013	2,21			

UHNhscpg0000823	2,21	2'-PDE	chr3:57516948-57517604	2'-PDE protein. non-metastatic cells 6, protein expressed in (nucleoside-diphosphate kinase)
UHNhscpg0009661	2,21		chr16:10816111-10816451	
UHNhscpg0009521	2,21		chr7:135629820-135629907	
UHNhscpg0008950	2,21	NME6	chr3:48317613-48318355	
UHNhscpg0002404	2,20		chr1:147599439-147599539	
UHNhscpg0002937	2,20		chr14:37136951-37137254	
UHNhscpg0011578	2,20	RAP1GDS1	chr20:3021119-3021338	RAP1GDS1 protein. TEK tyrosine kinase, endothelial (venous malformations, multiple cutaneous and mucosal)
UHNhscpg0008087	2,20		chr4:99509512-99509965	
UHNhscpg0007239	2,20	TEK	chr9:27129874-27130022	COP9 signalosome subunit 4
UHNhscpg0010453	2,20		chr10:21621284-21621492	
UHNhscpg0008340	2,20	COPS4	chr4:84175017-84175531	
UHNhscpg0011580	2,20	SSPN		sarco span
UHNhscpg0010459	2,20		chr10:14880054-14880297	
UHNhscpg0004417	2,20		chr12:26271310-26271364	
UHNhscpg0010948	2,19	HOXC4	chr12:52732158-52732222	homeobox C4
UHNhscpg0005635	2,19			
UHNhscpg0004756	2,18			
UHNhscpg0006995	2,18		chr19:60790125-60790321	
UHNhscpg0012183	2,18			
UHNhscpg0003458	2,18		chr4:37422099-37422200	
UHNhscpg0007747	2,17		chr6:153658567-153658613	
UHNhscpg0006320	2,17		chr2:235860506-235861062	
UHNhscpg0012120	2,17			
UHNhscpg0005062	2,17		chr2:110614375-110615220	
UHNhscpg0005070	2,16		chr15:61934020-61934130	
UHNhscpg0001126	2,16		chr16:3178116-3178355	

UHNhscpg0011938	2,16			
UHNhscpg0004462	2,16		chr2:64329394-64329559	
UHNhscpg0000077	2,16			
UHNhscpg0009076	2,16	SLC6A6	chr3:14456120-14456655	solute carrier family 6 (neurotransmitter
UHNhscpg0002972	2,16		chr7:54729466-54729537	
UHNhscpg0011297	2,15			
UHNhscpg0002185	2,15		chr17:14678161-14678745	
UHNhscpg0009891	2,14	TXNDC	chr14:50777113-50777261	thioredoxin domain containing
UHNhscpg0007776	2,13	LRPPRC	chr2:44024437-44024530	leucine-rich PPR motif-containing protein
UHNhscpg0008561	2,13			
UHNhscpg0006515	2,13		chr15:81114074-81114701	
UHNhscpg0002982	2,12	C6orf182	chr6:109523301-109523954	C6orf182 protein.
UHNhscpg0001049	2,12	ASTN2	chr9:118445889-118446269	astrotactin 2 isoform d
UHNhscpg0002103	2,11	SMPDL3A	chr6:123151621-123152958	acid sphingomyelinase-like phosphodiesterase 3A
UHNhscpg0009350	2,11			
UHNhscpg0002098	2,10		chr3:191456691-191456934	
UHNhscpg0008458	2,10	DYSF	chr2:71621293-71621439	dysferlin
UHNhscpg0010571	2,10	MTAP	chr9:21957127-21957567	methylthioadenosine phosphorylase
UHNhscpg0004755	2,10			
UHNhscpg0007446	2,10	ZHX2	chr8:123862942-123863095	zinc fingers and homeoboxes 2
UHNhscpg0001772	2,10	MRO	chr18:46599738-46600546	maestro
UHNhscpg0002650	2,09		chr1:38003717-38004407	
UHNhscpg0002942	2,09		chr8:7381629-7382057	
UHNhscpg0002871	2,09		chr7:61376943-61417878	
UHNhscpg0007084	2,09		chr14:74587850-74588068	
UHNhscpg0000452	2,09	FAM70B	chr13:113650943-113651734	family with sequence similarity 70, member B
UHNhscpg0009782	2,08	TANC1	chr2:159752892-159752977	TPR domain, ankyrin-repeat
UHNhscpg0001494	2,08	DHX30	chr3:47841126-47842283	DEAH (Asp-Glu-Ala-His) box polypeptide 30
UHNhscpg0005215	2,08		chr5:147728295-147728378	
UHNhscpg0005439	2,08			

UHNhscpg0001491	2,08	MLSTD1	chr12:29193098-29193925	hypothetical protein FLJ10462
UHNhscpg0007729	2,08		chr6:132255091-132255396	
UHNhscpg0004665	2,08	GABRB3	chr15:24428201-24428427	gamma-aminobutyric acid (GABA) A receptor, beta
UHNhscpg0000399	2,08		chr17:22568552-22568999	
UHNhscpg0010580	2,08	DBR1	chr3:139375656-139376416	debranching enzyme homolog 1
UHNhscpg0001904	2,07		chrY:57231269-57231755	
UHNhscpg0009313	2,06		chr1:9411460-9411863	
UHNhscpg0001082	2,06	MGC2654	chr16:8623667-8623982	hypothetical protein LOC79091
UHNhscpg0007303	2,06		chr20:11421415-11421585	
UHNhscpg0001465	2,06		chr16:44964780-44965472	
UHNhscpg0006307	2,06	HPSE2	chr10:100983740-100984257	heparanase 2
UHNhscpg0003077	2,06			
UHNhscpg0007745	2,06		chr11:129993992-129994221	
UHNhscpg0010052	2,05		chr17:67625505-67626555	
UHNhscpg0003182	2,05	LEMD3	chr12:63850471-63850719	LEM domain containing 3
UHNhscpg0008680	2,05			
UHNhscpg0001425	2,05		chr1:242147549-242147790	
UHNhscpg0004115	2,04	PAX3	chr2:222868477-222868623	paired box gene 3 isoform PAX3e
UHNhscpg0010738	2,04			
UHNhscpg0006603	2,04			
UHNhscpg0011540	2,04	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0007019	2,04		chr6:34832184-34832756	
UHNhscpg0010689	2,03	PDE3B	chr11:14649993-14650219	phosphodiesterase 3B, cGMP-inhibited
UHNhscpg0003052	2,03	LRRTM4	chr2:77151998-77152090	leucine rich repeat transmembrane neuronal 4
UHNhscpg0000213	2,03	C6orf170	chr6:121697099-121697968	protein C6orf170
UHNhscpg0000761	2,03		chr15:43466690-43467020	
UHNhscpg0006689	2,02		chr5:128566967-128567058	
UHNhscpg0003632	2,02	RP9	chr7:33114992-33115584	retinitis pigmentosa 9 protein
UHNhscpg0004156	2,01	PSMD14	chr2:161919776-161919921	26S proteasome-associated pad1 homolog
UHNhscpg0002978	2,00	HPSE2	chr10:100809507-100809589	heparanase 2

UHNhscpg0002026	2,00		chr15:75499868-75500220	
UHNhscpg0000505	2,00		chr19:60790323-60790955	
UHNhscpg0010727	2,00		chr17:66917321-66917506	
UHNhscpg0011371	2,00			
UHNhscpg0007805	2,00	ACSL3	chr2:223506688-223507101	acyl-CoA synthetase long-chain family member 3
UHNhscpg0011351	2,00		chr5:133613909-133614084	
UHNhscpg0004895	2,00	TTC23	chr15:97608588-97609520	Hypothetical protein FLJ13168.
UHNhscpg0008305	2,00			
UHNhscpg0002560	2,00	CHAC1	chr15:39032935-39033440	hypothetical protein LOC79094
UHNhscpg0008585	2,00		chr6:82004772-82004846	
UHNhscpg0004707	2,00		chr2:55362480-55363712	

Suppl. Table II: Inactive SLE histone H3K4me3 candidates

Probe ID	Fold change	Within	Genome Location	Description
UHNhscpg0005293	7,30	RERE	chr1:25055302-25055491	atrophin-1 like protein
UHNhscpg0005254	7,20		chr6:24118723-24118814	
UHNhscpg0000009	7,00		chr1:8799536-8800122	
UHNhscpg0010505	6,16		chr16:3035713-3035936	
UHNhscpg0010529	6,10	LGI2	chr4:24625819-24625958	leucine-rich repeat LGI family, member 2
UHNhscpg0004133	6,00		chr1:37556494-37556698	
UHNhscpg0011303	5,47		chr1:114728833-114729017	
UHNhscpg0009000	5,13		chr1:211934228-211934474	
UHNhscpg0005190	4,80	LACTB2	chr4:180260816-180261112	lactamase, beta 2
UHNhscpg0000081	4,73		chr8:71743478-71744294	
UHNhscpg0000213	4,73		chr6:121697099-121697968	
UHNhscpg0000820	4,45			
UHNhscpg0002884	4,27	C1orf140	chr5:180548389-180549316	hypothetical protein LOC400804
UHNhscpg0005603	4,15		chr1:219573454-219573561	
UHNhscpg0011482	4,10		chr8:111314931-111315117	
UHNhscpg0004656	3,99		chr14:53492253-53492296	
UHNhscpg0001501	3,99	BMP4		bone morphogenetic protein 4 preproprotein
UHNhscpg0012009	3,90			
UHNhscpg0002229	3,89		chr1:30553400-30553955	
UHNhscpg0001380	3,89		chr7:131201936-131202070	
UHNhscpg0006609	3,88	PSMD14	chr4:13135542-13135824	26S proteasome-associated pad1 homolog
UHNhscpg0004156	3,85		chr2:161919776-161919921	
UHNhscpg0006786	3,81		chr12:84178562-84178668	
UHNhscpg0008689	3,80		chr4:31377115-31377307	
UHNhscpg0004786	3,80	NEL2	chr14:64173213-64173530	nel-like 2
UHNhscpg0010834	3,80		chr12:43555115-43555359	

UHNhscpg0011061	3,80			
UHNhscpg0006286	3,76		chr5:18182804-18182902	
UHNhscpg0005212	3,75		chr6:27264167-27264605	
UHNhscpg0010532	3,74			
UHNhscpg0003279	3,72	HNRPUL1	chr19:46461324-46461406	E1B-55kDa-associated protein 5 isoform d
UHNhscpg0003046	3,67		chr8:65446051-65446771	
UHNhscpg0001735	3,63	PTBP1	chr19:749886-750913	polypyrimidine tract-binding protein 1 isoform
UHNhscpg0011985	3,60			
UHNhscpg0002492	3,60	CENTG2	chr2:236606828-236607245	centaurin, gamma 2 isoform 1
UHNhscpg0011616	3,57	SLC16A10	chr6:111633002-111633068	solute carrier family 16, member 10
UHNhscpg0010743	3,50		chr9:85424906-85425099	
UHNhscpg0011297	3,44			
UHNhscpg0002841	3,40		chr14:92671472-92671852	
UHNhscpg0006615	3,40	ATOH8	chr2:85834442-85834672	atonal homolog 8
UHNhscpg0003152	3,40		chr4:28968278-28968395	
UHNhscpg0004176	3,38	PGBD3	chr10:50417202-50417355	piggyBac transposable element derived 3
UHNhscpg0012113	3,37			
UHNhscpg0003632	3,35	RP9	chr7:33114992-33115584	retinitis pigmentosa 9 protein
UHNhscpg0008755	3,31	C6orf64	chr6:39190384-39190867	hypothetical protein LOC55776
UHNhscpg0008162	3,30		chr22:15245744-15245796	
UHNhscpg0000511	3,29	PVRL3	chr3:112274059-112274383	PVRL3 protein.
UHNhscpg0001297	3,24		chr17:38793230-38793666	
UHNhscpg0000701	3,24			
UHNhscpg0011618	3,23	PCCB	chr3:137495499-137495597	propionyl Coenzyme A carboxylase, beta
UHNhscpg0010983	3,20		chr5:54551833-54552394	
UHNhscpg0002631	3,18	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0004742	3,12			
UHNhscpg0000091	3,10		chr6:143308936-143309536	
UHNhscpg0010935	3,09	SHQ1	chr3:72979623-72979831	SHQ1 homolog
UHNhscpg0010473	3,09			

UHNhscpg0010870	3,06		chr7:75668303-75668771	
UHNhscpg0011930	3,06			
UHNhscpg0005017	3,05		chrX:118253592-118254183	
UHNhscpg0005039	3,05		chr18:54823511-54823781	
UHNhscpg0010197	3,00		chr10:22553919-22554094	
UHNhscpg0005180	2,94		chr12:126878177-126878285	
UHNhscpg0011286	2,94		chr11:128601903-128602132	
UHNhscpg0012024	2,92			
UHNhscpg0003250	2,90	PTCH	chr9:97314377-97314471	PTCH protein
UHNhscpg0003096	2,90			
UHNhscpg0007243	2,88			
UHNhscpg0004535	2,86		chr12:19062303-19062597	
UHNhscpg0009314	2,85		chr18:33623455-33623669	
UHNhscpg0006611	2,82	GRIA4	chr11:104985849-104986084	GRIA4 protein
UHNhscpg0004250	2,81	DST	chr6:56567259-56567384	dystonin isoform 1
UHNhscpg0008608	2,75		chr5:3660000-3660281	
UHNhscpg0011162	2,74		chr14:40895764-40895941	
UHNhscpg0006500	2,73	HIST1H2BC	chr6:26231317-26231487	hypothetical protein
UHNhscpg0010145	2,72			
UHNhscpg0004463	2,71	HLA-E	chr6:30565074-30565372	major histocompatibility complex, class I, E
UHNhscpg0010646	2,70		chr7:120968307-120968421	
UHNhscpg0000794	2,68	TNFRSF10B	chr8:22980969-22981809	tumor necrosis factor receptor superfamily
UHNhscpg0011795	2,68	DLC1	chr8:13034245-13034705	deleted in liver cancer 1 isoform 2
UHNhscpg0000642	2,65			
UHNhscpg0009167	2,64	MTHFS	chr15:78002876-78003582	cervical cancer suppressor-1
UHNhscpg0004636	2,64		chr1:94655918-94656154	
UHNhscpg0000201	2,62			
UHNhscpg0004735	2,62	SRP68	chr17:71580068-71581324	hypothetical protein FLJ14416
UHNhscpg0001164	2,61	BC034418	chr1:146095902-146096581	NBPF (Fragment)
UHNhscpg0004638	2,59	BARX2	chr11:128751428-128751723	BarH-like homeobox 2

UHNhscpg0010702	2,55		chr2:232087778-232087876	
UHNhscpg0008551	2,55		chr10:30969102-30969197	
UHNhscpg0000772	2,53		chr9:90113900-90114254	
UHNhscpg0010991	2,53	SYT1	chr12:78189180-78189441	synaptotagmin I
UHNhscpg0006263	2,52		chr9:78376433-78376770	
UHNhscpg0004072	2,50	PDE7B	chr6:136416011-136416273	phosphodiesterase 7B
UHNhscpg0011088	2,50	MGC19764	chr17:30594652-30595203	hypothetical protein LOC162394
UHNhscpg0011925	2,47			
UHNhscpg0005847	2,47	ZNFN1A3	chr17:35234912-35235009	zinc finger protein, subfamily 1A, 3 (Aiolos)
UHNhscpg0005718	2,46			
UHNhscpg0007129	2,45	MPP2	chr17:39340273-39340455	palmitoylated membrane protein 2
UHNhscpg0008042	2,45	MEIS1	chr2:66526260-66526490	Meis1 homolog
UHNhscpg0000195	2,43		chr5:137397182-137397404	
UHNhscpg0009994	2,43		chr10:32743052-32743137	
UHNhscpg0004056	2,42			
UHNhscpg0004711	2,42		chr16:3164806-3165727	
UHNhscpg0001175	2,41			
UHNhscpg0005176	2,41	AUTS2	chr7:69052469-69052558	AUTS2 protein
UHNhscpg0012010	2,38			
UHNhscpg0000858	2,36	CCDC55	chr17:25467698-25468081	hypothetical protein LOC84081 isoform 1
UHNhscpg0008557	2,36	DQ335455	chr10:239933-240068	adenovirus 5 E1A binding protein (BS69)
UHNhscpg0003607	2,36		chr5:167220645-167221046	
UHNhscpg0009313	2,36		chr1:9411460-9411863	
UHNhscpg0004369	2,35		chr6:81489478-81489642	
UHNhscpg0001155	2,35		chr1:218767180-218767706	
UHNhscpg0010682	2,35		chr14:60178013-60178256	
UHNhscpg0007784	2,35	XPO7	chr8:21917232-21917561	exportin 7
UHNhscpg0004466	2,33	BMP4	chr14:53492075-53492857	bone morphogenetic protein 4 preproprotein
UHNhscpg0001212	2,33		chr7:125460857-125461287	
UHNhscpg0000960	2,33	FLJ90834	chr11:67130240-67131511	hypothetical protein LOC283135

UHNhscpg0011423	2,33	COBL	chr7:51276218-51276348	COBL protein.
UHNhscpg0011144	2,32	LARS2	chr3:45415147-45415391	leucyl-tRNA synthetase 2, mitochondrial
UHNhscpg0011834	2,32			
UHNhscpg0001211	2,32		chr9:28915181-28915619	
UHNhscpg0004970	2,32		chr1:119334489-119335262	
UHNhscpg0004648	2,31		chr4:186255900-186255993	
UHNhscpg0006366	2,30		chrX:124914352-124914468	
UHNhscpg0003976	2,29	PDE7B	chr6:136416011-136416273	phosphodiesterase 7B
UHNhscpg0008467	2,28			
UHNhscpg0003653	2,28			
UHNhscpg0005214	2,28		chr20:46529140-46529218	
UHNhscpg0011541	2,27		chr6:120529274-120529376	
UHNhscpg0009126	2,27		chr6:27263752-27263928	
UHNhscpg0000436	2,27	OSR1	chr2:19420416-19421257	odd-skipped related 1
UHNhscpg0002975	2,27		chr12:39869705-39869992	
UHNhscpg0001626	2,26	LSM10	chr1:36635456-36636344	LSM10, U7 small nuclear RNA associated
UHNhscpg0011241	2,26	BC045801	chr2:132729054-132729229	hypothetical protein
UHNhscpg0007934	2,26	SFRS12	chr5:65475477-65476272	splicing factor, arginine/serine-rich 12
UHNhscpg0004956	2,25		chr9:18180440-18180488	
UHNhscpg0009544	2,25		chr5:161076510-161076588	
UHNhscpg0004091	2,25	LRP1B	chr2:141707608-141707767	low density lipoprotein-related protein 1B
UHNhscpg0001358	2,25		chr11:125657286-125657862	
UHNhscpg0009359	2,25		chr4:132995962-132996150	
UHNhscpg0009302	2,25		chr14:20220295-20220767	
UHNhscpg0002314	2,24	KCNAB1	chr3:157491665-157492083	potassium voltage-gated channel, shaker-related
UHNhscpg0003823	2,24		chr2:107581551-107581797	
UHNhscpg0004417	2,24		chr10:14880054-14880297	
UHNhscpg0010654	2,23		chr1:113609418-113609661	
UHNhscpg0005510	2,23		chr13:93999137-93999894	
UHNhscpg0009813	2,23		chr1:230377704-230377904	

UHNhscpg0001107	2,23		chr1:159776239-159776690	
UHNhscpg0005472	2,23		chr6:48987342-48987493	
UHNhscpg0001919	2,23	PTBP1	chr19:749886-750909	polypyrimidine tract-binding protein 1 isoform
UHNhscpg0003268	2,22		chr6:10529696-10530144	
UHNhscpg0004103	2,22		chr4:96862429-96862527	
UHNhscpg0001094	2,22	SLC24A3	chr20:19621353-19621707	solute carrier family 24
UHNhscpg0002381	2,21		chr11:67496186-67496792	
UHNhscpg0011090	2,20		chr13:98870327-98870739	
UHNhscpg0007005	2,20	GRIA1	chr5:152946175-152946339	glutamate receptor, ionotropic, AMPA 1
UHNhscpg0004945	2,20		chr11:121098653-121098837	
UHNhscpg0005411	2,19	THRAP2	chr12:115139995-115140080	thyroid hormone receptor associated protein 2
UHNhscpg0000653	2,19	BC011600	chr6:31973515-31974151	RD RNA binding protein.
UHNhscpg0003045	2,18	C1orf126	chr1:15351420-15352210	hypothetical protein LOC200197
UHNhscpg0008473	2,16	C11orf45	chr11:128280775-128281003	hypothetical protein LOC219833
UHNhscpg0011701	2,16			
UHNhscpg0000354	2,16	C14orf28	chr14:44436273-44437138	hypothetical protein LOC122525
UHNhscpg0009335	2,15		chr16:78192330-78193161	
UHNhscpg0001296	2,15	FLJ25439	chr5:34874723-34875441	FLJ25439 protein
UHNhscpg0003498	2,14			
UHNhscpg0006282	2,14	SAV1	chr14:50203675-50203889	WW45 protein
UHNhscpg0011721	2,14		chr14:79404261-79404357	
UHNhscpg0004823	2,14	RASA2	chr3:142739807-142739862	RAS p21 protein activator 2
UHNhscpg0005725	2,14		chr4:90793925-90794054	
UHNhscpg0000764	2,14		chr8:21455600-21456002	
UHNhscpg0000843	2,13		chr4:153186077-153186612	
UHNhscpg0003657	2,13	ZNF195	chr11:3340253-3340295	zinc finger protein 195
UHNhscpg0010494	2,13	TMEM126B	chr11:85020730-85020778	hypothetical protein
UHNhscpg0001117	2,13	FLJ10726	chr11:111449826-111450322	FLJ10726 protein.
UHNhscpg0005429	2,13		chr3:52163975-52164081	
UHNhscpg0008425	2,12	RPSA	chr3:39422803-39423639	ribosomal protein SA

UHNhscpg0000098	2,10			
UHNhscpg0004175	2,10		chr5:155505252-155505502	
UHNhscpg0003285	2,10	HLX1	chr1:219119456-219119595	H2.0-like homeo box 1
UHNhscpg0007683	2,10		chr6:31012256-31012553	
UHNhscpg0007774	2,10		chrM:23-208	
UHNhscpg0011079	2,10		chr5:54551718-54552867	
UHNhscpg0001876	2,10	PRR3	chr6:30638118-30638662	proline rich 3
UHNhscpg0011578	2,09		chr20:3021119-3021338	
UHNhscpg0000236	2,09		chr2:91033015-91034153	
UHNhscpg0006367	2,09		chr19:1726848-1727110	
UHNhscpg0011627	2,09		chr10:120294244-120294380	
UHNhscpg0009350	2,08			
UHNhscpg0010822	2,07		chr1:74122707-74122973	
UHNhscpg0006721	2,07			
UHNhscpg0010126	2,07		chr11:34023042-34023476	
UHNhscpg0003304	2,07			
UHNhscpg0002629	2,07		chr18:44228815-44229296	
UHNhscpg0003709	2,07		chr11:93652603-93652771	
UHNhscpg0004127	2,06		chr8:116228379-116228515	
UHNhscpg0002565	2,06		chr6:116998748-116999090	
UHNhscpg0008880	2,06	VEPH1	chr3:158586504-158586803	ventricular zone expressed PH domain homolog 1
UHNhscpg0000123	2,06			
UHNhscpg0009914	2,06		chr5:64017735-64017922	
				Similar to DNA directed RNA polymerase II polypeptide J-related gene.
UHNhscpg0004498	2,06	POLR2J2	chr7:102098723-102099094	
UHNhscpg0009711	2,05		chr7:1226637-1226847	
UHNhscpg0003165	2,05	LIPG	chr18:45341005-45341228	Hypothetical protein FLJ43354.
UHNhscpg0002601	2,04		chr14:92296905-92297488	
UHNhscpg0003251	2,04		chr7:126699400-126699594	

UHNhscpg0011711	2,04			
UHNhscpg0009633	2,03		chr3:180348151-180348446	
UHNhscpg0003982	2,03		chr7:79741186-79741274	
UHNhscpg0009437	2,03			
UHNhscpg0004719	2,03	SCARB1	chr12:123889612-123890097	scavenger receptor class B, member 1
UHNhscpg0006995	2,03		chr19:60790125-60790321	
UHNhscpg0008609	2,03		chr5:3660002-3660279	
UHNhscpg0010689	2,03	PDE3B	chr11:14649993-14650219	phosphodiesterase 3B, cGMP-inhibited
UHNhscpg0000179	2,02	MCCC1	chr3:184251454-184251869	Hypothetical protein DKFZp686B20267.
UHNhscpg0009038	2,02			
UHNhscpg0002650	2,02		chr1:38003717-38004407	
UHNhscpg0004543	2,01	NAALADL2	chr3:176649733-176649865	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0010755	2,01			
UHNhscpg0004115	2,01	PAX3	chr2:222868477-222868623	paired box gene 3 isoform PAX3e
UHNhscpg0010017	2,01		chr16:33871370-33871670	
UHNhscpg0002752	2,01	CEP57	chr11:95163040-95163949	translokin
UHNhscpg0010752	2,01		chr14:84830337-84830559	
UHNhscpg0006972	2,01	CACNA2D3	chr3:54425240-54425291	calcium channel, voltage-dependent, alpha
UHNhscpg0002607	2,01	SELI	chr2:26422939-26423296	SELI protein (Hypothetical protein tmp_locus_24).
UHNhscpg0006256	2,01	PTPN22	chr1:114201225-114201328	protein tyrosine phosphatase, non-receptor type

Suppl. Table III: RA histone H3K4me3 candidates

Probe ID	Fold change	Within	Genome Location	Description
UHNhscpg0009886	5,30			
UHNhscpg0006946	4,45		chrY:10646218-10646504	
UHNhscpg0005169	4,17			
UHNhscpg0000166	4,08	SLC12A8	chr3:126414031-126414955	solute carrier family 12,member 8
UHNhscpg0004754	4,00		chr9:25482438-25482624	
UHNhscpg0008945	3,96		chr8:91332113-91332255	
UHNhscpg0002290	3,80		chrX:99548013-99548543	
UHNhscpg0007664	3,80		chr13:75884808-75884868	
UHNhscpg0000126	3,70	LRPPRC	chr2:44076267-44077277	leucine-rich PPR motif-containing protein
UHNhscpg0003528	3,54		chr16:84814510-84814726	
UHNhscpg0003004	3,54	RAB3C	chr5:57914891-57915179	RAB3C,member RAS oncogene family
UHNhscpg0004615	3,50		chr3:75567864-75568155	
UHNhscpg0011940	3,44			
UHNhscpg0006060	3,40		chr1:236179718-236179929	
UHNhscpg0004560	3,33	ZNF184	chr6:27555242-27555509	hypothetical protein FLJ16197
UHNhscpg0001285	3,33		chr4:64457906-64458120	
UHNhscpg0003543	3,29		chr13:93951550-93951661	
UHNhscpg0004872	3,24			
UHNhscpg0011985	3,20			
UHNhscpg0005125	3,19		chr21:38988222-38988383	
UHNhscpg0006504	3,10		chr3:82087126-82087227	
UHNhscpg0010247	3,02		chr6:150388453-150388629	
UHNhscpg0005159	3,02	BC005991	chr6:100069473-100070296	USP45 protein
UHNhscpg0000854	3,00		chr21:34337051-34337217	
UHNhscpg0008689	2,98		chr4:31377115-31377307	
UHNhscpg0005352	2,91	C15orf24	chr15:32181099-32181524	chromosome 15 open reading frame 24

UHNhscpg0009490	2,91		chr6:77419275-77419456	
UHNhscpg0002651	2,90		chrY:57270238-57270431	
UHNhscpg0005479	2,87		chr1:217574002-217574163	
UHNhscpg0002472	2,87		chr16:86934900-86935450	
UHNhscpg0008950	2,82	NME6	chr3:48317613-48318355	non-metastatic cells 6,protein expressed in (nucleoside-diphosphate kinase)
UHNhscpg0004697	2,80		chr5:157872874-157872922	
UHNhscpg0008608	2,75		chr5:3660000-3660281	
UHNhscpg0004794	2,71		chr11:9438024-9438147	
UHNhscpg0000772	2,71		chr9:90113900-90114254	
UHNhscpg0008478	2,71			
UHNhscpg0006408	2,70		chr2:39613443-39613515	
UHNhscpg0007688	2,69		chr2:207243483-207243574	
UHNhscpg0004465	2,68		chr7:88287262-88287378	
UHNhscpg0011074	2,67		chr7:39955059-39955111	
UHNhscpg0005250	2,65		chr4:19335730-19335893	
UHNhscpg0012009	2,65			
UHNhscpg0002293	2,64	LHX9	chr1:196151970-196152540	LIM homeobox 9 isoform 2
UHNhscpg0010848	2,60			
UHNhscpg0000653	2,59	BC011600	chr6:31973515-31974151	RD RNA binding protein
UHNhscpg0010510	2,58		chr2:232087780-232087864	
UHNhscpg0001092	2,57	DDX1	chr2:15649013-15649865	DEAD(Asp-Glu-Ala-Asp)box polypeptide 1
UHNhscpg0007765	2,56		chr12:39883242-39883279	
UHNhscpg0008208	2,50		chr4:26467870-26468817	
UHNhscpg0004212	2,50			
UHNhscpg0003066	2,50		chr7:54729466-54729537	
UHNhscpg0001676	2,49		chrY:12119134-12187549	
UHNhscpg0007681	2,48	TBC1D5	chr3:17464432-17464485	TBC1 domain family,member 5
UHNhscpg0010583	2,45		chr4:146707964-146708058	
UHNhscpg0002554	2,45	RPL34	chr4:109760867-109761756	ribosomal protein L34

UHNhscpg0010770	2,45			
UHNhscpg0002562	2,45	ARHGAP25	chr2:68859806-68860041	Rho GTPase activating protein 25 isoform a
UHNhscpg0004019	2,42	PAX3	chr2:222868477-222868620	paired box gene 3 isoform PAX3e
UHNhscpg0012144	2,42			
UHNhscpg0004655	2,40			
UHNhscpg0009144	2,36		chr3:10027888-10028179	
UHNhscpg0000555	2,36		chr1:119345226-119345807	
UHNhscpg0009318	2,36		chr13:27441453-27441561	
UHNhscpg0000102	2,36		chr2:174916344-174917527	
UHNhscpg0000277	2,35		chr14:60179078-60179855	
UHNhscpg0002324	2,34		chr4:27064169-27064400	
UHNhscpg0010911	2,33			
UHNhscpg0006834	2,33		chr1:227321939-227322101	
UHNhscpg0009000	2,32		chr1:211934228-211934474	
UHNhscpg0011444	2,32	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0002263	2,30			
UHNhscpg0010988	2,30	TRIM7	chr5:180562969-180563716	tripartite motif-containing 7 isoform 1
UHNhscpg0010920	2,30	LIMK2	chr22:29973632-29973792	LIM domain kinase 2 isoform 2a
UHNhscpg0010854	2,30	ASB3	chr2:53772190-53772229	ankyrin repeat and SOCS box-containing protein 3
UHNhscpg0007643	2,30		chr2:229886278-229886555	
UHNhscpg0004462	2,29		chr2:64329394-64329559	
UHNhscpg0009160	2,28	FSHR	chr2:49130887-49131127	follicle stimulating hormone receptor isoform 1
UHNhscpg0009288	2,27			
UHNhscpg0010264	2,26			
UHNhscpg0003525	2,26			
UHNhscpg0011502	2,25		chr11:59075092-59075158	
UHNhscpg0005219	2,23		chr13:61346843-61347137	
UHNhscpg0001402	2,20	NMNAT2	chr1:181595799-181596390	nicotinamide mononucleotide adenylyltransferase
UHNhscpg0004513	2,20	AHSA1	chr14:76994780-76994951	AHA1, activator of heat shock 90kDa protein
UHNhscpg0001679	2,20	TLE1	chr9:83397625-83398180	transducin-like enhancer protein 1

UHNhscpg0011820	2,20	HEATR1	chr1:234791204-234791323	hypothetical protein FLJ40893.
UHNhscpg0006123	2,20		chr2:222891127-222891550	
UHNhscpg0007021	2,20		chr13:59635984-59636228	
UHNhscpg0004895	2,18	TTC23	chr15:97608588-97609520	hypothetical protein FLJ13168.
UHNhscpg0008160	2,17	RNF157	chr17:71719590-71719725	hypothetical protein FLJ34148.
UHNhscpg0000112	2,16		chr11:94604983-94605396	
UHNhscpg0007799	2,16	RNASET2	chr6:167288638-167288997	ribonuclease T2
UHNhscpg0004156	2,15	PSMD14	chr2:161919776-161919921	26S proteasome-associated pad1 homolog
UHNhscpg0003862	2,15	KDEL2	chr7:6471766-6471934	KDEL receptor 2
UHNhscpg0000436	2,14	OSR1	chr2:19420416-19421257	odd-skipped related 1
UHNhscpg0001297	2,14		chr17:38793230-38793666	
UHNhscpg0002486	2,14		chr3:75819404-75819738	
UHNhscpg0010767	2,13	ESD	chr13:46268526-46268875	esterase D/formylglutathione hydrolase
UHNhscpg0007443	2,11	LARS2	chr3:45495162-45495284	leucyl-tRNA synthetase 2, mitochondrial
UHNhscpg0007848	2,11		chr11:14242512-14242599	
UHNhscpg0003781	2,10		chr20:10455971-10456102	
UHNhscpg0011222	2,10	ZNF440	chr19:11785516-11786704	zinc finger protein 440
UHNhscpg0000811	2,09			
UHNhscpg0008814	2,09			
UHNhscpg0001005	2,08		chr16:16476015-16476521	
UHNhscpg0010679	2,08		chr4:146707964-146708058	
UHNhscpg0011478	2,08			
UHNhscpg0003250	2,08	PTCH	chr9:97314377-97314471	PTCH protein.
UHNhscpg0005233	2,08		chr9:90295855-90296018	
UHNhscpg0001748	2,07		chr15:82539899-82540692	
UHNhscpg0008271	2,07			
UHNhscpg0010557	2,06		chr20:62430008-62430829	
UHNhscpg0001975	2,06	MOV10L1	chr22:48892370-48893581	MOV10-like 1
UHNhscpg0006034	2,05		chr1:216584866-216586140	
UHNhscpg0002317	2,04			

UHNhscpg0003296	2,04		chr15:60469319-60470398	
UHNhscpg0004035	2,04		chr5:51845016-51845118	
UHNhscpg0005924	2,03		chr1:24434415-24434479	
UHNhscpg0012183	2,03			
UHNhscpg0001573	2,03		chr6:10194351-10194541	
UHNhscpg0000148	2,03	METT10D	chr17:2361322-2361754	MGC3329 protein
UHNhscpg0002278	2,03		chr19:50674100-50674375	
UHNhscpg0009929	2,02			
UHNhscpg0006761	2,01		chr13:19632469-19632710	
UHNhscpg0006431	2,01	BAI2	chr1:32001078-32001668	brain-specific angiogenesis inhibitor 2
UHNhscpg0006683	2,01			
UHNhscpg0004181	2,00	ZNF204	chr6:27440337-27440574	zinc finger protein 204
UHNhscpg0007985	2,00	TMEM16B	chr12:5862530-5862631	transmembrane protein 16B
UHNhscpg0000648	2,00		chr17:19046118-19046769	

Suppl. Table IV: Healthy subjects histone H3K4me3 candidates

Probe ID	Fold change	Within	Genome Location	Description
UHNhscpg0003442	14,00	TRPM2	chr21:44619534-44619975	transient receptor potential cation channel, subfamily M,member 2,striatum short form (SSF-TRPM2)
UHNhscpg0000041	9,70			
UHNhscpg0002631	9,49	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0000009	7,70	RERE	chr1:8799536-8800122	atrophin-1 like protein
UHNhscpg0005254	6,30		chr6:24118723-24118814	
UHNhscpg0000607	5,70	PVRL3	chr3:112274059-112274383	PVRL3 protein
UHNhscpg0008689	5,70		chr4:31377115-31377307	
UHNhscpg0012185	5,70			
UHNhscpg0000653	5,32	BC011600	chr6:31973515-31974151	RD RNA binding protein.
UHNhscpg0001229	5,28	HSPBP1	chr19:60482958-60483290	hsp70-interacting protein
UHNhscpg0004964	5,20		chr10:65334632-65334795	
UHNhscpg0001735	5,17	PTBP1	chr19:749886-750913	polypyrimidine tract-binding protein 1 isoform
UHNhscpg0009673	4,82		chr22:39724994-39725187	
UHNhscpg0007304	4,60		chr1:26892150-26892406	
UHNhscpg0010345	4,60		chr6:137331040-137331320	
UHNhscpg0000820	4,52			
UHNhscpg0003251	4,50		chr7:126699400-126699594	
UHNhscpg0007472	4,50		chr11:37424954-37425096	
UHNhscpg0005192	4,44			
UHNhscpg0003182	4,32	LEMD3	chr12:63850471-63850719	LEM domain containing 3
UHNhscpg0004636	4,30		chr1:94655918-94656154	
UHNhscpg0000305	4,28		chr16:10943883-10944164	
UHNhscpg0004871	4,21	IFT74	chr9:26946099-26946466	coiled-coil domain containing 2
UHNhscpg0000213	4,10	C6orf170	chr6:121697099-121697968	protein C6orf170
UHNhscpg0003221	4,10	LOC84661	chr2:32117579-32118327	dpy-30-like protein

UHNhscpg0000764	4,10		chr8:21455600-21456002	
UHNhscpg0011930	4,10			
UHNhscpg0010935	4,10	SHQ1	chr3:72979623-72979831	SHQ1 homolog
UHNhscpg0000112	4,05		chr11:94604983-94605396	
UHNhscpg0000255	4,00			
UHNhscpg0004865	4,00		chr7:9370948-9371107	
UHNhscpg0005677	3,90		chr13:86689794-86689855	
UHNhscpg0003851	3,90		chr14:26623754-26623813	
UHNhscpg0010650	3,90			
UHNhscpg0005333	3,90	PTPN22	chr1:114201225-114201328	protein tyrosine phosphatase,non-receptor type
UHNhscpg0006566	3,90			
UHNhscpg0000529	3,89		chr9:86840057-86840338	
UHNhscpg0008377	3,86		chr5:119778306-119778458	
UHNhscpg0000070	3,86		chr12:47739460-47740924	
UHNhscpg0001592	3,80		chr4:98409625-98410094	
UHNhscpg0000505	3,80		chr19:60790323-60790955	
UHNhscpg0004462	3,77		chr2:64329394-64329559	
UHNhscpg0009000	3,76		chr1:211934228-211934474	
UHNhscpg0003150	3,70		chr5:163947645-163947694	
UHNhscpg0000976	3,70			
UHNhscpg0004039	3,70		chr14:74587850-74588066	
UHNhscpg0011252	3,60		chr18:2690634-2690695	
UHNhscpg0009187	3,60		chr16:3147452-3148184	
UHNhscpg0003429	3,60	MCTP1	chr5:94112102-94112187	hypothetical protein FLJ22344
UHNhscpg0000102	3,58		chr2:174916344-174917527	
UHNhscpg0003041	3,52		chr12:90534102-90534189	
UHNhscpg0000087	3,51	AKT1S1	chr19:55071649-55072029	AKT1S1 protein.
UHNhscpg0005615	3,50	CTDSPL2	chr15:42532610-42532830	CTD (carboxy-terminal domain,RNA polymerase II)
UHNhscpg0001043	3,50	ZNF222	chr19:49220645-49221654	zinc finger protein 222
UHNhscpg0002964	3,48		chr18:60517653-60517843	

UHNhscpg0003793	3,44		chr1:53165225-53165473	
UHNhscpg0010839	3,44		chr9:85424906-85425099	
UHNhscpg0001510	3,44			
UHNhscpg0004739	3,43		chr3:62335094-62335726	
UHNhscpg0004156	3,43	PSMD14	chr2:161919776-161919921	26S proteasome-associated pad1 homolog
UHNhscpg0005293	3,40		chr1:25055302-25055491	
UHNhscpg0011515	3,40		chr3:6291504-6291563	
UHNhscpg0003273	3,38	PRDM4	chr12:106678144-106678410	PR domain containing 4
UHNhscpg0007437	3,37	FLJ34870	chr2:133966210-133966637	hypothetical protein LOC401013
UHNhscpg0004752	3,37	GJB2	chr13:19663948-19664549	gap junction protein, beta 2, 26kDa (connexin
UHNhscpg0004001	3,36	RGS13	chr1:190890876-190891120	regulator of G-protein signalling 13
UHNhscpg0006704	3,32			
UHNhscpg0008784	3,30			
UHNhscpg0004899	3,30	HNT	chr11:131648058-131648308	neurotrimin precursor (hNT)
UHNhscpg0010718	3,30	LOC552891	chr9:113463150-113464000	hypothetical protein LOC552891
UHNhscpg0011061	3,29			
UHNhscpg0000116	3,27	ERG	chr21:38886792-38887152	P55 (Fragment)
UHNhscpg0011925	3,27			
UHNhscpg0003676	3,27	ZCSL3	chr11:31399959-31400030	ZCSL3 protein
UHNhscpg0002235	3,20			
UHNhscpg0010933	3,20	FLJ46536	chr2:218619572-218619741	hypothetical protein LOC285180
UHNhscpg0004153	3,16			
UHNhscpg0009535	3,13		chr3:41605367-41605483	
UHNhscpg0008168	3,13		chr4:24987372-24987777	
UHNhscpg0000082	3,12	ABCB1	chr7:87094679-87095354	ATP-binding cassette sub-family B member 1
UHNhscpg0010953	3,11		chr1:213588392-213588627	
UHNhscpg0008845	3,10	CTNNAL1	chr9:110801836-110801926	catenin (Cadherin-associated protein), alpha-like 1
UHNhscpg0010386	3,10		chr1:53291317-53291693	
UHNhscpg0011038	3,10		chr2:176585836-176585889	
UHNhscpg0011574	3,10		chr11:128601903-128602132	

UHNhscpg0001138	3,10	CR936715	chr6:74029086-74030095	chromosome 6 open reading frame 148
UHNhscpg0011013	3,10		chr3:82083050-82083256	
UHNhscpg0005938	3,10		chr2:139709055-139709161	
UHNhscpg0005190	3,10		chr4:180260816-180261112	
UHNhscpg0003749	3,10	ZNF575	chr5:139760854-139761285	zinc finger protein 575
UHNhscpg0000368	3,10		chr19:48729058-48729311	
UHNhscpg0003069	3,07			
UHNhscpg0001622	3,07			
UHNhscpg0003632	3,06	RBM33 RP9	chr7:155249039-155249626	hypothetical protein LOC155435 retinitis pigmentosa 9 protein
UHNhscpg0002704	3,06		chr7:33114992-33115584	
UHNhscpg0007676	3,04		chr1:13332389-13333047	
UHNhscpg0004558	3,03		chr5:180529895-180530115	
UHNhscpg0007745	3,02	PPIL5 CYP1B1	chr13:22360853-22361122	peptidylprolyl isomerase (cyclophilin)-like 5 cytochrome P450, family 1, subfamily B
UHNhscpg0009008	3,00		chr11:129993992-129994221	
UHNhscpg0010064	3,00		chr14:38935426-38935732	
UHNhscpg0010773	3,00		chr6:24829776-24830117	
UHNhscpg0004873	3,00	LACTB2	chr14:26354647-26355078	lactamase, beta 2
UHNhscpg0007382	3,00		chr14:49135841-49136086	
UHNhscpg0005856	3,00		chr2:38154097-38154591	
UHNhscpg0000701	3,00			
UHNhscpg0000081	2,99	WRB	chr8:71743478-71744294	tryptophan rich basic protein
UHNhscpg0000152	2,99			
UHNhscpg0010687	2,97		chr10:86672551-86672764	
UHNhscpg0005303	2,97		chr1:194106703-194106769	
UHNhscpg0006898	2,97		chr21:39673997-39674585	
UHNhscpg0001998	2,95		chr1:9411460-9411863	
UHNhscpg0009313	2,94		chr7:120968307-120968421	
UHNhscpg0010646	2,93			
UHNhscpg0009155	2,92			
UHNhscpg0008608	2,91		chr5:3660000-3660281	

UHNhscpg0004042	2,90		chr1:222117016-222117194	
UHNhscpg0001028	2,90		chr16:17572562-17573145	
UHNhscpg0003296	2,90		chr15:60469319-60470398	
UHNhscpg0011547	2,90			
UHNhscpg0006093	2,90		chr13:83957345-83957623	
UHNhscpg0005125	2,90		chr21:38988222-38988383	
UHNhscpg0005667	2,90	MCART1	chr9:37893307-37894608	mitochondrial carrier triple repeat 1
UHNhscpg0010772	2,88	ACYP2	chr2:54250449-54250542	muscle-type acylphosphatase 2
UHNhscpg0001252	2,87	DUSP10	chr1:219980942-219981545	dual specificity phosphatase 10 isoform a
UHNhscpg0010406	2,87	CPLX4	chr18:55126773-55127248	complexin 4
UHNhscpg0005112	2,87	KIAA0241	chr7:32911549-32911779	KIAA0241 protein
UHNhscpg0000200	2,86	CASC3	chr17:35549758-35551054	cancer susceptibility candidate 3
UHNhscpg0005564	2,85	LBXCOR1	chr15:65899636-65900333	LBXCOR1 homolog (mouse)
UHNhscpg0008872	2,84		chr3:25681850-25682051	
UHNhscpg0007357	2,84	TMSB10	chr2:84986322-84986645	thymosin,beta 10
UHNhscpg0001287	2,83		chr7:131201936-131202066	
UHNhscpg0010517	2,80	NMNAT2	chr1:181653529-181653673	nicotinamide mononucleotide adenylyltransferase
UHNhscpg0002347	2,80			
UHNhscpg0000006	2,80	HIGD2BP	chr15:70765263-70765993	HIG1 domain family,member 2B pseudogene
UHNhscpg0009161	2,80		chr12:30889855-30890052	
UHNhscpg0006223	2,80	PTCHD1	chrX:23263126-23263259	PTCHD1 protein
UHNhscpg0011900	2,80			
UHNhscpg0011777	2,80		chr3:147995804-147995964	
UHNhscpg0005805	2,80		chr3:185428947-185430417	
UHNhscpg0001251	2,80	PISD	chr22:30387570-30388248	phosphatidylserine decarboxylase
UHNhscpg0010606	2,80		chr2:232087780-232087864	
UHNhscpg0003692	2,80			
UHNhscpg0002247	2,79	BCL7C	chr16:30793510-30794254	B-cell CLL/lymphoma 7C
UHNhscpg0010173	2,79		chr22:33577072-33577147	
UHNhscpg0003517	2,77		chr2:242433723-242434051	

UHNhscpg0005249	2,75	RAP2B	chr3:154363142-154363997	RAP2B, member of RAS oncogene family
UHNhscpg0008692	2,74	LACE1	chr6:108722592-108724012	lactation elevated 1
UHNhscpg0007333	2,74		chr3:28743845-28744079	
UHNhscpg0005780	2,73		chr13:61215847-61216047	
UHNhscpg0011540	2,70	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0009526	2,70			
UHNhscpg0001467	2,70		chr2:119248387-119248923	
UHNhscpg0001372	2,70	DDX1	chr2:15649013-15649865	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1
UHNhscpg0010741	2,70	FLJ46536	chr2:218619572-218619741	hypothetical protein LOC285180
UHNhscpg0009952	2,70		chr4:189722929-189723144	
UHNhscpg0007653	2,70		chr6:1367884-1367992	
UHNhscpg0000051	2,70	CNOT4	chr7:134844914-134845923	CCR4-NOT transcription complex,subunit 4
UHNhscpg0002798	2,69		chr1:13332389-13333047	
UHNhscpg0006678	2,68			
UHNhscpg0000387	2,68			
UHNhscpg0011992	2,67			
UHNhscpg0011234	2,66		chr1:47645910-47646119	
UHNhscpg0006690	2,66			
UHNhscpg0004036	2,66		chr10:62645195-62645416	
UHNhscpg0005860	2,66			
UHNhscpg0004523	2,66	CR601508	chr6:52869898-52870070	OTTHUMP00000016614.
UHNhscpg0001924	2,66	KIAA1383	chr1:231007590-231008560	KIAA1383
UHNhscpg0011977	2,62			
UHNhscpg0002973	2,62		chr20:34634581-34634927	
UHNhscpg0000386	2,61	ATP6V1C1	chr8:104102088-104102863	ATPase,H ⁺ transporting,lysosomal 42kDa,V1
UHNhscpg0000097	2,61	PCGF2	chr17:34156713-34157726	ring finger protein 110
UHNhscpg0002408	2,61			
UHNhscpg0010460	2,61			
UHNhscpg0001425	2,60		chr1:242147549-242147790	
UHNhscpg0009014	2,60	EIF3S5	chr11:7965149-7965860	eukaryotic translation initiation factor 3,

UHNhscpg0008515	2,60	GALNT13	chr2:154892928-154892960	UDP-N-acetyl-alpha-D-galactosamine:polypeptide
UHNhscpg0008038	2,60			
UHNhscpg0005776	2,60	ABL1	chr9:132728826-132729034	v-abl Abelson murine leukemia viral oncogene
UHNhscpg0009321	2,60		chr9:73429561-73429881	
UHNhscpg0006307	2,60	HPSE2	chr10:100983740-100984257	heparanase 2
UHNhscpg0006256	2,60	PTPN22	chr1:114201225-114201328	protein tyrosine phosphatase, non-receptor type
UHNhscpg0003200	2,60	FLJ90013	chr4:15806284-15806549	hypothetical protein LOC202018
UHNhscpg0004321	2,60			
UHNhscpg0011102	2,60	CDH13	chr16:81746228-81746440	cadherin 13 preproprotein
UHNhscpg0004648	2,60		chr4:186255900-186255993	
UHNhscpg0012008	2,59			
UHNhscpg0010350	2,59		chr17:18914641-18914818	
UHNhscpg0003413	2,56		chr7:144778056-144778139	
UHNhscpg0010707	2,56		chr5:23719013-23719161	
UHNhscpg0001446	2,55	C9orf111	chr9:139550912-139551440	OTTHUMP00000022702
UHNhscpg0003824	2,55		chr2:107581562-107581797	
UHNhscpg0010672	2,55	C20orf112	chr20:30534095-30534617	hypothetical protein LOC140688
UHNhscpg0001496	2,53	TLE1	chr9:83397625-83398180	transducin-like enhancer protein 1
UHNhscpg0001644	2,53		chr4:186173737-186174356	
UHNhscpg0009171	2,53		chr11:121252370-121252502	
UHNhscpg0007975	2,53		chr2:52664101-52664176	
UHNhscpg0003903	2,52	ZNF510	chr9:98563586-98563861	zinc finger protein 510
UHNhscpg0001748	2,52		chr15:82539899-82540692	
UHNhscpg0003194	2,52	KIAA1414	chr2:37157706-37157779	hypothetical protein LOC54497
UHNhscpg0004938	2,52	ADD2	chr2:70848619-70848803	adducin 2 isoform c
UHNhscpg0006573	2,51	MYRIP	chr3:40065318-40065490	myosin VIIA and Rab interacting protein
UHNhscpg0009926	2,51		chr18:71205607-71205792	
UHNhscpg0000242	2,51	PJA2	chr5:108772768-108774097	praja 2,RING-H2 motif containing
UHNhscpg0001490	2,50		chr6:170596507-170596765	
UHNhscpg0002982	2,50	C6orf182	chr6:109523301-109523954	C6orf182 protein

UHNhscpg0005186	2,50		chr17:4941225-4942088	
UHNhscpg0005138	2,50	LRRC16	chr6:25448148-25448300	leucine rich repeat containing 16
UHNhscpg0004457	2,50		chr11:81102293-81102445	
UHNhscpg0000595	2,50	AK092445	chr5:115324984-115325846	hypothetical protein FLJ35126
UHNhscpg0002581	2,50		chr15:81825124-81825456	
UHNhscpg0009705	2,50		chr19:20682623-20682723	
UHNhscpg0010909	2,50		chrX:23622731-23622861	
UHNhscpg0001573	2,50		chr6:10194351-10194541	
UHNhscpg0010998	2,50	LPHN3	chr4:62331048-62331197	latrophilin 3 precursor
UHNhscpg0011222	2,50	ZNF440	chr19:11785516-11786704	zinc finger protein 440
UHNhscpg0008296	2,50			
UHNhscpg0009045	2,50		chr2:32244088-32244142	
UHNhscpg0008961	2,50	KIR3DL2	chr19:60055042-60055358	NK receptor
UHNhscpg0011162	2,50		chr14:40895764-40895941	
UHNhscpg0005088	2,49	OTOF	chr2:26553759-26554684	otoferlin isoform b
UHNhscpg0000554	2,48		chr2:97723482-97723941	
UHNhscpg0006193	2,47	TPD52	chr8:81124591-81124700	tumor protein D52 isoform 2
UHNhscpg0000123	2,47			
UHNhscpg0006557	2,47	KCNQ3	chr8:133549563-133549849	potassium voltage-gated channel KQT-like protein
UHNhscpg0000148	2,46	METT10D	chr17:2361322-2361754	MGC3329 protein
UHNhscpg0001525	2,46		chr6:147220085-147220782	
UHNhscpg0010659	2,41			
UHNhscpg0000714	2,41		chr9:86840057-86840341	
UHNhscpg0003350	2,41		chrX:120080290-120080367	
UHNhscpg0009246	2,41	RAB6IP2	chr12:1049465-1049586	RAB6-interacting protein 2 isoform epsilon
UHNhscpg0000399	2,40		chr17:22568552-22568999	
UHNhscpg0002478	2,40		chr5:78103272-78103822	
UHNhscpg0008413	2,40			
UHNhscpg0005482	2,40		chr2:167684239-167684408	
UHNhscpg0002485	2,40		chr15:81825124-81825456	

UHNhscpg0011277	2,40	DPP4	chr2:162571572-162571665	dipeptidylpeptidase IV
UHNhscpg0011179	2,40		chr7:54225797-54226068	
UHNhscpg0003086	2,40			
UHNhscpg0008806	2,40		chr2:108296693-108296998	
UHNhscpg0007058	2,40		chr20:48844534-48844707	
UHNhscpg0012192	2,40			
UHNhscpg0009682	2,40		chr6:77419275-77419456	
UHNhscpg0002078	2,40		chr1:91625542-91625599	
UHNhscpg0006911	2,40		chr4:163431210-163431273	
UHNhscpg0008082	2,40		chr16:22523313-22523360	
UHNhscpg0001646	2,40	SMPDL3A	chr6:123151621-123152958	acid sphingomyelinase-like phosphodiesterase 3A
UHNhscpg0000231	2,39	NUDT2	chr9:34318659-34319984	
UHNhscpg0009106	2,39		chr12:52675318-52675483	nudix-type motif 2
UHNhscpg0010367	2,39	BC107850	chr17:40934538-40934738	hypothetical protein
UHNhscpg0001996	2,39		chr11:27484886-27485320	
UHNhscpg0007297	2,39			
UHNhscpg0002492	2,39	CENTG2	chr2:236606828-236607245	centaurin,gamma 2 isoform 1
UHNhscpg0009191	2,39		chr3:83699411-83699648	
UHNhscpg0010943	2,39		chr14:25982912-25982982	
UHNhscpg0000745	2,39		chr18:32114987-32115360	
UHNhscpg0003203	2,38		chr15:60469329-60470398	
UHNhscpg0010397	2,38			
UHNhscpg0009199	2,38	RRAGA	chr9:19040081-19040320	Ras-related GTP binding A
UHNhscpg0008656	2,38		chr1:115382669-115382841	
UHNhscpg0005272	2,37		chr3:13468312-13468452	
UHNhscpg0001804	2,37		chr6:46811260-46811667	
UHNhscpg0007393	2,36		chr15:51852178-51852375	
UHNhscpg0001325	2,35		chr13:109136008-109136238	
UHNhscpg0002648	2,35		chr6:15862824-15863570	
UHNhscpg0007725	2,34	ANXA6	chr5:150517114-150518456	annexin VI isoform 1

UHNhscpg0010838	2,34		chr1:142373128-142373246	
UHNhscpg0001181	2,34	ZNF225	chr19:49308929-49309510	zinc finger protein 225
UHNhscpg0001219	2,34		chr2:48062547-48063058	
UHNhscpg0012129	2,34			
UHNhscpg0005194	2,32	SORD	chr15:43102948-43103268	sorbitol dehydrogenase
UHNhscpg0011094	2,32	LPN3	chr4:62331048-62331197	latrophilin 3 precursor
UHNhscpg0001029	2,31			
UHNhscpg0003170	2,31	ESR2	chr14:63831062-63831529	3pv2
UHNhscpg0001687	2,30		chr5:122450828-122451251	
UHNhscpg0010748	2,30		chr10:37117088-37117254	
UHNhscpg0010834	2,30	NELL2	chr12:43555115-43555359	nel-like 2
UHNhscpg0000063	2,30		chr3:72584222-72584350	
UHNhscpg0009990	2,30		chr7:43932064-43932260	
UHNhscpg0009016	2,30	ATP5H	chr17:70554105-70554272	ATP synthase, H ⁺ transporting, mitochondrial F0
UHNhscpg0004895	2,30	TTC23	chr15:97608588-97609520	hypothetical protein FLJ13168
UHNhscpg0005562	2,30		chr19:63357492-63359052	
UHNhscpg0002409	2,30		chrX:128740663-128741454	
UHNhscpg0004725	2,30		chr13:39449544-39449600	
UHNhscpg0001772	2,30	MRO	chr18:46599738-46600546	maestro
UHNhscpg0010786	2,30			
UHNhscpg0008056	2,30	MCHR2	chr6:100542634-100542762	G protein-coupled receptor 145
UHNhscpg0010937	2,30		chr10:83435324-83435379	
UHNhscpg0002703	2,30		chr6:26829521-26829956	
UHNhscpg0000195	2,30		chr5:137397182-137397404	
UHNhscpg0008054	2,29	TEX10	chr9:102122018-102122200	testis expressed sequence 10
UHNhscpg0000059	2,29		chr8:101989649-101990540	
UHNhscpg0010655	2,29	C6orf117	chr6:84799819-84800528	hypothetical protein LOC112609
UHNhscpg0006546	2,29		chr7:152552683-152552869	
UHNhscpg0010861	2,29		chr9:95968542-95969465	
UHNhscpg0011634	2,28			

UHNhscpg0002228	2,28	VENTX	chr10:134904612-134905235	VENT homeobox
UHNhscpg0011200	2,28	NAG	chr2:15618596-15618987	NAG protein (Fragment).
UHNhscpg0003269	2,27	FAM91A1	chr8:124849276-124850642	hypothetical protein
UHNhscpg0001574	2,27	SF3B5	chr6:144458001-144458742	SF3b10
UHNhscpg0004368	2,27	RECK	chr9:36044108-36044340	RECK protein precursor
UHNhscpg0006502	2,27	FLJ30990	chr2:178124978-178126092	FLJ30990 protein
UHNhscpg0010885	2,27		chr18:72335455-72335599	
UHNhscpg0002658	2,27		chr19:21480208-21480792	
UHNhscpg0003358	2,27		chr15:49721921-49721967	
UHNhscpg0008609	2,26		chr5:3660002-3660279	
UHNhscpg0000436	2,26	OSR1	chr2:19420416-19421257	odd-skipped related 1
UHNhscpg0000393	2,26	PPIL5	chr14:49136093-49136781	peptidylprolyl isomerase (cyclophilin)-like 5
UHNhscpg0005524	2,26		chr1:227157785-227157917	
UHNhscpg0001554	2,25	SMPDL3A	chr6:123151628-123152958	acid sphingomyelinase-like phosphodiesterase 3A
UHNhscpg0002607	2,25	SELI	chr2:26422939-26423296	SELI protein (Hypothetical protein tmp_locus_24)
UHNhscpg0001145	2,25		chr19:9378991-9379278	
UHNhscpg0009441	2,25		chr1:165950934-165951062	
UHNhscpg0007013	2,24		chr16:33871370-33871643	
UHNhscpg0010303	2,23		chr8:83029117-83029247	
UHNhscpg0006243	2,23			
UHNhscpg0010555	2,23		chr3:180742087-180742275	
UHNhscpg0002047	2,22	MRPL27	chr17:45805214-45805905	mitochondrial ribosomal protein L27 isoform a
UHNhscpg0004982	2,22		chr11:15628768-15629035	
UHNhscpg0009758	2,21			
UHNhscpg0005361	2,20	TUBGCP3	chr13:112250222-112250249	tubulin,gamma complex associated protein 3
UHNhscpg0004974	2,20		chr2:127446031-127446536	
UHNhscpg0004219	2,20	PUS3	chr11:125278114-125278609	pseudouridylate synthase 3
UHNhscpg0009750	2,20	ZNF575	chr19:48729225-48729833	zinc finger protein 575
UHNhscpg0000178	2,20	RAB6C	chr2:131837470-131838248	RAB6C,member RAS oncogene family
UHNhscpg0005612	2,20			

UHNhscpg0002317	2,20			
UHNhscpg0009676	2,20			
UHNhscpg0007270	2,20	AAA1	chr7:34395585-34396352	AAA1 protein isoform V
UHNhscpg0008386	2,20		chr6:1500176-1500734	
UHNhscpg0010631	2,20		chr3:90347729-90347827	
UHNhscpg0011533	2,20		chr1:42701938-42702253	
UHNhscpg0010900	2,20		chr19:5450231-5450540	
UHNhscpg0000572	2,20		chr20:55128160-55128699	
UHNhscpg0006285	2,20		chr2:31658846-31659716	
UHNhscpg0008956	2,20	ALX4	chr11:44282959-44283190	aristaless-like homeobox 4
UHNhscpg0011887	2,20		chr15:27331716-27331796	
UHNhscpg0011074	2,20		chr7:39955059-39955111	
UHNhscpg0005023	2,20			
UHNhscpg0001175	2,20			
UHNhscpg0000762	2,20	SLC25A15	chr13:40281435-40281946	solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15
UHNhscpg0002975	2,20		chr12:39869705-39869992	
UHNhscpg0002219	2,19		chr14:41054530-41054940	
UHNhscpg0000084	2,19	ZBED4	chr22:48659822-48660535	zinc finger, BED domain containing 4
UHNhscpg0004758	2,19		chr12:52046529-52046814	
UHNhscpg0002264	2,19	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0000920	2,19	RBM21	chr11:62115234-62115803	Hypothetical protein FLJ22267
UHNhscpg0006294	2,19			
UHNhscpg0005324	2,18			
UHNhscpg0004133	2,18		chr1:37556494-37556698	
UHNhscpg0005236	2,18		chr11:71669983-71670172	
UHNhscpg0000027	2,17			
UHNhscpg0008557	2,17	DQ335455	chr10:239933-240068	Adenovirus 5 E1A binding protein(BS69)
UHNhscpg0006591	2,17		chr8:115283071-115283345	
UHNhscpg0003046	2,17		chr8:65446051-65446771	

UHNhscpg0000732	2,17	HBLD2	chr9:88086317-88086769	OTTHUMP00000021591
UHNhscpg0007765	2,17		chr12:39883242-39883279	
UHNhscpg0000364	2,17	TES	chr7:115637345-115637985	testin isoform 1
UHNhscpg0010059	2,17			
UHNhscpg0003960	2,17	ZNF277	chr7:111725290-111725375	hypothetical protein ZNF277(Fragment)
UHNhscpg0009999	2,17	CLNS1A	chr11:77026062-77026447	chloride channel,nucleotide-sensitive,1A
UHNhscpg0001168	2,17	BC062338	chr18:40515107-40515460	hypothetical protein
UHNhscpg0003995	2,16	LRP1B	chr2:141707608-141707767	low density lipoprotein-related protein 1B
UHNhscpg0009524	2,16	ZNF548	chr19:62592800-62594161	zinc finger protein 548
UHNhscpg0000327	2,16		chr17:46300151-46300486	
UHNhscpg0005404	2,15	OPCML	chr11:132369213-132369416	opioid binding protein/cell adhesion
UHNhscpg0009773	2,15			
UHNhscpg0007003	2,15		chr12:92170510-92170617	
UHNhscpg0010355	2,15	NLGN1	chr3:174944305-174944765	neuroligin 1
UHNhscpg0002920	2,15	ALDH7A1	chr5:125958441-125959305	antiquitin
UHNhscpg0009110	2,15			
UHNhscpg0001811	2,15			
UHNhscpg0001358	2,15		chr11:125657286-125657862	
UHNhscpg0008704	2,15		chr5:3660004-3660219	
UHNhscpg0003611	2,14			
UHNhscpg0011297	2,14			
UHNhscpg0011223	2,13		chr2:176641567-176641892	
UHNhscpg0002262	2,13		chr12:113607681-113608043	
UHNhscpg0004665	2,13	GABRB3	chr15:24428201-24428427	gamma-aminobutyric acid (GABA) A receptor, beta
UHNhscpg0004646	2,12			
UHNhscpg0001267	2,12	PDCD6IP	chr3:33814676-33815039	programmed cell death 6 interacting protein
UHNhscpg0003773	2,12			
UHNhscpg0010290	2,12		chr1:53291314-53291693	
UHNhscpg0009599	2,11	SATB2	chr2:200031715-200032334	SATB family member 2
UHNhscpg0002341	2,11		chr19:63022720-63023440	

UHNhscpg0006559	2,11		chr10:89092836-89093149	
UHNhscpg0011823	2,11	PAX3	chr2:222868477-222868623	paired box gene 3 isoform PAX3e
UHNhscpg0000943	2,11	ZNF306	chr6:28431583-28432120	zinc finger protein 306
UHNhscpg0008778	2,11	MGC33648	chr5:56242004-56242323	hypothetical protein LOC133383
UHNhscpg0001370	2,11		chr8:10786733-10787294	
UHNhscpg0002354	2,11		chr7:15147111-1514939	
UHNhscpg0007622	2,10			
UHNhscpg0004918	2,10			
UHNhscpg0004175	2,10		chr5:155505252-155505502	
UHNhscpg0005386	2,10			
UHNhscpg0010250	2,10		chr21:28692127-28692382	
UHNhscpg0011042	2,10			
UHNhscpg0001810	2,10		chr15:50873800-50874397	
UHNhscpg0004212	2,10			
UHNhscpg0009308	2,10			
UHNhscpg0009490	2,10		chr6:77419275-77419456	
UHNhscpg0005341	2,10		chr2:156778673-156778819	
UHNhscpg0002411	2,10		chr14:92296905-92297488	
UHNhscpg0004264	2,10		chr12:78883623-78883719	
UHNhscpg0005823	2,10			
UHNhscpg0007247	2,10	SYMPK	chr19:51010575-51011181	symplekin
UHNhscpg0000452	2,10	FAM70B	chr13:113650943-113651734	family with sequence similarity 70,member B
UHNhscpg0010535	2,10		chr3:90347729-90347827	
UHNhscpg0004706	2,10	CYBASC3	chr11:60885379-60886402	cytochrome b,ascorbate dependent 3
UHNhscpg0001422	2,10			
UHNhscpg0003247	2,10		chr21:28422225-28422343	
UHNhscpg0000312	2,10	PRCP	chr11:82288756-82289014	prolylcarboxypeptidase isoform 2
UHNhscpg0006475	2,10		chr6:3103532-3103776	
UHNhscpg0002836	2,10	GABRB3	chr15:24567820-24568224	gamma-aminobutyric acid(GABA) A receptor,beta
UHNhscpg0005092	2,09	FARS2	chr6:5355899-5356025	phenylalanine-tRNA synthetase 2

UHNhscpg0003498	2,09			
UHNhscpg0009038	2,09			
UHNhscpg0001984	2,09		chr5:134830006-134830427	
UHNhscpg0006812	2,09		chr8:23623670-23623883	
UHNhscpg0005909	2,09		chr17:51046676-51046741	
UHNhscpg0001316	2,09		chr4:48894304-48896156	
UHNhscpg0001391	2,08		chr1:16939838-16940467	
UHNhscpg0009288	2,08			
UHNhscpg0012133	2,08			
UHNhscpg0012077	2,08			
UHNhscpg0002562	2,06	ARHGAP25	chr2:68859806-68860041	Rho GTPase activating protein 25 isoform a
UHNhscpg0002277	2,06		chr17:44187113-44188088	
UHNhscpg0008516	2,06	WSB2	chr12:116967141-116967277	WD SOCS-box protein 2
UHNhscpg0009323	2,06			
UHNhscpg0000512	2,06	CPNE4	chr3:133235954-133236396	CPNE4 protein
UHNhscpg0003292	2,06		chr21:25333978-25334173	
UHNhscpg0000302	2,06		chr10:23869407-23869694	
UHNhscpg0009302	2,06		chr14:20220295-20220767	
UHNhscpg0009905	2,06		chr17:44010903-44011074	
UHNhscpg0000268	2,05		chr13:102449401-102449594	
UHNhscpg0001836	2,05		chr17:18905950-18906318	
UHNhscpg0003072	2,05			
UHNhscpg0009251	2,05	ASTN2	chr9:118673513-118673652	astrotactin2
UHNhscpg0001550	2,05			
UHNhscpg0003605	2,05		chr7:11478948-11479132	
UHNhscpg0011890	2,05		chr5:55722308-55722424	
UHNhscpg0000999	2,05	FLJ11193	chr5:31579621-31579975	FLJ11193 protein
UHNhscpg0009887	2,05			
UHNhscpg0004023	2,05	COL5A3	chr19:9981704-9982453	collagen, type V, alpha 3 preproprotein
UHNhscpg0008312	2,04	WDR5	chr9:135991225-135991839	WD repeat domain 5

UHNhscpg0000617	2,04	ID2	chr2:8740447-8740691	inhibitor of DNA binding 2
UHNhscpg0006738	2,04	ZNF25	chr10:38304962-38305837	zinc finger protein 25
UHNhscpg0005159	2,04	BC005991	chr6:100069473-100070296	USP45 protein
UHNhscpg0004703	2,04	SATB2	chr2:200021489-200021756	SATB family member 2
UHNhscpg0003840	2,04		chr2:48192859-48193078	
UHNhscpg0010779	2,04		chr5:146453337-146453417	
UHNhscpg0007644	2,04			
UHNhscpg0004979	2,03		chr19:33588472-33588698	
UHNhscpg0004680	2,03		chr7:78921635-78921918	
UHNhscpg0002116	2,03		chr3:148623688-148624107	
UHNhscpg0002764	2,02	SORCS2	chr4:7626456-7626755	VPS10 domain receptor protein SORCS 2
UHNhscpg0004904	2,02		chr1:188802875-188803052	
UHNhscpg0000047	2,02		chr10:57058261-57058483	
UHNhscpg0007729	2,02		chr6:132255091-132255396	
UHNhscpg0010217	2,02			
UHNhscpg0009507	2,02			
UHNhscpg0003266	2,01	WDR4	chr21:43171882-43172057	WDR4 protein
UHNhscpg0010929	2,01	BC015210	chr3:63790987-63791200	MGC17310 protein
UHNhscpg0000811	2,01			
UHNhscpg0005980	2,01		chr3:77023863-77023973	
UHNhscpg0008604	2,01		chr21:28375719-28375880	
UHNhscpg0003106	2,01	ZNF195	chr11:3340254-3340294	zinc finger protein 195
UHNhscpg0002809	2,00	SAPS1	chr19:60460258-60461420	hypothetical protein FLJ44860
UHNhscpg0010866	2,00		chr2:189775694-189775790	
UHNhscpg0001892	2,00		chr6:28554732-28555011	
UHNhscpg0010445	2,00		chr20:1875274-1875325	
UHNhscpg0002404	2,00		chr1:147599439-147599539	
UHNhscpg0004656	2,00	BMP4	chr14:53492253-53492296	bone morphogenetic protein 4 preproprotein
UHNhscpg0007295	2,00		chr2:96020857-96021100	
UHNhscpg0005169	2,00			

UHNhscpg0003805	2,00		chr11:93652600-93652771	
UHNhscpg0004560	2,00	ZNF184	chr6:27555242-27555509	hypothetical protein FLJ16197
UHNhscpg0008616	2,00	WDR60	chr7:158341354-158342543	hypothetical protein LOC55112
UHNhscpg0000096	2,00			
UHNhscpg0004634	2,00	DAPK1	chr9:89302186-89303556	death-associated protein kinase 1
UHNhscpg0001107	2,00		chr1:159776239-159776690	
UHNhscpg0008893	2,00	CTNNAL1	chr9:110801834-110801932	catenin(Cadherin-associated protein),alpha-like 1
UHNhscpg0010750	2,00		chr1:113609414-113609663	
UHNhscpg0002841	2,00		chr14:92671472-92671852	
UHNhscpg0011929	2,00			
UHNhscpg0010151	2,00			
UHNhscpg0008165	2,00		chr2:206799208-206799299	
UHNhscpg0006330	2,00	KLF6	chr10:3815935-3815990	kruppel-like factor 6
UHNhscpg0004464	2,00		chr13:54088939-54089005	
UHNhscpg0011315	2,00		chr8:122384260-122384338	

Suppl. Table V: H3K4me3 alterations between active SLE and healthy control (CpG array)

2fold up

Probe ID	Fold Change	Within	Genome Location	Description
UHNhscpg0011123	15,23	TRIM70	chr17:18568493-18568718	hypothetical protein LOC147166
UHNhscpg0007741	10,20		chr2:82223389-82223462	
UHNhscpg0010571	10,06	MTAP	chr9:21957127-21957567	methylthioadenosine phosphorylase
UHNhscpg0011578	9,22		chr20:3021119-3021338	
UHNhscpg0002937	8,74		chr14:37136951-37137254	
UHNhscpg0009362	7,57			
UHNhscpg0009521	7,09		chr7:135629820-135629907	
UHNhscpg0010453	6,69		chr10:21621284-21621492	
UHNhscpg0002482	6,56		chr7:22088765-22089702	
UHNhscpg0000674	6,54		chr18:46811243-46811721	
UHNhscpg0010459	6,53			
UHNhscpg0005171	6,37	KIAA1212	chr2:55448488-55448605	KIAA1212
UHNhscpg0004952	6,17		chr15:62855175-62855414	
UHNhscpg0009436	5,94	RFX4	chr12:105503492-105503749	regulatory factor X4 isoform F
UHNhscpg0005215	5,81		chr5:147728295-147728378	
UHNhscpg0008771	5,66		chr1:212842838-212843047	
UHNhscpg0006296	5,53		chr2:147782618-147782791	
UHNhscpg0001505	5,30		chr2:302262-302387	
UHNhscpg0011496	5,15		chr6:145123791-145123846	
UHNhscpg0001158	4,96	KIAA0553	chr17:39935621-39936830	hypothetical protein LOC23131
UHNhscpg0003698	4,93	PTPN13	chr4:87904592-87904686	protein tyrosine phosphatase,non-receptor type
UHNhscpg0009227	4,92			
UHNhscpg0004443	4,91		chr3:140140372-140140754	
UHNhscpg0008517	4,88	SEC61B	chr9:101024654-101024883	Sec61 beta subunit
UHNhscpg0004075	4,76			
UHNhscpg0008561	4,71			

UHNhscpg0004372	4,70	NUP35	chr2:183697304-183697389	nucleoporin 35kDa isoform a
UHNhscpg0009150	4,64	CACNA2D1	chr7:81434575-81434692	calcium channel,voltage-dependent,alpha
UHNhscpg0006320	4,46		chr2:235860506-235861062	
UHNhscpg0003781	4,45		chr20:10455971-10456102	
UHNhscpg0012046	4,39			
UHNhscpg0002978	4,26	HPSE2	chr10:100809507-100809589	heparanase 2
UHNhscpg0000061	4,23	PTPN4	chr2:120233974-120234860	protein tyrosine phosphatase, non-receptor type
UHNhscpg0002961	4,15	QRSL1	chr6:107184320-107184857	glutaminyI-tRNA synthase
UHNhscpg0000483	4,14		chr12:50631108-50631563	
UHNhscpg0005439	4,11			
UHNhscpg0001094	4,00	SLC24A3	chr20:19621353-19621707	solute carrier family 24
UHNhscpg0009130	3,93		chr19:42434528-42434919	
UHNhscpg0004683	3,89		chr9:25482438-25482624	
UHNhscpg0002610	3,88		chr14:37136520-37136949	
UHNhscpg0005887	3,83	TRIM2	chr4:154445764-154445897	tripartite motif-containing 2
UHNhscpg0004915	3,82		chr4:8768347-8768418	
UHNhscpg0009398	3,80		chr16:33863879-33864179	
UHNhscpg0005050	3,77		chr14:36123316-36123588	
UHNhscpg0006515	3,76		chr15:81114074-81114701	
UHNhscpg0004707	3,70		chr2:55362480-55363712	
UHNhscpg0009924	3,46	CLIC4	chr1:24981609-24981714	chloride intracellular channel 4
UHNhscpg0002185	3,46		chr17:14678161-14678745	
UHNhscpg0005325	3,40	JAM2	chr21:25980859-25980957	junctional adhesion molecule 2 precursor
UHNhscpg0001178	3,39	MGC35402	chr19:58137582-58138141	hypothetical protein MGC35402
UHNhscpg0010727	3,35		chr17:66917321-66917506	
UHNhscpg0006667	3,34		chr4:109312257-109312336	
UHNhscpg0007860	3,33		chr22:48192717-48192913	
UHNhscpg0006964	3,33	NPAT	chr11:107598278-107598521	nuclear protein, ataxia-telangiectasia locus
UHNhscpg0009661	3,24		chr16:10816111-10816451	
UHNhscpg0004756	3,23			

UHNhscpg0002278	3,20		chr19:50674100-50674375	
UHNhscpg0002330	3,19			
UHNhscpg0002560	3,15	CHAC1	chr15:39032935-39033440	hypothetical protein LOC79094
UHNhscpg0008640	3,13	TRPC6	chr11:100958085-100959004	transient receptor potential cation channel
UHNhscpg0009366	3,11	CSNK1A1	chr5:148853403-148853479	HLCDGP1
UHNhscpg0012080	3,11			
UHNhscpg0010710	3,10	RAB18	chr10:27832876-27833884	RAB18, member RAS oncogene family
UHNhscpg0010654	3,09		chr1:113609418-113609661	
UHNhscpg0006272	3,07		chr11:62790737-62790854	
UHNhscpg0005029	3,06	AAA1	chr7:34395585-34396352	AAA1 protein isoform V
UHNhscpg0005062	3,05		chr2:110614375-110615220	
UHNhscpg0010052	3,05		chr17:67625505-67626555	
UHNhscpg0007019	3,02		chr6:34832184-34832756	
UHNhscpg0002288	2,98	PCDH20	chr13:60885510-60886291	hypothetical protein FLJ22218
UHNhscpg0006309	2,91			
UHNhscpg0002452	2,90	PSCD1	chr17:74229919-74230432	pleckstrin homology, Sec7 and coiled/coil
UHNhscpg0010072	2,87	ABLIM3	chr5:148500613-148501795	actin binding LIM protein family, member 3
UHNhscpg0004981	2,86		chr2:193481819-193481991	
UHNhscpg0009200	2,86			
UHNhscpg0002168	2,80	ETV1	chr7:13995319-13995759	ets variant gene 1
UHNhscpg0001204	2,79		chr20:11257478-11257784	
UHNhscpg0012183	2,76			
UHNhscpg0007256	2,76	MAP1D	chr2:172653205-172653417	methionine aminopeptidase 1D
UHNhscpg0008563	2,75	DMD	chrX:31118634-31118655	dystrophin Dp71b isoform
UHNhscpg0009361	2,75	hfl-B5	chr11:32561673-32562466	B5 receptor
UHNhscpg0005635	2,73	HOXC4	chr12:52732158-52732222	homeobox C4
UHNhscpg0009892	2,72	NXN	chr17:787837-788112	nucleoredoxin
UHNhscpg0012125	2,71			
UHNhscpg0000121	2,67		chr17:76042497-76042875	
UHNhscpg0003283	2,65		chr15:92149019-92149160	

UHNhscpg0002157	2,63		chr14:48344116-48344456	
UHNhscpg0010262	2,62		chr11:121171806-121171981	
UHNhscpg0003620	2,58	MDS1	chr3:170564164-170564390	myelodysplasia syndrome 1
UHNhscpg0011938	2,57			
UHNhscpg0004702	2,53		chr16:47869976-47870200	
UHNhscpg0001860	2,53	C1orf73	chr1:210274732-210276110	C1orf73 protein
UHNhscpg0005744	2,53		chr18:11645287-11645571	
UHNhscpg0000132	2,51		chr14:98572749-98573067	
UHNhscpg0007747	2,50		chr6:153658567-153658613	
UHNhscpg0007084	2,50		chr14:74587850-74588068	
UHNhscpg0008898	2,48		chr1:72522579-72522948	
UHNhscpg0009186	2,46	BC014919	chr11:8666760-8666930	MGC10850 protein
UHNhscpg0011985	2,44			
UHNhscpg0001082	2,41	MGC2654	chr16:8623667-8623982	hypothetical protein LOC79091
UHNhscpg0002165	2,41		chr20:38753133-38753609	
UHNhscpg0000966	2,40	C14orf2	chr14:103457340-103457908	6.8 kDa mitochondrial proteolipid.
UHNhscpg0004987	2,36	PGEA1	chr22:37382301-37383083	PKD2 interactor,golgi and endoplasmic reticulum
UHNhscpg0000201	2,35			
UHNhscpg0005725	2,33		chr4:90793925-90794054	
UHNhscpg0006136	2,29		chr12:68575679-68575906	
UHNhscpg0008340	2,27	COPS4	chr4:84175017-84175531	COP9 signalosome subunit 4
UHNhscpg0001491	2,26	MLSTD1	chr12:29193098-29193925	hypothetical protein FLJ10462
UHNhscpg0012120	2,25			
UHNhscpg0008079	2,24			
UHNhscpg0000044	2,24	CARS	chr11:3034119-3035473	hypothetical protein FLJ16116
UHNhscpg0009076	2,23	SLC6A6	chr3:14456120-14456655	solute carrier family 6 (neurotransmitter
UHNhscpg0002393	2,23		chr14:101258396-101258872	
UHNhscpg0001126	2,21		chr16:3178116-3178355	
UHNhscpg0003458	2,20		chr4:37422099-37422200	
UHNhscpg0004755	2,20			

UHNhscpg0004493	2,17	RYR3	chr15:31497577-31497893	ryanodine receptor 3
UHNhscpg0000081	2,16	LACTB2	chr8:71743478-71744294	lactamase, beta 2
UHNhscpg0003045	2,14	C1orf126	chr1:15351420-15352210	hypothetical protein LOC200197
UHNhscpg0007303	2,13		chr20:11421415-11421585	
UHNhscpg0009037	2,12		chr15:39310523-39310558	
UHNhscpg0000123	2,12			
UHNhscpg0002103	2,11	SMPDL3A	chr6:123151621-123152958	acid sphingomyelinase-like phosphodiesterase 3A
UHNhscpg0008458	2,10	DYSF	chr2:71621293-71621439	dysferlin
UHNhscpg0008385	2,10			
UHNhscpg0001049	2,08	ASTN2	chr9:118445889-118446269	astrotactin 2 isoform d
UHNhscpg0003923	2,08	PAX3	chr2:222868477-222868623	paired box gene 3 isoform PAX3e
UHNhscpg0009225	2,08			
UHNhscpg0002098	2,06		chr3:191456691-191456934	
UHNhscpg0009911	2,05		chr12:44407182-44407386	
UHNhscpg0005070	2,05		chr15:61934020-61934130	
UHNhscpg0009782	2,01	TANC1	chr2:159752892-159752977	TPR domain ankyrin-repeat
UHNhscpg0010826	2,01	ZNF704	chr8:81761935-81762442	zinc finger protein 704
UHNhscpg0001493	2,00		chrY:12119134-12187549	
UHNhscpg0001447	2,00	BC062338	chr18:40515107-40515460	hypothetical protein
UHNhscpg0011173	2,00	WDR5	chr9:135990906-135991845	WD repeat domain 5
UHNhscpg0011444	2,00	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2

Suppl. Table VI: H3K4me3 alterations between inactive SLE and healthy control (CpG array)

2fold down

Probe ID	Fold Change	Within	Genome Location	Description
UHNhscpg0008778	0,49	MGC33648	chr5:56242004-56242323	hypothetical protein LOC133383
UHNhscpg0010853	0,49		chr2:3739255-3739349	
UHNhscpg0004646	0,49			
UHNhscpg0009676	0,49			
UHNhscpg0011977	0,49	CTNNAL1		catenin (Cadherin-associated protein),alpha-like 1
UHNhscpg0008893	0,49		chr9:110801834-110801932	
UHNhscpg0001370	0,49		chr8:10786733-10787294	
UHNhscpg0009016	0,49		chr17:70554105-70554272	
UHNhscpg0003995	0,49	ATP5H	chr17:70554105-70554272	ATP synthase, H+ transporting, mitochondrial F0
UHNhscpg0003266	0,49	LRP1B	chr2:141707608-141707767	low density lipoprotein-related protein 1B
UHNhscpg0004974	0,49	WDR4	chr21:43171882-43172057	WDR4 protein
UHNhscpg0007295	0,49		chr2:127446031-127446536	
UHNhscpg0004462	0,48		chr2:96020857-96021100	
UHNhscpg0008054	0,48		chr2:64329394-64329559	
UHNhscpg0012077	0,48	TEX10	chr9:102122018-102122200	testis expressed sequence 10
UHNhscpg0002116	0,48		chr3:148623688-148624107	
UHNhscpg0005159	0,48		chr6:100069473-100070296	
UHNhscpg0010885	0,48		chr18:72335455-72335599	
UHNhscpg0000617	0,48	BC005991	chr2:8740447-8740691	USP45 protein
UHNhscpg0009246	0,48	ID2	chr2:8740447-8740691	inhibitor of DNA binding 2
UHNhscpg0004321	0,48	RAB6IP2	chr12:1049465-1049586	RAB6-interacting protein 2 isoform epsilon
UHNhscpg0009750	0,47	ZNF575	chr19:48729225-48729833	zinc finger protein 575
UHNhscpg0000063	0,47		chr3:72584222-72584350	
UHNhscpg0004039	0,47		chr14:74587850-74588066	
UHNhscpg0004979	0,47		chr19:33588472-33588698	
UHNhscpg0000999	0,47	FLJ11193	chr5:31579621-31579975	FLJ11193 protein

UHNhscpg0009999	0,47	CLNS1A	chr11:77026062-77026447	chloride channel, nucleotide-sensitive, 1A
UHNhscpg0007297	0,47			
UHNhscpg0002764	0,46	SORCS2	chr4:7626456-7626755	VPS10 domain receptor protein SORCS 2
UHNhscpg0010535	0,46		chr3:90347729-90347827	
UHNhscpg0011574	0,46		chr11:128601903-128602132	
UHNhscpg0000268	0,46		chr13:102449401-102449594	
UHNhscpg0000393	0,46	PPIL5	chr14:49136093-49136781	peptidylprolyl isomerase (cyclophilin)-like 5
UHNhscpg0000242	0,46	PJA2	chr5:108772768-108774097	praja 2, RING-H2 motif containing
UHNhscpg0002411	0,46		chr14:92296905-92297488	
UHNhscpg0009952	0,46		chr4:189722929-189723144	
UHNhscpg0008604	0,46		chr21:28375719-28375880	
UHNhscpg0008082	0,46		chr16:22523313-22523360	
UHNhscpg0008165	0,46		chr2:206799208-206799299	
UHNhscpg0002798	0,46		chr1:13332389-13333047	
UHNhscpg0003150	0,46		chr5:163947645-163947694	
UHNhscpg0010672	0,46	C20orf112	chr20:30534095-30534617	hypothetical protein LOC140688
UHNhscpg0000920	0,45	RBM21	chr11:62115234-62115803	hypothetical protein FLJ22267
UHNhscpg0008312	0,45	WDR5	chr9:135991225-135991839	WD repeat domain 5
UHNhscpg0011315	0,45		chr8:122384260-122384338	
UHNhscpg0003251	0,45		chr7:126699400-126699594	
UHNhscpg0000364	0,45	TES	chr7:115637345-115637985	testin isoform 1
UHNhscpg0001836	0,45		chr17:18905950-18906318	
UHNhscpg0011038	0,45		chr2:176585836-176585889	
UHNhscpg0003086	0,45			
UHNhscpg0002920	0,45	ALDH7A1	chr5:125958441-125959305	antiquitin
UHNhscpg0010933	0,44	FLJ46536	chr2:218619572-218619741	hypothetical protein LOC285180
UHNhscpg0001425	0,44		chr1:242147549-242147790	
UHNhscpg0010900	0,44		chr19:5450231-5450540	
UHNhscpg0005303	0,44		chr10:86672551-86672764	
UHNhscpg0000082	0,44	ABCB1	chr7:87094679-87095354	ATP-binding cassette sub-family B member 1

UHNhscpg0007270	0,44	AAA1	chr7:34395585-34396352	AAA1 protein isoform V
UHNhscpg0010772	0,44	ACYP2	chr2:54250449-54250542	muscle-type acylphosphatase 2
UHNhscpg0008656	0,44		chr1:115382669-115382841	
UHNhscpg0000762	0,44	SLC25A15	chr13:40281435-40281946	solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15
UHNhscpg0002409	0,44		chrX:128740663-128741454	
UHNhscpg0006243	0,43			
UHNhscpg0006502	0,43	FLJ30990	chr2:178124978-178126092	FLJ30990 protein
UHNhscpg0003358	0,43		chr15:49721921-49721967	
UHNhscpg0000148	0,43	METT10D	chr17:2361322-2361754	MGC3329 protein
UHNhscpg0009155	0,43			
UHNhscpg0001145	0,43		chr19:9378991-9379278	
UHNhscpg0001422	0,43			
UHNhscpg0004982	0,43		chr11:15628768-15629035	
UHNhscpg0000255	0,43			
UHNhscpg0008056	0,43	MCHR2	chr6:100542634-100542762	G protein-coupled receptor 145
UHNhscpg0002264	0,42	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0000112	0,42		chr11:94604983-94605396	
UHNhscpg0001490	0,42		chr6:170596507-170596765	
UHNhscpg0010998	0,42	LPHN3	chr4:62331048-62331197	latrophilin 3 precursor
UHNhscpg0001446	0,42	C9orf111	chr9:139550912-139551440	OTTHUMP000000022702.
UHNhscpg0006566	0,42			
UHNhscpg0008956	0,42	ALX4	chr11:44282959-44283190	aristaless-like homeobox 4
UHNhscpg0009905	0,42		chr17:44010903-44011074	
UHNhscpg0010445	0,42		chr20:1875274-1875325	
UHNhscpg0005823	0,42			
UHNhscpg0011634	0,42			
UHNhscpg0001287	0,42		chr7:131201936-131202066	
UHNhscpg0008692	0,42	LACE1	chr6:108722592-108724012	lactation elevated 1
UHNhscpg0001804	0,42		chr6:46811260-46811667	

UHNhscpg0002704	0,42		chr1:13332389-13333047	
UHNhscpg0006559	0,42		chr10:89092836-89093149	
UHNhscpg0006285	0,41		chr2:31658846-31659716	
UHNhscpg0010350	0,41		chr17:18914641-18914818	
UHNhscpg0000653	0,41	BC011600	chr6:31973515-31974151	RD RNA binding protein
UHNhscpg0009526	0,41			
UHNhscpg0001892	0,41		chr6:28554732-28555011	
UHNhscpg0003200	0,41	FLJ90013	chr4:15806284-15806549	hypothetical protein LOC202018
UHNhscpg0005562	0,40		chr19:63357492-63359052	
UHNhscpg0004739	0,40		chr3:62335094-62335726	
UHNhscpg0006678	0,40			
UHNhscpg0000386	0,40	ATP6V1C1	chr8:104102088-104102863	ATPase,H+ transporting,lysosomal 42kDa,V1
UHNhscpg0000512	0,40	CPNE4	chr3:133235954-133236396	CPNE4 protein
UHNhscpg0002478	0,40		chr5:78103272-78103822	
UHNhscpg0001181	0,40	ZNF225	chr19:49308929-49309510	zinc finger protein 225
UHNhscpg0004871	0,40	IFT74	chr9:26946099-26946466	coiled-coil domain containing 2
UHNhscpg0005860	0,40			
UHNhscpg0007437	0,40	FLJ34870	chr2:133966210-133966637	hypothetical protein LOC401013
UHNhscpg0005386	0,40			
UHNhscpg0010173	0,40		chr22:33577072-33577147	
UHNhscpg0011094	0,40	LPHN3	chr4:62331048-62331197	latrophilin 3 precursor
UHNhscpg0010631	0,39		chr3:90347729-90347827	
UHNhscpg0012129	0,39			
UHNhscpg0000714	0,39		chr9:86840057-86840341	
UHNhscpg0007676	0,38		chr5:180529895-180530115	
UHNhscpg0008296	0,38			
UHNhscpg0001748	0,38		chr15:82539899-82540692	
UHNhscpg0004368	0,38	RECK	chr9:36044108-36044340	RECK protein precursor
UHNhscpg0003824	0,38		chr2:107581562-107581797	
UHNhscpg0000529	0,38		chr9:86840057-86840338	

UHNhscpg0001372	0,38	DDX1	chr2:15649013-15649865	DEAD (Asp-Glu-Ala-Asp) box polypeptide 1
UHNhscpg0002648	0,37		chr6:15862824-15863570	
UHNhscpg0004680	0,37		chr7:78921635-78921918	
UHNhscpg0001251	0,37	PISD	chr22:30387570-30388248	phosphatidylserine decarboxylase
UHNhscpg0001687	0,37		chr5:122450828-122451251	
UHNhscpg0004023	0,37	COL5A3	chr19:9981704-9982453	collagen, type V, alpha 3 preproprotein
UHNhscpg0010748	0,37		chr10:37117088-37117254	
UHNhscpg0003429	0,37	MCTP1	chr5:94112102-94112187	hypothetical protein FLJ22344
UHNhscpg0009599	0,37	SATB2	chr2:200031715-200032334	SATB family member 2
UHNhscpg0011887	0,37		chr15:27331716-27331796	
UHNhscpg0003269	0,36	FAM91A1	chr8:124849276-124850642	hypothetical protein
UHNhscpg0008784	0,36			
UHNhscpg0010397	0,36			
UHNhscpg0009161	0,36		chr12:30889855-30890052	
UHNhscpg0005324	0,36			
UHNhscpg0002703	0,36		chr6:26829521-26829956	
UHNhscpg0009106	0,36		chr12:52675318-52675483	
UHNhscpg0000070	0,36		chr12:47739460-47740924	
UHNhscpg0003749	0,36		chr5:139760854-139761285	
UHNhscpg0007013	0,36		chr16:33871370-33871643	
UHNhscpg0011823	0,35	PAX3	chr2:222868477-222868623	paired box gene 3 isoform PAX3e
UHNhscpg0001646	0,35	SMPDL3A	chr6:123151621-123152958	acid sphingomyelinase-like phosphodiesterase 3A
UHNhscpg0007975	0,35		chr2:52664101-52664176	
UHNhscpg0005023	0,35			
UHNhscpg0000116	0,35	ERG	chr21:38886792-38887152	P55 (Fragment)
UHNhscpg0000305	0,35		chr16:10943883-10944164	
UHNhscpg0007382	0,35	CYP1B1	chr2:38154097-38154591	cytochrome P450, family 1, subfamily B
UHNhscpg0002262	0,35		chr12:113607681-113608043	
UHNhscpg0009441	0,35		chr1:165950934-165951062	
UHNhscpg0006898	0,34		chr1:194106703-194106769	

UHNhscpg0005112	0,34	KIAA0241	chr7:32911549-32911779	KIAA0241 protein
UHNhscpg0010655	0,34	C6orf117	chr6:84799819-84800528	hypothetical protein LOC112609
UHNhscpg0005805	0,34		chr3:185428947-185430417	
UHNhscpg0004036	0,34		chr10:62645195-62645416	
UHNhscpg0003296	0,34		chr15:60469319-60470398	
UHNhscpg0001525	0,34		chr6:147220085-147220782	
UHNhscpg0007357	0,34	TMSB10	chr2:84986322-84986645	thymosin,beta 10
UHNhscpg0008806	0,34		chr2:108296693-108296998	
UHNhscpg0003194	0,34	KIAA1414	chr2:37157706-37157779	hypothetical protein LOC54497
UHNhscpg0003273	0,34	PRDM4	chr12:106678144-106678410	PR domain containing 4
UHNhscpg0005361	0,34	TUBGCP3	chr13:112250222-112250249	tubulin,gamma complex associated protein 3
UHNhscpg0002631	0,34	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0008038	0,33			
UHNhscpg0010386	0,33		chr1:53291317-53291693	
UHNhscpg0007729	0,33		chr6:132255091-132255396	
UHNhscpg0005856	0,33			
UHNhscpg0005980	0,33		chr3:77023863-77023973	
UHNhscpg0006690	0,33			
UHNhscpg0008386	0,33		chr6:1500176-1500734	
UHNhscpg0010517	0,33	NMNAT2	chr1:181653529-181653673	nicotinamide mononucleotide adenylyltransferase
UHNhscpg0000745	0,33		chr18:32114987-32115360	
UHNhscpg0002277	0,32		chr17:44187113-44188088	
UHNhscpg0011179	0,32		chr7:54225797-54226068	
UHNhscpg0004264	0,32		chr12:78883623-78883719	
UHNhscpg0006223	0,32	PTCHD1	chrX:23263126-23263259	PTCHD1 protein
UHNhscpg0006557	0,32	KCNQ3	chr8:133549563-133549849	potassium voltage-gated channel KQT-like protein
UHNhscpg0008515	0,32	GALNT13	chr2:154892928-154892960	UDP-N-acetyl-alpha-D-galactosamine:polypeptide
UHNhscpg0000152	0,32			
UHNhscpg0005333	0,32	PTPN22	chr1:114201225-114201328	protein tyrosine phosphatase,non-receptor type
UHNhscpg0000087	0,32	AKT1S1	chr19:55071649-55072029	AKT1S1 protein

UHNhscpg0005615	0,32	CTDSPL2	chr15:42532610-42532830	CTD(carboxy-terminal domain, RNA polymerase II
UHNhscpg0010687	0,32			
UHNhscpg0007247	0,31	SYMPK	chr19:51010575-51011181	sympleskin
UHNhscpg0003840	0,31		chr2:48192859-48193078	
UHNhscpg0003041	0,31		chr12:90534102-90534189	
UHNhscpg0009323	0,31			
UHNhscpg0007745	0,31		chr11:129993992-129994221	
UHNhscpg0009673	0,31		chr22:39724994-39725187	
UHNhscpg0010406	0,31	CPLX4	chr18:55126773-55127248	complexin 4
UHNhscpg0011252	0,31		chr18:2690634-2690695	
UHNhscpg0001252	0,30	DUSP10	chr1:219980942-219981545	dual specificity phosphatase 10 isoform a
UHNhscpg0004899	0,30	HNT	chr11:131648058-131648308	neurotrimin precursor (hNT)
UHNhscpg0000976	0,30			
UHNhscpg0000200	0,30	CASC3	chr17:35549758-35551054	cancer susceptibility candidate 3
UHNhscpg0009191	0,30		chr3:83699411-83699648	
UHNhscpg0011515	0,30		chr3:6291504-6291563	
UHNhscpg0010866	0,30		chr2:189775694-189775790	
UHNhscpg0000505	0,30		chr19:60790323-60790955	
UHNhscpg0002982	0,29	C6orf182	chr6:109523301-109523954	C6orf182 protein
UHNhscpg0004042	0,29		chr1:222117016-222117194	
UHNhscpg0003517	0,29		chr2:242433723-242434051	
UHNhscpg0005125	0,29		chr21:38988222-38988383	
UHNhscpg0003182	0,29	LEMD3	chr12:63850471-63850719	LEM domain containing 3
UHNhscpg0005776	0,29	ABL1	chr9:132728826-132729034	v-abl Abelson murine leukemia viral oncogene
UHNhscpg0006307	0,29	HPSE2	chr10:100983740-100984257	heparanase 2
UHNhscpg0000059	0,29		chr8:101989649-101990540	
UHNhscpg0004523	0,29	CR601508	chr6:52869898-52870070	OTTHUMP00000016614
UHNhscpg0010659	0,29			
UHNhscpg0005088	0,29	OTOF	chr2:26553759-26554684	otoferlin isoform b
UHNhscpg0002247	0,29	BCL7C	chr16:30793510-30794254	B-cell CLL/lymphoma 7C

UHNhscpg0004938	0,29	ADD2	chr2:70848619-70848803	adducin 2 isoform c
UHNhscpg0005249	0,29	RAP2B	chr3:154363142-154363997	RAP2B,member of RAS oncogene family
UHNhscpg0000732	0,28	HBLD2	chr9:88086317-88086769	OTTHUMP000000021591.
UHNhscpg0010064	0,28		chr6:24829776-24830117	
UHNhscpg0010367	0,28	BC107850	chr17:40934538-40934738	hypothetical protein
UHNhscpg0006093	0,28		chr13:83957345-83957623	
UHNhscpg0010741	0,28	FLJ46536	chr2:218619572-218619741	hypothetical protein LOC285180
UHNhscpg0000595	0,28	AK092445	chr5:115324984-115325846	hypothetical protein FLJ35126
UHNhscpg0009990	0,28		chr7:43932064-43932260	
UHNhscpg0012185	0,28			
UHNhscpg0009045	0,28		chr2:32244088-32244142	
UHNhscpg0000097	0,27	PCGF2	chr17:34156713-34157726	ring finger protein 110
UHNhscpg0002404	0,27		chr1:147599439-147599539	
UHNhscpg0009535	0,27		chr3:41605367-41605483	
UHNhscpg0001622	0,27	RBM33	chr7:155249039-155249626	hypothetical protein LOC155435
UHNhscpg0001592	0,27		chr4:98409625-98410094	
UHNhscpg0008845	0,27	CTNNAL1	chr9:110801836-110801926	Catenin (Cadherin-associated protein), alpha-like 1.
UHNhscpg0004904	0,27		chr1:188802875-188803052	
UHNhscpg0005938	0,27		chr2:139709055-139709161	
UHNhscpg0001391	0,27		chr1:16939838-16940467	
UHNhscpg0001496	0,27	TLE1	chr9:83397625-83398180	transducin-like enhancer protein 1
UHNhscpg0001574	0,27	SF3B5	chr6:144458001-144458742	SF3b10
UHNhscpg0003676	0,26	ZCSL3	chr11:31399959-31400030	ZCSL3 protein
UHNhscpg0004001	0,26	RGS13	chr1:190890876-190891120	regulator of G-protein signalling 13
UHNhscpg0007003	0,26		chr12:92170510-92170617	
UHNhscpg0001043	0,25	ZNF222	chr19:49220645-49221654	zinc finger protein 222
UHNhscpg0004873	0,25	PPIL5	chr14:49135841-49136086	peptidylprolyl isomerase (cyclophilin)-like 5
UHNhscpg0009008	0,25		chr14:38935426-38935732	
UHNhscpg0009171	0,25		chr11:121252370-121252502	
UHNhscpg0003350	0,25		chrX:120080290-120080367	

UHNhscpg0011540	0,25	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0004964	0,24		chr10:65334632-65334795	
UHNhscpg0003247	0,24		chr21:28422225-28422343	
UHNhscpg0001467	0,24		chr2:119248387-119248923	
UHNhscpg0008168	0,24		chr4:24987372-24987777	
UHNhscpg0003851	0,23		chr14:26623754-26623813	
UHNhscpg0011013	0,23		chr3:82083050-82083256	
UHNhscpg0008377	0,23		chr5:119778306-119778458	
UHNhscpg0006704	0,23			
UHNhscpg0007472	0,23		chr11:37424954-37425096	
UHNhscpg0011277	0,23	DPP4	chr2:162571572-162571665	dipeptidylpeptidase IV
UHNhscpg0009926	0,22		chr18:71205607-71205792	
UHNhscpg0003960	0,22	ZNF277	chr7:111725290-111725375	hypothetical protein ZNF277 (Fragment)
UHNhscpg0010345	0,22		chr6:137331040-137331320	
UHNhscpg0000102	0,21		chr2:174916344-174917527	
UHNhscpg0001510	0,21			
UHNhscpg0004153	0,21			
UHNhscpg0001138	0,20	CR936715	chr6:74029086-74030095	chromosome 6 open reading frame 148
UHNhscpg0002235	0,20			
UHNhscpg0004865	0,20		chr7:9370948-9371107	
UHNhscpg0007058	0,20		chr20:48844534-48844707	
UHNhscpg0003793	0,19		chr1:53165225-53165473	
UHNhscpg0007653	0,19		chr6:1367884-1367992	
UHNhscpg0011929	0,19			
UHNhscpg0010250	0,19		chr21:28692127-28692382	
UHNhscpg0010650	0,19			
UHNhscpg0001028	0,18		chr16:17572562-17573145	
UHNhscpg0011533	0,18		chr1:42701938-42702253	
UHNhscpg0009187	0,18		chr16:3147452-3148184	
UHNhscpg0011777	0,18		chr3:147995804-147995964	

UHNhscpg0000607	0,17	PVRL3	chr3:112274059-112274383	PVRL3 protein
UHNhscpg0005667	0,17	MCART1	chr9:37893307-37894608	mitochondrial carrier triple repeat 1
UHNhscpg0009014	0,17	EIF3S5	chr11:7965149-7965860	eukaryotic translation initiation factor 3
UHNhscpg0010773	0,17		chr14:26354647-26355078	
UHNhscpg0010839	0,16		chr9:85424906-85425099	
UHNhscpg0001998	0,15	WRB	chr21:39673997-39674585	tryptophan rich basic protein
UHNhscpg0001229	0,15	HSPBP1	chr19:60482958-60483290	hsp70-interacting protein
UHNhscpg0004634	0,14	DAPK1	chr9:89302186-89303556	death-associated protein kinase 1
UHNhscpg0009887	0,14			
UHNhscpg0000178	0,14	RAB6C	chr2:131837470-131838248	RAB6C,member RAS oncogene family
UHNhscpg0000027	0,13			
UHNhscpg0007304	0,11		chr1:26892150-26892406	
UHNhscpg0009524	0,09	ZNF548	chr19:62592800-62594161	zinc finger protein 548
UHNhscpg0008616	0,09	WDR60	chr7:158341354-158342543	hypothetical protein LOC55112
UHNhscpg0000041	0,09			
UHNhscpg0003442	0,05	TRPM2	chr21:44619534-44619975	transient receptor potential cation channel, subfamily M,member 2,striatum short form (SSF-TRPM2)

Suppl. Table VII: H3K4me3 alterations between active and inactive SLE (CpG array)

2fold up

Probe ID	Fold Change	Within	Genome Location	Description
UHNhscpg0003923	7,14	PAX3	chr2:222868477-222868623	paired box gene 3 isoform PAX3e
UHNhscpg0009186	7,06	BC014919	chr11:8666760-8666930	MGC10850 protein
UHNhscpg0002369	6,69		chr12:102489048-102489597	
UHNhscpg0008385	6,53			
UHNhscpg0004707	6,47		chr2:55362480-55363712	
UHNhscpg0010453	6,02		chr10:21621284-21621492	
UHNhscpg0004702	5,89		chr16:47869976-47870200	
UHNhscpg0009361	5,83	hfl-B5	chr11:32561673-32562466	B5 receptor
UHNhscpg0002330	5,83			
UHNhscpg0012120	5,75			
UHNhscpg0012125	5,70			
UHNhscpg0002922	5,28	AOAH	chr7:36663261-36663977	acyloxyacyl hydrolase precursor
UHNhscpg0002278	5,11		chr19:50674100-50674375	
UHNhscpg0009362	5,05			
UHNhscpg0000061	4,95	PTPN4	chr2:120233974-120234860	protein tyrosine phosphatase, non-receptor type
UHNhscpg0011496	4,81		chr6:145123791-145123846	
UHNhscpg0001295	4,80	SPAG4	chr20:33670118-33670758	sperm associated antigen 4
UHNhscpg0002674	4,67		chr2:217128250-217128776	
UHNhscpg0001505	4,60		chr2:302262-302387	
UHNhscpg0000673	4,60		chr17:22568552-22568999	
UHNhscpg0009924	4,56	CLIC4	chr1:24981609-24981714	chloride intracellular channel 4
UHNhscpg0004987	4,55	PGEA1	chr22:37382301-37383083	PKD2 interactor, golgi and endoplasmic reticulum
UHNhscpg0004952	4,45		chr15:62855175-62855414	
UHNhscpg0007239	4,37	TEK	chr9:27129874-27130022	TEK tyrosine kinase, endothelial (venous malformations, multiple cutaneous and mucosal)
UHNhscpg0006906	4,32		chr11:74120369-74120550	

UHNhscpg0004981	4,12		chr2:193481819-193481991	
UHNhscpg0009911	4,04		chr12:44407182-44407386	
UHNhscpg0002404	4,02		chr1:147599439-147599539	
UHNhscpg0001082	3,97	MGC2654	chr16:8623667-8623982	hypothetical protein LOC79091
UHNhscpg0003442	3,94	TRPM2	chr21:44619534-44619975	Transient receptor potential cation channel, subfamily M, member 2, striatum short form (SSF-TRPM2).
UHNhscpg0009227	3,87			
UHNhscpg0009436	3,71	RFX4	chr12:105503492-105503749	regulatory factor X4 isoform F
UHNhscpg0012080	3,69			
UHNhscpg0011173	3,62	WDR5	chr9:135990906-135991845	WD repeat domain 5
UHNhscpg0000041	3,61			
UHNhscpg0003674	3,59		chr2:184143799-184143878	
UHNhscpg0009398	3,55		chr16:33863879-33864179	
UHNhscpg0004899	3,53	HNT	chr11:131648058-131648308	neurotrimin precursor (hNT)
UHNhscpg0009130	3,52		chr19:42434528-42434919	
UHNhscpg0005744	3,51		chr18:11645287-11645571	
UHNhscpg0010710	3,50	RAB18	chr10:27832876-27833884	RAB18,member RAS oncogene family
UHNhscpg0004075	3,31			
UHNhscpg0001491	3,30	MLSTD1	chr12:29193098-29193925	hypothetical protein FLJ10462
UHNhscpg0008563	3,30	DMD	chrX:31118634-31118655	dystrophin Dp71b isoform
UHNhscpg0008898	3,29		chr1:72522579-72522948	
UHNhscpg0002288	3,26	PCDH20	chr13:60885510-60886291	hypothetical protein FLJ22218
UHNhscpg0003374	3,26		chr15:92149010-92149160	
UHNhscpg0010072	3,23	ABLIM3	chr5:148500613-148501795	actin binding LIM protein family, member 3
UHNhscpg0006136	3,23		chr12:68575679-68575906	
UHNhscpg0003283	3,22		chr15:92149019-92149160	
UHNhscpg0001204	3,21		chr20:11257478-11257784	
UHNhscpg0010571	3,20	MTAP	chr9:21957127-21957567	methylthioadenosine phosphorylase
UHNhscpg0003147	3,16	PTPN13	chr4:87904592-87904686	protein tyrosine phosphatase, non-receptor type
UHNhscpg0006515	3,16		chr15:81114074-81114701	

UHNhscpg0003781	3,15		chr20:10455971-10456102	
UHNhscpg0007729	3,12		chr6:132255091-132255396	
UHNhscpg0007747	3,11		chr6:153658567-153658613	
UHNhscpg0011540	3,09	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0002452	3,06	PSCD1	chr17:74229919-74230432	pleckstrin homology, Sec7 and coiled/coil
UHNhscpg0005652	3,05	RNF150	chr4:142274235-142274475	hypothetical protein FLJ27010
UHNhscpg0002978	3,02	HPSE2	chr10:100809507-100809589	heparanase 2
UHNhscpg0007860	3,01		chr22:48192717-48192913	
UHNhscpg0006296	2,97		chr2:147782618-147782791	
UHNhscpg0010933	2,97	FLJ46536	chr2:218619572-218619741	hypothetical protein LOC285180
UHNhscpg0012046	2,95			
UHNhscpg0003179	2,90		chr16:71256015-71256189	
UHNhscpg0005635	2,90	HOXC4	chr12:52732158-52732222	homeobox C4
UHNhscpg0004443	2,90		chr3:140140372-140140754	
UHNhscpg0002982	2,88	C6orf182	chr6:109523301-109523954	C6orf182 protein
UHNhscpg0002940	2,85		chr1:117949673-117949903	
UHNhscpg0008087	2,82	RAP1GDS1	chr4:99509512-99509965	RAP1GDS1 protein
UHNhscpg0002393	2,82		chr14:101258396-101258872	
UHNhscpg0009076	2,81	SLC6A6	chr3:14456120-14456655	solute carrier family 6 (neurotransmitter
UHNhscpg0002168	2,81	ETV1	chr7:13995319-13995759	ets variant gene 1
UHNhscpg0010324	2,79	FLJ13984	chr2:171910529-171910610	hypothetical protein LOC79828
UHNhscpg0002026	2,78		chr15:75499868-75500220	
UHNhscpg0002157	2,75		chr14:48344116-48344456	
UHNhscpg0006307	2,72	HPSE2	chr10:100983740-100984257	heparanase 2
UHNhscpg0005029	2,71	AAA1	chr7:34395585-34396352	AAA1 protein isoform V
UHNhscpg0000920	2,71	RBM21	chr11:62115234-62115803	hypothetical protein FLJ22267
UHNhscpg0002264	2,70	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0007446	2,68	ZHX2	chr8:123862942-123863095	zinc fingers and homeoboxes 2
UHNhscpg0005887	2,68	TRIM2	chr4:154445764-154445897	tripartite motif-containing 2
UHNhscpg0009106	2,67		chr12:52675318-52675483	

UHNhscpg0009161	2,67		chr12:30889855-30890052	
UHNhscpg0010068	2,65		chr9:32633905-32633991	
UHNhscpg0003620	2,63	MDS1	chr3:170564164-170564390	myelodysplasia syndrome 1
UHNhscpg0007776	2,63	LRPPRC	chr2:44024437-44024530	leucine-rich PPR motif-containing protein
UHNhscpg0002610	2,63		chr14:37136520-37136949	
UHNhscpg0010948	2,63	SSPN	chr12:26271310-26271364	sarcospan
UHNhscpg0009661	2,62		chr16:108161111-10816451	
UHNhscpg0003698	2,61	PTPN13	chr4:87904592-87904686	protein tyrosine phosphatase, non-receptor type
UHNhscpg0000200	2,61	CASC3	chr17:35549758-35551054	cancer susceptibility candidate 3
UHNhscpg0002185	2,61		chr17:14678161-14678745	
UHNhscpg0005125	2,60		chr21:38988222-38988383	
UHNhscpg0005050	2,58		chr14:36123316-36123588	
UHNhscpg0003851	2,56		chr14:26623754-26623813	
UHNhscpg0003200	2,56	FLJ90013	chr4:15806284-15806549	hypothetical protein LOC202018
UHNhscpg0000956	2,55		chr2:175269423-175269830	
UHNhscpg0000123	2,55			
UHNhscpg0010727	2,51		chr17:66917321-66917506	
UHNhscpg0009521	2,50		chr7:135629820-135629907	
UHNhscpg0008517	2,50	SEC61B	chr9:101024654-101024883	Sec61 beta subunit
UHNhscpg0004372	2,50	NUP35	chr2:183697304-183697389	nucleoporin 35kDa isoform a
UHNhscpg0000044	2,45	CARS	chr11:30341119-3035473	hypothetical protein FLJ16116
UHNhscpg0000714	2,45		chr9:86840057-86840341	
UHNhscpg0007256	2,43	MAP1D	chr2:172653205-172653417	methionine aminopeptidase 1D
UHNhscpg0005439	2,41			
UHNhscpg0009150	2,39	CACNA2D1	chr7:81434575-81434692	calcium channel,voltage-dependent,alpha
UHNhscpg0002961	2,37	QRSL1	chr6:107184320-107184857	glutaminyI-tRNA synthase
UHNhscpg0001673	2,36		chr6:170596509-170596903	
UHNhscpg0006309	2,35			
UHNhscpg0009892	2,35	NXN	chr17:787837-788112	nucleoredoxin
UHNhscpg0004756	2,33			

UHNhscpg0000389	2,33	IARS	chr9:94095628-94096224	isoleucine-tRNA synthetase
UHNhscpg0011890	2,32		chr5:55722308-55722424	
UHNhscpg0006667	2,31		chr4:109312257-109312336	
UHNhscpg0003410	2,27			
UHNhscpg0011371	2,26			
UHNhscpg0001168	2,25	BC062338	chr18:40515107-40515460	hypothetical protein
UHNhscpg0012013	2,24			
UHNhscpg0007019	2,23		chr6:34832184-34832756	
UHNhscpg0007745	2,22		chr11:129993992-129994221	
UHNhscpg0004755	2,21			
UHNhscpg0010738	2,21			
UHNhscpg0006689	2,19		chr5:128566967-128567058	
UHNhscpg0007303	2,19		chr20:11421415-11421585	
UHNhscpg0006964	2,18	NPAT	chr11:107598278-107598521	nuclear protein,ataxia-telangiectasia locus
UHNhscpg0010052	2,17		chr17:67625505-67626555	
UHNhscpg0002544	2,16	FNTA	chr8:43031413-43031705	farnesyltransferase,CAAX box,alpha isoform a
UHNhscpg0000761	2,15		chr15:43466690-43467020	
UHNhscpg0006272	2,15		chr11:62790737-62790854	
UHNhscpg0001178	2,14	MGC35402	chr19:58137582-58138141	hypothetical protein MGC35402
UHNhscpg0001860	2,13	C1orf73	chr1:210274732-210276110	C1orf73 protein
UHNhscpg0002103	2,13	SMPDL3A	chr6:123151621-123152958	acid sphingomyelinase-like phosphodiesterase 3A
UHNhscpg0007503	2,13	UGT3A1	chr5:36026368-36026581	hypothetical protein FLJ34658
UHNhscpg0005874	2,12		chr9:25870094-25870259	
UHNhscpg0004915	2,11		chr4:8768347-8768418	
UHNhscpg0006603	2,11			
UHNhscpg0009200	2,11			
UHNhscpg0010262	2,10		chr11:121171806-121171981	
UHNhscpg0005070	2,10		chr15:61934020-61934130	
UHNhscpg0008160	2,09	RNF157	chr17:71719590-71719725	hypothetical protein FLJ34148
UHNhscpg0008561	2,07			

UHNhscpg0009891	2,07	TXNDC	chr14:50777113-50777261	thioredoxin domain containing
UHNhscpg0002165	2,07		chr20:38753133-38753609	
UHNhscpg0000070	2,05		chr12:47739460-47740924	
UHNhscpg0000966	2,04	C14orf2	chr14:103457340-103457908	6.8 kDa mitochondrial proteolipid
UHNhscpg0011938	2,04			
UHNhscpg0008079	2,03			
UHNhscpg0001904	2,02		chrY:57231269-57231755	

Suppl. Table VIII: H3K4me3 alterations between active SLE And RA (CpG array)

2fold up

Probe ID	Fold Change	Within	Genome Location	Description
UHNhscpg0002922	7,61	AOAH	chr7:36663261-36663977	acyloxyacyl hydrolase precursor
UHNhscpg0000061	6,29	PTPN4	chr2:120233974-120234860	protein tyrosine phosphatase, non-receptor type
UHNhscpg0012046	6,23			
UHNhscpg0004707	5,91		chr2:55362480-55363712	
UHNhscpg0003620	4,87	MDS1	chr3:170564164-170564390	myelodysplasia syndrome 1
UHNhscpg0009436	4,77	RFX4	chr12:105503492-105503749	regulatory factor X4 isoform F
UHNhscpg0009361	4,77	hfl-B5	chr11:32561673-32562466	B5 receptor
UHNhscpg0010710	4,59	RAB18	chr10:27832876-27833884	RAB18,member RAS oncogene family
UHNhscpg0003410	4,53			
UHNhscpg0010068	4,44		chr9:32633905-32633991	
UHNhscpg0004443	4,30		chr3:140140372-140140754	
UHNhscpg0009362	4,15			
UHNhscpg0000081	4,09	LACTB2	chr8:71743478-71744294	lactamase,beta 2
UHNhscpg0000956	4,05		chr2:175269423-175269830	
UHNhscpg0008898	4,03		chr1:72522579-72522948	
UHNhscpg0011580	4,03			
UHNhscpg0004683	3,99		chr9:25482438-25482624	
UHNhscpg0009186	3,99	BC014919	chr11:8666760-8666930	MGC10850 protein
UHNhscpg0004899	3,98	HNT	chr11:131648058-131648308	neurotrimin precursor (hNT)
UHNhscpg0003283	3,90		chr15:92149019-92149160	
UHNhscpg0009892	3,82	NXN	chr17:787837-788112	nucleoredoxin
UHNhscpg0001168	3,79	BC062338	chr18:40515107-40515460	hypothetical protein
UHNhscpg0000673	3,79		chr17:22568552-22568999	
UHNhscpg0008087	3,76	RAP1GDS1	chr4:99509512-99509965	RAP1GDS1 protein.
UHNhscpg0002492	3,74	CENTG2	chr2:236606828-236607245	centaurin, gamma 2 isoform 1
UHNhscpg0000483	3,72		chr12:50631108-50631563	

UHNhscpg0002452	3,65	PSCD1	chr17:74229919-74230432	pleckstrin homology,Sec7 and coiled/coil
UHNhscpg0006136	3,64		chr12:68575679-68575906	
UHNhscpg0004952	3,62		chr15:62855175-62855414	
UHNhscpg0010072	3,54	ABLIM3	chr5:148500613-148501795	actin binding LIM protein family,member 3
UHNhscpg0004075	3,54			
UHNhscpg0009130	3,52		chr19:42434528-42434919	
UHNhscpg0001673	3,50		chr6:170596509-170596903	
UHNhscpg0012080	3,48			
UHNhscpg0012125	3,47			
UHNhscpg0001447	3,45	BC062338	chr18:40515107-40515460	hypothetical protein
UHNhscpg0008563	3,44	DMD	chrX:31118634-31118655	dystrophin Dp71b isoform
UHNhscpg0005029	3,38	AAA1	chr7:34395585-34396352	AAA1 protein isoform V
UHNhscpg0011496	3,37		chr6:145123791-145123846	
UHNhscpg0002975	3,37		chr12:39869705-39869992	
UHNhscpg0004981	3,26		chr2:193481819-193481991	
UHNhscpg0006272	3,26		chr11:62790737-62790854	
UHNhscpg0010459	3,24			
UHNhscpg0000123	3,23			
UHNhscpg0010654	3,20		chr1:113609418-113609661	
UHNhscpg0002369	3,19		chr12:102489048-102489597	
UHNhscpg0009911	3,17		chr12:44407182-44407386	
UHNhscpg0007239	3,17	TEK	chr9:27129874-27130022	TEK tyrosine kinase, endothelial (venous malformations, multiple cutaneous and mucosal)
UHNhscpg0003200	3,16	FLJ90013	chr4:15806284-15806549	hypothetical protein LOC202018
UHNhscpg0000800	3,16	C20orf144	chr20:31714406-31715210	hypothetical protein LOC128864
UHNhscpg0009924	3,14	CLIC4	chr1:24981609-24981714	chloride intracellular channel 4
UHNhscpg0010718	3,11	LOC552891	chr9:113463150-113464000	hypothetical protein LOC552891
UHNhscpg0000920	3,09	RBM21	chr11:62115234-62115803	hypothetical protein FLJ22267
UHNhscpg0001204	3,09		chr20:11257478-11257784	
UHNhscpg0008517	3,09	SEC61B	chr9:101024654-101024883	Sec61 beta subunit

UHNhscpg0000121	3,08		chr17:76042497-76042875	
UHNhscpg0004987	3,06	PGEA1	chr22:37382301-37383083	PKD2 interactor,golgi and endoplasmic reticulum
UHNhscpg0005293	3,00		chr1:25055302-25055491	
UHNhscpg0003674	2,93		chr2:184143799-184143878	
UHNhscpg0002393	2,93		chr14:101258396-101258872	
UHNhscpg0009037	2,93		chr15:39310523-39310558	
UHNhscpg0002288	2,92	PCDH20	chr13:60885510-60886291	hypothetical protein FLJ22218
UHNhscpg0003692	2,91			
UHNhscpg0008771	2,88		chr1:212842838-212843047	
UHNhscpg0000674	2,88		chr18:46811243-46811721	
UHNhscpg0002940	2,85		chr1:117949673-117949903	
UHNhscpg0008305	2,84			
UHNhscpg0007503	2,84	UGT3A1	chr5:36026368-36026581	hypothetical protein FLJ34658
UHNhscpg0001178	2,83	MGC35402	chr19:58137582-58138141	hypothetical protein MGC35402
UHNhscpg0005050	2,82		chr14:36123316-36123588	
UHNhscpg0006964	2,81	NPAT	chr11:107598278-107598521	nuclear protein,ataxia-telangiectasia locus
UHNhscpg0002937	2,80		chr14:37136951-37137254	
UHNhscpg0005652	2,78	RNF150	chr4:142274235-142274475	hypothetical protein FLJ27010
UHNhscpg0005874	2,74		chr9:25870094-25870259	
UHNhscpg0004755	2,74			
UHNhscpg0007860	2,74		chr22:48192717-48192913	
UHNhscpg0012013	2,73			
UHNhscpg0000505	2,71		chr19:60790323-60790955	
UHNhscpg0005744	2,70		chr18:11645287-11645571	
UHNhscpg0009150	2,70	CACNA2D1	chr7:81434575-81434692	calcium channel,voltage-dependent,alpha
UHNhscpg0005439	2,69			
UHNhscpg0003458	2,65		chr4:37422099-37422200	
UHNhscpg0006309	2,64			
UHNhscpg0004703	2,63	SATB2	chr2:200021489-200021756	SATB family member 2
UHNhscpg0005171	2,60	KIAA1212	chr2:55448488-55448605	KIAA1212

UHNhscpg0006296	2,60		chr2:147782618-147782791	
UHNhscpg0011925	2,60			
UHNhscpg0003147	2,56	PTPN13	chr4:87904592-87904686	protein tyrosine phosphatase,non-receptor type
UHNhscpg0004417	2,55		chr10:14880054-14880297	
UHNhscpg0001772	2,53	MRO	chr18:46599738-46600546	maestro
UHNhscpg0008724	2,52		chr2:2849157-2849350	
UHNhscpg0002004	2,52	MAML3	chr4:141293328-141294009	mastermind-like 3
UHNhscpg0000041	2,52			
UHNhscpg0007741	2,51		chr2:82223389-82223462	
UHNhscpg0011371	2,51			
UHNhscpg0002674	2,47		chr2:217128250-217128776	
UHNhscpg0000200	2,47	CASC3	chr17:35549758-35551054	cancer susceptibility candidate 3
UHNhscpg0002026	2,47		chr15:75499868-75500220	
UHNhscpg0010324	2,45	FLJ13984	chr2:171910529-171910610	hypothetical protein LOC79828
UHNhscpg0008340	2,45	COPS4	chr4:84175017-84175531	COP9 signalosome subunit 4
UHNhscpg0002404	2,45		chr1:147599439-147599539	
UHNhscpg0000044	2,44	CARS	chr11:3034119-3035473	ypothetical protein FLJ16116
UHNhscpg0007446	2,44	ZHX2	chr8:123862942-123863095	zinc fingers and homeoboxes 2
UHNhscpg0002610	2,44		chr14:37136520-37136949	
UHNhscpg0001082	2,42	MGC2654	chr16:8623667-8623982	hypothetical protein LOC79091
UHNhscpg0001860	2,42	C1orf73	chr1:210274732-210276110	C1orf73 protein
UHNhscpg0002185	2,42		chr17:14678161-14678745	
UHNhscpg0002631	2,41	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0000966	2,41	C14orf2	chr14:103457340-103457908	6.8 kDa mitochondrial proteolipid
UHNhscpg0002168	2,40	ETV1	chr7:13995319-13995759	ets variant gene 1
UHNhscpg0005325	2,39	JAM2	chr21:25980859-25980957	junctional adhesion molecule 2 precursor
UHNhscpg0005635	2,39	HOXC4	chr12:52732158-52732222	homeobox C4
UHNhscpg0011578	2,39		chr20:3021119-3021338	
UHNhscpg0011540	2,39	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0002978	2,37	HPSE2	chr10:100809507-100809589	heparanase 2

UHNhscpg0011930	2,36			
UHNhscpg0000843	2,36		chr4:153186077-153186612	
UHNhscpg0011123	2,35	TRIM70	chr17:18568493-18568718	hypothetical protein LOC147166
UHNhscpg0001465	2,34		chr16:44964780-44965472	
UHNhscpg0012120	2,34			
UHNhscpg0001158	2,33	KIAA0553	chr17:39935621-39936830	hypothetical protein LOC23131
UHNhscpg0009225	2,33			
UHNhscpg0003182	2,33	LEMD3	chr12:63850471-63850719	LEM domain containing 3
UHNhscpg0002982	2,33	C6orf182	chr6:109523301-109523954	C6orf182 protein
UHNhscpg0001094	2,33	SLC24A3	chr20:19621353-19621707	solute carrier family 24
UHNhscpg0007805	2,31	ACSL3	chr2:223506688-223507101	acyl-CoA synthetase long-chain family member 3
UHNhscpg0006906	2,31		chr11:74120369-74120550	
UHNhscpg0001810	2,30		chr15:50873800-50874397	
UHNhscpg0009161	2,30		chr12:30889855-30890052	
UHNhscpg0001493	2,30		chrY:12119134-12187549	
UHNhscpg0007256	2,30	MAP1D	chr2:172653205-172653417	methionine aminopeptidase 1D
UHNhscpg0000077	2,27			
UHNhscpg0006689	2,27		chr5:128566967-128567058	
UHNhscpg0005887	2,26	TRIM2	chr4:154445764-154445897	tripartite motif-containing 2
UHNhscpg0002157	2,24		chr14:48344116-48344456	
UHNhscpg0009398	2,24		chr16:33863879-33864179	
UHNhscpg0000195	2,24		chr5:137397182-137397404	
UHNhscpg0011061	2,23			
UHNhscpg0004702	2,22		chr16:47869976-47870200	
UHNhscpg0010262	2,22		chr11:121171806-121171981	
UHNhscpg0004915	2,21		chr4:8768347-8768418	
UHNhscpg0010933	2,19	FLJ46536	chr2:218619572-218619741	hypothetical protein LOC285180
UHNhscpg0002264	2,18	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0009661	2,18		chr16:10816111-10816451	
UHNhscpg0005190	2,17		chr4:180260816-180261112	

UHNhscpg0005062	2,17		chr2:110614375-110615220	
UHNhscpg0001904	2,16		chrY:57231269-57231755	
UHNhscpg0008755	2,16	C6orf64	chr6:39190384-39190867	hypothetical protein LOC55776
UHNhscpg0009657	2,16		chr7:25655866-25655926	
UHNhscpg0001295	2,15	SPAG4	chr20:33670118-33670758	sperm associated antigen 4
UHNhscpg0004372	2,14	NUP35	chr2:183697304-183697389	nucleoporin 35kDa isoform a
UHNhscpg0005725	2,14		chr4:90793925-90794054	
UHNhscpg0009076	2,13	SLC6A6	chr3:14456120-14456655	solute carrier family 6 (neurotransmitter)
UHNhscpg0002540	2,11		chr1:25380650-25380840	
UHNhscpg0003781	2,10		chr20:10455971-10456102	
UHNhscpg0001856	2,08			
UHNhscpg0003374	2,08		chr15:92149010-92149160	
UHNhscpg0005254	2,06		chr6:24118723-24118814	
UHNhscpg0002560	2,06	CHAC1	chr15:39032935-39033440	hypothetical protein LOC79094
UHNhscpg0006515	2,05		chr15:81114074-81114701	
UHNhscpg0006320	2,04		chr2:235860506-235861062	
UHNhscpg0009366	2,03	CSNK1A1	chr5:148853403-148853479	HLCDGP1
UHNhscpg0003179	2,03		chr16:71256015-71256189	
UHNhscpg0002330	2,03			
UHNhscpg0005051	2,02		chr14:36123319-36123586	
UHNhscpg0007776	2,02	LRPPRC	chr2:44024437-44024530	leucine-rich PPR motif-containing protein
UHNhscpg0000714	2,01		chr9:86840057-86840341	
UHNhscpg0000132	2,01		chr14:98572749-98573067	
UHNhscpg0000201	2,00			

Suppl. Table IX: H3K4me3 alterations between inactive SLE and RA (CpG array)

2fold up

Probe ID	Fold Change	Within	Genome Location	Description
UHNhscpg0011303	7,72		chr1:114728833-114729017	
UHNhscpg0010505	6,07		chr16:3035713-3035936	
UHNhscpg0005017	5,69		chrX:118253592-118254183	
UHNhscpg0011482	5,50		chr8:111314931-111315117	
UHNhscpg0006615	5,40	ATOH8	chr2:85834442-85834672	atonal homolog 8
UHNhscpg0001380	5,20		chr7:131201936-131202070	
UHNhscpg0010529	5,18	LGI2	chr4:24625819-24625958	leucine-rich repeat LGI family,member 2
UHNhscpg0002492	4,93	CENTG2	chr2:236606828-236607245	centaurin,gamma 2 isoform 1
UHNhscpg0005293	4,78		chr1:25055302-25055491	
UHNhscpg0000009	4,55	RERE	chr1:8799536-8800122	atrophin-1 like protein
UHNhscpg0000091	4,53		chr6:143308936-143309536	
UHNhscpg0005254	4,24		chr6:24118723-24118814	
UHNhscpg0010532	4,20			
UHNhscpg0000213	4,00	C6orf170	chr6:121697099-121697968	protein C6orf170
UHNhscpg0006786	3,97		chr12:84178562-84178668	
UHNhscpg0004056	3,93			
UHNhscpg0002884	3,84		chr5:180548389-180549316	
UHNhscpg0010870	3,79		chr7:75668303-75668771	
UHNhscpg0004656	3,71	BMP4	chr14:53492253-53492296	bone morphogenetic protein 4 preproprotein
UHNhscpg0003096	3,69			
UHNhscpg0005180	3,65		chr12:126878177-126878285	
UHNhscpg0004786	3,59		chr14:64173213-64173530	
UHNhscpg0006286	3,53		chr5:18182804-18182902	
UHNhscpg0003152	3,52		chr4:28968278-28968395	
UHNhscpg0012113	3,45			
UHNhscpg0006609	3,40		chr4:13135542-13135824	

UHNhscpg0001212	3,39		chr7:125460857-125461287	
UHNhscpg0002841	3,39		chr14:92671472-92671852	
UHNhscpg0004463	3,38	HLA-E	chr6:30565074-30565372	major histocompatibility complex,class I,E
UHNhscpg0010752	3,35		chr14:84830337-84830559	
UHNhscpg0000960	3,34	FLJ90834	chr11:67130240-67131511	hypothetical protein LOC283135
UHNhscpg0002229	3,32		chr1:30553400-30553955	
UHNhscpg0011618	3,30	PCCB	chr3:137495499-137495597	propionyl Coenzyme A carboxylase,beta
UHNhscpg0004176	3,30	PGBD3	chr10:50417202-50417355	piggyBac transposable element derived 3
UHNhscpg0003823	3,27		chr2:107581551-107581797	
UHNhscpg0010646	3,27		chr7:120968307-120968421	
UHNhscpg0011162	3,19		chr14:40895764-40895941	
UHNhscpg0011423	3,18	COBL	chr7:51276218-51276348	COBL protein
UHNhscpg0010983	3,16		chr5:54551833-54552394	
UHNhscpg0003046	3,14		chr8:65446051-65446771	
UHNhscpg0010197	3,09		chr10:22553919-22554094	
UHNhscpg0001175	3,09			
UHNhscpg0000642	3,09			
UHNhscpg0001919	3,07	PTBP1	chr19:749886-750909	polypyrimidine tract-binding protein 1 isoform
UHNhscpg0002565	3,06		chr6:116998748-116999090	
UHNhscpg0000701	3,06			
UHNhscpg0000820	3,05			
UHNhscpg0004133	3,03		chr1:37556494-37556698	
UHNhscpg0008755	3,03	C6orf64	chr6:39190384-39190867	hypothetical protein LOC55776
UHNhscpg0011930	3,01			
UHNhscpg0000081	3,00	LACTB2	chr8:71743478-71744294	lactamase, beta 2
UHNhscpg0011616	2,99	SLC16A10	chr6:111633002-111633068	solute carrier family 16,member 10
UHNhscpg0011061	2,97			
UHNhscpg0005190	2,92		chr4:180260816-180261112	
UHNhscpg0002975	2,92		chr12:39869705-39869992	
UHNhscpg0003607	2,92		chr5:167220645-167221046	

UHNhscpg0007774	2,90		chrM:23-208	
UHNhscpg0006611	2,88	GRIA4	chr11:104985849-104986084	GRIA4 protein
UHNhscpg0004250	2,88	DST	chr6:56567259-56567384	dystonin isoform 1
UHNhscpg0000764	2,86		chr8:21455600-21456002	
UHNhscpg0009914	2,85		chr5:64017735-64017922	
UHNhscpg0010145	2,82			
UHNhscpg0003279	2,81	HNRPUL1	chr19:46461324-46461406	E1B-55kDa-associated protein 5 isoform d
UHNhscpg0011925	2,81			
UHNhscpg0004103	2,80		chr4:96862429-96862527	
UHNhscpg0004072	2,75	PDE7B	chr6:136416011-136416273	phosphodiesterase 7B
UHNhscpg0000858	2,73	CCDC55	chr17:25467698-25468081	hypothetical protein LOC84081 isoform 1
UHNhscpg0006500	2,72	HIST1H2BC	chr6:26231317-26231487	hypothetical protein
UHNhscpg0010126	2,72		chr11:34023042-34023476	
UHNhscpg0001164	2,72	BC034418	chr1:146095902-146096581	NBPF (Fragment)
UHNhscpg0009314	2,72		chr18:33623455-33623669	
UHNhscpg0000236	2,71		chr2:91033015-91034153	
UHNhscpg0001735	2,66	PTBP1	chr19:749886-750913	polypyrimidine tract-binding protein 1 isoform
UHNhscpg0001155	2,65		chr1:218767180-218767706	
UHNhscpg0010473	2,65			
UHNhscpg0011795	2,65	DLC1	chr8:13034245-13034705	deleted in liver cancer 1 isoform 2
UHNhscpg0011297	2,61			
UHNhscpg0001501	2,61			
UHNhscpg0010834	2,61	NELL2	chr12:43555115-43555359	nel-like 2
UHNhscpg0004417	2,59		chr10:14880054-14880297	
UHNhscpg0007129	2,59	MPP2	chr17:39340273-39340455	palmitoylated membrane protein 2
UHNhscpg0008551	2,58		chr10:30969102-30969197	
UHNhscpg0000511	2,57	PVRL3	chr3:112274059-112274383	PVRL3 protein
UHNhscpg0005411	2,57	THRAP2	chr12:115139995-115140080	thyroid hormone receptor associated protein 2
UHNhscpg0005847	2,55	ZNFN1A3	chr17:35234912-35235009	zinc finger protein,subfamily 1A,3(Aiolos)
UHNhscpg0004735	2,54	SRP68	chr17:71580068-71581324	hypothetical protein FLJ14416

UHNhscpg0010935	2,53	SHQ1	chr3:72979623-72979831	SHQ1 homolog
UHNhscpg0003657	2,53	ZNF195	chr11:3340253-3340295	zinc finger protein 195
UHNhscpg0003304	2,52			
UHNhscpg0001117	2,49	FLJ10726	chr11:111449826-111450322	FLJ10726 protein
UHNhscpg0001107	2,47		chr1:159776239-159776690	
UHNhscpg0006366	2,46		chrX:124914352-124914468	
UHNhscpg0004970	2,45		chr1:119334489-119335262	
UHNhscpg0002314	2,43	KCNAB1	chr3:157491665-157492083	potassium voltage-gated channel,shaker-related
UHNhscpg0005718	2,42			
UHNhscpg0003648	2,39		chr4:64792539-64792714	
UHNhscpg0004369	2,38		chr6:81489478-81489642	
UHNhscpg0008467	2,37			
UHNhscpg0003285	2,37	HLX1	chr1:219119456-219119595	H2.0-like homeo box 1
UHNhscpg0011286	2,37		chr11:128601903-128602132	
UHNhscpg0004466	2,36	BMP4	chr14:53492075-53492857	bone morphogenetic protein 4 preproprotein
UHNhscpg0005603	2,35	C1orf140	chr1:219573454-219573561	hypothetical protein LOC400804
UHNhscpg0005039	2,35		chr18:54823511-54823781	
UHNhscpg0002752	2,35	CEP57	chr11:95163040-95163949	translokin
UHNhscpg0003632	2,30	RP9	chr7:33114992-33115584	retinitis pigmentosa 9 protein
UHNhscpg0002601	2,29		chr14:92296905-92297488	
UHNhscpg0002631	2,29	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0004535	2,29		chr12:19062303-19062597	
UHNhscpg0011578	2,27		chr20:3021119-3021338	
UHNhscpg0011079	2,26		chr5:54551718-54552867	
UHNhscpg0004742	2,26			
UHNhscpg0008162	2,25		chr22:15245744-15245796	
UHNhscpg0000195	2,24		chr5:137397182-137397404	
UHNhscpg0005212	2,22		chr6:27264167-27264605	
UHNhscpg0009000	2,21		chr1:211934228-211934474	
UHNhscpg0007934	2,20	SFRS12	chr5:65475477-65476272	splicing factor,arginine/serine-rich 12

UHNhscpg0001876	2,19	PRR3	chr6:30638118-30638662	proline rich 3
UHNhscpg0004956	2,18		chr9:18180440-18180488	
UHNhscpg0007784	2,18	XPO7	chr8:21917232-21917561	exportin 7
UHNhscpg0009437	2,16			
UHNhscpg0010755	2,15			
UHNhscpg0004489	2,15			
UHNhscpg0006263	2,14		chr9:78376433-78376770	
UHNhscpg0003268	2,14		chr6:10529696-10530144	
UHNhscpg0007243	2,13			
UHNhscpg0000794	2,13	TNFRSF10B	chr8:22980969-22981809	tumor necrosis factor receptor superfamily
UHNhscpg0005176	2,12	AUTS2	chr7:69052469-69052558	AUTS2 protein
UHNhscpg0009335	2,12		chr16:78192330-78193161	
UHNhscpg0001211	2,12		chr9:28915181-28915619	
UHNhscpg0011721	2,10		chr14:79404261-79404357	
UHNhscpg0004543	2,09	NAALADL2	chr3:176649733-176649865	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0010743	2,09		chr9:85424906-85425099	
UHNhscpg0010654	2,09		chr1:113609418-113609661	
UHNhscpg0011627	2,08		chr10:120294244-120294380	
UHNhscpg0011144	2,07	LARS2	chr3:45415147-45415391	leucyl-tRNA synthetase 2,mitochondrial
UHNhscpg0002381	2,06		chr11:67496186-67496792	
UHNhscpg0008557	2,05	DQ335455	chr10:239933-240068	adenovirus 5 E1A binding protein (BS69)
UHNhscpg0006282	2,03	SAV1	chr14:50203675-50203889	WW45 protein
UHNhscpg0000335	2,02		chr21:33316478-33316779	

Suppl. Table X: H3K4me3 alterations between RA and healthy control (CpG array)

2fold down

Probe ID	Fold Change	Within	Genome Location	Description
UHNhscpg0010303	0,49		chr8:83029117-83029247	
UHNhscpg0006559	0,49		chr10:89092836-89093149	
UHNhscpg0006678	0,49			
UHNhscpg0005482	0,49		chr2:167684239-167684408	
UHNhscpg0001181	0,49	ZNF225	chr19:49308929-49309510	zinc finger protein 225
UHNhscpg0003793	0,49		chr1:53165225-53165473	
UHNhscpg0004665	0,49	GABRB3	chr15:24428201-24428427	gamma-aminobutyric acid (GABA) A receptor,beta
UHNhscpg0012192	0,49			
UHNhscpg0004680	0,49		chr7:78921635-78921918	
UHNhscpg0002836	0,49	GABRB3	chr15:24567820-24568224	gamma-aminobutyric acid (GABA) A receptor,beta
UHNhscpg0000653	0,49	BC011600	chr6:31973515-31974151	RD RNA binding protein
UHNhscpg0001810	0,49		chr15:50873800-50874397	
UHNhscpg0003903	0,48	ZNF510	chr9:98563586-98563861	zinc finger protein 510
UHNhscpg0000242	0,48	PJA2	chr5:108772768-108774097	praja 2,RING-H2 motif containing
UHNhscpg0000059	0,48		chr8:101989649-101990540	
UHNhscpg0002581	0,48		chr15:81825124-81825456	
UHNhscpg0010659	0,48			
UHNhscpg0009016	0,48	ATP5H	chr17:70554105-70554272	ATP synthase,H+transporting,mitochondrial F0
UHNhscpg0006566	0,48			
UHNhscpg0009199	0,48	RRAGA	chr9:19040081-19040320	Ras-related GTP binding A
UHNhscpg0003805	0,48		chr11:93652600-93652771	
UHNhscpg0003632	0,48	RP9	chr7:33114992-33115584	retinitis pigmentosa 9 protein
UHNhscpg0002354	0,48		chr7:1514711-1514939	
UHNhscpg0010397	0,47			
UHNhscpg0000195	0,47		chr5:137397182-137397404	
UHNhscpg0003358	0,47		chr15:49721921-49721967	

UHNhscpg0000714	0,47		chr9:86840057-86840341	
UHNhscpg0000087	0,47	AKT1S1	chr19:55071649-55072029	AKT1S1 protein.
UHNhscpg0001554	0,47	SMPDL3A	chr6:123151628-123152958	acid sphingomyelinase-like phosphodiesterase 3A
UHNhscpg0010866	0,47		chr2:189775694-189775790	
UHNhscpg0000063	0,47		chr3:72584222-72584350	
UHNhscpg0008893	0,46	CTNNAL1	chr9:110801834-110801932	Catenin(Cadherin-associated protein),alpha-like 1
UHNhscpg0005780	0,46		chr13:61215847-61216047	
UHNhscpg0010937	0,46		chr10:83435324-83435379	
UHNhscpg0007393	0,46		chr15:51852178-51852375	
UHNhscpg0000999	0,46	FLJ11193	chr5:31579621-31579975	FLJ11193 protein
UHNhscpg0000745	0,46		chr18:32114987-32115360	
UHNhscpg0009990	0,46		chr7:43932064-43932260	
UHNhscpg0006898	0,46		chr1:194106703-194106769	
UHNhscpg0008515	0,46	GALNT13	chr2:154892928-154892960	UDP-N-acetyl-alpha-D-galactosamine:polypeptide
UHNhscpg0010687	0,45			
UHNhscpg0008413	0,45			
UHNhscpg0001646	0,45	SMPDL3A	chr6:123151621-123152958	acid sphingomyelinase-like phosphodiesterase 3A
UHNhscpg0001107	0,45		chr1:159776239-159776690	
UHNhscpg0002404	0,45		chr1:147599439-147599539	
UHNhscpg0005293	0,45		chr1:25055302-25055491	
UHNhscpg0010839	0,45		chr9:85424906-85425099	
UHNhscpg0006591	0,45		chr8:115283071-115283345	
UHNhscpg0000268	0,45		chr13:102449401-102449594	
UHNhscpg0007644	0,44			
UHNhscpg0007013	0,44		chr16:33871370-33871643	
UHNhscpg0007357	0,44	TMSB10	chr2:84986322-84986645	thymosin,beta 10
UHNhscpg0010151	0,44			
UHNhscpg0010838	0,44		chr1:142373128-142373246	
UHNhscpg0009773	0,44			
UHNhscpg0000096	0,44			

UHNhscpg0008056	0,44	MCHR2	chr6:100542634-100542762	G protein-coupled receptor 145
UHNhscpg0004321	0,44			
UHNhscpg0005092	0,44	FARS2	chr6:5355899-5356025	phenylalanine-tRNA synthetase 2
UHNhscpg0007653	0,43		chr6:1367884-1367992	
UHNhscpg0005562	0,43		chr19:63357492-63359052	
UHNhscpg0002798	0,43		chr1:13332389-13333047	
UHNhscpg0005564	0,43	LBXCOR1	chr15:65899636-65900333	LBXCOR1 homolog (mouse)
UHNhscpg0003194	0,43	KIAA1414	chr2:37157706-37157779	hypothetical protein LOC54497
UHNhscpg0000070	0,43		chr12:47739460-47740924	
UHNhscpg0011042	0,43			
UHNhscpg0008386	0,43		chr6:1500176-1500734	
UHNhscpg0006307	0,43	HPSE2	chr10:100983740-100984257	heparanase 2
UHNhscpg0007003	0,43		chr12:92170510-92170617	
UHNhscpg0005524	0,43		chr1:227157785-227157917	
UHNhscpg0001574	0,43	SF3B5	chr6:144458001-144458742	SF3b10
UHNhscpg0010367	0,43	BC107850	chr17:40934538-40934738	Hypothetical protein.
UHNhscpg0008961	0,43	KIR3DL2	chr19:60055042-60055358	NK receptor.
UHNhscpg0010953	0,42		chr1:213588392-213588627	
UHNhscpg0001644	0,42		chr4:186173737-186174356	
UHNhscpg0010655	0,42	C6orf117	chr6:84799819-84800528	hypothetical protein LOC112609
UHNhscpg0005194	0,42	SORD	chr15:43102948-43103268	sorbitol dehydrogenase
UHNhscpg0001510	0,42			
UHNhscpg0007058	0,42		chr20:48844534-48844707	
UHNhscpg0001996	0,42		chr11:27484886-27485320	
UHNhscpg0001924	0,42	KIAA1383	chr1:231007590-231008560	KIAA1383
UHNhscpg0009161	0,42		chr12:30889855-30890052	
UHNhscpg0006557	0,42	KCNQ3	chr8:133549563-133549849	potassium voltage-gated channel KQT-like protein
UHNhscpg0001892	0,42		chr6:28554732-28555011	
UHNhscpg0001372	0,42	DDX1	chr2:15649013-15649865	DEAD(Asp-Glu-Ala-Asp)box polypeptide 1
UHNhscpg0000082	0,42	ABCB1	chr7:87094679-87095354	ATP-binding cassette sub-family B member 1

UHNhscpg0008845	0,42	CTNNAL1	chr9:110801836-110801926	catenin(Cadherin-associated protein),alpha-like 1
UHNhscpg0000393	0,42	PPIL5	chr14:49136093-49136781	peptidylprolyl isomerase (cyclophilin)-like 5
UHNhscpg0010772	0,42	ACYP2	chr2:54250449-54250542	muscle-type acylphosphatase 2
UHNhscpg0006546	0,42		chr7:152552683-152552869	
UHNhscpg0011234	0,41		chr1:47645910-47646119	
UHNhscpg0001490	0,41		chr6:170596507-170596765	
UHNhscpg0012077	0,41			
UHNhscpg0005386	0,41			
UHNhscpg0004264	0,41		chr12:78883623-78883719	
UHNhscpg0001467	0,41		chr2:119248387-119248923	
UHNhscpg0001252	0,41	DUSP10	chr1:219980942-219981545	dual specificity phosphatase 10 isoform a
UHNhscpg0000512	0,41	CPNE4	chr3:133235954-133236396	CPNE4 protein.
UHNhscpg0004368	0,41	RECK	chr9:36044108-36044340	RECK protein precursor
UHNhscpg0004904	0,41		chr1:188802875-188803052	
UHNhscpg0003611	0,41			
UHNhscpg0002703	0,41		chr6:26829521-26829956	
UHNhscpg0011547	0,41			
UHNhscpg0010707	0,41		chr5:23719013-23719161	
UHNhscpg0001446	0,41	C9orf111	chr9:139550912-139551440	OTTHUMP00000022702.
UHNhscpg0011929	0,41			
UHNhscpg0001550	0,41			
UHNhscpg0010173	0,40		chr22:33577072-33577147	
UHNhscpg0000231	0,40	NUDT2	chr9:34318659-34319984	nudix-type motif 2
UHNhscpg0003851	0,40		chr14:26623754-26623813	
UHNhscpg0008312	0,40	WDR5	chr9:135991225-135991839	WD repeat domain 5
UHNhscpg0005612	0,40			
UHNhscpg0006294	0,40			
UHNhscpg0011634	0,40			
UHNhscpg0002648	0,40		chr6:15862824-15863570	
UHNhscpg0000920	0,40	RBM21	chr11:62115234-62115803	hypothetical protein FLJ22267

UHNhscpg0010909	0,40		chrX:23622731-23622861	
UHNhscpg0003150	0,40		chr5:163947645-163947694	
UHNhscpg0002526	0,40	DKFZP564O0823	chr4:76078259-76078564	DKFZP564O0823 protein
UHNhscpg0011200	0,40	NAG	chr2:15618596-15618987	NAG protein (Fragment)
UHNhscpg0010460	0,40			
UHNhscpg0009999	0,40	CLNS1A	chr11:77026062-77026447	chloride channel,nucleotide-sensitive,1A
UHNhscpg0003086	0,40			
UHNhscpg0009676	0,40			
UHNhscpg0007270	0,40	AAA1	chr7:34395585-34396352	AAA1 protein isoform V
UHNhscpg0001145	0,40		chr19:9378991-9379278	
UHNhscpg0005088	0,39	OTOF	chr2:26553759-26554684	otoferlin isoform b
UHNhscpg0001287	0,39		chr7:131201936-131202066	
UHNhscpg0002219	0,39		chr14:41054530-41054940	
UHNhscpg0001251	0,39	PISD	chr22:30387570-30388248	phosphatidylserine decarboxylase
UHNhscpg0011252	0,39		chr18:2690634-2690695	
UHNhscpg0004219	0,39	PUS3	chr11:125278114-125278609	pseudouridylate synthase 3
UHNhscpg0011061	0,39			
UHNhscpg0006573	0,39	MYRIP	chr3:40065318-40065490	myosin VIIA and Rab interacting protein
UHNhscpg0003517	0,39		chr2:242433723-242434051	
UHNhscpg0008616	0,39	WDR60	chr7:158341354-158342543	hypothetical protein LOC55112
UHNhscpg0004865	0,39		chr7:9370948-9371107	
UHNhscpg0000529	0,39		chr9:86840057-86840338	
UHNhscpg0000368	0,39	ZNF575	chr19:48729058-48729311	zinc finger protein 575
UHNhscpg0004457	0,38		chr11:81102293-81102445	
UHNhscpg0004982	0,38		chr11:15628768-15629035	
UHNhscpg0005186	0,38		chr17:4941225-4942088	
UHNhscpg0000097	0,38	PCGF2	chr17:34156713-34157726	ring finger protein 110
UHNhscpg0010555	0,38		chr3:180742087-180742275	
UHNhscpg0007745	0,38		chr11:129993992-129994221	
UHNhscpg0010861	0,38		chr9:95968542-95969465	

UHNhscpg0002235	0,38			
UHNhscpg0000302	0,38		chr10:23869407-23869694	
UHNhscpg0002277	0,38		chr17:44187113-44188088	
UHNhscpg0004752	0,38	GJB2	chr13:19663948-19664549	gap junction protein,beta 2,26kDa(connexin)
UHNhscpg0004739	0,37		chr3:62335094-62335726	
UHNhscpg0001028	0,37		chr16:17572562-17573145	
UHNhscpg0000732	0,37	HBLD2	chr9:88086317-88086769	OTTHUMP00000021591
UHNhscpg0001422	0,37			
UHNhscpg0007382	0,37	CYP1B1	chr2:38154097-38154591	cytochrome P450,family 1,subfamily B
UHNhscpg0002982	0,36	C6orf182	chr6:109523301-109523954	C6orf182 protein
UHNhscpg0009155	0,36			
UHNhscpg0004636	0,36		chr1:94655918-94656154	
UHNhscpg0008692	0,36	LACE1	chr6:108722592-108724012	lactation elevated 1
UHNhscpg0004153	0,36			
UHNhscpg0004523	0,36	CR601508	chr6:52869898-52870070	OTTHUMP00000016614
UHNhscpg0001772	0,36	MRO	chr18:46599738-46600546	maestro
UHNhscpg0010773	0,36		chr14:26354647-26355078	
UHNhscpg0008296	0,36			
UHNhscpg0002247	0,36	BCL7C	chr16:30793510-30794254	B-cell CLL/lymphoma 7C
UHNhscpg0009750	0,36	ZNF575	chr19:48729225-48729833	zinc finger protein 575
UHNhscpg0001175	0,36			
UHNhscpg0005112	0,35	KIAA0241	chr7:32911549-32911779	KIAA0241 protein.
UHNhscpg0002704	0,35		chr1:13332389-13333047	
UHNhscpg0002975	0,35		chr12:39869705-39869992	
UHNhscpg0001391	0,35		chr1:16939838-16940467	
UHNhscpg0000701	0,35			
UHNhscpg0001804	0,35		chr6:46811260-46811667	
UHNhscpg0006704	0,35			
UHNhscpg0007295	0,35		chr2:96020857-96021100	
UHNhscpg0000595	0,35	AK092445	chr5:115324984-115325846	hypothetical protein FLJ35126

UHNhscpg0001029	0,35			
UHNhscpg0009008	0,35		chr14:38935426-38935732	
UHNhscpg0003251	0,35		chr7:126699400-126699594	
UHNhscpg0000976	0,35			
UHNhscpg0011162	0,34		chr14:40895764-40895941	
UHNhscpg0009926	0,34		chr18:71205607-71205792	
UHNhscpg0005677	0,34		chr13:86689794-86689855	
UHNhscpg0005860	0,34			
UHNhscpg0009526	0,34			
UHNhscpg0005192	0,34			
UHNhscpg0011277	0,34	DPP4	chr2:162571572-162571665	dipeptidylpeptidase IV
UHNhscpg0002478	0,34		chr5:78103272-78103822	
UHNhscpg0002485	0,34		chr15:81825124-81825456	
UHNhscpg0000006	0,33	HIGD2BP	chr15:70765263-70765993	HIG1 domain family,member 2B pseudogene
UHNhscpg0009905	0,33		chr17:44010903-44011074	
UHNhscpg0007304	0,33		chr1:26892150-26892406	
UHNhscpg0001622	0,33	RBM33	chr7:155249039-155249626	hypothetical protein LOC155435
UHNhscpg0012008	0,33			
UHNhscpg0000386	0,33	ATP6V1C1	chr8:104102088-104102863	ATPase,H+ transporting,lysosomal 42kDa,V1
UHNhscpg0008604	0,33		chr21:28375719-28375880	
UHNhscpg0003200	0,33	FLJ90013	chr4:15806284-15806549	hypothetical protein LOC202018
UHNhscpg0001168	0,33	BC062338	chr18:40515107-40515460	hypothetical protein
UHNhscpg0009191	0,33		chr3:83699411-83699648	
UHNhscpg0005303	0,33		chr10:86672551-86672764	
UHNhscpg0006911	0,33		chr4:163431210-163431273	
UHNhscpg0002262	0,33		chr12:113607681-113608043	
UHNhscpg0009524	0,32	ZNF548	chr19:62592800-62594161	zinc finger protein 548
UHNhscpg0000820	0,32			
UHNhscpg0000305	0,32		chr16:10943883-10944164	
UHNhscpg0010786	0,32			

UHNhscpg0003221	0,32	LOC84661	chr2:32117579-32118327	dpy-30-like protein
UHNhscpg0011574	0,32		chr11:128601903-128602132	
UHNhscpg0003676	0,32	ZCSL3	chr11:31399959-31400030	ZCSL3 protein
UHNhscpg0007333	0,32		chr3:28743845-28744079	
UHNhscpg0011540	0,32	NAALADL2	chr3:176491230-176491537	N-acetylated alpha-linked acidic dipeptidase 2
UHNhscpg0004042	0,32		chr1:222117016-222117194	
UHNhscpg0009171	0,32		chr11:121252370-121252502	
UHNhscpg0003692	0,32			
UHNhscpg0001592	0,32		chr4:98409625-98410094	
UHNhscpg0000200	0,31	CASC3	chr17:35549758-35551054	cancer susceptibility candidate 3
UHNhscpg0000116	0,31	ERG	chr21:38886792-38887152	P55 (Fragment)
UHNhscpg0011777	0,31		chr3:147995804-147995964	
UHNhscpg0009705	0,31		chr19:20682623-20682723	
UHNhscpg0010517	0,31	NMNAT2	chr1:181653529-181653673	nicotinamide mononucleotide adenylyltransferase
UHNhscpg0005249	0,31	RAP2B	chr3:154363142-154363997	RAP2B,member of RAS oncogene family
UHNhscpg0008038	0,31			
UHNhscpg0009599	0,31	SATB2	chr2:200031715-200032334	SATB family member 2
UHNhscpg0005333	0,31	PTPN22	chr1:114201225-114201328	protein tyrosine phosphatase, non-receptor type
UHNhscpg0011977	0,31			
UHNhscpg0002492	0,31	CENTG2	chr2:236606828-236607245	centaurin, gamma 2 isoform 1
UHNhscpg0011992	0,30			
UHNhscpg0002078	0,30		chr1:91625542-91625599	
UHNhscpg0004001	0,30	RGS13	chr1:190890876-190891120	regulator of G-protein signalling 13
UHNhscpg0000387	0,30			
UHNhscpg0009014	0,30	EIF3S5	chr11:7965149-7965860	eukaryotic translation initiation factor 3
UHNhscpg0010935	0,30	SHQ1	chr3:72979623-72979831	SHQ1 homolog
UHNhscpg0001998	0,30	WRB	chr21:39673997-39674585	tryptophan rich basic protein
UHNhscpg0000572	0,30		chr20:55128160-55128699	
UHNhscpg0010900	0,29		chr19:5450231-5450540	
UHNhscpg0008377	0,29		chr5:119778306-119778458	

UHNhscpg0005856	0,29			
UHNhscpg0004964	0,29		chr10:65334632-65334795	
UHNhscpg0003429	0,29	MCTP1	chr5:94112102-94112187	hypothetical protein FLJ22344
UHNhscpg0001043	0,29	ZNF222	chr19:49220645-49221654	zinc finger protein 222
UHNhscpg0000213	0,29	C6orf170	chr6:121697099-121697968	protein C6orf170
UHNhscpg0002116	0,29		chr3:148623688-148624107	
UHNhscpg0007437	0,29	FLJ34870	chr2:133966210-133966637	hypothetical protein LOC401013
UHNhscpg0010646	0,28		chr7:120968307-120968421	
UHNhscpg0011900	0,28			
UHNhscpg0005938	0,28		chr2:139709055-139709161	
UHNhscpg0002408	0,28			
UHNhscpg0012129	0,28			
UHNhscpg0004036	0,28		chr10:62645195-62645416	
UHNhscpg0009682	0,27		chr6:77419275-77419456	
UHNhscpg0004464	0,27		chr13:54088939-54089005	
UHNhscpg0003266	0,27	WDR4	chr21:43171882-43172057	WDR4 protein.
UHNhscpg0004871	0,27	IFT74	chr9:26946099-26946466	coiled-coil domain containing 2
UHNhscpg0005254	0,27		chr6:24118723-24118814	
UHNhscpg0011925	0,27			
UHNhscpg0004899	0,27	HNT	chr11:131648058-131648308	neurotrimin precursor (hNT)
UHNhscpg0010606	0,27		chr2:232087780-232087864	
UHNhscpg0001735	0,26	PTBP1	chr19:749886-750913	polypyrimidine tract-binding protein 1 isoform
UHNhscpg0010350	0,26		chr17:18914641-18914818	
UHNhscpg0005615	0,26	CTDSPL2	chr15:42532610-42532830	CTD (carboxy-terminal domain,RNA polymerase II
UHNhscpg0005667	0,26	MCART1	chr9:37893307-37894608	mitochondrial carrier triple repeat 1
UHNhscpg0007676	0,26		chr5:180529895-180530115	
UHNhscpg0006093	0,26		chr13:83957345-83957623	
UHNhscpg0000554	0,26		chr2:97723482-97723941	
UHNhscpg0000152	0,26			
UHNhscpg0003960	0,25	ZNF277	chr7:111725290-111725375	hypothetical protein ZNF277 (Fragment)

UHNhscpg0011930	0,25			
UHNhscpg0004873	0,25	PPIL5	chr14:49135841-49136086	peptidylprolyl isomerase (cyclophilin)-like 5
UHNhscpg0010718	0,24	LOC552891	chr9:113463150-113464000	hypothetical protein LOC552891
UHNhscpg0009187	0,24		chr16:3147452-3148184	
UHNhscpg0008168	0,24		chr4:24987372-24987777	
UHNhscpg0009673	0,24		chr22:39724994-39725187	
UHNhscpg0000255	0,24			
UHNhscpg0010345	0,24		chr6:137331040-137331320	
UHNhscpg0011533	0,23		chr1:42701938-42702253	
UHNhscpg0010741	0,23	FLJ46536	chr2:218619572-218619741	hypothetical protein LOC285180
UHNhscpg0008784	0,23			
UHNhscpg0011515	0,23		chr3:6291504-6291563	
UHNhscpg0001138	0,23	CR936715	chr6:74029086-74030095	Chromosome 6 open reading frame 148
UHNhscpg0009535	0,22		chr3:41605367-41605483	
UHNhscpg0007472	0,21		chr11:37424954-37425096	
UHNhscpg0010064	0,21		chr6:24829776-24830117	
UHNhscpg0003041	0,21		chr12:90534102-90534189	
UHNhscpg0003182	0,20	LEMD3	chr12:63850471-63850719	LEM domain containing 3
UHNhscpg0010386	0,20		chr1:53291317-53291693	
UHNhscpg0000009	0,20	RERE	chr1:8799536-8800122	atrophin-1 like protein
UHNhscpg0012185	0,20			
UHNhscpg0000505	0,19		chr19:60790323-60790955	
UHNhscpg0010650	0,18			
UHNhscpg0000764	0,18		chr8:21455600-21456002	
UHNhscpg0000607	0,18	PVRL3	chr3:112274059-112274383	PVRL3 protein
UHNhscpg0004039	0,17		chr14:74587850-74588066	
UHNhscpg0003749	0,15		chr5:139760854-139761285	
UHNhscpg0002631	0,15	CDH13	chr16:81837847-81838485	cadherin 13 preproprotein
UHNhscpg0001229	0,14	HSPBP1	chr19:60482958-60483290	hsp70-interacting protein
UHNhscpg0011013	0,13		chr3:82083050-82083256	

UHNhscpg0000041 0,12

UHNhscpg0003442 0,11

TRPM2

chr21:44619534-44619975

transient receptor potential cation channel,subfamily M,member 2,str