

Table S3. Methylation values of 855 probes (CpGs) on differentially methylated regions, measured by Infinium MethylationEPIC Kit.

Chr.	Genomic position	Target ID	Name of DMRs	450K probes	Mean β values in controls	SD	Mean - 3 SD	Mean + 3 SD	β values Patient	Delta- β Patient	β values Father	Delta- β Father	β values Mother	Delta- β Mother
1	36915841	cg27439456	OSCP1	Yes	0.193439981	0.065998658	-0.004555993	0.391435955	0.162212301	-0.022982523	0.164328363	-0.020182129	0.229963009	0.045452455
1	36915865	cg08878450	OSCP1	Yes	0.417937518	0.08264052	0.170015959	0.665859077	0.388105273	-0.010819845	0.337544032	-0.061381085	0.552496077	0.15402449
1	36916006	cg10914277	OSCP1	Yes	0.041453072	0.007097445	0.012006737	0.062745407	0.034926573	-0.00311173	0.034926573	-0.005191616	0.044919078	0.003844289
1	36916013	cg16583330	OSCP1	Yes	0.015857457	0.004372236	0.002275748	0.028989166	0.015089673	-0.000296723	0.015627971	-0.000286575	0.008937022	-0.006449374
1	36916040	cg10035922	OSCP1	Yes	0.00610117	0.001955756	0.000243442	0.011958898	0.003893416	-0.001902997	0.005514626	-0.000281787	0.000907035	-0.001895678
1	36916160	cg00578252	OSCP1	Yes	0.013048481	0.00293805	0.004234332	0.02186263	0.011969365	-0.000439884	0.010863368	-0.001545881	0.010691374	-0.001171874
1	36916165	cg11708976	OSCP1	Yes	0.002685999	0.00113309	-0.000713272	0.006085269	0.002844009	-0.000242155	0.001335501	-0.000262753	0.006069906	0.7165158-05
1	36916179	cg15725228	OSCP1	Yes	0.013622069	0.00280758	0.00519933	0.022044808	0.010229475	-0.003037942	0.010715863	-0.002551555	0.013107167	-0.00016025
1	36916191	cg09662887	OSCP1	Yes	0.01370958	0.006680768	-0.006332724	0.033751884	0.015185413	0.002749353	0.011033188	-0.001402872	0.008867687	-0.003568373
1	36916194	cg06367472	OSCP1	Yes	0.006344305	0.001468057	0.001940135	0.010748476	0.005109455	-0.001013667	0.005109455	-0.00011515	0.004696409	-0.001426713
1	36916196	cg12630409	OSCP1	Yes	0.020766104	0.003705575	0.009649378	0.03188283	0.018813055	-0.001126901	0.023033955	-0.003093999	0.019182835	-0.000757122
1	36916502	cg22397854	OSCP1	Yes	0.008641881	0.002616505	0.000792368	0.016491395	0.008228236	-0.000197942	0.006811316	-0.001614861	0.007460897	-0.000965281
1	36916606	cg03954991	OSCP1	Yes	0.097806653	0.035820005	-0.009653363	0.205266669	0.061239378	-0.033693625	0.06101903	-0.033913972	0.162365588	0.064325886
1	40024972	cg10243676	PIIEXL:Ex1-DMR	Yes	0.664496286	0.049027564	0.517413595	0.811578977	0.629505458	-0.003632491	0.684304935	-0.051166986	0.723651498	0.090513555
1	40025233	cg11704876	PIIEXL:Ex1-DMR	Yes	0.736911929	0.052622943	0.579043099	0.894780758	0.7374741803	0.033708557	0.728285211	0.024251965	0.784397523	0.080346277
1	40025412	cg22862450	PIIEXL:Ex1-DMR	Yes	0.830563697	0.031083953	0.737311838	0.923815557	0.815661066	0.022112524	0.807391815	0.013843237	0.868020801	0.074722578
1	40025416	cg15057250	PIIEXL:Ex1-DMR	Yes	0.849652267	0.035854201	0.742089663	0.972148711	0.817011119	0.005256765	0.867310468	0.055561614	0.878659986	0.066905632
1	55271674	cg21872908	Clorf17	Yes	0.97651074	0.008548325	0.950865766	1.002155715	0.971560705	0.038170561	0.974205262	0.038154919	0.987883307	0.052943164
1	68512540	cg03641225	DIRAS3:Ex2-DMR	Yes	0.32374034	0.039248731	0.205994147	0.441486534	0.272433587	-0.034170818	0.298730007	-0.007874398	0.447866799	0.141272274
1	68512808	cg20149168	DIRAS3:Ex2-DMR	Yes	0.675861738	0.0575393	0.503243839	0.848479638	0.611448525	-0.030030994	0.679895252	0.038415733	0.822782937	0.181303418
1	68512929	cg00448707	DIRAS3:Ex2-DMR	Yes	0.747525614	0.047213546	0.605884975	0.89166253	0.706765387	-0.005464637	0.727451287	-0.015221263	0.874149028	0.16191905
1	68513064	cg21808053	DIRAS3:Ex2-DMR	Yes	0.475449637	0.052537588	0.318736874	0.630623999	0.444750504	-0.006646688	0.415269577	-0.005324482	0.604032148	0.19291004
1	68515789	cg02317907	DIRAS3:TSS-DMR	Yes	0.794813455	0.029373037	0.706694345	0.882932564	0.790869355	0.031189742	0.793642929	0.03396316	0.792244249	0.032564366
1	68515873	cg17943391	DIRAS3:TSS-DMR	Yes	0.460785155	0.047355258	0.318719381	0.60285093	0.435355243	-0.001728827	0.490251075	0.033167005	0.485355939	0.048271868
1	68515978	cg19114595	DIRAS3:TSS-DMR	Yes	0.767041149	0.034165681	0.665444106	0.869538192	0.741980559	0.009977039	0.766013411	0.034009891	0.751021283	0.19107763
1	68516081	cg12070746	DIRAS3:TSS-DMR	Yes	0.515116616	0.042619476	0.426158189	0.692750044	0.455925484	-0.034663112	0.528404841	0.034216245	0.538644681	0.058062625
1	68516102	cg16314899	DIRAS3:TSS-DMR	Yes	0.704511094	0.048367328	0.55940911	0.849613077	0.648249071	-0.02980238	0.761115484	-0.008981675	0.695057218	0.23827900
1	68516139	cg25755905	DIRAS3:TSS-DMR	Yes	0.511188161	0.045830092	0.36779888	0.648678438	0.456663291	-0.028777356	0.489595387	-0.0511384	0.59510597	0.073665849
1	68516273	cg22500004	DIRAS3:TSS-DMR	Yes	0.713508053	0.042016139	0.587459635	0.839556471	0.65435697	-0.027410304	0.755540238	0.073772964	0.707109346	0.025342072
1	68516280	cg05949203	DIRAS3:TSS-DMR	Yes	0.660755468	0.03248297	0.563306559	0.758204377	0.595062925	-0.036289307	0.676495197	0.045142965	0.668853242	0.057241011
1	68516375	cg19694923	DIRAS3:TSS-DMR	NA	0.563736671	0.03399298	0.461757732	0.657156111	0.537239273	-0.001700863	0.585825063	0.046884927	0.586683393	0.021742506
1	68516454	cg05932265	DIRAS3:TSS-DMR	NA	0.616051106	0.042130167	0.489660605	0.72446017	0.59269476	-0.028634124	0.64930083	0.06139723	0.62692473	0.03902113
1	68516464	cg06191076	DIRAS3:TSS-DMR	NA	0.608674398	0.041047154	0.485532935	0.73181586	0.583110527	-0.003025634	0.5944587	0.014553807	0.646515586	0.066071092
1	68516519	cg13208159	DIRAS3:TSS-DMR	Yes	0.539499662	0.050705931	0.387381869	0.681617455	0.497939064	-0.016201545	0.572301854	0.058116245	0.546212352	0.032071743
1	68516714	cg13099417	DIRAS3:TSS-DMR	Yes	0.702774361	0.06885553	0.562717702	0.84293102	0.704153332	0.032335088	0.668661615	-0.00315663	0.769346996	0.09528451
1	68517178	cg27456511	DIRAS3:TSS-DMR	Yes	0.686387453	0.044128004	0.554025042	0.818749864	0.523210664	-0.131356512	0.73438218	0.079815025	0.724060011	0.049628256
1	68517206	cg16148134	DIRAS3:TSS-DMR	Yes	0.526493991	0.062519184	0.33894025	0.714047733	0.302176999	-0.162694364	0.575833119	-0.072601757	0.562853344	0.060081981
1	68517256	cg13605615	DIRAS3:TSS-DMR	Yes	0.477543356	0.068517368	0.301991254	0.653095459	0.334767555	-0.119480449	0.50056949	0.046708745	0.528300118	0.074429214
1	68517274	cg10038185	DIRAS3:TSS-DMR	Yes	0.547265804	0.049779927	0.432262024	0.72205584	0.343336985	-0.179544888	0.614669738	-0.07788264	0.59633284	0.073451367
1	68517437	cg14230016	DIRAS3:TSS-DMR	NA	0.630985563	0.045184254	0.4954328	0.766538326	0.519446412	-0.084274676	0.648145177	0.044424089	0.663736951	0.06015863
1	68517455	cg01547550	DIRAS3:TSS-DMR	NA	0.591609114	0.039653343	0.47249084	0.705619144	0.403391911	-0.055434652	0.591201732	-0.025327888	0.66767235	0.061798506
1	68517463	cg14059179	DIRAS3:TSS-DMR	NA	0.517425305	0.040261123	0.396641935	0.60380675	0.42329104	-0.071463919	0.551690388	-0.056934259	0.534251804	0.03949645
1	92414521	cg03421440	BRDT	Yes	0.927406767	0.029558715	0.838730624	1.016280911	0.929087651	0.04157273	0.901127777	0.013612856	0.95852457	0.051337536
1	92414723	cg14732540	BRDT	Yes	0.683304968	0.08392346	0.43150931	0.935102005	0.607920099	-0.042096938	0.609746617	-0.040270419	0.775954168	0.125937132
1	92414723	cg14732540	BRDT	Yes	0.683304968	0.08392346	0.43150931	0.935102005	0.607920099	-0.042096938	0.609746617	-0.040270419	0.775954168	0.125937132
1	92414723	cg14732540	BRDT	Yes	0.683304968	0.08392346	0.43150931	0.935102005	0.607920099	-0.042096938	0.609746617	-0.040270419	0.775954168	0.125937132
1	95689855	cg24808901	LOC101928118	Yes	0.818137791	0.059113219	0.640798135	0.995477447	0.791194518	-0.008008625	0.747983301	-0.005202592	0.83567969	0.047093797
1	95699038	cg26537280	LOC101928118	Yes	0.488411373	0.088266019	0.223613316	0.75320943	0.495168286	0.030148472	0.394625084	-0.07039473	0.50356084	0.08353627
1	95699098	cg03123541	LOC101928118	Yes	0.65618013	0.10119184	0.352122579	0.99237682	0.635617385	-0.008857785	0.551360366	-0.072299234	0.734964268	0.03704668
1	95699314	cg06440946	LOC101928118	Yes	0.060378632	0.008938669	-0.026572375	0.14732964	0.062139164	0.005072096	0.033508158	-0.02355891	0.07245129	0.15348062
1	158900385	cg11177526	PYHIN1	Yes	0.736840866	0.106682362	0.461697381	1.056878951	0.892113094	-0.064211322	0.642411322	-0.056902019	0.752717095	0.053569554
1	228503802	cg18857768	OBSCN	Yes	0.984304369	0.003803447	0.972930029	0.99575071	0.986857643	0.043739128	0.981283393	0.038164877	0.985770101	0.042651586
1	240656343	cg10809217	MIR1273E	Yes	0.431955125									

6	3849236	cg18656763	FAM50B:TSS-DMR	Yes	0.53784909	0.022575283	0.47012324	0.605574941	0.535398555	0.020217365	0.559323398	0.044142209	0.515188658	7.46787E-06
6	3849278	cg09821214	FAM50B:TSS-DMR	Yes	0.585452991	0.043584953	0.454698131	0.716207851	0.572462283	0.014134775	0.605766117	0.044383608	0.5275901329	0.01573821
6	3849295	cg07898446	FAM50B:TSS-DMR	Yes	0.508134453	0.026884946	0.427479615	0.68878929	0.49522841	0.008976506	0.602712513	0.02060248	0.524715507	0.03846602
6	3849328	cg25195497	FAM50B:TSS-DMR	Yes	0.621520819	0.064401112	0.428317482	0.814724156	0.538169286	-0.052740384	0.595665562	0.004755892	0.712404571	0.123294901
6	3849332	cg21740964	FAM50B:TSS-DMR	Yes	0.705492715	0.062572963	0.17773828	0.893211603	0.617564543	-0.055945901	0.675046933	0.002725569	0.78695019	0.117373654
6	3849351	cg13289019	FAM50B:TSS-DMR	Yes	0.409026031	0.02856111	0.2332427	0.494709362	0.394290662	0.001995934	0.434302706	0.42007978	0.383343894	0.010950834
6	3849382	cg12840312	FAM50B:TSS-DMR	Yes	0.60359418	0.027210043	0.52196405	0.685224309	0.67372565	0.031048737	0.58920414	0.012880312	0.614157443	0.03783614
6	3849392	cg01905633	FAM50B:TSS-DMR	Yes	0.429264365	0.03226399	0.33427395	0.526056336	0.396443347	-0.01615129	0.428944691	0.018150054	0.437438399	0.02663762
6	3849412	cg21117626	FAM50B:TSS-DMR	Yes	0.450262272	0.035323503	0.34291764	0.56232781	0.441902416	0.052237573	0.526720616	0.027891773	0.438958551	0.029329708
6	3849435	cg03954573	FAM50B:TSS-DMR	Yes	0.652007368	0.034198807	0.549419047	0.754603789	0.617508766	-0.006051066	0.74363012	0.05800288	0.652152297	0.028592465
6	3849459	cg18197332	FAM50B:TSS-DMR	Yes	0.641425552	0.03267069	0.545344344	0.7330676	0.616541747	0.001909741	0.659988566	0.04535656	0.63551475	0.02808217
6	3849476	cg04446723	FAM50B:TSS-DMR	Yes	0.657520229	0.027456727	0.575150048	0.73989041	0.654744822	0.027526083	0.658940452	0.031721713	0.659798368	0.032579629
6	3849537	cg23835083	FAM50B:TSS-DMR	Yes	0.615446925	0.03794205	0.501620776	0.792737073	0.596924184	0.010223051	0.60932564	0.022642507	0.624449102	0.060747969
6	3849543	cg18487516	FAM50B:TSS-DMR	Yes	0.691977022	0.038117802	0.577623616	0.806330427	0.644771899	-0.015637585	0.714735267	0.054325782	0.727073217	0.061663732
6	3849578	cg12497786	FAM50B:TSS-DMR	Yes	0.725901074	0.038551276	0.610242747	0.841554901	0.732318158	0.036641704	0.783457969	0.087781514	0.675910516	0.019765938
6	3849689	cg03202897	FAM50B:TSS-DMR	Yes	0.780217421	0.028970618	0.693305567	0.867129276	0.76162954	0.015345945	0.803318868	0.057035273	0.766694815	0.02041122
6	3849691	cg21153160	FAM50B:TSS-DMR	Yes	0.491336025	0.031622914	0.596467284	0.586204766	0.506873438	0.036739462	0.480099044	0.009965068	0.470918358	0.000784382
6	3849703	cg25073793	FAM50B:TSS-DMR	Yes	0.708470419	0.027421827	0.596204937	0.820735901	0.685889976	0.009700882	0.70851366	0.032324567	0.70917653	0.0329785
6	3849819	cg13101072	FAM50B:TSS-DMR	Yes	0.665586398	0.037788975	0.552219474	0.778953322	0.62324843	-0.013326744	0.674358779	0.037783605	0.692668599	0.056093425
6	3850107	cg181561173	FAM50B:TSS-DMR	Yes	0.612261177	0.0461867	0.538405168	0.686117186	0.623023121	0.015854433	0.63601541	0.049546722	0.586598413	0.000129725
6	144328422	cg09730369	PLAGL1_alt:TSS-DMR	Yes	0.824999225	0.028422511	0.739731693	0.910266756	0.821922667	0.033419714	0.88191313	0.093410177	0.790067682	0.001565029
6	144328483	cg17865602	PLAGL1_alt:TSS-DMR	Yes	0.652256521	0.042102638	0.525948606	0.778564436	0.615158908	0.029888415	0.667576141	0.046305648	0.647656569	0.023495077
6	144328918	cg25350411	PLAGL1_alt:TSS-DMR	Yes	0.575090912	0.050564191	0.423398339	0.726783484	0.517332597	-0.030851857	0.640508126	0.092323671	0.578176741	0.029929826
6	144329053	cg07707459	PLAGL1_alt:TSS-DMR	Yes	0.591378256	0.033723292	0.490208378	0.692548133	0.608900055	0.043996375	0.588290033	0.023386353	0.585177384	0.020273704
6	144329173	cg22378065	PLAGL1_alt:TSS-DMR	Yes	0.590858115	0.023526877	0.521100055	0.660616176	0.576435772	0.010777945	0.579132393	0.013474565	0.623561102	0.057903274
6	144329383	cg22352234	PLAGL1_alt:TSS-DMR	Yes	0.527594293	0.026210135	0.448963888	0.66224698	0.518623503	0.014975395	0.518626333	0.014878224	0.534660145	0.030912036
6	144329474	cg00702231	PLAGL1_alt:TSS-DMR	Yes	0.748503163	0.021690588	0.683431398	0.813574927	0.572962389	0.037459796	0.757449182	0.041945689	0.735358237	0.019854745
6	144329486	cg12757684	PLAGL1_alt:TSS-DMR	Yes	0.427599825	0.028520994	0.428250862	0.513162808	0.448212481	0.037565814	0.44523063	0.031276396	0.403435661	0.007193106
6	144329745	cg12820609	PLAGL1_alt:TSS-DMR	NA	0.575947784	0.055283841	0.41009626	0.741799308	0.555769382	0.00602553	0.546662303	0.031004526	0.566641769	0.01687494
6	144329767	cg05326984	PLAGL1_alt:TSS-DMR	Yes	0.652417564	0.022423826	0.585146086	0.719689041	0.654161961	0.01958266	0.657671168	0.020918607	0.660335366	0.016756065
6	144329781	cg08263357	PLAGL1_alt:TSS-DMR	Yes	0.674667016	0.05001545	0.524620668	0.824713365	0.672513926	0.029384771	0.687367518	0.044238362	0.651750485	0.008621329
6	144329790	cg11532302	PLAGL1_alt:TSS-DMR	Yes	0.530085394	0.04149318	0.405605853	0.456456934	0.542912859	0.019702668	0.546239586	0.040399395	0.495107575	0.010732617
6	144329803	cg27216384	PLAGL1_alt:TSS-DMR	Yes	0.396527415	0.034573417	0.292807165	0.500247666	0.377155604	-0.003529822	0.439513726	0.058832141	0.343129831	-0.037551755
6	144329830	cg17895149	PLAGL1_alt:TSS-DMR	Yes	0.701449774	0.0582225	0.533982123	0.868917425	0.716831803	0.048564277	0.729329341	0.079855442	0.611587196	0.011587196
6	144329888	cg23460430	PLAGL1_alt:TSS-DMR	Yes	0.677569268	0.08902987	0.408160307	0.94697823	0.575571696	-0.069736913	0.582229507	-0.063283603	0.67959317	0.122446208
6	160427348	cg16038989	IGF2R:Intr2-DMR	NA	0.641086255	0.048755204	0.49482604	0.787351868	0.615839978	0.004183769	0.682367126	0.070711154	0.638835659	0.021719451
6	160427502	cg08350488	IGF2R:Intr2-DMR	Yes	0.617156674	0.01280215	0.313316029	0.920997319	0.643118502	0.05775414	0.591274246	0.003929338	0.69612311	0.108780023
6	168785356	cg25394782	SMOCC	Yes	0.909065662	0.028548178	0.823420828	0.994710497	0.911321175	0.040250834	0.937845748	0.066775407	0.844410244	0.026660997
6	168785397	cg12758485	SMOCC	Yes	0.761577818	0.06475181	0.567324276	0.95583136	0.743471898	0.014693732	0.692538574	0.098580508	0.524921029	-0.033571738
6	168785525	cg01601658	SMOCC	Yes	0.271372517	0.047727998	0.128190023	0.414555012	0.258803742	-0.004417311	0.296783956	0.036265253	0.21539146	-0.044881897
6	170055132	cg11938672	WDR27:Intr3-DMR	NA	0.762200171	0.11765636	0.458703262	0.16659078	0.68872487	0.054840402	0.782292228	0.056020143	0.753461437	0.041429352
6	170055333	cg18322025	WDR27:Intr3-DMR	Yes	0.584065227	0.151137795	0.130651841	0.1037478613	0.574394432	0.010757099	0.561504618	0.0102132715	0.616220893	0.05258356
6	1980480	cg12795815	MAD1L1	Yes	0.217015951	0.098741975	-0.079209957	0.193241877	0.191987632	-0.003427106	0.191988856	-0.120620418	0.096289949	-1.027015127
6	1980809	cg26996890	MAD1L1	Yes	0.98323655	0.010483516	0.90706004	1.015767097	0.9884570	0.046528161	0.990309133	0.048380275	0.96201196	0.018283102
6	23530000	cg12829142	RP52P32	Yes	0.330960321	0.060786735	0.145600115	0.513320527	0.260500747	-0.058891735	0.811315435	0.01722952	0.962277946	-0.035114537
6	23530811	cg16204552	RP52P32	Yes	0.772546246	0.076659484	0.542567794	1.002524698	0.7052871	-0.032513226	0.85801177	0.120211395	0.810187317	0.073268942
6	50849169	cg03104936	GRB10:alt-TSS-DMR	Yes	0.684476213	0.064859169	0.586966756	0.829858669	0.653480866	0.000628174	0.717337245	0.048448553	0.92185343	0.03934312
6	50849286	cg05998930	GRB10:alt-TSS-DMR	Yes	0.805176378	0.054949936	0.64032657	0.970026165	0.772034797	0.004824218	0.753438684	-0.014311896	0.658997436	0.029246856
6	50849724	cg16349612	GRB10:alt-TSS-DMR	Yes	0.706515316	0.040314427	0.58029844	0.702796808	0.673475839	0.028910852	0.69650798	0.022085811	0.69549415	0.020924158
6	50849806	cg23742152	GRB10:alt-TSS-DMR	Yes	0.563215813	0.03457339	0.450945643	0.666935983	0.529338867	-0.008535225	0.680123942	0.04249851	0.585433919	0.047559828
6	50849932	cg08883688	GRB10:alt-TSS-DMR	Yes	0.619427123	0.039478933	0.450909324	0.673639322	0.627622532	0.035143007	0.51755849	0.025276323	0.606777473	0.011198217
6	50850565	cg12903171	GRB10:alt-TSS-DMR	Yes	0.597643454	0.04544756	0.461309185	0.733977723	0.621170548	0.051139728	0.552187312	-0.018378449	0.596702316	0.026136676
6	50850636	cg23023285	GRB10:alt-TSS-DMR	NA	0.623792364	0.03665832	0.514694868	0.73289896	0.629518085	0.032654191	0.618539434	0.0267582	0.6244333	0.02969536
6	50850756	cg27563667	GRB10:alt-TSS-DMR	NA	0.33468053	0.03905351	0.21707523	0.451528584	0.331839459	0.009475698	0.318550294	-0.003813468	0.333190886	0.10826824
6	50850871	cg24977055	GRB10:alt-TSS-DMR	Yes	0.63098496	0.041943849	0.505153412	0.756816509	0.624619604	0.02165047	0.642901421	0.039932288	0.635056087	0.032086953
6	5085643	cg19107595	PEG10:TSS-DMR	Yes	0.203674733	0.04295908	0.074797492	0.32551973	0.22865686	0.035319441	0.224360374	0.031022955	0.211654208	0.018316789
6	5085668	cg19924104	PEG10:TSS-DMR	Yes	0.394588889	0.033749679	0.293338015	0.495837926	0.360550365	-0.016769908	0.426470136	0.049149863	0.407673925	0.030356252
6	5085686	cg11589966	PEG10:TSS-DMR	Yes	0.547417276	0.0307711								

7	130130996	cg00903373	MEST:at-TSS-DMR	Yes	0.482392528	0.045521314	0.345828587	0.61895647	0.515141976	0.054553011	0.488394964	0.027805999	0.433583519	-0.027005445
7	130131086	cg14088957	MEST:at-TSS-DMR	Yes	0.504663356	0.054102194	0.342356776	0.666069937	0.470481614	-0.010655275	0.538110803	0.056973914	0.479866351	-0.012705377
7	130131137	cg061000421	MEST:at-TSS-DMR	Yes	0.587355149	0.062229098	0.400667855	0.774042443	0.527930432	-0.031758176	0.588784861	0.029060294	0.619168312	-0.059479704
7	130131139	cg02097423	MEST:at-TSS-DMR	Yes	0.533387866	0.062371413	0.346273567	0.720502045	0.462737094	-0.04351693	0.581599494	0.07534547	0.548680998	0.024462974
7	130131147	cg053696971	MEST:at-TSS-DMR	Yes	0.449586511	0.034164921	0.340719549	0.522081273	0.418975504	-0.014323253	0.410715718	-0.022582139	0.461391892	0.02804035
7	130131190	cg08734637	MEST:at-TSS-DMR	Yes	0.515796888	0.029942084	0.425976037	0.605623138	0.520052477	0.026132021	0.487088273	-0.006832182	0.515117782	0.021197327
7	130131259	cg139115750	MEST:at-TSS-DMR	Yes	0.629718376	0.049378189	0.481583809	0.77852942	0.591498923	-0.008685629	0.605927248	0.002787371	0.651518256	-0.051336499
7	130131269	cg254071198	MEST:at-TSS-DMR	NA	0.640321704	0.059529457	0.461733333	0.81910075	0.6128314	0.002621789	0.647424541	0.037214929	0.660828655	-0.050619404
7	130131360	cg21667116	MEST:at-TSS-DMR	Yes	0.598120371	0.064765728	0.403790638	0.792501503	0.553885575	-0.014866973	0.653369619	0.086617071	0.555252473	-0.013500076
7	130131368	cg23156962	MEST:at-TSS-DMR	Yes	0.485909691	0.050007727	0.335073761	0.635120121	0.438756588	-0.029207082	0.469533863	0.00780193	0.498404096	0.036740426
7	130131404	cg04678950	MEST:at-TSS-DMR	Yes	0.640733144	0.057686027	0.467675062	0.813791227	0.603597908	-0.011695607	0.685738517	0.007983202	0.644763755	-0.030008441
7	130131481	cg17093235	MEST:at-TSS-DMR	Yes	0.678424641	0.052604198	0.520612046	0.836237236	0.647041904	-0.00112922	0.679747828	-0.031576704	0.693333281	0.045162156
7	130131485	cg04344875	MEST:at-TSS-DMR	Yes	0.680245569	0.056322479	0.511278132	0.849213007	0.680397499	0.032888022	0.643769628	-0.00373985	0.694818616	0.047309139
7	130131634	cg00286878	MEST:at-TSS-DMR	Yes	0.703728777	0.052532618	0.546130922	0.861326631	0.643851614	-0.027898067	0.723193111	0.05144343	0.697210747	-0.025461067
7	130131677	cg12347392	MEST:at-TSS-DMR	Yes	0.620856944	0.057359784	0.448777593	0.792936294	0.565220762	-0.029275978	0.628329869	0.033833129	0.654804073	-0.060343933
7	130131692	cg04786207	MEST:at-TSS-DMR	Yes	0.667798576	0.05512877	0.502412267	0.833184886	0.621247559	-0.015982645	0.694869625	0.057639421	0.686976146	0.049745941
7	130131731	cg26708559	MEST:at-TSS-DMR	Yes	0.627338885	0.048668233	0.481334186	0.773343584	0.629658021	0.032338023	0.574661462	-0.022651336	0.650662926	-0.058750128
7	130131798	cg27025386	MEST:at-TSS-DMR	Yes	0.703614404	0.051594836	0.575576896	0.885145912	0.698329254	-0.011850375	0.786102829	0.084923199	0.719748963	0.018569334
7	130131827	cg06212135	MEST:at-TSS-DMR	Yes	0.743822816	0.042710292	0.615691939	0.871953693	0.746576887	0.036919454	0.752080613	0.042424379	0.755682089	0.046205875
7	130131830	cg10249538	MEST:at-TSS-DMR	Yes	0.725733303	0.035880582	0.618091556	0.83337505	0.720308445	0.02628242	0.740036933	0.045656907	0.717950989	0.024470884
7	130131870	cg16823958	MEST:at-TSS-DMR	Yes	0.721226978	0.026799401	0.640828774	0.801625182	0.722594667	0.031413146	0.708839443	0.017657921	0.716661701	0.02548018
7	130131886	cg27338480	MEST:at-TSS-DMR	Yes	0.674238326	0.03206091	0.562636468	0.782480184	0.644406748	0.054606748	0.654469093	0.010915705	0.697086824	-0.053434346
7	130131888	cg09809131	MEST:at-TSS-DMR	Yes	0.664927955	0.030771455	0.572613591	0.75724232	0.675493766	0.038653249	0.685628819	0.048788301	0.636325783	-0.000514734
7	130131906	cg13104298	MEST:at-TSS-DMR	Yes	0.744763658	0.034208463	0.642138269	0.847389047	0.676484467	0.045663013	0.733785627	0.022800173	0.724433605	0.013448151
7	130131924	cg20050761	MEST:at-TSS-DMR	Yes	0.534948293	0.029874757	0.445324021	0.624572566	0.522812906	0.011975782	0.512521697	0.001684573	0.538414291	0.027571767
7	130132162	cg05556276	MEST:at-TSS-DMR	Yes	0.589823468	0.030485033	0.498368337	0.681278567	0.601471833	0.036864039	0.559851533	-0.004756261	0.601762306	0.041168293
7	130132200	cg17580798	MEST:at-TSS-DMR	Yes	0.599897617	0.029065549	0.521700972	0.687094263	0.591537605	0.017761166	0.613425852	0.039835414	0.594428062	0.020837623
7	130132260	cg05862114	MEST:at-TSS-DMR	Yes	0.296096805	0.062081076	0.109853576	0.482340034	0.225703629	-0.05843674	0.34206671	0.057926341	0.299409443	0.006354061
7	130132266	cg01784351	MEST:at-TSS-DMR	Yes	0.496859031	0.062562176	0.309157382	0.685066079	0.493393659	0.020019066	0.513407774	0.040033182	0.49576875	-0.013605842
7	130132287	cg27589003	MEST:at-TSS-DMR	Yes	0.487994421	0.043299502	0.358095916	0.617849257	0.504770181	0.03872033	0.520826933	0.0408313082	0.450030666	-0.016019185
7	130132306	cg23714917	MEST:at-TSS-DMR	Yes	0.709497711	0.036115503	0.60151202	0.817844219	0.699092089	0.019629235	0.708909438	0.029465824	0.705464678	0.026001823
7	130132361	cg25519926	MEST:at-TSS-DMR	Yes	0.703900303	0.025643798	0.62696891	0.780831696	0.702777764	0.029802789	0.699027313	0.02052338	0.71613681	0.043161834
7	130132420	cg22592140	MEST:at-TSS-DMR	Yes	0.619196405	0.054091229	0.456922718	0.781470092	0.559656154	-0.030837616	0.660489415	0.069956646	0.684290054	-0.093796284
7	130132423	cg05588221	MEST:at-TSS-DMR	Yes	0.658650186	0.047971025	0.514737111	0.80256326	0.650721454	0.022801584	0.657030729	0.029108158	0.652330939	0.024408369
7	130132454	cg13986840	MEST:at-TSS-DMR	Yes	0.628341718	0.07168228	0.398387034	0.862846402	0.603336069	0.031547792	0.661795716	0.063009899	0.625169711	0.026383894
7	130133111	cg052660959	MEST:at-TSS-DMR	Yes	0.822786403	0.0321256	0.693148722	0.952424083	0.813271155	0.04531193	0.824273447	0.0383313222	0.819090763	0.033130539
7	130134257	cg18622506	MEST:at-TSS-DMR	NA	0.381355417	0.040488111	0.067894804	0.694820649	0.37783401	0.004979066	0.484870949	0.112016005	0.226563662	-0.146291282
7	138348775	cg05719902	MEST:at-TSS-DMR	Yes	0.510870941	0.077458459	0.278495562	0.743246139	0.439734585	-0.048183904	0.589033752	0.011152623	0.432159966	-0.055758824
7	138348982	cg16111924	SVOP:Lat-TSS-DMR	Yes	0.10751919	0.044087397	0.018491	0.28201538	0.129542576	-0.020920574	0.173898254	0.027630203	0.148287037	-0.024603799
7	154862771	cg25780543	HTRSA:TS-DMR	Yes	0.327562263	0.048861616	0.180969765	0.474154761	0.273505592	-0.034878588	0.368866007	0.060481827	0.300887809	-0.007496371
7	154862970	cg25805298	HTRSA:TS-DMR	Yes	0.617349042	0.031485363	0.522892953	0.711805131	0.623623212	-0.018053944	0.60326476	-0.012578604	0.665310495	-0.047462439
7	154863008	cg09125907	HTRSA:TS-DMR	NA	0.670417758	0.043256604	0.540647906	0.800187571	0.629687013	-0.010074442	0.63263936	-0.001722095	0.718518003	-0.078756548
7	154863177	cg25058023	HTRSA:TS-DMR	Yes	0.600592813	0.046341996	0.461566826	0.7396188	0.547107773	-0.028564556	0.648275513	0.072603184	0.618450203	0.048226293
7	154863245	cg03024742	HTRSA:TS-DMR	Yes	0.691826712	0.04108962	0.5685575	0.815095573	0.64674157	-0.014863303	0.709056973	0.0474521	0.678380963	0.01767609
7	154863324	cg13892088	HTRSA:TS-DMR	NA	0.751467018	0.053283702	0.591615913	0.911318123	0.714597991	-0.001361547	0.757597438	0.0470159	0.755899188	0.0399365
7	154863339	cg10538202	HTRSA:TS-DMR	Yes	0.791470693	0.047190699	0.649898595	0.93304279	0.706183227	-0.050767817	0.81816185	0.061201746	0.847608531	0.090657426
7	154863382	cg09623773	HTRSA:TS-DMR	Yes	0.837878789	0.039839078	0.718631554	0.957396204	0.844222288	0.044649546	0.848757335	0.003206252	0.880258184	0.08065502
8	2585667	cg24475182	LOC101927815_1	Yes	0.280647499	0.083411793	0.03041212	0.530882879	0.2313669	-0.034609007	0.25926117	-0.006713791	0.338491893	0.072515985
8	2586226	cg1171988	LOC101927815_2	Yes	0.321377999	0.038372542	0.071260373	0.511496525	0.296390831	-0.005624769	0.335685433	0.03669832	0.311021936	0.029060636
8	2591208	cg04671734	LOC101927815_2	Yes	0.404824842	0.090542527	0.13319726	0.67452424	0.33398206	-0.051711742	0.461600318	0.078306516	0.415667787	0.034267985
8	2591412	cg08242633	LOC101927815_2	Yes	0.474296871	0.115542967	0.00807574	0.94658168	0.397984919	-0.106100118	0.608453608	0.162455071	0.642548269	0.018530158
8	37605553	cg05020125	ERLNI2:Inf6-DMR	Yes	0.40920349	0.06589342	0.211252329	0.606883751	0.390436759	0.004882457	0.461428255	0.075888552	0.398835226	0.013329223
8	37605718	cg21505509	ERLNI2:Inf6-DMR	Yes	0.581216556	0.064647413	0.382747318	0.715158793	0.59449528	0.038201414	0.626222776	0.073974662	0.53171272	-0.020535395
8	37605784	cg08247852	ERLNI2:Inf6-DMR	Yes	0.605367444	0.08743044	0.334051263	0.866773626	0.529338759	-0.047377044	0.721949881	0.145234078	0.563542836	0.013172967
8	37605979	cg00450319	ERLNI2:Inf6-DMR	Yes	0.653967772	0.068290942	0.449094946	0.858480598	0.678573799	0.05367682	0.722579323	0.595353206	0.599334435	-0.02591682
8	61626647	cg12844324	CHD7	Yes	0.601211867	0.054487508	0.437749345	0.74667439	0.54597863	-0.028107719	0.63778278	0.063696431	0.658137651	0.084051302
8	61626833	cg20648501	CHD7	Yes	0.770214923	0.033141015	0.670791878	0.869637969	0.740938003	0.003989858	0.798974939	0.062035814	0.825496577	0.084610532

11	2154639	cg26401390	IGF2:Ex9-DMR	Yes	0.624133737	0.047608883	0.481307089	0.766960384	0.49795635	-0.098691699	0.615839849	0.0191918	0.645203796	0.048555747
11	2154935	cg05384664	IGF2:Ex9-DMR	Yes	0.799534796	0.038518402	0.68397959	0.915900003	0.700636237	-0.063194859	0.793256206	0.02942511	0.812734621	0.048903526
11	2154935	cg00570578	IGF2:Ex9-DMR	Yes	0.803937017	0.038896351	0.682947964	0.920626071	0.703227822	-0.064451746	0.797461879	0.02942511	0.812637772	0.058504205
11	2168626	cg19642877	IGF2:alt-TSS-DMR	Yes	0.626156499	0.038474206	0.510733881	0.741579118	0.489494959	-0.125084493	0.612711763	0.01272321	0.687649434	0.038714682
11	2169139	cg20622142	IGF2:alt-TSS-DMR	NA	0.34911607	0.047312163	0.20717958	0.407525599	0.204690504	-0.093239338	0.361224407	0.027293016	0.673729994	0.09741603
11	2720230	cg27119222	KCNQ1OT1:TSS-DMR	Yes	0.695874466	0.058219796	0.521215099	0.805533874	0.666578781	0.001125468	0.70752442	0.042071107	0.709438057	0.03497645
11	2720464	cg00000924	KCNQ1OT1:TSS-DMR	Yes	0.626726151	0.058899633	0.450037161	0.803415141	0.641619963	0.018447833	0.622871141	0.026415012	0.628618726	0.04664597
11	2720811	cg11297256	KCNQ1OT1:TSS-DMR	Yes	0.288397648	0.031734786	0.193193289	0.383602008	0.268877311	-0.009412668	0.588270625	0.010430646	0.29204008	0.013750101
11	2721244	cg12077660	KCNQ1OT1:TSS-DMR	Yes	0.560319753	0.024729986	0.479779935	0.613159711	0.60831266	0.022791459	0.59989015	0.025176814	0.537593295	0.720938106
11	2721249	cg03401726	KCNQ1OT1:TSS-DMR	Yes	0.616704419	0.031772528	0.521368835	0.712022002	0.59330654	0.006462815	0.605396503	0.016552778	0.643646801	0.055521076
11	2721337	cg16739686	KCNQ1OT1:TSS-DMR	Yes	0.59072947	0.036684473	0.480676001	0.700518287	0.560543193	-0.003383786	0.629522618	0.069339598	0.566033958	0.005106979
11	2721352	cg08359167	KCNQ1OT1:TSS-DMR	Yes	0.561870618	0.03363691	0.460959889	0.662781348	0.547597293	0.009824566	0.564125103	0.026323276	0.555571105	0.017798322
11	2721367	cg08446215	KCNQ1OT1:TSS-DMR	Yes	0.723766907	0.031698784	0.628670555	0.818863258	0.676010916	-0.016992161	0.751393553	0.058390475	0.735458323	0.042455246
11	2721384	cg26104781	KCNQ1OT1:TSS-DMR	Yes	0.738156416	0.036683645	0.628105482	0.84820735	0.744805992	0.042116878	0.750348996	0.044405881	0.720420703	0.014477588
11	2721410	cg02219360	KCNQ1OT1:TSS-DMR	Yes	0.572634917	0.031001662	0.479629931	0.665639903	0.544162207	-0.006500051	0.582510849	0.031848591	0.599843197	0.009180939
11	2721481	cg07592503	KCNQ1OT1:TSS-DMR	Yes	0.549505965	0.033290668	0.449633959	0.64937797	0.535480879	0.010156592	0.573501137	0.048176851	0.525450215	0.040125928
11	2721592	cg09518720	KCNQ1OT1:TSS-DMR	Yes	0.683415336	0.040056664	0.563245448	0.805358328	0.657659801	0.003102376	0.707898241	0.053340816	0.672132478	0.017575054
11	2721611	cg14954841	KCNQ1OT1:TSS-DMR	Yes	0.622536386	0.048757316	0.476264635	0.768808334	0.594273029	0.009092134	0.594272704	0.00108892	0.646912845	0.05327469
11	2721620	cg27323091	KCNQ1OT1:TSS-DMR	Yes	0.590208554	0.029587709	0.501452126	0.678968592	0.586432307	0.021153326	0.585185055	0.019906704	0.624536173	0.059257192
11	2721633	cg01873334	KCNQ1OT1:TSS-DMR	Yes	0.790802681	0.03202609	0.694724411	0.886880952	0.786736587	0.029394918	0.807638294	0.039262625	0.826754024	0.047412355
11	2721800	cg05816130	KCNQ1OT1:TSS-DMR	Yes	0.672161266	0.047350864	0.530108674	0.814213809	0.683255411	0.042014833	0.630493648	-0.010746929	0.672648435	0.031407858
11	2721818	cg14243741	KCNQ1OT1:TSS-DMR	Yes	0.689502237	0.050599928	0.537702453	0.841302021	0.654216335	-0.002447962	0.673946815	0.017282517	0.707278766	0.050614669
11	2721867	cg05740879	KCNQ1OT1:TSS-DMR	Yes	0.758476649	0.038230329	0.643785661	0.873167636	0.745018407	0.020271697	0.744999894	0.020253185	0.776452987	0.051706277
11	2721953	cg01893176	KCNQ1OT1:TSS-DMR	Yes	0.641189608	0.041111328	0.517855625	0.76452359	0.597906058	-0.014843136	0.630723849	0.017974656	0.662971716	0.062921716
11	2722063	cg11666921	KCNQ1OT1:TSS-DMR	Yes	0.482355025	0.066715405	0.282208008	0.682501241	0.491748361	0.029628983	0.479353027	0.017233649	0.485982383	0.023683005
11	2722074	cg26094482	KCNQ1OT1:TSS-DMR	Yes	0.412978289	0.030533553	0.321378823	0.504578346	0.381419395	-0.013366427	0.449830254	0.050540433	0.411671395	0.016855785
11	2722083	cg03422070	KCNQ1OT1:TSS-DMR	Yes	0.727294196	0.044260834	0.594511696	0.860676697	0.707107406	0.013322814	0.719232027	0.025447435	0.743369779	0.049585187
11	2722085	cg15651941	KCNQ1OT1:TSS-DMR	Yes	0.572427078	0.049100929	0.452124291	0.719729865	0.548647031	0.004755236	0.581661744	0.037769949	0.588145352	0.042553557
11	2722087	cg25306939	KCNQ1OT1:TSS-DMR	Yes	0.641419296	0.058709275	0.462591472	0.817541121	0.635655229	0.024549497	0.630350026	0.019244295	0.64836328	0.032757488
11	2722196	cg02798157	KCNQ1OT1:TSS-DMR	Yes	0.560176788	0.061312426	0.376239509	0.744114067	0.578423522	0.046161745	0.477324676	-0.054919102	0.58260481	0.050343033
11	48892552	cg17182551	RB1:ln2-DMR	Yes	0.853631005	0.037333086	0.741631747	0.965630262	0.840576292	0.022591312	0.902789511	0.084084051	0.833406067	0.015421087
11	48893175	cg13431205	RB1:ln2-DMR	Yes	0.608992367	0.044145588	0.46755604	0.741429131	0.50797644	-0.011662871	0.64819142	0.06179832	0.599804047	0.017201159
11	48893728	cg18481241	RB1:ln2-DMR	Yes	0.550594731	0.049919765	0.400834546	0.700354027	0.54854552	0.023590635	0.6068865	0.081937666	0.497824465	-0.027130419
11	48894215	cg25676335	RB1:ln2-DMR	Yes	0.812176439	0.030105116	0.721244891	0.903107987	0.801224278	0.024389713	0.81750635	0.04671785	0.819615001	0.024780436
11	48894383	cg00059930	RB1:ln2-DMR	Yes	0.600681878	0.043981373	0.468737759	0.732625996	0.581799061	0.008498115	0.639077854	0.065776908	0.58287897	0.009487024
11	48895242	cg26740195	RB1:ln2-DMR	Yes	0.632471036	0.047378263	0.49036247	0.774605826	0.5922683	-0.011650142	0.641201931	0.037283489	0.638354565	0.034361221
11	48895319	cg27027613	RB1:ln2-DMR	Yes	0.689014522	0.038116738	0.574636007	0.803364737	0.656633006	0.00481863	0.656651523	-0.004859873	0.740745247	0.079233851
11	48895479	cg07880751	RB1:ln2-DMR	Yes	0.748542407	0.037870997	0.634929415	0.862155398	0.720618433	0.003764071	0.7784827	0.061574347	0.731972302	-0.01511794
11	11062248	cg18114040	COL4A2	Yes	0.284940753	0.048297697	0.140047661	0.429838285	0.231616923	0.002934777	0.331670614	0.028947317	0.228830719	0.044922622
11	11062267	cg08959039	COL4A2	Yes	0.57236764	0.056967336	0.410465632	0.743266948	0.580390233	0.031001161	0.532710068	-0.016679004	0.51577764	0.018388667
11	11062288	cg11096515	COL4A2	Yes	0.584306978	0.04747369	0.361482941	0.87131014	0.591713392	0.058689743	0.591713267	0.006809021	0.53683448	-0.042472969
11	115000150	cg10254888	CDC16	Yes	0.105154491	0.039295552	-0.012732164	0.223041145	0.066711959	-0.03350561	0.137541887	0.037319318	0.100959222	0.000736653
11	115000163	cg24890222	CDC16	Yes	0.105150346	0.037879037	-0.008486765	0.218784756	0.065831163	-0.040268369	0.117859734	0.027602020	0.098042794	0.000943262
11	101192853	cg14902276	DLK1	Yes	0.558303518	0.049473282	0.409883672	0.706723363	0.456631063	-0.079590217	0.632752088	0.096530808	0.529487285	-0.006735995
11	101192861	cg18373878	DLK1	Yes	0.752427998	0.048104023	0.619717598	0.875680068	0.675986259	-0.048468481	0.77231295	0.052777209	0.767010626	-0.046153883
11	101192914	cg10528576	DLK1	Yes	0.47552124	0.077920055	0.24152235	0.709272564	0.42517545	-0.037608607	0.524730629	0.061946572	0.471794367	0.009010311
11	101277287	cg27281850	MEG3:DLK1:IG-DMR	NA	0.791294669	0.046601408	0.645940945	0.790989894	0.68733938	-0.127089546	0.822738578	0.06765634	0.802284183	0.04711238
11	101290557	cg00764369	MEG3:TSS-DMR	Yes	0.810857518	0.028694279	0.724774682	0.896940353	0.627558546	-0.142967948	0.834938197	0.05211703	0.832578239	0.056851745
11	101290718	cg10515315	MEG3:TSS-DMR	Yes	0.552500248	0.060786867	0.371903966	0.73486085	0.192813367	-0.331904042	0.5894691	0.0926571691	0.951952251	0.662724842
11	101290868	cg15991555	MEG3:TSS-DMR	Yes	0.649692062	0.056326184	0.480713511	0.818670613	0.208640931	-0.14224408	0.68181404	0.060929068	0.689537454	0.068652442
11	101291069	cg23870378	MEG3:TSS-DMR	Yes	0.602207596	0.055399853	0.460030836	0.768407156	0.593887204	-0.21484883	0.667368544	0.059256502	0.633791895	0.050198544
11	101291101	cg14034270	MEG3:TSS-DMR	Yes	0.872768976	0.026260372	0.79398786	0.951550091	0.782945027	-0.052253841	0.894684495	0.059485628	0.900703675	0.065504807
11	101291137	cg16567044	MEG3:TSS-DMR	Yes	0.56109419	0.053411908	0.400858466	0.713239913	0.499179497	-0.05701612	0.542923438	0.014884726	0.6196205	0.685270842
11	101291181	cg10540302	MEG3:TSS-DMR	Yes	0.676985657	0.044623079	0.543089419	0.810881895	0.541495894	-0.104418918	0.666979925	0.023765113	0.709013086	0.063098274
11	101291289	cg02313552	MEG3:TSS-DMR	Yes	0.675593147	0.044204628	0.542979264	0.80820703	0.465743214	-0.179293256	0.704912698	0.059876498	0.688341957	0.043305487
11	101291411	cg02982753	MEG3:TSS-DMR	Yes	0.594414973	0.05214712	0.497973344	0.750856602	0.244673827	-0.321526268	0.638920475	0.072720379	0.63718287	0.070982775
11	101291441	cg02888166	MEG3:TSS-DMR	Yes	0.698083187	0.028111709	0.617330958	0.782435415	0.580193251	-0.086810645	0.70808961	0.041085714	0.716133112	

15	23932413	cg26725891	NDN:TSS-DMR	Yes	0.5632451	0.037914082	0.449502853	0.676987347	0.613306567	0.07423526	0.583197233	0.044125926	0.549449027	0.01037772
15	23932621	cg18552939	NDN:TSS-DMR	Yes	0.264655379	0.053819617	1.03196526	0.426114231	0.253922918	0.001609646	0.226630168	-0.025683103	0.316360601	0.064047329
15	23932627	cg19089045	NDN:TSS-DMR	NA	0.225970167	0.047008107	0.084945845	0.366994489	0.237512296	0.022452094	0.181183955	-0.033876247	0.019848349	0.023494661
15	23932759	cg01989224	NDN:TSS-DMR	Yes	0.664390265	0.054717029	0.500239177	0.828541353	0.704488706	0.072354142	0.692246133	0.060111568	0.607698003	0.023436561
15	24142921	cg06013632	PWRN4	Yes	0.47973423	0.039658615	0.360758386	0.598710074	0.474718182	0.016542273	0.538249057	0.080073149	0.497614936	0.029494227
15	24142936	cg01250563	PWRN4	Yes	0.468547839	0.042612975	0.540780912	0.596386765	0.497417367	0.049358271	0.472919787	0.028066092	0.446124788	0.001934308
15	24143001	cg19698403	PWRN4	Yes	0.21557788	0.026579487	1.335839417	0.295316342	0.217344456	0.011551156	0.197949006	-0.00809929	0.229258182	0.003644886
15	25068565	cg22491305	SNRPN:alt-TSS-DMR	Yes	0.908793694	0.01538494	0.862638874	0.954948514	0.931580814	0.061816644	0.891443266	0.021679096	0.516593796	0.004915206
15	25068739	cg11265941	SNRPN:alt-TSS-DMR	Yes	0.624980497	0.042315496	0.480304009	0.197524986	0.570749079	-0.026529488	0.638838716	0.04156015	0.664124127	0.06684556
15	25068755	cg18126663	SNRPN:alt-TSS-DMR	Yes	0.629850657	0.028371785	0.544735304	0.714966011	0.61087785	0.009126814	0.648973469	0.047222343	0.630257557	0.028456521
15	25068758	cg24785225	SNRPN:alt-TSS-DMR	Yes	0.708542034	0.023842291	0.623515116	0.356568907	0.682125354	0.00457258	0.743360415	0.065800742	0.701560753	0.038054779
15	25068760	cg10271763	SNRPN:alt-TSS-DMR	Yes	0.685742865	0.025806458	0.608323491	0.76316224	0.653819067	-0.002348285	0.701797334	0.045629982	0.701007031	0.044902679
15	25068770	cg27304225	SNRPN:alt-TSS-DMR	Yes	0.681764457	0.039019024	0.564617385	0.798731529	0.644754888	-0.007512304	0.713580824	0.061313632	0.710136628	0.057869437
15	25068791	cg19803984	SNRPN:alt-TSS-DMR	Yes	0.509711268	0.048808212	0.363286632	0.656135904	0.501426365	-0.016064733	0.474697046	0.538385063	0.530523431	0.035805452
15	25069377	cg26033681	SNRPN:alt-TSS-DMR	Yes	0.620696972	0.058711311	0.444557578	0.796836367	0.666451555	0.075495843	0.571723099	-0.019232614	0.596301265	0.005345552
15	25093245	cg25978208	SNRPN:int1-DMR1	Yes	0.576479854	0.060019868	0.39642025	0.756539458	0.513828369	-0.037666122	0.682194987	0.130700495	0.503162247	-0.048332244
15	25093367	cg02171545	SNRPN:int1-DMR1	Yes	0.330237943	0.058289041	0.07437082	0.586105066	0.284133966	-0.028633742	0.283188421	-0.029579017	0.4449739643	0.0135972205
15	25093457	cg02305723	SNRPN:int1-DMR1	Yes	0.505019909	0.06275192	0.31676419	0.693275669	0.461599911	-0.025513124	0.585320917	0.098270882	0.496597928	0.008584894
15	25093522	cg26278136	SNRPN:int1-DMR2	Yes	0.277352295	0.07135265	0.062394346	0.491410244	0.227764502	-0.038964512	0.355507251	0.088778237	0.234233372	0.032495462
15	25123288	cg27644292	SNRPN:int1-DMR2	Yes	0.680037576	0.054291854	0.517162015	0.842913137	0.692837826	0.042573871	0.738774612	0.048510657	0.675458232	0.007194721
15	25123382	cg08560373	SNRPN:int1-DMR2	Yes	0.375143916	0.087276323	0.113314948	0.636972885	0.390814185	0.030243562	0.439216028	0.078645406	0.297741671	0.062828952
15	25123492	cg25657700	SNRPN:int1-DMR2	Yes	0.809552066	0.035267293	0.704150186	0.915753945	0.777149075	0.001802517	0.850895679	0.075491222	0.817613033	0.042266476
15	25123689	cg01786704	SNRPN:int1-DMR2	Yes	0.520619265	0.124390517	0.147447715	0.893790814	0.513424636	0.019318138	0.503555212	0.009448714	0.477882676	0.016246321
15	25123732	cg21870668	SNRPN:int1-DMR2	Yes	0.561789882	0.063316986	0.371838925	0.751740839	0.527193075	-0.00830436	0.668985451	0.133488016	0.560017334	0.024519899
15	25200134	cg17910621	SNURF:TSS-DMR	NA	0.647227168	0.025962339	0.56934015	0.725114186	0.614618572	-0.003932174	0.678652137	0.060110391	0.637805983	0.019252537
15	25200146	cg04072648	SNURF:TSS-DMR	NA	0.641291456	0.032321584	0.541596705	0.740986206	0.647286138	0.034108295	0.648442982	0.03526514	0.638800279	0.02523247
15	25200203	cg17503663	SNURF:TSS-DMR	NA	0.737996683	0.0282384	0.653281484	0.822711882	0.741543262	0.036162996	0.745630896	0.04025063	0.752191763	0.046811497
15	25200254	cg18506622	SNURF:TSS-DMR	Yes	0.613373509	0.043975841	0.481445985	0.745301033	0.619794768	-0.014834321	0.662090195	0.075477405	0.597380012	0.010848222
15	25200407	cg02125271	SNURF:TSS-DMR	Yes	0.861319399	0.016811734	0.810884198	0.911574601	0.849451554	0.024474889	0.878361114	0.053344449	0.861493877	0.036517212
15	25201021	cg22159025	SNURF:TSS-DMR	Yes	0.544162658	0.045111048	0.48829515	0.679495802	0.604886635	0.084201619	0.55799387	0.143832921	0.715498604	0.06476862
15	25201225	cg22555495	SNURF:TSS-DMR	Yes	0.629732015	0.035448233	0.523387135	0.736076715	0.613997439	0.012597083	0.644079613	0.042679257	0.636311146	0.034910789
15	25201430	cg01614456	SNURF:TSS-DMR	Yes	0.621085372	0.039646543	0.502685744	0.739485	0.607340538	0.015391703	0.640273039	0.053121473	0.640728139	0.048779403
15	25201733	cg13073261	SNURF:TSS-DMR	Yes	0.512355957	0.03116205	0.417501145	0.607210768	0.515122817	0.025373482	0.54298604	0.053236705	0.505793195	0.01604386
15	25227037	cg05894557	PWAR	Yes	0.935998743	0.017240653	0.884276783	0.987720703	0.927204109	0.030860128	0.95637821	0.06003423	0.941934852	0.054590871
15	25229257	cg26410550	PWAR	Yes	0.957160145	0.014684996	0.913105157	1.001215133	0.917194434	0.054917826	0.942254541	0.025877933	0.969262461	0.052885854
15	25229523	cg02891726	PWAR	Yes	0.968931364	0.007095018	0.974764631	0.990216418	0.971575655	0.043353376	0.975266946	0.047046667	0.962204352	0.033982073
15	25230201	cg18560144	PWAR	Yes	0.981531789	0.004753363	0.967271701	0.995791877	0.988340769	0.047962206	0.978802281	0.076363572	0.979962782	0.039544074
15	25230296	cg18488946	PWAR	Yes	0.833766625	0.04108521	0.710510995	0.925022255	0.875507895	0.027052867	0.850063062	0.051575598	0.852682443	0.054227415
15	25230465	cg13999477	SNORD116	Yes	0.959376402	0.014173994	0.916854421	1.001898382	0.942537333	0.055706695	0.966519494	0.016760859	0.934107426	0.015238791
15	25230572	cg03381111	SNORD116	Yes	0.82830901	0.03149528	0.737860428	0.918757593	0.836889436	0.045019125	0.794829156	0.002958845	0.858187511	0.0663171
15	25230629	cg10832166	SNORD116	Yes	0.970469086	0.007764243	0.947614638	0.993491814	0.963518238	0.033723799	0.976257273	0.046462834	0.975486047	0.004991608
15	25230820	cg22832571	SNORD116	Yes	0.979745479	0.006680801	0.959703015	0.999787884	0.985159898	0.046385262	0.987304134	0.048529497	0.970649336	0.023184699
15	25230857	cg03709297	SNORD116	Yes	0.972179464	0.006495049	0.952094318	0.99166461	0.977356674	0.045923363	0.979853648	0.048420337	0.97032978	0.03597699
15	25230858	cg03432464	SNORD116	Yes	0.921910272	0.019747874	0.862666649	0.981153894	0.931947182	0.049148318	0.927907519	0.045108655	0.904637401	0.02183573
15	25230918	cg03840075	SNORD116	Yes	0.979206434	0.005629498	0.962317942	0.996094927	0.985285924	0.046744135	0.929423615	0.04881827	0.937648819	0.025107031
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0.969660506	1.001023476	0.981841906	0.037313812	0.99130649	0.046778396	0.9859583	0.041420603
15	25230973	cg00475883	SNORD116	Yes	0.985491991	0.005171622	0							

16	3493615	cg03933495	ZNF597:TSS-DMR	Yes	0.419640767	0.076639347	0.189722726	0.649558808	0.374980848	-0.024033787	0.427511861	0.028497226	0.449006614	0.049991979
16	3493642	cg24027317	ZNF597:TSS-DMR	NA	0.571474455	0.057215837	0.399826943	0.743121967	0.575848016	0.031530925	0.576286767	0.031969676	0.531565389	-0.012751702
16	3493682	cg20460547	ZNF597:TSS-DMR	Yes	0.524798627	0.055556111	0.358130294	0.691466959	0.501377311	0.031474827	0.501360024	0.000857539	0.520306814	-0.019011919
16	3493688	cg01344564	ZNF597:TSS-DMR	NA	0.548289621	0.048430826	0.402997144	0.693582098	0.532513308	0.008377135	0.534338688	0.102025144	0.542603558	0.022067385
16	3493816	cg02918062	ZNF597:TSS-DMR	Yes	0.509021228	0.057892526	0.335343665	0.682698806	0.488672388	0.003895396	0.514590664	0.029813179	0.528014133	0.043263648
16	3494007	cg14372630	ZNF597:TSS-DMR	NA	0.433209964	0.046741852	0.292884408	0.575435252	0.365897392	-0.046326255	0.447498339	0.035982333	0.470665966	0.06813595
16	3494095	cg10406616	ZNF597:TSS-DMR	Yes	0.585070615	0.052826258	0.411021184	0.579923939	0.591555277	0.033707646	0.524487748	0.015000117	0.476603444	0.046215813
16	3494156	cg06121207	ZNF597:TSS-DMR	Yes	0.582668351	0.057609627	0.409839471	0.755497231	0.550645737	-0.008015466	0.58323594	0.024560597	0.636676161	0.078013163
19	5400775	cg20646939	ZNF331:alt-TSS-DMR1	Yes	0.525767886	0.054211572	0.36313168	0.688402603	0.505642573	0.053196466	0.51694988	0.01775899	0.547218357	0.048012266
19	5400814	cg06855497	ZNF331:alt-TSS-DMR1	Yes	0.573568947	0.047078248	0.433342055	0.71480369	0.549519903	0.002793249	0.591798232	0.045071569	0.564391729	0.017665075
19	5400819	cg15576576	ZNF331:alt-TSS-DMR1	Yes	0.592122854	0.034260092	0.489234257	0.694901311	0.569474731	0.001290381	0.605531161	0.037346811	0.585896728	0.017712378
19	5400837	cg16026074	ZNF331:alt-TSS-DMR1	NA	0.508979857	0.088414318	0.243736904	0.774222809	0.444281961	-0.038679964	0.510008454	0.027046529	0.542817591	0.059855666
19	5401164	cg22475353	ZNF331:alt-TSS-DMR1	Yes	0.338892829	0.031110007	0.245562809	0.43222285	0.329621416	0.005307388	0.326223187	0.001909159	0.370190959	0.045795531
19	5401252	cg27296330	ZNF331:alt-TSS-DMR1	Yes	0.318810596	0.044278111	0.185976263	0.45164493	0.321639701	0.018793644	0.320425787	0.011757973	0.311196142	0.005850085
19	5401304	cg10023249	ZNF331:alt-TSS-DMR1	Yes	0.200711896	0.036733398	0.090511701	0.310912099	0.180984794	-0.013179445	0.21720697	0.023043732	0.201437372	0.00723134
19	5401309	cg15607708	ZNF331:alt-TSS-DMR1	Yes	0.299751289	0.035158568	0.194275584	0.405226994	0.279167874	-0.009344289	0.293849405	0.005337243	0.334430175	0.045918012
19	5401399	cg05338009	ZNF331:alt-TSS-DMR1	Yes	0.448773885	0.086975112	0.18784855	0.709699221	0.455948042	0.026902489	0.449718775	0.02673222	0.46145604	0.032410487
19	5401450	cg03643149	ZNF331:alt-TSS-DMR1	NA	0.448898986	0.034677392	0.344866809	0.552931162	0.432016408	0.001799299	0.472426502	0.042209321	0.456163984	0.025946803
19	5401848	cg14593036	ZNF331:alt-TSS-DMR1	NA	0.483750558	0.055163132	0.318261162	0.642939953	0.478501566	0.018051505	0.508827671	0.04837761	0.478243478	0.01793417
19	5401857	cg03499639	ZNF331:alt-TSS-DMR1	Yes	0.547489682	0.059252164	0.368920189	0.760959175	0.587098221	-0.005183716	0.58701862	0.064836383	0.52945757	0.0307652
19	54057209	cg06860848	ZNF331:alt-TSS-DMR2	Yes	0.574460786	0.052548867	0.416814186	0.732107386	0.57966416	0.033597494	0.60013781	0.054071145	0.547490921	0.013242356
19	54057416	cg03113572	ZNF331:alt-TSS-DMR2	Yes	0.653742512	0.065328159	0.457578034	0.84972699	0.606898039	-0.015819786	0.682105161	0.059387337	0.669574731	0.046869606
19	54057616	cg17223707	ZNF331:alt-TSS-DMR2	NA	0.599833416	0.055156206	0.434647977	0.765302034	0.590204063	0.018837837	0.615325832	0.04399607	0.61014648	0.028780255
19	54057672	cg10823956	ZNF331:alt-TSS-DMR2	NA	0.536456035	0.039078944	0.419219202	0.653692867	0.510694148	-0.00309791	0.534630002	0.020837944	0.538151373	0.02359315
19	54057796	cg19696981	ZNF331:alt-TSS-DMR2	Yes	0.385877182	0.034249504	0.283128669	0.488625695	0.332229099	0.006457036	0.377952988	0.011187115	0.410953837	0.044187964
19	54057795	cg03490784	ZNF331:alt-TSS-DMR2	NA	0.531243032	0.080078019	0.281260959	0.771477089	0.545789194	0.039159857	0.52591938	0.019290043	0.510461043	0.07431707
19	54057813	cg22811518	ZNF331:alt-TSS-DMR2	NA	0.686406504	0.080148682	0.445965917	0.926847091	0.612124485	-0.041333445	0.711821391	0.054363461	0.71290503	0.005447573
19	54057900	cg21307424	ZNF331:alt-TSS-DMR2	NA	0.564886961	0.032599949	0.467807113	0.662686809	0.566734331	0.005127195	0.581251004	0.039652868	0.542513529	0.005991393
19	54057917	cg12551529	ZNF331:alt-TSS-DMR2	NA	0.524911342	0.036515535	0.416449377	0.633376747	0.484733009	-0.014399754	0.54184436	0.042711515	0.554471649	0.025538804
19	54058086	cg200717427	ZNF331:alt-TSS-DMR2	Yes	0.633995149	0.079057567	0.460279048	0.708711251	0.623208251	0.020216568	0.655578568	0.026518987	0.626527304	0.065237034
19	57348530	cg14902495	PEG3:TSS-DMR	NA	0.391372809	0.071214395	0.17729623	0.605015995	0.330312817	-0.038953381	0.33458657	-0.03580742	0.473156057	0.103898959
19	57349205	cg15473155	PEG3:TSS-DMR	Yes	0.571026301	0.026902527	0.49031872	0.651733881	0.678369762	0.025953524	0.618764923	0.037848685	0.527958853	-0.01117384
19	57349680	cg19041006	PEG3:TSS-DMR	Yes	0.611109613	0.036761275	0.500825786	0.721393439	0.569469937	-0.014856014	0.645056882	0.060730931	0.602102225	0.01776275
19	57349710	cg17663463	PEG3:TSS-DMR	Yes	0.736398626	0.035446882	0.630057981	0.842739272	0.666958243	-0.036179176	0.773129458	0.066929039	0.770251179	0.06738376
19	57349816	cg19771589	PEG3:TSS-DMR	Yes	0.653393107	0.034374963	0.550268219	0.756517995	0.62004533	-0.004072748	0.680813767	0.056695688	0.646006042	0.021887964
19	57350007	cg02793099	PEG3:TSS-DMR	Yes	0.590415441	0.022210995	0.523752155	0.657078727	0.589592354	0.020271487	0.626929306	0.061268439	0.571154173	0.005493306
19	57350097	cg01656470	PEG3:TSS-DMR	Yes	0.72816439	0.024999354	0.653166632	0.803162409	0.67149878	0.00015387	0.743461207	0.0464452	0.736020139	0.03900412
19	57350293	cg17519373	PEG3:TSS-DMR	Yes	0.781373256	0.033402466	0.681165859	0.881580653	0.831025823	0.084967075	0.751978023	0.005920901	0.879129206	0.041072084
19	57350314	cg18516833	PEG3:TSS-DMR	NA	0.856139905	0.026029213	0.778052265	0.934272545	0.875972037	0.056145234	0.819502309	-0.007766599	0.867943131	0.048114162
19	57350504	cg07310951	PEG3:TSS-DMR	Yes	0.570518396	0.046393975	0.431336472	0.709700321	0.599198896	0.056360225	0.515052548	-0.027786123	0.590123307	0.042784636
19	57351214	cg20897667	PEG3:TSS-DMR	Yes	0.669328709	0.034014213	0.56728607	0.771371349	0.678323834	0.038745709	0.668352729	0.028866044	0.670424213	0.033954007
19	57351323	cg02478023	PEG3:TSS-DMR	Yes	0.627955552	0.028614586	0.542111793	0.71379931	0.633999033	0.032809678	0.593166065	0.00742329	0.66501571	0.06426354
19	57351441	cg22354595	PEG3:TSS-DMR	Yes	0.650629029	0.033293808	0.550747606	0.750510453	0.621353539	0.001658386	0.668080806	0.045133653	0.675623464	0.05412831
19	57351643	cg19335327	PEG3:TSS-DMR	Yes	0.627204462	0.044570303	0.493488357	0.760920566	0.612805556	0.014813479	0.607558076	0.009566	0.648059501	0.050132425
19	57351792	cg14849423	PEG3:TSS-DMR	Yes	0.698876939	0.032512015	0.601344499	0.976409378	0.677283558	0.009983057	0.672327245	0.010322424	0.746416674	0.019716173
19	57352015	cg15777825	PEG3:TSS-DMR	Yes	0.536651949	0.018991106	0.479678631	0.593625267	0.530844977	0.017023821	0.526433305	0.012612418	0.54611905	0.032370479
19	57352022	cg12205993	PEG3:TSS-DMR	Yes	0.556264496	0.027080052	0.475024339	0.675046252	0.557276867	0.025354745	0.657376236	0.025254515	0.566175431	0.032453309
19	57352075	cg26349266	PEG3:TSS-DMR	Yes	0.66349256	0.018400406	0.608291103	0.718694017	0.655431028	0.020884326	0.666434514	0.03188712	0.685619902	0.0510732
19	57352135	cg02162069	PEG3:TSS-DMR	Yes	0.583628216	0.03299302	0.484694156	0.682607276	0.561530038	0.003778125	0.575476092	0.017724179	0.605411783	0.04765987
19	57352143	cg13960339	PEG3:TSS-DMR	Yes	0.656356466	0.039473198	0.57956873	0.774776059	0.673043025	0.0474988	0.601675472	-0.023868752	0.685452354	0.05990163
19	57352177	cg13369939	PEG3:TSS-DMR	Yes	0.673157275	0.025197175	0.595765751	0.7487488	0.695452123	0.01538568	0.679748202	0.035434647	0.69381185	0.04907663
19	57352186	cg02062835	PEG3:TSS-DMR	Yes	0.612114968	0.035804919	0.50470021	0.719529276	0.597314698	0.012075071	0.598175519	0.012935892	0.637314839	0.052075213
19	57352253	cg22294267	PEG3:TSS-DMR	Yes	0.745437377	0.015459901	0.690972675	0.91802079	0.739901121	0.022972055	0.69621033	0.04594077	0.736400887	0.023373931
19	57352270	cg19008268	PEG3:TSS-DMR	Yes	0.63988415	0.038018171	0.525829637	0.753938663	0.640674333	0.039806512	0.649097662	0.03292984	0.611577864	0.001710043
19	57352466	cg24844423	PEG3:TSS-DMR	Yes	0.736078401	0.039847222	0.628124234	0.844032567	0.699700979	-0.002507552	0.713439866	0.029231336	0.789524991	0.089521646
19	57352520	cg15678121	PEG3:TSS-DMR	Yes	0.734251487	0.038369002	0.619144481	0.849358492	0.747558456	0.047544659	0.773855449	0.073841652	0.689527964	-0.010485833
19	57352543	cg12032885	PEG3:TSS-DMR	Yes	0.65528734	0.020998722	0.368032568	0.546224901	0.450929819	0.015150118	0.442971251			

20	42142674	cg04984575	L3MBTL1:alt-TSS-DMR	Yes	0.618430297	0.051541541	0.463805674	0.77305492	0.618578262	0.028026983	0.625975177	0.035423898	0.609605293	0.019054013
20	42142700	cg02177317	L3MBTL1:alt-TSS-DMR	Yes	0.802211346	0.023430554	0.729189685	0.875233007	0.786372433	0.019630717	0.619569574	0.052827859	0.80229571	0.025553994
20	42142752	cg020529070	L3MBTL1:alt-TSS-DMR	Yes	0.627668487	0.060934762	0.444864201	0.810472772	0.602752345	0.050245324	0.673146339	0.075293918	0.622038431	0.04353141
20	42142767	cg10360552	L3MBTL1:alt-TSS-DMR	Yes	0.622311945	0.031887079	0.526650707	0.717973183	0.594893328	3.57239E-05	0.637800134	0.04294253	0.631881037	0.037023433
20	42142785	cg18911945	L3MBTL1:alt-TSS-DMR	NA	0.538779678	0.03243285	0.441481129	0.60878228	0.502716433	-0.014109199	0.595892859	0.079067228	0.495864838	0.020961249
20	42142848	cg01877937	L3MBTL1:alt-TSS-DMR	Yes	0.602742868	0.0649951	0.407575767	0.79728169	0.592349959	0.019469559	0.620731634	0.048451234	0.605077611	0.03211971
20	42142853	cg04965376	L3MBTL1:alt-TSS-DMR	Yes	0.604953766	0.062665959	0.416955888	0.792951633	0.631143565	0.054997446	0.640192019	0.0640459	0.555968318	0.021162938
20	42142898	cg12699433	L3MBTL1:alt-TSS-DMR	Yes	0.563839828	0.066615562	0.363993143	0.763686512	0.536329578	0.001341901	0.611932006	0.07694433	0.542659027	0.007611351
20	42142948	cg11319028	L3MBTL1:alt-TSS-DMR	Yes	0.547662603	0.067735254	0.3445684	0.750863866	0.535275716	0.062186426	0.550916408	0.0509245662	0.520205824	0.006949923
20	42142996	cg22601123	L3MBTL1:alt-TSS-DMR	Yes	0.626907442	0.065575423	0.43081172	0.823633712	0.665456535	0.085840493	0.579667194	-0.019948848	0.608664259	0.009488127
20	42143016	cg22330467	L3MBTL1:alt-TSS-DMR	Yes	0.661137304	0.052247658	0.603705747	0.818567061	0.68284398	0.033756497	0.63290591	0.07176269	0.646630036	0.01512135
20	42143046	cg14306330	L3MBTL1:alt-TSS-DMR	Yes	0.496912955	0.074547796	0.273269567	0.720556344	0.528815478	0.056178957	0.455575255	-0.017061266	0.50855746	0.035920939
20	42143081	cg01071811	L3MBTL1:alt-TSS-DMR	Yes	0.695998426	0.04798825	0.553501951	0.838494901	0.674084921	0.010521875	0.752001779	0.088434233	0.648726071	-0.014841476
20	42143097	cg02611863	L3MBTL1:alt-TSS-DMR	Yes	0.677168114	0.052722212	0.519001478	0.83533475	0.687138288	0.041912563	0.694131934	0.048906209	0.658742511	-0.013516786
20	42143175	cg15330298	L3MBTL1:alt-TSS-DMR	Yes	0.717329539	0.057034031	0.546227447	0.888431632	0.728798611	0.034645393	0.770432906	0.085279687	0.674279254	-0.010873964
20	42143212	cg02052111	L3MBTL1:alt-TSS-DMR	Yes	0.629100936	0.02767164	0.546081445	0.712120427	0.632787893	0.034535147	0.645361935	0.042618139	0.597553283	-0.005190513
20	42143400	cg15302378	L3MBTL1:alt-TSS-DMR	Yes	0.733172804	0.06385184	0.623417252	0.842928357	0.753982627	0.052221708	0.729543355	0.027782437	0.726655412	0.024894943
20	42143490	cg09541000	L3MBTL1:alt-TSS-DMR	Yes	0.718545802	0.049149252	0.517098047	0.865993557	0.679249659	-0.007029496	0.575263686	0.066357231	0.694232686	0.007955331
20	42143503	cg02472486	L3MBTL1:alt-TSS-DMR	Yes	0.563327834	0.03330344	0.463417513	0.663281155	0.5661901	0.027247152	0.580688899	0.050425951	0.527429403	-0.011515845
20	57414040	cg04132853	GNAS-NESP:TSS-DMR	Yes	0.694549431	0.040894227	0.572767649	0.818142113	0.668775554	0.050007207	0.719240705	0.047072357	0.683344332	0.020175948
20	57414060	cg25900051	GNAS-NESP:TSS-DMR	Yes	0.727333255	0.032144045	0.630911902	0.823754609	0.707948816	0.013097074	0.756113359	0.061261617	0.653818181	-0.001269931
20	57414163	cg00732970	GNAS-NESP:TSS-DMR	Yes	0.578552564	0.027472451	0.494352515	0.658269913	0.60297772	0.010971766	0.573852437	0.024526483	0.54242944	0.004923487
20	57414218	cg17696847	GNAS-NESP:TSS-DMR	Yes	0.644983944	0.046138056	0.506569777	0.783398111	0.608206186	-0.006474361	0.687750436	0.073069888	0.609364001	-0.005316547
20	57414352	cg20019489	GNAS-NESP:TSS-DMR	Yes	0.84219962	0.03073787	0.734298609	0.934413231	0.855044508	0.049615344	0.851588391	0.046159227	0.837052547	0.031623383
20	57414408	cg02274728	GNAS-NESP:TSS-DMR	Yes	0.682921755	0.042139398	0.556205562	0.809339947	0.66884152	0.016396462	0.687806618	0.035361559	0.680426251	0.028017953
20	57414530	cg12054318	GNAS-NESP:TSS-DMR	Yes	0.663031602	0.036769039	0.552724486	0.773338717	0.662356769	0.028434902	0.665766707	0.03265474	0.654941382	0.021019151
20	57414540	cg25268451	GNAS-NESP:TSS-DMR	Yes	0.707049071	0.026468482	0.627643623	0.786454518	0.724244718	0.048911573	0.713354589	0.038021443	0.60292888	0.014895734
20	57414579	cg11996914	GNAS-NESP:TSS-DMR	Yes	0.59394352	0.023524823	0.552396051	0.664517988	0.586026732	0.016115767	0.61242122	0.046330255	0.578507487	0.010596222
20	57414597	cg21330323	GNAS-NESP:TSS-DMR	NA	0.560915599	0.019855455	0.501349235	0.620481963	0.560889839	0.024468147	0.572479296	0.036051233	0.557693885	0.02217692
20	57414746	cg17986446	GNAS-NESP:TSS-DMR	NA	0.714440635	0.022084833	0.648186135	0.695915135	0.718271677	0.036346332	0.70897495	0.026599606	0.705592869	0.032127524
20	57414885	cg06163629	GNAS-NESP:TSS-DMR	Yes	0.563110688	0.025856066	0.485542489	0.640678887	0.574600556	0.033442403	0.562619427	0.02146127	0.548297348	0.007139284
20	57415145	cg00765653	GNAS-NESP:TSS-DMR	Yes	0.588309518	0.01777775	0.644916912	0.67126844	0.607470779	0.041752607	0.570909403	0.013054231	0.584997386	0.022042152
20	57415178	cg14728233	GNAS-NESP:TSS-DMR	Yes	0.642586017	0.020277183	0.55154469	0.703417565	0.635237821	0.019015862	0.655642697	0.039420738	0.647017147	0.030795188
20	57415378	cg05558390	GNAS-NESP:TSS-DMR	Yes	0.368023763	0.021340854	0.3040012	0.432046326	0.379553265	0.020501789	0.3594011	0.005949623	0.353509462	0.579854E-05
20	57415698	cg19296354	GNAS-NESP:TSS-DMR	Yes	0.617449505	0.041165731	0.493952313	0.740946698	0.615865596	0.026242669	0.611640377	0.02201745	0.638058431	0.048435504
20	57415956	cg15725616	GNAS-NESP:TSS-DMR	NA	0.610685089	0.04044094	0.489362267	0.73200971	0.597224235	0.015346851	0.56677463	-0.015102754	0.614288948	0.06031069
20	57417997	cg18035618	GNAS-NESP:TSS-DMR	NA	0.688933607	0.036794666	0.574896908	0.790017605	0.675267516	0.016896362	0.683564886	0.025193712	0.771278394	0.053907219
20	57416222	cg24975842	GNAS-NESP:TSS-DMR	Yes	0.546384344	0.025917409	0.46859117	0.624100571	0.562445603	0.039605009	0.541268587	0.017887992	0.540237789	0.016857194
20	57416507	cg18619382	GNAS-NESP:TSS-DMR	Yes	0.56239112	0.03908367	0.445118108	0.679620131	0.542979589	0.006072519	0.549291904	0.008198434	0.583495337	0.046771064
20	57416889	cg01355739	GNAS-NESP:TSS-DMR	Yes	0.676001475	0.030942832	0.584522978	0.764779972	0.696564883	0.02485535	0.675416611	0.030137262	0.63861672	0.038337371
20	57417234	cg20582984	GNAS-NESP:TSS-DMR	Yes	0.775905959	0.029791861	0.686530916	0.862581002	0.665060733	0.024934587	0.718258461	0.045886314	0.786049334	0.044477187
20	57418016	cg18949315	GNAS-NESP:TSS-DMR	Yes	0.611087925	0.041567641	0.486385001	0.735790848	0.617823789	0.035212525	0.626979456	0.043368192	0.585526663	0.00291399
20	57418374	cg02544157	GNAS-NESP:TSS-DMR	NA	0.473799978	0.033168708	0.374293855	0.573306102	0.460366892	0.033915724	0.464309968	0.0131588	0.460070781	0.01586014
20	57425980	cg18935491	GNAS-ALT:TSS-DMR	Yes	0.687087114	0.024603454	0.613276751	0.760897478	0.651705308	-0.006479937	0.674790673	0.016605248	0.706656986	0.048471742
20	57425987	cg24203465	GNAS-ALT:TSS-DMR	Yes	0.59608806	0.035687416	0.60925812	0.703150308	0.566286484	-0.002986663	0.608298784	0.039025637	0.61261956	0.043346412
20	57425995	cg26102503	GNAS-ALT:TSS-DMR	Yes	0.636676202	0.042859043	0.515221192	0.758131212	0.57170983	-0.035215686	0.651738062	0.044848346	0.65886105	0.051290389
20	57426132	cg03344105	GNAS-ALT:TSS-DMR	Yes	0.653745138	0.030264065	0.558585678	0.751633528	0.632438547	0.007933766	0.68171735	0.05712268	0.626138523	0.01065374
20	57426139	cg14660776	GNAS-ALT:TSS-DMR	Yes	0.550345236	0.03730164	0.438440317	0.662205156	0.531830556	0.007086151	0.552071234	0.027326829	0.59692724	0.034882835
20	57426216	cg19592829	GNAS-ALT:TSS-DMR	Yes	0.751812584	0.024020117	0.679211932	0.824413236	0.742870935	0.023681024	0.74754589	0.023681024	0.761484958	0.042295048
20	57426265	cg09123158	GNAS-ALT:TSS-DMR	Yes	0.81627117	0.034573479	0.712550732	0.919991608	0.774963675	-0.005598178	0.869333839	0.088371985	0.800912966	0.026351113
20	57426275	cg19140375	GNAS-ALT:TSS-DMR	NA	0.314102867	0.061376919	0.129972109	0.483232625	0.60606395	-0.048401598	0.942020986	0.095194993	0.386858894	0.0018509
20	57426323	cg11669839	GNAS-ALT:TSS-DMR	Yes	0.505042235	0.042066601	0.378842432	0.631242038	0.475801362	-0.005400674	0.675928841	-0.00273195	0.528029885	0.046827848
20	57426369	cg17841572	GNAS-ALT:TSS-DMR	Yes	0.598256155	0.03228635	0.50157041	0.69492422	0.549273615	-0.022704176	0.43664644	0.064666639	0.61218087	0.02230386
20	57426375	cg25293206	GNAS-ALT:TSS-DMR	Yes	0.64864165	0.030737248	0.556429906	0.740853399	0.63300881	0.015014845	0.665191353	0.044905317	0.660918528	0.040632492
20	57426384	cg14482474	GNAS-ALT:TSS-DMR	Yes	0.638619036	0.032956511	0.539749504	0.737488569	0.603295538	-0.007056859	0.636824039	0.026471643	0.662314478	0.051962802
20	57426392	cg08168683	GNAS-ALT:TSS-DMR	Yes	0.646847322	0.024627627	0.574045522	0.719649123	0.641206317	0.020935913	0.673259281	0.052988877	0.629715541	0.009445137

20	57463456	cg20008140	GNAS-A/B:TSS-DMR	Yes	0.664602471	0.047937623	0.520789603	0.80841534	0.624056313	-0.010267509	0.651615448	0.017291626	0.687370926	0.053047104
20	57463504	cg11480267	GNAS-A/B:TSS-DMR	Yes	0.630934235	0.075757673	0.403661216	0.858207255	0.686434613	0.086006781	0.499038187	-0.101389645	0.681599934	0.081172102
20	57463528	cg10011623	GNAS-A/B:TSS-DMR	Yes	0.867350062	0.022407814	0.800126621	0.934573502	0.864228536	0.033750236	0.888475479	0.057997179	0.848485687	0.018007387
20	57463531	cg01748573	GNAS-A/B:TSS-DMR	Yes	0.601805382	0.028513549	0.516264735	0.687346029	0.570246269	-0.005337131	0.600218953	0.024635552	0.618851486	0.043268805
20	57463573	cg17334845	GNAS-A/B:TSS-DMR	Yes	0.536661076	0.042888577	0.407995345	0.665326807	0.538599464	0.027971246	0.517162409	0.006534191	0.542100343	0.031472124
20	57463616	cg26769900	GNAS-A/B:TSS-DMR	Yes	0.537638873	0.03483059	0.433147103	0.642130643	0.569387256	0.055388763	0.528887784	0.01488929	0.544530305	0.030531811
20	57463654	cg17652507	GNAS-A/B:TSS-DMR	Yes	0.566560754	0.034235634	0.46385385	0.669267657	0.586716295	0.045211003	0.54764757	0.006142278	0.576684959	0.035179667
20	57463659	cg22407822	GNAS-A/B:TSS-DMR	Yes	0.639615499	0.035479615	0.533176654	0.746054343	0.628871882	0.014497089	0.627707325	0.013332532	0.667219498	0.052844705
20	57463712	cg07341934	GNAS-A/B:TSS-DMR	Yes	0.631005868	0.040826029	0.508527781	0.753483954	0.592474694	-0.010109649	0.640107481	0.07523138	0.638950186	0.036365843
20	57463714	cg02107718	GNAS-A/B:TSS-DMR	Yes	0.600156542	0.044682283	0.466109694	0.73420339	0.566733258	-0.005567079	0.605976776	0.033676439	0.612846718	0.04054638
20	57463726	cg123496597	GNAS-A/B:TSS-DMR	Yes	0.553435075	0.029440604	0.480221263	0.626648887	0.559213989	0.027944841	0.548519788	0.017250639	0.563659441	0.022390292
20	57463764	cg25308079	GNAS-A/B:TSS-DMR	Yes	0.648081092	0.01974555	0.588844443	0.707317741	0.658474707	0.037273122	0.642916847	0.021715262	0.636041191	0.014839605
20	57463776	cg09772382	GNAS-A/B:TSS-DMR	Yes	0.66502618	0.019254207	0.607263559	0.722788802	0.651018389	0.014544774	0.639741343	0.003267728	0.690515792	0.054042177
20	57463784	cg15222215	GNAS-A/B:TSS-DMR	Yes	0.598484151	0.020580159	0.536743673	0.660224629	0.614467721	0.041295817	0.581500143	0.00832824	0.596620319	0.023448416
20	57463788	cg14263118	GNAS-A/B:TSS-DMR	Yes	0.601989726	0.020683443	0.539939396	0.664040057	0.586527575	0.009393478	0.619712386	0.02547829	0.598345855	0.021211759
20	57463901	cg11244758	GNAS-A/B:TSS-DMR	Yes	0.584443472	0.029182292	0.518496597	0.650390348	0.582884369	0.023940165	0.578967392	0.020064188	0.601191738	0.042288534
20	57463907	cg05926269	GNAS-A/B:TSS-DMR	Yes	0.773655271	0.026868016	0.693051225	0.854259318	0.779192916	0.038654158	0.775245449	0.034706691	0.767069152	0.026530394
20	57463926	cg03821543	GNAS-A/B:TSS-DMR	Yes	0.480551257	0.031948702	0.384705152	0.576397362	0.471792317	0.013041225	0.486863433	0.028112342	0.510941921	0.052190829
20	57463975	cg01538522	GNAS-A/B:TSS-DMR	Yes	0.451695757	0.046759413	0.311417517	0.591973997	0.466488154	0.037507105	0.406621509	-0.02235954	0.473694739	0.044713609
20	57463985	cg00267746	GNAS-A/B:TSS-DMR	Yes	0.475924634	0.027780419	0.392583378	0.559265889	0.472287384	0.017508777	0.488711856	0.033933242	0.466748664	0.01197005
20	57464001	cg03837903	GNAS-A/B:TSS-DMR	Yes	0.556024819	0.064709403	0.361896609	0.750153029	0.594891359	0.065664239	0.454823493	-0.074403627	0.615258293	0.086031173
20	57464003	cg23159236	GNAS-A/B:TSS-DMR	Yes	0.413919167	0.029512473	0.325381747	0.502456587	0.422102994	-0.02436618	0.371998526	-0.02436618	0.437117166	0.040752461
20	57464130	cg22798925	GNAS-A/B:TSS-DMR	Yes	0.538786449	0.027966919	0.454885694	0.622687205	0.52142282	0.005622078	0.529725757	0.013925015	0.551379945	0.03579203
20	57464572	cg20126878	GNAS-A/B:TSS-DMR	Yes	0.565542136	0.040878962	0.442905249	0.688179022	0.548839565	0.00962725	0.548147941	0.008935626	0.580110094	0.040897778
20	57464743	cg027207803	GNAS-A/B:TSS-DMR	Yes	0.662595908	0.039503128	0.544086525	0.781105292	0.649060117	0.017022715	0.658271208	0.026233806	0.686664719	0.054627318
20	57464971	cg08997444	GNAS-A/B:TSS-DMR	Yes	0.74107729	0.031657441	0.646104966	0.836049613	0.721697946	-0.013825254	0.723812293	0.0159396	0.76255655	0.054683857
20	57464974	cg22639787	GNAS-A/B:TSS-DMR	Yes	0.726015138	0.02754255	0.643387487	0.808642789	0.680953813	-0.012661103	0.745079687	0.051464861	0.733003406	0.039388579
20	57465124	cg05960039	GNAS-A/B:TSS-DMR	Yes	0.362876016	0.026644555	0.282942351	0.442809681	0.366046789	0.019334015	0.369418627	-0.02705243	0.332377818	-0.014335566
20	57465126	cg09604333	GNAS-A/B:TSS-DMR	Yes	0.452138529	0.023077855	0.382904965	0.521372093	0.448177477	0.015847928	0.422758366	-0.009571183	0.470972702	0.038643153
20	57465133	cg06047881	GNAS-A/B:TSS-DMR	Yes	0.544120868	0.045315028	0.408175784	0.680065952	0.551235095	0.031337634	0.524315033	0.004417572	0.567540112	0.04764265
20	57465140	cg20018057	GNAS-A/B:TSS-DMR	Yes	0.52201858	0.047077437	0.380786269	0.66325089	0.544233299	0.045558698	0.470236584	-0.028438017	0.533341934	0.034667333
20	57465176	cg10748817	GNAS-A/B:TSS-DMR	Yes	0.579010419	0.028169527	0.494501837	0.663519	0.551523097	-0.001089257	0.58757879	0.013366436	0.606940197	0.050727842
21	15352609	cg00566515	ANKRD20A11P	Yes	0.294193795	0.09558584	0.007436275	0.580951316	0.445781356	0.160553196	0.231253865	-0.053074294	0.347471322	0.062243162
21	15352849	cg02197629	ANKRD20A11P	Yes	0.388582627	0.136907375	-0.022139498	0.799304753	0.711271152	0.332154159	0.348155501	-0.030961492	0.331622708	-0.047494285
21	15436261	cg25507885	LIPI	Yes	0.858512196	0.025103828	0.783200711	0.933823681	0.876554155	0.055981164	0.876889892	0.056316901	0.863227109	0.042654118
21	15456606	cg19509405	LIPI	Yes	0.991560837	0.003107619	0.982379799	1.000883694	0.991584852	0.041366073	0.990497187	0.040278408	0.99561874	0.04539996
21	15457267	cg24114772	LIPI	Yes	0.978512119	0.003707508	0.967389596	0.989634642	0.981476881	0.043853473	0.978913897	0.041290489	0.977692584	0.040069176
21	40757692	cg00606841	WRB:alt-TSS-DMR	Yes	0.671455348	0.049243202	0.523725742	0.819184954	0.60029097	-0.039703013	0.69488256	0.054888578	0.70174356	0.061749578
21	40757900	cg26710963	WRB:alt-TSS-DMR	Yes	0.55027174	0.044604284	0.416458889	0.684084591	0.522390648	-0.000724579	0.574154414	0.051039187	0.55825257	0.035137343
21	40758209	cg09916765	WRB:alt-TSS-DMR	Yes	0.351325964	0.084025072	0.099250747	0.603401181	0.376594401	0.040175846	0.406221633	0.069803077	0.249018684	0.087399872
22	42077940	cg06781532	SNU13:alt-TSS-DMR	Yes	0.745434717	0.040246784	0.624694366	0.866175067	0.761821	0.047675372	0.733011084	0.018865456	0.774276926	0.060131298
22	42078218	cg18152773	SNU13:alt-TSS-DMR	Yes	0.483397619	0.051482852	0.328949062	0.637846177	0.459014181	-0.001627292	0.455320115	-0.005321359	0.52733809	0.066696617
22	42078331	cg05871614	SNU13:alt-TSS-DMR	Yes	0.586945538	0.059696579	0.407855802	0.766035274	0.584685701	0.024662841	0.578473013	0.018450153	0.588315613	0.028292753
22	42078366	cg22083753	SNU13:alt-TSS-DMR	Yes	0.536060223	0.057957854	0.36213266	0.709879785	0.491772575	-0.019145863	0.527342388	0.01642395	0.595814744	0.084896306
22	42078389	cg15284719	SNU13:alt-TSS-DMR	Yes	0.500105079	0.051468703	0.345698969	0.65451119	0.484964526	0.007152359	0.508601238	0.030789071	0.513921552	0.036109385
22	42078568	cg08686092	SNU13:alt-TSS-DMR	Yes	0.523900565	0.057983443	0.349950237	0.697850893	0.530387508	0.029963968	0.528025837	0.027602296	0.508761621	0.008338081
22	42078708	cg11677105	SNU13:alt-TSS-DMR	Yes	0.411047251	0.072603294	0.193237368	0.628857134	0.376576105	-0.017176314	0.411627079	0.01787466	0.404867605	0.01115187

DMR, Differentially methylated region; 450k, Illumina 450K BeadChip Arrays; and SD, standard deviation.

The names of DMRs are based on the previous reports by Monk et al. [1] and Joshi et al. [2].

DMRs shown in bold letters are described in Monk et al. or in both Monk et al. and Joshi et al., and those shown in plain letters are described in Joshi et al. but not in Monk et al.

Beta values < mean - 3 SD and > mean + 3 SD are written in green and red numbers, respectively.

Delta beta values < 0.05 and > 0.05 are highlighted with green and red backgrounds, respectively.

The probes with age-related drift and sex-bias have been excluded.

References

- Monk D, Morales J, den Dunnen JT, Russo S, Court F, Prawitt D, et al. Recommendations for a nomenclature system for reporting methylation aberrations in imprinted domains. *Epigenetics*. 2018;13:117–21.
- Joshi RS, Garg P, Zaitlen N, Lappalainen T, Watson CT, Azam N, et al. DNA Methylation Profiling of Uniparental Disomy Subjects Provides a Map of Parental Epigenetic Bias in the Human Genome. *Am J Hum Genet*. 2016;99:555–66.