

Supplemental Material to:

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Lipsanen-Nyman, Lovisa E Reinius, Sini Ezer, Dario Greco,
and Juha Kere**

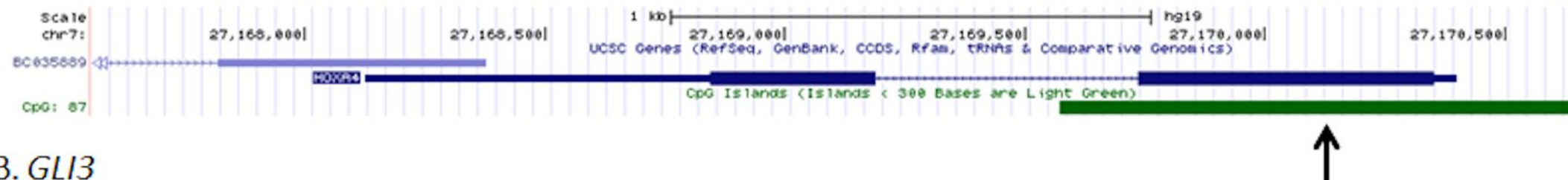
**Differentially methylated regions in maternal and paternal
uniparental disomy for chromosome 7**

Epigenetics 2013; 9(3)

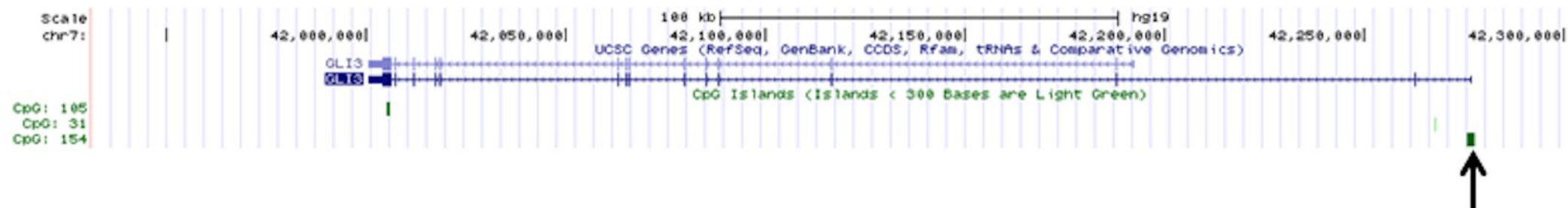
<http://dx.doi.org/10.4161/epi.27160>

**[http://www.landesbioscience.com/journals/epigenetics/
article/27160/](http://www.landesbioscience.com/journals/epigenetics/article/27160/)**

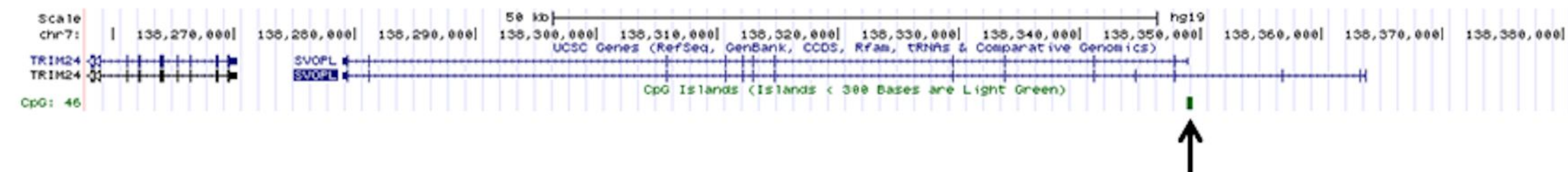
A. *HOXA4*



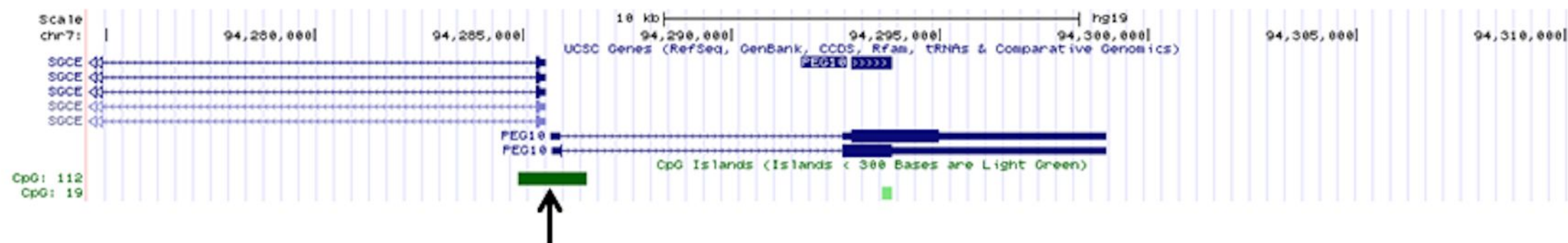
B. *GLI3*



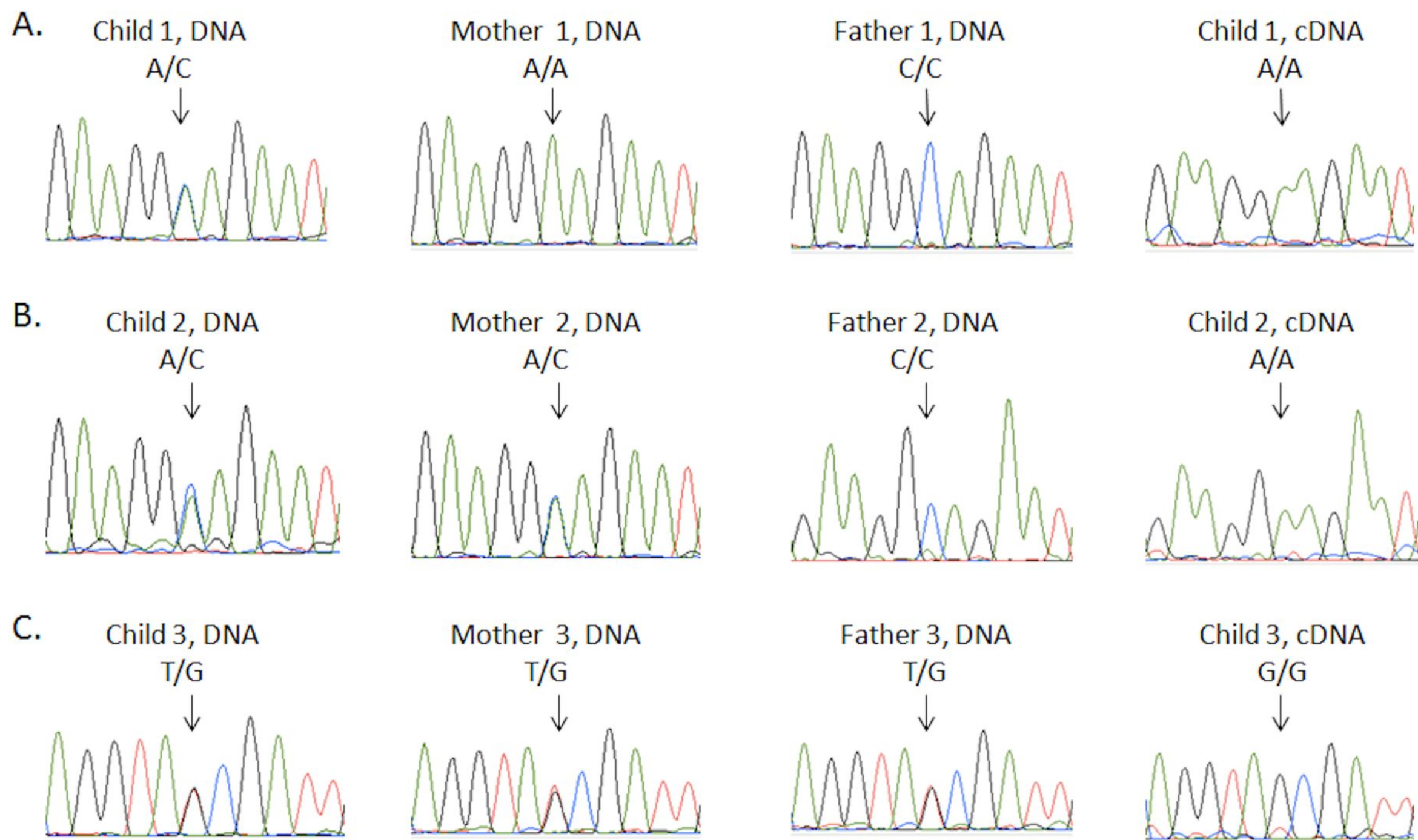
C. *SVOPL*



D. *PEG10*



Supplementary Figure 1. Location of DMRs in relation to genes with imprinted expression. A. *HOXA4*, B. *GLI3*, C. *SVOPL*, and D. *PEG10*. The arrow indicates the CpG identified as a DMR. Plots are according to the UCSC genome browser.



Supplementary Figure 2. Imprinted expression of *SVOPL* from the maternal allele and monoallelic expression of *HOXA4*. Child 1 (A.) and child 2 (B.), were heterozygous for the *SVOPL* exonic SNP rs2305816 in genomic DNA. Sequencing of the children's cDNA showed that only the maternal allele was expressed. Child 3 (C.) was heterozygous for the *HOXA4* exonic SNP rs2158218 in genomic DNA, and cDNA sequencing showed monoallelic expression.

Supplementary Table 1. Maternally hypermethylated CpGs that passed filters one and two. Start and end coordinates are ± 25 bp from Illumina MAPINFO.

UCSC REFGENE NAME	UCSC REFGENE ACCESSION	START bp	END bp
		31442	31492
		75629	75679
HEATR2;PRKAR1B	NM_017802;NM_001164760;NM_001164759;NM_001164758	766298	766348
C7orf50	NM_001134395;NM_032350;NM_001134396	1076031	1076081
GPER;C7orf50	NM_001039966; NM_001134395; NM_001505;NM_032350;NM_001134396;NM_001098201	1126736	1126786
INTS1	NM_001080453	1531680	1531730
INTS1	NM_001080453	1543981	1544031
MAFK	NM_002360	1576991	1577041
		1661574	1661624
		1792753	1792803
MAD1L1	NM_003550;NM_001013837;NM_001013836	2048735	2048785
IQCE	NM_001100390;NM_152558	2637991	2638041
IQCE	NM_001100390;NM_152558	2646930	2646980
IQCE	NM_001100390;NM_152558	2647014	2647064
IQCE	NM_001100390;NM_152558	2647827	2647877
AMZ1	NM_133463	2740177	2740227
SDK1	NM_152744	4150728	4150778
SDK1	NR_027816;NM_152744	4228750	4228800
SDK1	NR_027816;NM_152744	4230118	4230168
SDK1	NR_027816;NM_152744	4260942	4260992
SDK1	NR_027816;NM_152744	4303168	4303218
RADIL	NM_018059	4858242	4858292
RADIL	NM_018059	4862324	4862374
PAPOLB;RADIL	NM_020144;NM_018059	4901773	4901823
		5275969	5276019
SLC29A4	NM_153247;NM_001040661	5336688	5336738
		5599880	5599930
CYTH3	NM_004227	6204838	6204888
C7orf70	NM_001037163	6388713	6388763
ZNF12	NM_016265;NM_006956	6746625	6746675
THSD7A	NM_015204	11871510	11871560
ETV1	NM_001163148;NM_004956;NM_001163149;NM_001163147	14028990	14029040
ETV1	NM_001163148;NM_004956;NM_001163149;NM_001163147	14030102	14030152
ETV1	NM_001163148;NM_004956;NM_001163147; NM_001163149	14030997	14031047
DGKB	NM_145695;NM_004080	14380756	14380806
		16890744	16890794
AHR	NM_001621	17338235	17338285
PRPS1L1	NM_175886	18067483	18067533
		21370287	21370337
RAPGEF5	NM_012294	22193576	22193626
RAPGEF5	NM_012294	22371005	22371055
		22629449	22629499
RPS2P32	NR_026676	23529974	23530024
RPS2P32	NR_026676	23530215	23530265
RPS2P32	NR_026676	23530424	23530474
RPS2P32	NR_026676	23530608	23530658
RPS2P32	NR_026676	23530664	23530714
RPS2P32	NR_026676	23530785	23530835

NPY	NM_000905	24325346	24325396
C7orf31	NM_138811	25219815	25219865
NFE2L3	NM_004289	26193084	26193134
HOXA5	NM_019102	27181646	27181696
HOXA5	NM_019102	27183661	27183711
HOXA5	NM_019102	27183669	27183719
HOXA5	NM_019102	27183921	27183971
HOXA5	NM_019102	27183948	27183998
HOXA5	NM_019102	27184084	27184134
HOXA5	NM_019102	27184151	27184201
HOXA6	NM_024014	27185257	27185307
HOXA6	NM_024014	27185487	27185537
HOXA6	NM_024014	27186651	27186701
HOXA6	NM_024014	27186968	27187018
HOXA11AS;HOXA11	NR_002795;NM_005523	27224286	27224336
CREB5	NM_004904;NM_182899;NM_182898	28507854	28507904
		29599870	29599920
ZNRF2	NM_147128	30324557	30324607
RP9	NM_203288	33146783	33146833
		34521620	34521670
		35578485	35578535
SEPT7	NM_001011553;NM_001788	35840488	35840538
SFRP4	NM_003014	37955598	37955648
		38350439	38350489
C7orf10	NM_024728	40819144	40819194
GLI3	NM_000168	42195850	42195900
HECW1	NM_015052	43204481	43204531
HECW1	NM_015052	43300717	43300767
HECW1	NM_015052	43577009	43577059
C7orf44	NM_018224	43768771	43768821
POLM	NM_013284	44122045	44122095
PPIA	NM_021130	44836116	44836166
		44965368	44965418
IKZF1	NM_006060	50344446	50344496
GRB10	NM_001001555	50849614	50849664
GRB10	NM_001001555	50849698	50849748
GRB10	NM_001001555	50849780	50849830
GRB10	NM_001001555	50849906	50849956
GRB10	NM_001001555	50850539	50850589
GRB10	NM_001001555	50850845	50850895
		51050569	51050619
		51456774	51456824
		55022542	55022592
		55955133	55955183
SUMF2	NM_001042470;NM_001042469;NM_001146333; NM_001130069;NM_015411	56147232	56147282
PHKG1	NM_006213	56160886	56160936
CHCHD2	NM_016139	56172465	56172515
		56879076	56879126
		56951312	56951362
LOC642006	NR_030766	57247682	57247732
		63217196	63217246
		64300406	64300456
		64333113	64333163
		65037695	65037745
GUSB	NM_000181	65447113	65447163
TPST1	NM_003596	65746827	65746877
		66751232	66751282

PMS2L4;STAG3L4	NR_022007;NM_022906	66767484	66767534
AUTS2	NM_015570;NM_001127231	70159315	70159365
TBL2	NM_012453	72992697	72992747
		73270230	73270280
ELN	NM_001081752;NM_000501;NM_001081754;NM_001081753;NM_001081755	73441809	73441859
GATSL2	NM_001145064	74867577	74867627
POR	NM_000941	75544336	75544386
		75799619	75799669
SRRM3	NM_001110199	75831207	75831257
YWHAG	NM_012479	75959178	75959228
TMEM60;PHTF2	NM_032936;NM_001127360;NM_001127358	77427705	77427755
PHTF2;TMEM60	NM_001127360;NM_001127358;NM_032936	77427828	77427878
PCLO	NM_014510;NM_033026	82792320	82792370
DMTF1	NM_001142327;NM_021145;NM_001142326;NR_024550;NR_024549	86781733	86781783
CLDN12	NM_012129	90031324	90031374
AKAP9	NM_005751;NM_147185	91569941	91569991
		92175070	92175120
CDK6	NM_001145306	92466142	92466192
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PEG10	NM_015068;NM_001040152	94287186	94287236
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PON3	NM_000940	95025804	95025854
		96220160	96220210
DLX6AS	NR_015448	96643661	96643711
LMTK2	NM_014916	97836222	97836272
NPTX2	NM_002523	98250000	98250050
ARPC1A	NM_006409	98957303	98957353
CPSF4;PTCD1	NM_001081559;NM_006693;NM_015545	99036816	99036866
PILRB;PMS2L1	NM_013440;NR_003613;NM_175047	99933476	99933526
C7orf47	NM_145030	100033913	100033963
		100291866	100291916
POP7	NM_005837	100303704	100303754
EPHB4	NM_004444	100425050	100425100
		101398127	101398177
		101398152	101398202
SPDYE6	NM_001146210	101991164	101991214
MLL5;LOC100216545	NM_182931;NM_018682;NR_024586	104654479	104654529
NRCAM	NM_001037133;NM_001037132;NM_005010	107798522	107798572
EIF3IP1	NR_003024	109600400	109600450
DOCK4	NM_014705	111784453	111784503
C7orf60	NM_152556	112579484	112579534
		113726848	113726898
		115995909	115995959
ST7	NM_018412;NM_021908	116638097	116638147
		118741390	118741440
C7orf58	NM_001105533;NM_024913	120662768	120662818
TAS2R16	NM_016945	122635001	122635051
		122900122	122900172
		123820715	123820765
		123978156	123978206
GRM8	NM_001127323;NR_028041;NM_000845	126829489	126829539
ARF5	NM_001662	127228197	127228247
SND1	NM_014390	127292198	127292248
RBM28	NM_001166135;NM_018077	127983875	127983925
C7orf68	NM_001098786;NM_013332	128095546	128095596
METTL2B	NM_018396	128116942	128116992
FLNC	NM_001127487;NM_001458	128470888	128470938
ATP6V1F	NM_004231	128502708	128502758
ATP6V1F	NM_004231	128502865	128502915
CPA2	NM_001869	129918022	129918072
MEST	NM_177524	130125739	130125789
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MEST;MESTIT1	NM_002402;NM_177524;NM_177525;NR_004382	130131684	130131734
MEST;MESTIT1	NM_002402;NM_177524;NM_177525;NR_004382	130131705	130131755
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131772	130131822

MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131801	130131851
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131804	130131854
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131844	130131894
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131860	130131910
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131862	130131912
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131880	130131930
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131891	130131941
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131896	130131946
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131898	130131948
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130131906	130131956
MEST;MESTIT1	NM_177524;NM_002402;NM_177525;NR_004382	130132136	130132186
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132174	130132224
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132234	130132284
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132240	130132290
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132261	130132311
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132273	130132323
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132280	130132330
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132294	130132344
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132335	130132385
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132388	130132438
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132394	130132444
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132397	130132447
MEST;MESTIT1	NM_177524;NM_177525;NR_004382;NM_002402	130132428	130132478
MEST	NM_177524;NM_177525;NM_002402	130132702	130132752
MEST	NM_177524;NM_177525;NM_002402	130132765	130132815
MEST	NM_177524;NM_177525;NM_002402	130133085	130133135
AGBL3	NM_178563	134671541	134671591
SVOPL	NM_001139456;NM_174959	138348749	138348799
SVOPL	NM_001139456;NM_174959	138348956	138349006
SVOPL	NM_001139456;NM_174959	138349133	138349183
SVOPL	NM_001139456;NM_174959	138349418	138349468
ATP6V0A4	NM_130840;NM_020632;NM_130841	138413396	138413446
SLC37A3	NM_032295;NM_207113	140098554	140098604
BRAF	NM_004333	140624445	140624495
TAS2R38	NM_176817	141674814	141674864
		141950998	141951048

EPHA1	NM_005232	143088447	143088497
TPK1	NM_022445;NM_001042482	144273812	144273862
ZNF282	NM_003575	148892427	148892477
ZNF767	NR_027789;NR_027788	149322748	149322798
REPIN1	NM_001099696;NM_013400;NM_001099695	150065214	150065264
CDK5;SLC4A2	NM_004935;NM_001164410;NM_003040	150756383	150756433
AGAP3	NM_031946	150828536	150828586
CHPF2	NM_019015	150929656	150929706
WDR86	NM_198285	151107260	151107310
PRKAG2	NM_001040633;NM_016203	151489075	151489125
		152600791	152600841
DPP6	NM_001936;NM_130797;NM_001039350	154068711	154068761
PAXIP1;LOC202781	NM_007349;NR_028090	154794618	154794668
HTR5A	NM_024012	154862745	154862795
HTR5A	NM_024012	154862944	154862994
HTR5A	NM_024012	154863151	154863201
HTR5A	NM_024012	154863219	154863269
HTR5A	NM_024012	154863313	154863363
HTR5A	NM_024012	154863356	154863406
		155674706	155674756
		155679126	155679176
		155679315	155679365
		155895583	155895633
		156263802	156263852
		156336650	156336700
PTPRN2	NM_002847;NM_130842;NM_130843	157362037	157362087
PTPRN2	NM_002847;NM_130842;NM_130843	157387131	157387181
PTPRN2	NM_002847;NM_130842;NM_130843	157446067	157446117
PTPRN2	NM_002847;NM_130842;NM_130843	157467858	157467908
PTPRN2	NM_002847;NM_130842;NM_130843	157468296	157468346
PTPRN2	NM_002847;NM_130842;NM_130843	157514259	157514309
PTPRN2	NM_002847;NM_130842;NM_130843	157546769	157546819
PTPRN2	NM_002847;NM_130842;NM_130843	157694491	157694541
PTPRN2	NM_002847;NM_130842;NM_130843	157744291	157744341
PTPRN2	NM_002847;NM_130842;NM_130843	157811818	157811868
PTPRN2	NM_002847;NM_130842;NM_130843	157956887	157956937
PTPRN2	NM_002847;NM_130842;NM_130843	158034756	158034806
PTPRN2	NM_002847;NM_130842;NM_130843	158058727	158058777
PTPRN2	NM_002847;NM_130842;NM_130843	158216832	158216882
PTPRN2	NM_002847;NM_130842;NM_130843	158319179	158319229
PTPRN2;MIR595	NM_002847;NM_130842;NR_030325;NM_130843	158325561	158325611
PTPRN2	NM_002847;NM_130842;NM_130843	158336793	158336843
PTPRN2	NM_002847;NM_130842;NM_130843	158349416	158349466
		158751566	158751616
LOC154822	NR_024394	158800107	158800157

Supplementary Table 2. Maternally hypomethylated CpGs that passed filters one and two. Start and end coordinates are ± 25 bp from Illumina MAPINFO.

UCSC RefGene Name	UCSC RefGene Accession	START bp	END bp
		148249	148299
FAM20C	NM_020223	211907	211957
FAM20C	NM_020223	227639	227689
		580678	580728
PRKAR1B	NM_001164759;NM_001164762;NM_001164758;NM_001164760;NM_001164761;NM_002735	608950	609000
PRKAR1B	NM_001164759;NM_001164762;NM_001164758;NM_001164760;NM_001164761;NM_002735	624470	624520
PRKAR1B	NM_001164759;NM_001164762;NM_001164758;NM_001164760;NM_001164761;NM_002735	640578	640628
PRKAR1B	NM_001164759;NM_001164762;NM_001164758;NM_001164760;NM_001164761;NM_002735	679988	680038
PRKAR1B	NM_001164759;NM_001164762;NM_001164758;NM_001164760;NM_001164761;NM_002735	736920	736970
HEATR2	NM_017802	774608	774658
HEATR2	NM_017802	785004	785054
HEATR2	NM_017802	818284	818334
UNC84A	NM_025154;NM_001130965	855340	855390
UNC84A	NM_025154;NM_001130965	891019	891069
UNC84A	NM_025154;NM_001130965	899450	899500
C7orf20	NM_015949	921131	921181
		936056	936106
ADAP1	NM_006869	960503	960553
ADAP1	NM_006869	963446	963496
ADAP1	NM_006869	989203	989253
C7orf50;MIR339	NM_001134395;NR_029898;NM_032350;NM_001134396	1062656	1062706
C7orf50	NM_001134395;NM_032350;NM_001134396	1142618	1142668
		1215846	1215896
UNCX	NM_001080461	1271900	1271950
		1287134	1287184
		1367702	1367752
MICALL2	NM_182924	1479927	1479977
MICALL2	NM_182924	1491762	1491812
INTS1	NM_001080453	1533477	1533527
INTS1	NM_001080453	1542193	1542243
INTS1	NM_001080453	1545360	1545410
		1606241	1606291
		1718516	1718566
		1740287	1740337
ELFN1	NM_001128636	1784562	1784612
		1847542	1847592
MAD1L1	NM_003550;NM_001013837;NM_001013836	1858891	1858941
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883226	1883276
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883365	1883415
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883395	1883445
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883735	1883785
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883851	1883901
MAD1L1	NM_003550;NM_001013837;NM_001013836	1886252	1886302
MAD1L1	NM_003550;NM_001013837;NM_001013836	1943679	1943729
MAD1L1	NM_003550;NM_001013837;NM_001013836	1976939	1976989
MAD1L1	NM_003550;NM_001013837;NM_001013836	1980454	1980504
MAD1L1	NM_003550;NM_001013837;NM_001013836	2017461	2017511
MAD1L1	NM_003550;NM_001013837;NM_001013836	2029160	2029210

MAD1L1	NM_003550;NM_001013837;NM_001013836	2036135	2036185
MAD1L1	NM_003550;NM_001013837;NM_001013836	2056525	2056575
MAD1L1	NM_003550;NM_001013837;NM_001013836	2082825	2082875
MAD1L1	NM_003550;NM_001013837;NM_001013836	2115522	2115572
MAD1L1	NM_003550;NM_001013837;NM_001013836	2121130	2121180
MAD1L1	NM_003550;NM_001013837;NM_001013836	2138788	2138838
MAD1L1	NM_003550;NM_001013837;NM_001013836	2143482	2143532
MAD1L1	NM_003550;NM_001013837;NM_001013836	2149789	2149839
MAD1L1	NM_003550;NM_001013837;NM_001013836	2155057	2155107
MAD1L1	NM_003550;NM_001013837;NM_001013836	2205702	2205752
MAD1L1	NM_003550;NM_001013837;NM_001013836	2236145	2236195
MAD1L1	NM_003550;NM_001013837;NM_001013836	2252748	2252798
MAD1L1	NM_001013837;NM_001013836;NM_003550	2271789	2271839
		2293252	2293302
IQCE	NM_001100390;NM_152558	2606771	2606821
IQCE	NM_001100390;NM_152558	2643233	2643283
		2757317	2757367
		2764894	2764944
GNA12	NM_007353	2842568	2842618
CARD11	NM_032415	3019134	3019184
CARD11	NM_032415	3019235	3019285
CARD11	NM_032415	3019289	3019339
CARD11	NM_032415	3019357	3019407
CARD11	NM_032415	3033773	3033823
SDK1	NM_152744	3996898	3996948
SDK1	NR_027816;NM_152744	4299621	4299671
		4389104	4389154
		4573691	4573741
FOXK1	NM_001037165	4722753	4722803
FOXK1	NM_001037165	4743321	4743371
FOXK1	NM_001037165	4747141	4747191
FOXK1	NM_001037165	4764418	4764468
FOXK1	NM_001037165	4764916	4764966
FOXK1	NM_001037165	4768115	4768165
FOXK1	NM_001037165	4775222	4775272
FOXK1	NM_001037165	4802994	4803044
FOXK1	NM_001037165	4807479	4807529
KIAA0415	NM_014855	4815126	4815176
RADIL	NM_018059	4847015	4847065
RADIL	NM_018059	4876032	4876082
RADIL	NM_018059	4911096	4911146
RADIL	NM_018059	4923590	4923640
MMD2	NM_001100600;NM_198403	4998390	4998440
RNF216L	NR_023385;NR_023384;NR_015449	5013443	5013493
WIPI2	NM_016003;NM_001033519;NM_015610;NM_001033520;NM_001033518	5257584	5257634
WIPI2	NM_016003;NM_001033519;NM_015610;NM_001033520;NM_001033518	5270542	5270592
SLC29A4	NM_001040661;NM_153247	5321651	5321701
TNRC18	NM_001080495	5401584	5401634
TNRC18	NM_001080495	5429011	5429061
TNRC18	NM_001080495	5464569	5464619
FBXL18	NM_024963	5530921	5530971
FBXL18	NM_024963	5537987	5538037
FSCN1	NM_003088	5632226	5632276
ZNF815	NR_023382	5862424	5862474
ZNF815	NR_023382	5888052	5888102
USP42	NM_032172	6193949	6193999

USP42	NM_032172	6197653	6197703
USP42	NM_032172	6197865	6197915
CYTH3	NM_004227	6311387	6311437
C7orf70	NM_001037163	6370291	6370341
GRID2IP	NM_001145118	6539525	6539575
ZDHHC4	NM_001134387;NM_001134389;NM_001134388;NM_018106	6616053	6616103
ZDHHC4	NM_001134388;NM_001134389;NM_001134387;NM_001134387;NM_018106	6617239	6617289
ZNF853	NM_017560;NM_017560	6655702	6655752
		6695067	6695117
		6704020	6704070
		6885514	6885564
		6897592	6897642
		6915483	6915533
		7032149	7032199
		7111801	7111851
		7188983	7189033
C1GALT1	NM_020156	7224844	7224894
RPA3	NM_002947	7676586	7676636
NXPH1	NM_152745	8475173	8475223
NXPH1	NM_152745	8481969	8482019
NXPH1	NM_152745	8483544	8483594
ETV1	NM_001163148;NM_004956;NM_001163149;NM_001163147	14028665	14028715
		16626199	16626249
		16626301	16626351
		16626505	16626555
AGR3	NM_176813	16913820	16913870
		16956525	16956575
TWIST1	NM_000474	19157271	19157321
		19158929	19158979
TMEM196	NM_152774	19812454	19812504
SP8	NM_198956;NM_182700	20823956	20824006
SP8	NM_182700;NM_198956	20827800	20827850
		20830080	20830130
		20830632	20830682
		20834386	20834436
		20838498	20838548
DNAH11	NM_003777	21583201	21583251
CDCA7L	NM_001127371;NM_001127370;NM_018719	21946000	21946050
CDCA7L	NM_001127371;NM_018719;NM_001127370	21980205	21980255
IL6	NM_000600	22766804	22766854
TOMM7	NM_019059	22863297	22863347
SNORD93	NR_003075	22894770	22894820
FAM126A	NM_032581	23051336	23051386
KLHL7	NM_001031710;NM_018846	23146192	23146242
GPNMB	NM_001005340;NM_002510	23285072	23285122
C7orf30	NM_138446	23338773	23338823
IGF2BP3	NM_006547	23385659	23385709
CLK2P	NR_002711	23626037	23626087
		23695241	23695291
NPY	NM_000905	24323534	24323584
NPY	NM_000905	24330655	24330705
DFNA5	NM_001127454;NM_004403;NM_001127453	24796330	24796380
OSBPL3	NM_015550;NM_145321;NM_145320;NM_145322	24874272	24874322
CYCS	NM_018947	25164949	25164999
		25169055	25169105

		25702684	25702734
		25893980	25894030
		25897882	25897932
		25898421	25898471
		25900743	25900793
NFE2L3	NM_004289	26199847	26199897
NFE2L3	NM_004289	26226364	26226414
CBX3;HNRNPA2B1	NM_016587;NM_031243;NM_007276;NM_002137	26240876	26240926
		27138687	27138737
		27138949	27138999
HOXA2	NM_006735	27143453	27143503
		27144570	27144620
HOXA3	NM_153631;NM_153632;NM_030661	27154695	27154745
HOXA3	NM_153631;NM_030661	27159858	27159908
HOXA4	NM_002141	27169649	27169699
HOXA4	NM_002141	27169715	27169765
HOXA4	NM_002141	27169932	27169982
HOXA4	NM_002141	27170216	27170266
HOXA4	NM_002141	27170288	27170338
HOXA4	NM_002141	27170363	27170413
HOXA4	NM_002141	27170369	27170419
HOXA4	NM_002141	27170387	27170437
HOXA4	NM_002141	27170529	27170579
HOXA4	NM_002141	27170692	27170742
HOXA4	NM_002141	27170730	27170780
HOXA4	NM_002141	27170794	27170844
HOXA4	NM_002141	27170807	27170857
HOXA4	NM_002141	27170855	27170905
HOXA4	NM_002141	27170867	27170917
HOXA4	NM_002141	27170936	27170986
HOXA4	NM_002141	27170969	27171019
HOXA4	NM_002141	27171026	27171076
HOXA4	NM_002141	27171129	27171179
		27178836	27178886
HOXA9	NM_152739	27204324	27204374
HOXA13	NM_000522	27238885	27238935
		27265497	27265547
		27275600	27275650
		27289170	27289220
		27292120	27292170
JAZF1	NM_175061	27946446	27946496
TRIL	NM_014817	28997378	28997428
TRIL	NM_014817	28998170	28998220
CHN2	NM_004067	29330727	29330777
PRR15	NM_175887	29604476	29604526
PRR15	NM_175887	29605599	29605649
PRR15	NM_175887	29605783	29605833
PRR15	NM_175887	29605872	29605922
PRR15	NM_175887	29606057	29606107
PRR15	NM_175887	29606264	29606314
PRR15	NM_175887	29606324	29606374
		31061376	31061426
		31373471	31373521
		31376463	31376513
		31425657	31425707
C7orf16	NM_006658;NM_001145123	31726629	31726679
C7orf16	NM_006658;NM_001145123	31726679	31726729
PDE1C	NM_005020	32110120	32110170

LOC441208	NR_003502	32767530	32767580
		33761759	33761809
		33802570	33802620
TBX20	NM_001077653;NM_001166220	35294633	35294683
		35295563	35295613
		35296453	35296503
		35494320	35494370
		36101754	36101804
EEPD1	NM_030636	36193319	36193369
EEPD1	NM_030636	36230031	36230081
ANLN	NM_018685	36453622	36453672
AOAH	NM_001637	36585395	36585445
AOAH	NM_001637	36700719	36700769
AOAH	NM_001637	36700914	36700964
		37531716	37531766
		37533569	37533619
POU6F2	NM_001166018;NM_007252	39017430	39017480
POU6F2	NM_007252;NM_001166018	39171088	39171138
POU6F2	NM_007252;NM_001166018	39326887	39326937
C7orf36	NM_020192	39605765	39605815
RALA	NM_005402	39662442	39662492
RALA	NM_005402	39662739	39662789
LOC349114	NR_026999	39832713	39832763
GLI3	NM_000168	42006095	42006145
GLI3	NM_000168	42267312	42267362
GLI3	NM_000168	42275845	42275895
GLI3	NM_000168	42277925	42277975
GLI3	NM_000168	42278042	42278092
GLI3	NM_000168	42278052	42278102
GLI3	NM_000168	42278064	42278114
GLI3	NM_000168	42278071	42278121
		42725409	42725459
MRPL32;PSMA2	NM_031903;NM_002787	42972063	42972113
		43116356	43116406
HECW1	NM_015052	43151803	43151853
PGAM2	NM_000290	44104910	44104960
POLD2	NM_006230;NM_001127218	44161458	44161508
CAMK2B	NM_172081;NM_172082;NM_172083;NM_172084;NM_172079;NM_001220;NM_172078;NM_172080	44349276	44349326
NPC1L1	NM_001101648;NM_013389	44582219	44582269
PURB	NM_033224	44923694	44923744
MYO1G	NM_033054	45006446	45006496
TBRG4;SNORA5A	NM_030900;NR_002919;NM_004749;NM_199122	45144146	45144196
RAMP3	NM_005856	45197304	45197354
ADCY1	NM_021116	45613700	45613750
IGFBP1	NM_000596	45927915	45927965
IGFBP3	NM_000598;NM_001013398	45959642	45959692
		46213018	46213068
		47092814	47092864
		47219743	47219793
		47294253	47294303
C7orf65	NM_001123065	47700166	47700216
UPP1	NM_181597;NM_003364	48129789	48129839
IKZF1	NM_006060	50343106	50343156
IKZF1	NM_006060	50345024	50345074
DDC	NM_001082971;NM_000790	50612028	50612078
DDC	NM_000790;NM_001082971	50628816	50628866
		50879979	50880029

		51539489	51539539
		51539558	51539608
		51920311	51920361
VSTM2A	NM_182546	54614185	54614235
		55073407	55073457
EGFR	NM_005228;NM_201284;NM_201283;NM_201282	55086121	55086171
EGFR	NM_201284;NM_201282;NM_005228	55224870	55224920
EGFR	NM_005228	55260888	55260938
		55412526	55412576
		55412970	55413020
		55413197	55413247
		55516847	55516897
VOPPI	NM_030796	55553520	55553570
LOC442308	NR_003598	55714388	55714438
		57486679	57486729
ZNF716	NM_001159279	57510107	57510157
		63206569	63206619
		63225751	63225801
		63358529	63358579
		63648810	63648860
ZNF680	NM_001130022;NM_178558;NM_001130022	64023409	64023459
ZNF117	NM_015852	64452515	64452565
		64734068	64734118
SNORA22;CCT6P1	NR_002961;NR_003110	65219929	65219979
GUSB	NM_000181	65439407	65439457
RABGEF1	NM_014504	66205457	66205507
		67711206	67711256
AUTS2	NM_015570;NM_001127231	70252546	70252596
AUTS2	NM_015570;NM_001127231	70255779	70255829
CALN1	NM_031468	71877088	71877138
FKBP6	NM_001135211;NM_003602	72756517	72756567
FZD9	NM_003508	72847837	72847887
BAZ1B	NM_032408	72920459	72920509
VPS37D	NM_001077621	73081746	73081796
VPS37D	NM_001077621	73082315	73082365
		73093770	73093820
DNAJC30	NM_032317	73095421	73095471
DNAJC30;WBSCR22	NM_032317;NM_017528	73097898	73097948
WBSCR22	NM_017528	73112201	73112251
STX1A	NM_001165903;NM_004603	73118723	73118773
LIMK1	NM_002314	73535259	73535309
		73672910	73672960
GTF2IRD1	NM_016328;NM_005685	73867896	73867946
GTF2IRD1	NM_016328;NM_005685	73870184	73870234
GTF2IRD1	NM_005685;NM_016328	73938913	73938963
		75951032	75951082
UPK3B	NM_182684;NM_030570	76145607	76145657
UPK3B	NM_182684;NM_030570	76145647	76145697
		76683184	76683234
PHTF2; TMEM60	NM_001127360;NM_001127358;NM_032936	77428309	77428359
MAGI2	NM_012301	77646904	77646954
MAGI2	NM_012301	78376374	78376424
MAGI2	NM_012301	78948039	78948089
SEMA3C	NM_006379	80547999	80548049
		81481479	81481529
SEMA3A	NM_006080	83825083	83825133
		85911515	85911565
KIAA1324L	NM_001142749	86686436	86686486

C7orf23	NM_024315	86850473	86850523
ABCB1	NM_000927	87181441	87181491
RUNDC3B; ABCB1	NM_138290;NM_001134406;NM_001134405;NM_000927	87257761	87257811
ZNF804B;MGC26647	NM_181646;NM_152706	88425114	88425164
STEAP2	NM_152999;NM_001040665	89840874	89840924
CLDN12	NM_012129	90043188	90043238
		90225753	90225803
		90226584	90226634
		90272335	90272385
		90307496	90307546
CDK14	NM_012395	90764792	90764842
CDK14	NM_012395	90799222	90799272
AKAP9	NM_147185;NM_005751	91570080	91570130
MGC16142	NR_026902	92167585	92167635
CALCR	NM_001164737;NM_001742	93205212	93205262
TFPI2	NM_006528	93520321	93520371
SGCE;PEG10	NM_001099400;NM_001099401;NM_001040152;NM_003919;NM_015068	94284386	94284436
SGCE;PEG10	NM_001099400;NM_001099401;NM_001040152;NM_003919;NM_015068	94284495	94284545
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SGCE;PEG10	NM_001099400;NM_001099401;NM_001040152;NM_003919;NM_015068	94284598	94284648
SGCE;PEG10;	NM_001099400;NM_001099401;NM_001040152;NM_003919;NM_015068	94284653	94284703
PEG10	NM_001040152;NM_015068	94293225	94293275
PON1	NM_000446	94953628	94953678
PON1	NM_000446	94953655	94953705
PON1	NM_000446	94953745	94953795
PON1	NM_000446	94953785	94953835
PON1	NM_000446	94953852	94953902
PON1	NM_000446	94953931	94953981
PON1	NM_000446	94954034	94954084
PON1	NM_000446	94954119	94954169
PON1	NM_000446	94954177	94954227
PON2	NM_000305;NM_001018161	95034226	95034276
ASB4	NM_016116;NM_145872	95156935	95156985
ASB4	NM_016116;NM_145872	95157254	95157304
SLC25A13	NM_014251;NM_001160210;NR_027662	95805892	95805942
MIR591;SLC25A13	NR_030322;NM_014251;NM_001160210;NR_027662	95849167	95849217
DLX6AS	NR_015448	96622583	96622633
DLX6AS	NR_015448	96626126	96626176
DLX6AS	NR_015448	96632269	96632319
DLX6AS	NR_015448	96642485	96642535
		96648018	96648068
DLX5	NM_005221	96651086	96651136
DLX5	NM_005221	96652869	96652919
		96663702	96663752
ACN9	NM_020186	96745315	96745365
ACN9	NM_020186	96746903	96746953
		97580488	97580538
		97587035	97587085
BHLHA15	NM_177455	97841973	97842023
NPTX2	NM_002523	98245805	98245855
NPTX2	NM_002523	98248827	98248877
TMEM130	NM_152913;NM_001134451;NM_001134450	98468022	98468072

TRRAP	NM_003496	98475590	98475640
TRRAP	NM_003496	98475876	98475926
TRRAP	NM_003496	98586523	98586573
SMURF1	NM_020429;NM_181349	98632029	98632079
SMURF1	NM_020429;NM_181349	98633085	98633135
SMURF1	NM_020429;NM_181349	98722445	98722495
ARPC1A	NM_006409	98923089	98923139
CPSF4	NM_001081559;NM_006693	99051475	99051525
		99067137	99067187
CYP3A7	NM_000765	99330937	99330987
ZKSCAN1	NM_003439	99630954	99631004
ZKSCAN1	NM_003439	99630973	99631023
TAF6;CNPY4	NM_139123;NM_005641;NM_139315;NM_152755;NM_139122	99716960	99717010
GATS;PVRIG	NR_028040;NM_178831;NR_028038;NR_028039;NM_024070	99819085	99819135
SAP25	NM_001168682	100170471	100170521
PCOLCE	NM_002593	100199978	100200028
PCOLCE	NM_002593	100199984	100200034
MOSPD3	NM_023948;NM_001040098;NM_001040099;NM_001040097	100210072	100210122
GIGYF1	NM_022574	100287456	100287506
EPO	NM_000799	100318214	100318264
SRRT	NM_015908;NM_001128852;NM_001128853;NM_001128854	100480513	100480563
SRRT	NM_015908;NM_001128852;NM_001128853;NM_001128854	100480564	100480614
ACHE	NM_015831;NM_000665	100488997	100489047
		100610378	100610428
MUC12	NM_001164462	100611476	100611526
		100739870	100739920
SERPINE1	NM_001165413;NM_000602	100774742	100774792
C7orf52	NM_198571	100823675	100823725
C7orf52	NM_198571	100823765	100823815
ZNHIT1;PLOC3	NM_006349;NM_001084	100862275	100862325
FIS1	NM_016068	100887214	100887264
		100921967	100922017
		100946086	100946136
		100946767	100946817
EMID2	NM_133457	101005807	101005857
CUX1	NM_181500;NM_181552;NM_001913	101459929	101459979
CUX1	NM_181500;NM_181552;NM_001913	101562323	101562373
CUX1	NM_181500;NM_181552;NM_001913	101630625	101630675
CUX1	NM_181500;NM_181552;NM_001913	101829245	101829295
SH2B2	NM_020979	101943763	101943813
SH2B2	NM_020979	101944250	101944300
SH2B2	NM_020979	101944405	101944455
SH2B2	NM_020979	101944531	101944581
SH2B2	NM_020979	101961771	101961821
SH2B2	NM_020979	101962087	101962137
SH2B2	NM_020979	101962098	101962148
SLC26A5	NM_206885;NM_198999;NM_206883;NM_001167962;NM_206884	103085953	103086003
SRPK2	NM_182691;NM_182692	104863601	104863651
SRPK2	NM_182691;NM_182692	104885083	104885133
PUS7	NM_019042	105114743	105114793
PUS7	NM_019042	105161958	105162008
PUS7	NM_019042	105162916	105162966

		105228982	105229032
ATXN7L1	NM_152749;NM_020725	105460017	105460067
LOC286002	NR_028137	107297690	107297740
SLC26A4;LOC286002	NM_000441;NR_028137	107300914	107300964
NRCAM	NM_001037132;NM_005010	108093423	108093473
		113723000	113723050
MET	NM_001127500;NM_000245	116311800	116311850
KCND2	NM_012281	119945469	119945519
WNT16	NM_057168;NM_016087	120969019	120969069
		121939802	121939852
		121940319	121940369
		121940926	121940976
FEZF1	NM_001160264;NM_001024613	121943680	121943730
FEZF1	NM_001160264;NM_001024613	121944425	121944475
		121947400	121947450
CADPS2	NM_001009571;NM_001167940;NM_017954	122488305	122488355
CADPS2	NM_001009571;NM_017954;NM_001167940	122526801	122526851
		122553890	122553940
NDUFA5	NM_005000	123197971	123198021
		123215296	123215346
TMEM229A	NM_001136002	123673524	123673574
		124092399	124092449
GRM8	NM_001127323;NR_028041;NM_000845	126275055	126275105
GRM8	NM_001127323;NR_028041;NM_000845	126866898	126866948
GRM8	NM_000845;NR_028041;NM_001127323	126884976	126885026
GRM8	NM_001127323	126891172	126891222
SND1	NM_014390	127627226	127627276
SND1	NM_014390	127672633	127672683
SND1	NM_014390	127673013	127673063
		127749438	127749488
		127808823	127808873
PRRT4	NM_001114726	128001410	128001460
FLNC	NM_001458;NM_001127487	128470391	128470441
LOC286016;TNPO3	NR_002187;NM_012470	128696204	128696254
TSPAN33	NM_178562	128784578	128784628
AHCYL2	NM_001130720;NM_015328	128905702	128905752
CPA2	NM_001869	129912462	129912512
KLF14	NM_138693	130418290	130418340
KLF14	NM_138693	130419134	130419184
		130572440	130572490
		131440726	131440776
PLXNA4	NM_020911;NM_181775;NM_001105543	132260450	132260500
EXOC4	NM_021807;NM_001037126	133112434	133112484
EXOC4	NM_021807	133451596	133451646
LRGUK	NM_144648	133812047	133812097
CALD1	NM_033157;NM_004342;NM_033138	134513264	134513314
STRA8	NM_182489	134916851	134916901
SLC13A4	NM_012450	135412998	135413048
SLC13A4	NM_012450	135413074	135413124
MTPN;LUZP6	NM_145808;NM_001128619	135662949	135662999
DGKI	NM_004717	137531931	137531981
CREB3L2	NM_194071	137605228	137605278
CREB3L2	NM_194071	137683577	137683627
TRIM24	NM_003852;NM_015905	138147013	138147063
ATP6V0A4	NM_130840;NM_020632;NM_130841	138413303	138413353
KIAA1549	NM_001164665;NM_020910	138603299	138603349
KLRG2	NM_198508	139167522	139167572
KLRG2	NM_198508	139168779	139168829

PARP12	NM_022750	139760350	139760400
LOC100134229;JHDM1D	NR_024451;NM_030647	139876495	139876545
LOC100134229	NR_024451	139878695	139878745
RAB19	NM_001008749	140103739	140103789
RAB19	NM_001008749	140114112	140114162
		140135586	140135636
		140148766	140148816
ADCK2	NM_052853	140372839	140372889
ADCK2	NM_052853	140377236	140377286
ADCK2	NM_052853	140393150	140393200
MRPS33	NM_053035;NM_016071	140714589	140714639
		141136145	141136195
		141176388	141176438
PRSS1	NM_002769	142458165	142458215
EPHB6	NM_004445	142554107	142554157
C7orf34	NM_178829	142637605	142637655
ZYX	NM_003461;NM_001010972	143078268	143078318
FAM115A	NM_014719	143582474	143582524
FAM115A	NM_014719	143582605	143582655
ARHGEF5	NM_005435	144076749	144076799
CNTNAP2	NM_014141	145813041	145813091
CNTNAP2	NM_014141	148035971	148036021
C7orf33	NM_145304	148287687	148287737
CUL1	NM_003592	148480301	148480351
ZNF282	NM_003575	148921385	148921435
ZNF746	NM_152557;NM_001163474	149170315	149170365
		149410434	149410484
ZNF862	NM_001099220	149557096	149557146
		149744393	149744443
		149916675	149916725
RARRES2	NM_002889	150037865	150037915
RARRES2	NM_002889	150038477	150038527
RARRES2	NM_002889	150038573	150038623
RARRES2	NM_002889	150038873	150038923
REPIN1	NM_001099696;NM_013400;NM_014374;NM_001099695	150069001	150069051
		150072943	150072993
ZNF775	NM_173680	150075310	150075360
ZNF775	NM_173680	150093034	150093084
GIMAP8	NM_175571	150175775	150175825
GIMAP7	NM_153236	150211127	150211177
GIMAP4	NM_018326	150264742	150264792
NOS3	NM_000603	150708943	150708993
SLC4A2	NM_003040	150757185	150757235
SLC4A2	NM_003040	150763791	150763841
TMUB1	NM_001136044;NM_031434	150780292	150780342
AGAP3	NM_001042535;NM_031946	150816988	150817038
AGAP3	NM_031946	150828078	150828128
GBX1	NM_001098834	150863944	150863994
SMARCD3	NM_001003802;NM_001003801;NM_003078	150939567	150939617
		151000466	151000516
		151001492	151001542
NUB1	NM_016118	151038717	151038767
WDR86	NM_198285	151091930	151091980
RHEB	NM_005614	151217550	151217600
PRKAG2	NM_016203;NM_001040633;NM_024429	151301812	151301862
PRKAG2	NM_016203;NM_001040633	151453866	151453916
PRKAG2	NM_001040633;NM_016203	151490448	151490498

PRKAG2	NM_016203	151565697	151565747
		152564273	152564323
		152594611	152594661
		152597074	152597124
		152625135	152625185
		152716653	152716703
		152720125	152720175
		153446701	153446751
DPP6	NM_130797;NM_001039350;NM_001936	154685798	154685848
		155166529	155166579
		155166594	155166644
		155241660	155241710
		155246663	155246713
EN2	NM_001427	155249503	155249553
EN2	NM_001427	155249649	155249699
		155283792	155283842
		155287047	155287097
CNPY1	NM_001103176	155303273	155303323
		155366270	155366320
C7orf4	NR_024119	156332807	156332857
		156400256	156400306
		156400686	156400736
		156400754	156400804
		156400856	156400906
		156400965	156401015
		156409033	156409083
		156792294	156792344
		156797217	156797267
MNX1	NM_005515;NM_001165255	156803537	156803587
UBE3C	NM_014671	157053581	157053631
UBE3C	NM_014671	157060843	157060893
PTPRN2	NM_002847;NM_130842;NM_130843	157340365	157340415
PTPRN2	NM_002847;NM_130842;NM_130843	157357778	157357828
PTPRN2	NM_002847;NM_130842;NM_130843	157447153	157447203
PTPRN2	NM_002847;NM_130842;NM_130843	157502595	157502645
PTPRN2	NM_002847;NM_130842;NM_130843	157572623	157572673
PTPRN2	NM_002847;NM_130842;NM_130843	157584158	157584208
PTPRN2	NM_002847;NM_130842;NM_130843	157585070	157585120
PTPRN2	NM_002847;NM_130842;NM_130843	157585832	157585882
PTPRN2	NM_002847;NM_130842;NM_130843	157633746	157633796
PTPRN2	NM_002847;NM_130842;NM_130843	157644135	157644185
PTPRN2	NM_002847;NM_130842;NM_130843	157648330	157648380
PTPRN2	NM_002847;NM_130842;NM_130843	157689733	157689783
PTPRN2	NM_002847;NM_130842;NM_130843	157696814	157696864
PTPRN2	NM_002847;NM_130842;NM_130843	158059679	158059729
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PTPRN2	NM_002847;NM_130842;NM_130843	158165880	158165930
PTPRN2	NM_002847;NM_130842;NM_130843	158271056	158271106
PTPRN2	NM_002847;NM_130842;NM_130843	158277776	158277826
PTPRN2	NM_002847;NM_130842;NM_130843	158278015	158278065
ESYT2	NM_020728	158595890	158595940
ESYT2	NM_020728	158607873	158607923
WDR60	NM_018051	158672733	158672783
WDR60	NM_018051	158734605	158734655
		158740813	158740863
		158799016	158799066
VIPR2	NM_003382	158886124	158886174
		159023802	159023852

Supplementary Table 3. Maternally hypomethylated CpGs with two adjacent probes that passed filters one and two. Start and end coordinates are ± 25 bp from Illumina MAPINFO.

UCSC REFGENE_NAME	UCSC REFGENE ACCESSION	START bp	END bp
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883226	1883276
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883365	1883415
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883395	1883445
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883735	1883785
MAD1L1	NM_003550;NM_001013837;NM_001013836	1883851	1883901
CARD11	NM_032415	3019134	3019184
CARD11	NM_032415	3019235	3019285
CARD11	NM_032415	3019289	3019339
CARD11	NM_032415	3019357	3019407
USP42	NM_032172	6197653	6197703
USP42	NM_032172	6197865	6197915
		16626199	16626249
		16626301	16626351
		16626505	16626555
		20830080	20830130
		20830632	20830682
HOXA4	NM_002141	27169649	27169699
HOXA4	NM_002141	27169715	27169765
HOXA4	NM_002141	27169932	27169982
HOXA4	NM_002141	27170216	27170266
HOXA4	NM_002141	27170288	27170338
HOXA4	NM_002141	27170363	27170413
HOXA4	NM_002141	27170369	27170419
HOXA4	NM_002141	27170387	27170437
HOXA4	NM_002141	27170529	27170579
HOXA4	NM_002141	27170692	27170742
HOXA4	NM_002141	27170730	27170780
HOXA4	NM_002141	27170794	27170844
HOXA4	NM_002141	27170807	27170857
HOXA4	NM_002141	27170855	27170905
HOXA4	NM_002141	27170867	27170917
HOXA4	NM_002141	27170936	27170986
HOXA4	NM_002141	27170969	27171019
HOXA4	NM_002141	27171026	27171076
HOXA4	NM_002141	27171129	27171179
PRR15	NM_175887	29605599	29605649
PRR15	NM_175887	29605783	29605833
PRR15	NM_175887	29605872	29605922
PRR15	NM_175887	29606057	29606107
PRR15	NM_175887	29606264	29606314
PRR15	NM_175887	29606324	29606374
RALA	NM_005402	39662442	39662492
RALA	NM_005402	39662739	39662789
GLI3	NM_000168	42277925	42277975
GLI3	NM_000168	42278042	42278092
GLI3	NM_000168	42278052	42278102
GLI3	NM_000168	42278064	42278114
GLI3	NM_000168	42278071	42278121
		51539489	51539539
		51539558	51539608
		73093770	73093820
DNAJC30	NM_032317	73095421	73095471
UPK3B	NM_182684;NM_030570	76145607	76145657

UPK3B	NM_182684;NM_030570	76145647	76145697
SGCE;PEG10	NM_001099400;NM_001099401;NM_001040152; NM_003919;NM_015068	94284495	94284545
SGCE;PEG10	NM_001099400;NM_001099401;NM_001040152; NM_003919;NM_015068	94284501	94284551
PON1	NM_000446	94953628	94953678
PON1	NM_000446	94953655	94953705
PON1	NM_000446	94953745	94953795
PON1	NM_000446	94953785	94953835
PON1	NM_000446	94953852	94953902
PON1	NM_000446	94953931	94953981
PON1	NM_000446	94954034	94954084
PON1	NM_000446	94954119	94954169
PON1	NM_000446	94954177	94954227
ZKSCAN1	NM_003439	99630954	99631004
ZKSCAN1	NM_003439	99630973	99631023
PCOLCE	NM_002593	10019978	10020028
PCOLCE	NM_002593	100199984	100200034
SRRT	NM_015908;NM_001128852;NM_001128853;NM_001128854	100480513	100480563
SRRT	NM_015908;NM_001128852;NM_001128853;NM_001128854	100480564	100480614
		100946086	100946136
		100946767	100946817
SH2B2	NM_020979	101944250	101944300
SH2B2	NM_020979	101944405	101944455
SH2B2	NM_020979	101944531	101944581
SH2B2	NM_020979	101961771	101961821
SH2B2	NM_020979	101962087	101962137
SH2B2	NM_020979	101962098	101962148
SND1	NM_014390	127672633	127672683
SND1	NM_014390	127673013	127673063
SLC13A4	NM_012450	135412998	135413048
SLC13A4	NM_012450	135413074	135413124
ADCK2	NM_052853	140377236	140377286
ADCK2	NM_052853	140393150	140393200
FAM115A	NM_014719	143582474	143582524
FAM115A	NM_014719	143582605	143582655
RARRES2	NM_002889	150038477	150038527
RARRES2	NM_002889	150038573	150038623
RARRES2	NM_002889	150038873	150038923
		152594611	152594661
		152597074	152597124
		155166529	155166579
		155166594	155166644
		156400686	156400736
		156400754	156400804
		156400856	156400906
		156400965	156401015

Supplementary Table 4. M values for maternally hypermethylated CpGs that passed filter three. Start and end coordinates are ± 25 bp from Illumina MAPINFO. The median M values for matUPD7s and controls and the M value for the patUPD7 are listed.

UCSC REFGENE NAME	CpG ID	Start	End	matUPD7s	Controls	patUPD7
RPS2P32	cg12829142	23529974	23530024	0,4454	-0,8084	-3,1989
RPS2P32	cg09424415	23530215	23530265	-0,5862	-1,0523	-1,6004
RPS2P32	cg15839482	23530424	23530474	0,4135	-0,2888	-0,6429
RPS2P32	cg05487769	23530608	23530658	1,1609	0,9905	0,8648
RPS2P32	cg26074723	23530664	23530714	0,2965	0,0012	-0,7741
RPS2P32	cg16204552	23530785	23530835	2,9308	1,4666	-0,1155
GRB10	cg09150232	50849614	50849664	3,7212	1,2703	0,5144
GRB10	cg16349612	50849698	50849748	3,2331	0,3761	-1,7568
GRB10	cg23742152	50849780	50849830	5,4742	0,0615	-5,4945
GRB10	cg08835688	50849906	50849956	3,0468	0,2067	-3,0035
GRB10	cg12903171	50850539	50850589	3,8841	-0,4932	-3,1278
GRB10	cg24977055	50850845	50850895	3,3654	-0,0190	-3,1915
SGCE;PEG10	cg14388858	94285495	94285545	-3,9344	-4,7301	-5,4439
PEG10;SGCE	cg19107595	94285617	94285667	-0,3894	-1,0157	-2,8512
PEG10;SGCE	cg19924104	94285647	94285697	4,0915	-0,4092	-3,6614
PEG10;SGCE	cg11589966	94285660	94285710	1,9310	-0,0433	-3,9370
PEG10;SGCE	cg27435646	94285687	94285737	5,5808	0,0885	-3,9876
SGCE;PEG10	cg01566785	94285720	94285770	3,5631	-0,0059	-4,2288
SGCE;PEG10	cg05819130	94285734	94285784	2,9110	0,2103	-1,8148
SGCE;PEG10	cg10105290	94285743	94285793	3,6985	0,1921	-2,9720
SGCE;PEG10	cg19079047	94285752	94285802	3,7044	-0,3827	-5,0764
SGCE;PEG10	cg02965180	94285759	94285809	5,4540	0,1974	-4,8288
SGCE;PEG10	cg05277165	94285789	94285839	2,7980	-0,0217	-4,0652
SGCE;PEG10	cg13660372	94285848	94285898	3,1558	-0,2134	-2,7361
SGCE;PEG10	cg06674062	94285862	94285912	3,8937	-0,2250	-3,0356
SGCE;PEG10	cg21778340	94285877	94285927	4,9878	-0,1108	-3,4427
SGCE;PEG10	cg07921535	94285886	94285936	4,5206	-1,5214	-5,5179
SGCE;PEG10	cg09910998	94285917	94285967	3,9419	-0,0101	-3,6957
SGCE;PEG10	cg27393730	94285926	94285976	4,2751	0,1803	-2,1278
SGCE;PEG10	cg08291000	94285935	94285985	3,4670	0,1685	-3,1932
SGCE;PEG10	cg27230044	94285968	94286018	4,1216	0,1204	-4,5313
SGCE;PEG10	cg24885794	94286061	94286111	3,0284	-0,1225	-3,0548
SGCE;PEG10	cg26997085	94286085	94286135	2,3420	0,0439	-2,8337
SGCE;PEG10	cg22331138	94286106	94286156	3,6324	0,7612	-3,1435
SGCE;PEG10	cg16492735	94286183	94286233	3,7670	0,7156	-2,9700
SGCE;PEG10	cg09512080	94286194	94286244	3,6434	0,5589	-3,4477
SGCE;PEG10	cg00906934	94286207	94286257	3,6059	0,3427	-3,3059
SGCE;PEG10	cg26503018	94286218	94286268	3,6612	0,6933	-2,9130
SGCE;PEG10	cg27120649	94286236	94286286	6,0319	-0,2928	-5,6528
SGCE;PEG10	cg21771834	94286238	94286288	2,9319	0,6014	-2,9148
SGCE;PEG10	cg27001184	94286242	94286292	3,2110	0,7124	-3,4378

SGCE;PEG10	cg23342787	94286269	94286319	3,6040	0,8160	-3,9516
SGCE;PEG10	cg14873490	94286279	94286329	5,6025	0,1777	-5,6591
SGCE;PEG10	cg03384175	94286318	94286368	3,6032	0,7407	-3,6420
SGCE;PEG10	cg11985632	94286326	94286376	3,6656	0,8909	-3,6097
SGCE;PEG10	cg13797824	94286337	94286387	3,8840	0,7041	-3,4446
SGCE;PEG10	cg11175683	94286395	94286445	4,1925	0,6406	-4,2885
SGCE;PEG10	cg04521244	94286406	94286456	3,9875	0,5576	-3,8977
SGCE;PEG10	cg11562309	94286448	94286498	3,0992	0,5293	-3,3383
SGCE;PEG10	cg18898992	94286459	94286509	3,2321	0,6597	-3,3712
SGCE;PEG10	cg05096321	94286486	94286536	3,6342	0,1626	-3,0141
SGCE;PEG10	cg19663555	94286496	94286546	2,8435	0,5283	-3,1887
SGCE;PEG10	cg06695761	94286501	94286551	2,6054	0,3517	-3,3892
SGCE;PEG10	cg21853542	94286534	94286584	3,4869	0,5848	-3,3422
SGCE;PEG10	cg04634483	94286607	94286657	3,4962	0,2913	-3,4952
SGCE;PEG10	cg09890341	94286625	94286675	3,3674	0,6792	-3,3362
SGCE;PEG10	cg20041873	94286644	94286694	2,8959	0,6935	-2,7610
SGCE;PEG10	cg04303139	94286728	94286778	2,2573	-0,0226	-3,8589
SGCE;PEG10	cg03436478	94286735	94286785	3,8550	0,5189	-4,1228
SGCE;PEG10	cg05509218	94286768	94286818	3,3939	0,7997	-3,4498
SGCE;PEG10	cg22924867	94286809	94286859	3,1694	0,2997	-3,8029
SGCE;PEG10	cg01169624	94286911	94286961	3,6885	0,8333	-3,0592
SGCE;PEG10	cg03682823	94286928	94286978	1,6047	0,2773	-2,8623
SGCE;PEG10	cg18139769	94286930	94286980	2,7076	0,2771	-2,9014
PEG10	cg12397924	94287161	94287211	5,4048	-0,7240	-5,6485
PEG10	cg15696408	94287186	94287236	3,3212	-1,2552	-4,6318
PEG10	cg22820921	94287217	94287267	4,8950	-0,6090	-4,9943
MESTIT1;MEST	cg17706086	130129921	130129971	3,4728	2,3578	0,7740
MESTIT1;MEST	cg10473158	130130097	130130147	2,8257	1,2885	-1,0662
MESTIT1;MEST	cg05222671	130130130	130130180	3,3347	1,5681	-1,1568
MESTIT1;MEST	cg10767216	130130162	130130212	2,7119	1,0556	-1,4605
MESTIT1;MEST	cg12070022	130130164	130130214	2,5084	0,2872	-2,2040
MESTIT1;MEST	cg15068552	130130178	130130228	3,5083	1,2795	-1,3515
MESTIT1;MEST	cg17347253	130130263	130130313	2,4017	0,6335	-1,5796
MESTIT1;MEST	cg02756856	130130295	130130345	2,8713	1,0167	-1,1950
MESTIT1;MEST	cg26275543	130130358	130130408	3,1013	0,4649	-1,7661
MESTIT1;MEST	cg20826277	130130453	130130503	1,4413	0,1340	-1,3868
MESTIT1;MEST	cg14584935	130130456	130130506	2,4614	0,2102	-1,4320
MESTIT1;MEST	cg24941047	130130563	130130613	4,0278	1,6768	-0,5461
MESTIT1;MEST	cg07427065	130130571	130130621	2,5197	0,1968	-2,0592
MESTIT1;MEST	cg02501418	130130715	130130765	3,7215	0,5350	-2,9022
MESTIT1;MEST	cg08229366	130130722	130130772	3,1392	0,7229	-2,3543
MESTIT1;MEST	cg07224147	130130728	130130778	5,5834	0,1966	-4,6890
MESTIT1;MEST	cg27417677	130130893	130130943	3,8384	0,6216	-3,7000
MESTIT1;MEST	cg09003373	130130970	130131020	3,6357	-0,4142	-3,0907
MESTIT1;MEST	cg14088957	130131060	130131110	3,6712	-0,3240	-2,1580
MESTIT1;MEST	cg06100421	130131111	130131161	4,0801	0,0085	-2,3353

MESTIT1;MEST	cg20297423	130131113	130131163	3,1608	-0,1209	-2,5590
MESTIT1;MEST	cg05369791	130131121	130131171	5,7307	-0,1749	-4,3151
MESTIT1;MEST	cg08734637	130131164	130131214	6,0154	-0,0685	-4,1672
MEST;MESTIT1	cg13917504	130131233	130131283	2,3828	0,3072	-1,9468
MEST;MESTIT1	cg25407198	130131243	130131293	3,0045	0,2954	-2,4484
MEST;MESTIT1	cg21667116	130131334	130131384	4,2044	-0,0167	-3,2377
MEST;MESTIT1	cg23156962	130131342	130131392	2,3575	-0,1647	-3,3256
MEST;MESTIT1	cg04678950	130131378	130131428	3,7550	0,4880	-3,6498
MEST;MESTIT1	cg17079325	130131455	130131505	2,6338	0,5025	-2,9944
MEST;MESTIT1	cg04344875	130131459	130131509	2,5964	0,6285	-2,7094
MEST;MESTIT1	cg18934293	130131541	130131591	2,8345	0,1846	-3,7432
MEST;MESTIT1	cg00286878	130131608	130131658	2,3900	0,5290	-2,7366
MEST;MESTIT1	cg12347392	130131651	130131701	3,5896	0,5836	-3,8892
MEST;MESTIT1	cg04786207	130131666	130131716	4,0649	0,8836	-3,3985
MEST;MESTIT1	cg19386484	130131684	130131734	4,8015	0,3830	-4,1295
MEST;MESTIT1	cg26708559	130131705	130131755	2,7833	0,2172	-3,1291
MEST;MESTIT1	cg22705386	130131772	130131822	3,7306	0,5751	-3,5804
MEST;MESTIT1	cg06212135	130131801	130131851	3,6539	0,8060	-3,1295
MEST;MESTIT1	cg10249538	130131804	130131854	5,8309	0,7352	-5,6435
MEST;MESTIT1	cg16823958	130131844	130131894	6,1870	0,5694	-5,7859
MEST;MESTIT1	cg27338480	130131860	130131910	6,4606	0,5926	-5,2707
MEST;MESTIT1	cg09080913	130131862	130131912	6,0166	0,6314	-3,6558
MEST;MESTIT1	cg13104298	130131880	130131930	5,9744	0,5892	-5,8082
MEST;MESTIT1	cg07315018	130131891	130131941	5,8481	0,4037	-5,3878
MEST;MESTIT1	cg21629528	130131896	130131946	5,8052	-0,0667	-5,8867
MEST;MESTIT1	cg20050761	130131898	130131948	6,4224	0,0493	-5,5807
MEST;MESTIT1	cg07870293	130131906	130131956	5,2066	0,2244	-4,5639
MEST;MESTIT1	cg05556276	130132136	130132186	6,3809	0,3601	-4,7268
MEST;MESTIT1	cg17580798	130132174	130132224	6,4371	0,3348	-6,1666
MEST;MESTIT1	cg05862114	130132234	130132284	4,3697	0,2314	-1,9921
MEST;MESTIT1	cg01784351	130132240	130132290	5,7005	0,0489	-5,3520
MEST;MESTIT1	cg27589003	130132261	130132311	6,3609	-0,1313	-3,1207
MEST;MESTIT1	cg19344806	130132273	130132323	6,2253	0,2890	-1,7525
MEST;MESTIT1	cg23714917	130132280	130132330	6,3300	0,7428	-1,7816
MEST;MESTIT1	cg21200654	130132294	130132344	3,4154	0,8692	-1,2560
MEST;MESTIT1	cg25519926	130132335	130132385	5,0231	0,2253	-2,1639
MEST;MESTIT1	cg09462536	130132388	130132438	1,2813	-0,5308	-2,8168
MEST;MESTIT1	cg22592140	130132394	130132444	3,5127	-0,0733	-2,9029
MEST;MESTIT1	cg03588221	130132397	130132447	3,0774	0,5376	-2,1406
MEST; MESTIT1	cg13986840	130132428	130132478	3,6035	0,2749	-0,5377
MEST	cg23312013	130132702	130132752	3,0397	0,3252	-1,0063
MEST	cg14952237	130132765	130132815	3,1078	1,2327	-0,1743
MEST	cg05260959	130133085	130133135	3,1879	0,6747	-1,0317
SVOPL	cg05719902	138348749	138348799	1,4419	0,1660	-1,7839
SVOPL	cg16111924	138348956	138349006	0,9018	-1,2512	-2,8790
SVOPL	cg10184328	138349133	138349183	2,6395	1,1710	-1,7367

SVOPL	cg23085143	138349418	138349468	2,6880	0,8999	-3,3814
HTR5A	cg25780543	154862745	154862795	-0,6771	-0,8980	-1,4481
HTR5A	cg00852398	154862944	154862994	2,4455	0,0834	-1,1768
HTR5A	cg25058023	154863151	154863201	1,6418	-0,2294	-1,4691
HTR5A	cg03024742	154863219	154863269	1,8342	0,6371	-0,0802
HTR5A	cg10538202	154863313	154863363	1,9717	0,7109	0,3377
HTR5A	cg09623773	154863356	154863406	2,4027	0,8672	0,4833

Supplementary Table 5. M values for maternally hypomethylated CpGs that passed filter three. Start and end coordinates are ± 25 bp from Illumina MAPINFO. The median M values for matUPD7s and controls and the M value for the patUPD7 are listed.

UCSC REFGENE NAME	CpG ID	start	end	matUPD7s	controls	patUPD
MAD1L1	cg25814293	1883226	1883276	0,869	1,610	1,793
MAD1L1	cg16172923	1883365	1883415	1,810	3,063	4,284
MAD1L1	cg16658412	1883395	1883445	0,819	1,532	2,284
MAD1L1	cg00589581	1883735	1883785	0,566	1,010	1,108
MAD1L1	cg12366968	1883851	1883901	-0,086	0,239	0,391
CARD11	cg19014792	3019134	3019184	1,104	1,480	2,168
CARD11	cg16495448	3019235	3019285	0,371	0,754	1,303
CARD11	cg00273359	3019289	3019339	-0,261	0,090	0,452
CARD11	cg06643466	3019357	3019407	-1,338	-0,927	-0,709
Intergenic	cg22526939	16626199	16626249	1,839	2,661	3,295
Intergenic	cg24231558	16626301	16626351	0,323	1,719	2,813
Intergenic	cg08577607	16626505	16626555	1,156	2,022	2,202
HOXA4	cg11532431	27169649	27169699	1,659	3,167	3,825
HOXA4	cg00562553	27169715	27169765	1,569	2,234	2,625
HOXA4	cg23884241	27169932	27169982	0,075	0,365	0,592
HOXA4	cg22997113	27170216	27170266	0,398	1,298	1,568
HOXA4	cg04317399	27170288	27170338	-1,190	-0,405	-0,232
HOXA4	cg07317062	27170363	27170413	-1,226	-0,031	0,146
HOXA4	cg19142026	27170369	27170419	-1,940	-0,346	-0,134
HOXA4	cg11410718	27170387	27170437	-1,001	0,059	0,287
HOXA4	cg11015251	27170529	27170579	-0,604	0,002	0,190
HOXA4	cg17457637	27170692	27170742	-1,404	-0,532	-0,319
HOXA4	cg03724423	27170730	27170780	-1,381	-0,299	-0,124
HOXA4	cg06942814	27170794	27170844	-0,114	0,339	0,437
HOXA4	cg08657492	27170807	27170857	-0,274	0,551	0,846
HOXA4	cg04321618	27170855	27170905	-1,164	-0,240	-0,087
HOXA4	cg14359292	27170867	27170917	-1,817	-0,575	-0,239
HOXA4	cg25952581	27170936	27170986	-0,936	-0,178	0,078
HOXA4	cg24169822	27170969	27171019	-1,063	0,028	0,352
HOXA4	cg17591595	27171026	27171076	1,001	1,492	1,865
HOXA4	cg11908057	27171129	27171179	1,835	2,473	2,956
PRR15	cg09635954	29605599	29605649	0,187	0,458	0,870
PRR15	cg08900404	29605783	29605833	-3,122	-2,174	-2,020
PRR15	cg10580293	29605872	29605922	-4,400	-3,312	-3,160
PRR15	cg23363754	29606057	29606107	-2,874	-1,829	-1,364
PRR15	cg18451588	29606264	29606314	-2,853	-2,037	-1,742
PRR15	cg06868100	29606324	29606374	-2,018	-1,008	-0,890
GLI3	cg02483271	42277925	42277975	-1,896	-1,644	-1,285
GLI3	cg17588800	42278042	42278092	-1,498	-1,089	-0,303
GLI3	cg24497732	42278052	42278102	-1,095	-0,820	-0,376
GLI3	cg14396995	42278064	42278114	-1,297	-0,900	0,155

GLI3	cg26557756	42278071	42278121	0,320	0,870	1,850
PON1	cg07404485	94953628	94953678	0,700	1,285	2,268
PON1	cg05342682	94953655	94953705	0,767	1,171	2,437
PON1	cg04155289	94953745	94953795	1,942	2,310	3,422
PON1	cg19678392	94953785	94953835	0,098	0,853	3,715
PON1	cg21856205	94953852	94953902	-0,084	0,264	1,166
PON1	cg17330251	94953931	94953981	-0,059	0,850	2,815
PON1	cg01874867	94954034	94954084	-0,467	0,494	2,468
PON1	cg20119798	94954119	94954169	0,683	1,684	3,019
PON1	cg04871131	94954177	94954227	1,986	2,571	3,969
SH2B2	cg01723606	101944250	101944300	2,538	4,220	4,522
SH2B2	cg07512361	101944405	101944455	0,639	1,747	1,970
SH2B2	cg00023808	101944531	101944581	3,062	3,188	3,625
SH2B2	cg24707573	101961771	101961821	-0,657	-0,411	-0,154
SH2B2	cg17190891	101962087	101962137	-0,546	-0,161	-0,058
SH2B2	cg08952306	101962098	101962148	0,136	0,399	0,557
RARRES2	cg08580268	150038477	150038527	-2,043	-0,891	0,214
RARRES2	cg17279839	150038573	150038623	-1,449	-0,758	-0,077
RARRES2	cg27494647	150038873	150038923	-1,707	-0,853	0,822
Intergenic	cg16561657	156400686	156400736	-2,886	-1,465	-0,598
Intergenic	cg18584424	156400754	156400804	-2,220	-1,337	-0,707
Intergenic	cg27483342	156400856	156400906	-2,168	-1,262	-0,841
Intergenic	cg08364137	156400965	156401015	-3,571	-2,362	-1,601

Supplementary Table 6. SNPs used for allele specific expression. Heterozygosity frequency for the minor allele for SNPs is according to HapMap in the CEPH and CEU populations.

Gene	SNP ID	Heterozygosity frequency
HOXA4	rs17471888	0,019
HOXA4	rs4722660	0,05
HOXA4	rs1801085	0,204
HOXA4	rs2158218	0,051
GLI3	rs3735361	0,496
GLI3	rs3823720	0,416
GLI3	rs2051935	0,354
GLI3	rs846266	0,531
SVOPL	rs1614641	0,383
SVOPL	rs3734944	0,434
SVOPL	rs2305816	0,398