

Table S1. Primers for pyrosequencing analysis.

DMR	Primers	N° CpGs analysed	Genomic Coordinates (hg19)
<i>H19/IGF2:IG - DMR</i>	Forward: 5'-Biotin/ GTGGTTTTTATGACTGTTTTATTTTGGATGA-3'	5	Chr11: 2,021,880- 2,022,088
	Reverse: 5'-ACTTCCCCTTCAATCTCACCA -3'		
	Sequencing: 5'-TACAAAATTAATTATAACTATAAAAAT-3'		
<i>IGF2:alt-TSS- DMR</i>	Forward: 5'-TGAGGATGGGTTTTTGT-3'	6	Chr11: 2,169,328- 2,169,581
	Reverse: 5'- Biotin/ CCTCCATCCACCCAAAATAATAT-3'		
	Sequencing: 5'-GGGGTGGAGGGTGTA-3'		
<i>KCNQ1OT1:TSS -DMR</i>	Forward: 5'-GGAGAGTATTGTTTAGGTTAGGTTGTAT -3'	9	Chr11: 2,720,485- 2,720,644
	Reverse: 5' Biotin/CCTCCCCATCTCTCTAAAAAAATTTAA-3'		
	Sequencing: 5'-GGTTAGGTTGTATTGTTG-3'		
<i>GNAS-AS1:TSS- DMR</i>	Forward: 5'-TAGGTTGTAGTGGGGTTAAAGGA-3'	8	Chr20: 57,426,890- 57,427,116
	Reverse: 5'-Biotin/ACCTCAAAATTTCCCAAATCCTACTATTCT-3'		
	Sequencing: 5'-GTGGGGTTAAAGGAG-3'		
<i>MEST:-alt-TSS- DMR</i>	Forward: 5'-Biotin/AATAAGGGGGTTTTGTTTTTTTAAT-3'	8	Chr7: 130,131,089- 130,131,334
	Reverse: 5'-AACCCACCACCAAATAAT-3'		
	Sequencing: 5'-TAACCACTATAACCAAATTAC-3'		
<i>NNAT:TSS- DMR</i> (Murphy, et al., 2012)	Forward: 5'-TAAATTTGTAGGTTAGGGATTGGG-3'	7	chr20:36149 325- 36149543
	Reverse: 5'- Biotin/CCAAAAAAAAAAAAAAAAATAATCCATCTACT-3'		
	Sequencing: 5'- TTGTAGGTTAGGGATTG-3'		
<i>RBI:Int2-DMR</i>	Forward: 5'- Biotin/ TGGGGTTAGGAGGTGAAAGTGG -3'	9	chr13:48892 910- 48893147
	Reverse: 5'-ACTACCCTACCCACCCCATATAA -3'		
	Sequencing: 5'-AACAAATCCCTTTCTACA -3'		
<i>NDN:TSS-DMR</i>	Forward: 5'-TGGGGGTTTAGGTTGTAAAGTTAG-3'	6	chr15:23932 310- 23932451
	Reverse: 5'- Biotin/ CACTTCCTCTCCAAAAATCC -3'		
	Sequencing: 5'- AGATTTTATTTTGTGTTTGATATG -3'		

The NNAT:TSS-DMR primers were previously reported in Murphy, S. K., Z. Huang and C. Hoyo. (2012), 'Differentially Methylated Regions of Imprinted Genes in Prenatal, Perinatal and Postnatal Human Tissues', *PLoS One* Vol. 7, No. 7, pp. e40924.