

Supplementary table

Table S1: PCR primers, sequence primers and PCR programs for technical validation

DMR	Primers (Forward, Reverse and Sequence)	Amplicon size	CpG sites (Illumina ID)
RNF180	F: 5'-GGTGGAAATTTTAGGTATAAGAAGGTAA-3'	229 bp	cg17621438 , cg07850154
	R: 5'-biotin-AAACCACAAAAATTATCCCTATAATCTCC-3'		
	S: 5'-ATTTTAGGTATAAGAAGGTAAG-3'		
	PCR program: 15 min at 95°C, 45 cycles of 30 s 94°C, 30 s 58°C, 30 s 72°C followed by 10 min at 72°C		
ZNF502	F: 5'-TTTAGAGGTGGATTGGGGTTAGGATATTA-3'	159 bp	cg21672276, cg10263370, cg11003573, cg15687855
	R: 5'-biotin-AAATACCTTCTTCTAAAATCCCATAAAA-3'		
	S: 5'-GGATATTAGTTTAAATTTTGAAT-3'		
	PCR program: 15 min at 95°C, 45 cycles of 30 s 94°C, 30 s 58°C, 30 s 72°C followed by 10 min at 72°C		

F: Forward primer, R: Reverse primer, S: Sequence primer, bp: basepair, min: minutes, s: seconds