

Supplementary Table 1. Primers for MS-HRM.

Gene	Primer sequence	Amplicon size (bp)	Annealing temperature
<i>H19</i>	F: 5'- GGG AGA GTT TGT GAG GT R: 5'- AAA TCC CCA CAA CCG CTA AAC	137	56°C
<i>MEST (UPD7)</i>	F: 5'- GTT GTT GGT TAG TTT TGT R: 5'- ACC CCC TCC TCA AAT AAA	279	56°C

Supplementary Table 2. Primer sequences for bisulfite PCR.

Sequence Description	Tm	Sequence	Size	Number of CpG investigated
H19Amp10-10F	61°C	aggaagagagGAGATTTGAGGTGAATTTTAGGGA	337bp	20
H19Amp10-T7R		cagtaatac gactcactatagggagaaggctCAAACAAAATCCCCACAACC		
MEST-Amp8-10F	58°C	aggaagagagTTTTAAAGGAGTTATTGTTAGAGGGG	598bp	66
MEST-Amp8-T7R		cagtaatac gactcactatagggagaaggctACCCCCTCCTCAAATAAACAAAA		