

Table S2: Bisulfite Specific primers and PCR conditions

Gene Name	Status	Primer Sequence	Chromosomal Coordinates	PCR condition
<i>NNAT</i> (neuronatin)	Commonly Methylated	FP- 5' ATTTATTAGGGTTTGGGGG 3' RP- 5' ATCATCTACCCCATAAAACAAA 3'	chr20:35,582,248-35,582,671	Step1- 95 ⁰ C – 5' Step2-95 ⁰ C – 30 60 ⁰ C – 1' 72 ⁰ C – 1.30' Step2 for 35 Cycle Step3-72 ⁰ C -10.00'
<i>LHX1</i> (LIM homeobox 1)	Vata Methylated	FP- 5' AGTAGGAGGGGGTTTAGGTA 3' RP- 5' TAAACTCTAAAAACCCCTC 3'	chr17:32,367,978-32,368,193	Step1- 95 ⁰ C – 5' Step2-95 ⁰ C – 30 60 ⁰ C – 1' 72 ⁰ C – 1.30' Step2 for 35 Cycle Step3-72 ⁰ C -10.00'
<i>SOX11</i> (SRY (sex determining region Y)-box 11)	Pitta Methylated	FP- 5' GGAGGTYGTYGTTTTAGGTT 3' RP- 5' TTTAAAAAATCCRCRTATATACAC 3'	chr2:5,749,505-5,749,799	Step1- 95 ⁰ C – 5' Step2-95 ⁰ C – 30 57 ⁰ C – 1' 72 ⁰ C – 1.30' Step2 for 35 Cycle Step3-72 ⁰ C -10.00'
<i>CDH22</i> (cadherin 22)	Kapha and High BMI Methylated	FP- 5'GGTTGGGGTTTAGGAGTATG 3' RP- 5'CTTCCCCRACTCTAAAACATC 3'	chr20:44,313,355-44,313,655	Step1- 95 ⁰ C – 5' Step2-95 ⁰ C – 30 60 ⁰ C – 1' 72 ⁰ C – 1.30' Step2 for 35 Cycle Step3-72 ⁰ C -10.00'