

**Additional File 4.** PCR and pyrosequencing primers for *ADIPOQ* gene CpG islands amplification and pyrosequencing.

Target Region	Target sequence (5' to 3')	Chromosomal Region <sup>a</sup>	Target sequence after NaBis treatment (5' to 3')	PCR and pyrosequencing primers (5' to 3')	Length PCR (bp)
CpG Island A AdipoA3	<u>TGCGGT</u> <u>CGCCCCGGCTCC</u> <u>CCGGCTCCAGAGCGCCCG</u> <u>CATTCCCGR</u> <u>GAGAGGCG</u> <u>ATGTGGGGGCCCGG</u>	Chr3:186 545 134 Chr3:186 545 202	<u>TGCGGT</u> <u>CG</u> <u>TTT</u> <u>CGG</u> <u>TTTT</u> <u>T</u> <u>CGG</u> <u>TTTT</u> <u>AGAGCG</u> <u>TT</u> <u>CG</u> <u>T</u> <u>ATTTT</u> <u>CG</u> <u>AGAGAGGCGA</u> <u>TGTGGGGG</u> <u>TT</u> <u>CGGG</u>	F: GGATTTTTATTTAGGAGAGTTGTTTT R: ACCCTAAACCTCCCCTTTCTACC seq: ATTTTTATTTAGGAGAGTTGTTTT	161
CpG Island C AdipoC1	<u>CGCGGTGGCTACGCCTG</u> <u>TCATTCCAGCACTTTGGG</u> <u>AGGCCG</u>	Chr3:186 557 086 Chr3:186 557 128	<u>CGCGGTGG</u> <u>TTT</u> <u>ACG</u> <u>TTTG</u> <u>TT</u> <u>ATTTT</u> <u>AGT</u> <u>ATTTT</u> <u>GGG</u> <u>AGG</u> <u>T</u> <u>CG</u>	F: GGTGGTAGGAGGTGATAGTTTAA R: ACTCCCCACCTCAAATAATCCAC seq: GAAATGTTTTTTTTGGTTAGG	199
CpG Island E AdipoE2	<u>GCGTACG</u> <u>TATGTGGATGT</u> <u>GTGGATGTGGTGTGTGGK</u> <u>TGTGCGCGT</u>	Chr3:186 562 910 Chr3:186 562 954	<u>GCGTACG</u> <u>TATGTGGATGT</u> <u>GTGGATGTGGTGTGTGGG</u> <u>TGTGCGCGT</u>	F: TGGTGAGTGGGATGTTTTGTTTTA R: ACACACACCTCCACCTAT seq: CACACACCTCCACCTATA	180

The CpG island are numbered according to Bouchard *et al.* 2012 [24]. The underlined CpG sites were epigenotyped in the current study.

T in red font are cytosines that have been converted to thymine after Nabis treatment of DNA

F; Forward. R; Reverse. Seq; Sequencing

The primers were designed from bisulfite converted sequence using Pyromark Assay Design software (version 2.0.1.15; Qiagen).

<sup>a</sup>UCSC Genome Brower (Human Feb, 2009: NM\_001177800)