

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Differentially methylated regions

File Name: Supplementary Data 2

Description: Hi-C genes interacting with differentially methylated regions

File Name: Supplementary Data 3

Description: Differentially expressed genes by RNA-seq

File Name: Supplementary Data 4

Description: Haplotype analysis

File Name: Supplementary Data 5

Description: Primers