

## Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: A list of the activated genes in the *DNMT1*-KO vs control NPCs.

File name: Supplementary Data 2

Description: We found 131 primate-specific L1s with potential alternative promoter activity which are listed in this table. These L1s were identified by their overlap with TSS coordinates of protein-coding genes in gencode (v25).

File name: Supplementary Data 3

Description: A complete list of GO terms upon analysis of genes influenced by L1 activation.

File name: Supplementary Data 4

Description: All primers used in this study are listed in this table.