

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Patients' information.

File Name: Supplementary Data 2

Description: Differential expression analyses of RNA-seq data between HL-60 cells transduced with control and JMJD3-expressing vector.

File Name: Supplementary Data 3

Description: Differential expression analyses of RNA-seq data between parental and *JMJD3* KO HL-60 cell lines.

File Name: Supplementary Data 4

Description: List of C/EBP $\beta$  target genes.

File Name: Supplementary Data 5

Description: Sequence of PCR primers.