

Supplementary information, Figure S1 Transcriptome-wide identification of m⁵C sites by RNA-BisSeq. (A) For ribonucleoside standards, 5 fmol of each of m⁵C and hm⁵C, 20 fmol of each of C, G, and A, 400 fmol of U were used. 40 ng of mRNA for each sample was used to

analyze m⁵C and hm⁵C, and 0.02 ng was used to analyze C, U, G and A. (**B**) m⁵C sites within *FURIN* (chr15:91425541) and *PLOD3* (chr7:100849671) (hg19) identified by RNA-BisSeq were validated. cDNA was amplified by PCR using normal primers for untreated mRNAs and specific primers for bisulfite treated mRNAs. (**C**) Venn diagram showing the overlap of m⁵C sites within RNAs between two HeLa replicates. (**D**) The Pearson correlation of common m⁵C levels between two HeLa replicates. (**E**) Percentage of m⁵C sites within various RNA categories. (**F**) Bar chart showing the percentage of CG, CHG and CHH contexts within 5' UTR, CDS, intron and 3' UTR regions in transcriptomes. (**H**) Distribution of m⁵C sites and C sites were shown. (**I**) Relationship between m⁵C levels and mRNA abundance in HeLa cells (R = 0.002). (**J**) Representative gene ontology (GO) terms enriched in m⁵C-containing mRNAs.