

Supplementary Data 1: m6A prediction results from mESC DRS data by various tools and their performance as evaluated using GLORI benchmarks.

Supplementary Data 2: m6A prediction results from mESC DRS data by various tools and their performance as evaluated using eTAM-seq benchmarks.

Supplementary Data 3: m6A prediction results from Arabidopsis DRS data by various tools and their performance as evaluated using GLORI benchmarks.

Supplementary Data 4: Evaluation metrics and their values when training final-version and 004-version SingleMod, and A-to-G conversion rate of GLORI experiments.

Supplementary Data 5: m6A quantification at single-molecule level for different genes and isoforms in human cell lines.

Supplementary Data 6: m6A profiling by SingleMod in various species.