Title: Supplementary Data 1.

Description: The efficiency dataset of mutation targets for ABE

Title: Supplementary Data 2.

Description: The efficiency dataset of mutation targets for CBE.

Title: Supplementary Data 3.

Description: The GC content of ABE library.

Title: Supplementary Data 4.

Description: The GC content of CBE library.

Title: Supplementary Data 5.

Description: The independent t-test pvalue (bonferroni correction) across position in ABE.

Title: Supplementary Data 6.

Description: The independent t-test pvalue (bonferroni correction) across position in CBE

Title: Supplementary Data 7.

Description: The benchmark results of various models for ABE

Title: Supplementary Data 8.

Description: The third-party off target datasets of ABE (endogenous)

Title: Supplementary Data 9.

Description: The benchmark results of various models for CBE

Title: Supplementary Data 10.

Description: The third-party off target datasets of CBE (endogenous)

Supplementary Data 11. The third-party off target datasets of ABE (in vitro)

Supplementary Data 12. The third-party off target datasets of CBE (in vitro)

Supplementary Data 13. The sequences of oligonucleotides

Supplementary Data 14. The hyperparameters used for Tree-structured Parzen Estimator