

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Amino acid sequences of 62 IS621 homologous proteins.

File Name: Supplementary Data 2

Description: Potential off-target sites analyzed by modified UDiTaS strategy.

File Name: Supplementary Data 3

Description: Potential off-target sites analyzed by GUIDE-seq.

File Name: Supplementary Data 4

Description: Endogenous target loci and corresponding bRNA sequences.

File Name: Supplementary Data 5

Description: List of PCR primers.

File Name: Supplementary Data 6

Description: List of PCR primers for offtarget sites.