

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Highly variable genes omitted and/or flagged in downstream analyses.

File Name: Supplementary Data 2

Description: Total nUMIs, raw viral read count, normalized viral read count for cells with more than 2000 detected genes.

File Name: Supplementary Data 3

Description: Correlation of host genes with viral transcription

File Name: Supplementary Data 4

Description: Sequence of the reporter plasmid insert, codon-optimized sequences used for the UL23/UL50/UL33/US2 expression plasmids.