

**Table S2. Targeting sequences and oligoes used in this study.**

Name	Sequences
ACE2 sgRNA targeting sequence	CTTGGCCTGTTCTCAATGGTGG
shACE2-1, targeting sequence	GCAACGGTGTATCCTAGTTCT
shACE2-2, targeting sequence	GAAAGCTAGGTGGACCAGTAT
shASGR1-1, targeting sequence	GTCCTGGGAGGAGCAGAAATT
shASGR1-2, targeting sequence	GAAGGTGAGGAGCTTGAAACC
shKREMEN1-1, targeting sequence	GGACCTTAGGGATTGTCATCA
shKREMEN1-2, targeting sequence	GCTTCATCGATTGCACCTTAGG
qPCR, ACE2-For	5'-CGAAGCCGAAGACCTGTTCTA-3'
qPCR, ACE2-Rev	5'-GGGCAAGTGTGGACTGTTCC-3'
qPCR, KRM1-For	5'-ACTGTGAGATACCTGCTTGCC-3'
qPCR, KRM1-Rev	5'-GTTGGACGTTTTACTGGTGCC-3'
qPCR, ASGR1-For	5'-GAGAGAGACGTTTCAGCAACTTC-3'
qPCR, ASGR1-Rev	5'-GGGACTCTAGCGACTTCATCTT-3'
qPCR, GAPDH-For	5'-ACAACCTTGGTATCGTGGAAGG-3'
qPCR, GAPDH-Rev	5'-GCCATCACGCCACAGTTTC-3'
SARS-CoV-2-N-F	5'-GGGGAACCTTCTCCTGCTAGAAT-3'
SARS-CoV-2-N-R	5'-CAGACATTTTGCTCTCAAGCTG-3'
SARS-CoV-2-N-probe	5'-FAM- TTGCTGCTGCTTGACAGATT-TAMRA-3'.
SARS-CoV-2-ORF1ab-F	5'-GAAAATAGGACCTGAGCGCACC-3'
SARS-CoV-2-ORF1ab -R	5'-TGACAATACAGATCATGGTTGCTTTGT-3'
SARS-CoV-2-ORF1ab-probe	5'-FAM-TAGACGTGCCACATGCTTTTCCACTGCTTCAGAC - BHQ1-3'.