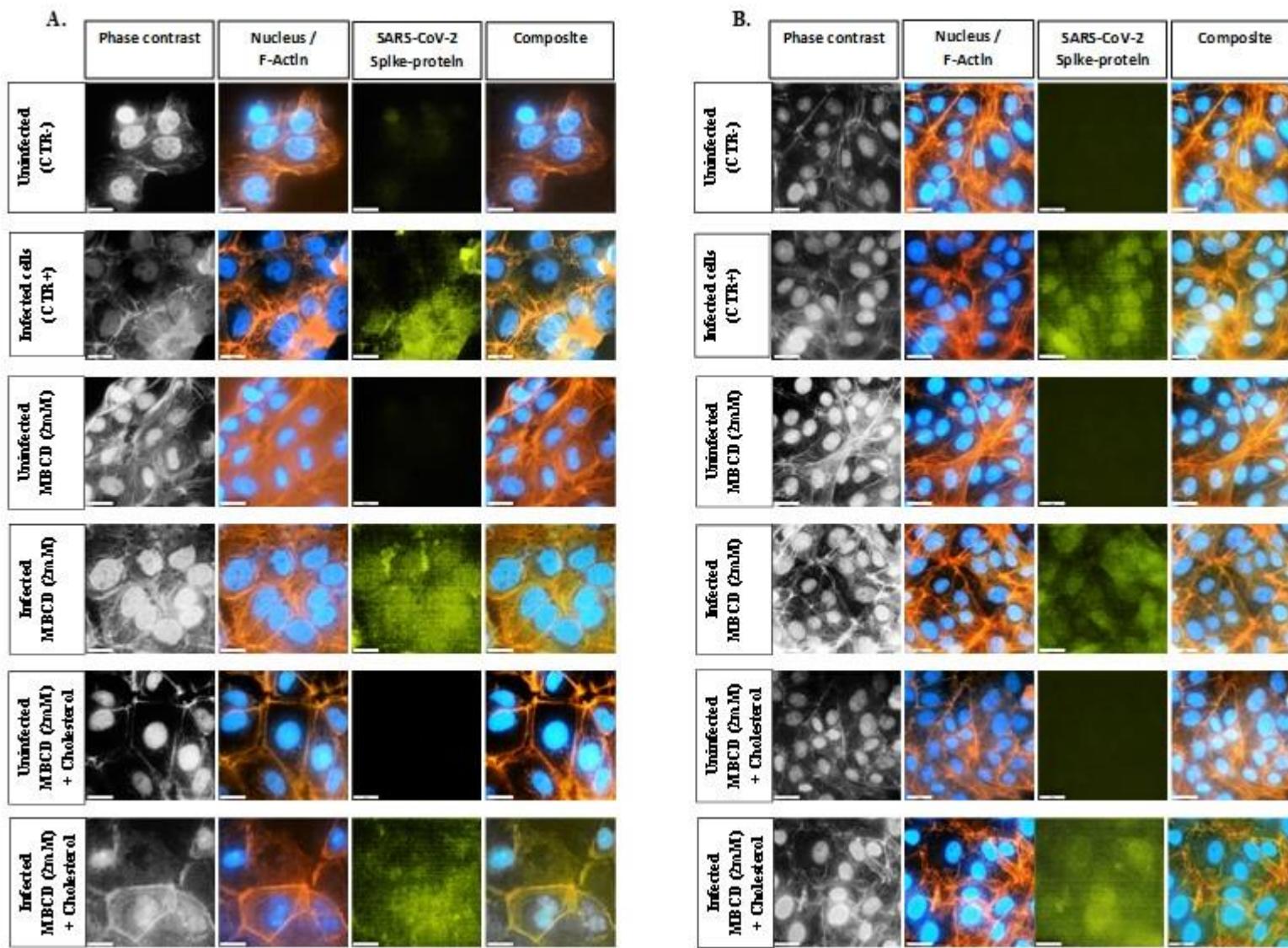


**Figure S1. Effects of cholesterole-depleting agent MBCD on the content of intracellular cholesterol.** Huh7 and Vero E6 cells were grown in DMEM containing 10% FBS until confluence, and then treated with increasing concentrations of MBCD for 1h to deplete cholesterol from cells (**Panel A**, N=3). In subsequent experiments, Huh7 (**Panel B**, N=2) and Vero E6 cells (**Panel C**, N=2) were treated with either BMCD alone (10 mM) or MBCD-cholesterol complexes (10 mM- 0.125 mM) for 5min-60 min. After the treatment, total cholesterol was extracted from the cells and measured by colorimetric cholesterol assay.



**Figure S2. M $\beta$ CD treatment did not disturb the cell morphology in wild-type SARS-CoV-2 infected cells.** Huh7 and Vero E6 cells were treated with M $\beta$ CD (2mM) or M $\beta$ CD + cholesterol for 1h prior infection with wild-type SARS-Co-V2pp (MOI=0.1). At 48h p.i., Huh7 (Panel A) and Vero E6 cells (Panel B) were fixed and analyzed by immunofluorescence staining using DAPI for cell nuclei (blue), anti-actin antibody (orange), SARS-Co-V2 anti-spike proteins (green) and merged double stained (composite). M $\beta$ CD-treated cells were compared to controls: untreated-uninfected (CTR-) and untreated-infected (CTR+) cells. Images were taken and analyzed with resolution of fluorescence microscopy up to 20 $\mu$ m.

**Table S1.** Primers and probes used to detect SARS-CoV-2

Gene	Primer/Probe	Sequence (5'-3')
RdRp-gene	RdRP_SARSr-F2	GTGARATGGTCATGTGTGGCGG
	RdRP_SARSr-R1	CARATGTTAASACACTATTAGCAT
	RdRP_SARSr-P2	FAM CAGGTGGAACCTCATCAGGAGATGC-BBQ
	RdRP_SARSr-P1	FAM-CCAGGTGWACRTCATCMGGTGATGC-BBQ
E-gene	E_Sarboco_F1	ACAGGTACGTTAATAGTTAATAGCGT
	E_Sarboco_R2	ATATTGCAGCAGTACGCACACA
	E_Sarboco_P1	FAM-ACACTAGCCATCCTTACTGCGCTTCG-BBQ
N-gene	N_Sarboco_F1	CACATTGGCACCCGCAATC
	N_Sarboco_R1	GAGGAACGAGAAGAGGGCTT
	N_Sarboco_P1	FAM-ACTTCCTCAAGGAACAACATTGCCA-BBQ

R, A/G; W, A/T; FAM, 6-fluorescein amidite; BBQ, blackberry quencher

**Table S2.** List of primers used for qRT-PCR

Target Gene (Human)	Primer Sequences (5' -3')
CH25H	F: CTTTCCGTGGAGGACCACTC R: GTGAGAGTGATGCAGGTCGT
SREBF1	F: CAGCAGCTACTGACAGTCACA R: CTTGATGAAGTGGGCTGC
SCAP	F: TGCACTGAACCTGGACTTGG R: CCCAAAGTGCCTGACAGATG
LDLR	F: CGTGCCTCGTCTCCTT R: TCTGTCAGGGTAGCTG
ACAT1	F: GTTCTGGTCCAAAACGCC R: CGCCGAGACCTTGAAGTAG
HMGCR	F: CTCTTATTGGTCGAAGGCTCG R: CCACAAAGAGGCCATGCATT
HMGCS1	F: GGGCGTTGAGGTCTAGGTATTCT R: TTTCCTCCCTCGGGCACTCTA
APOA1	F: CTGTTGCCACTCTATTGCC R: CCTGTTGCTCACTGGTC
APOB	F: ACTGCTAACAGGCATGGCACT R: TGCCGTGATCTCAAATGGCT
SREBF2	F: TCTGGAGACCATGGAGACCC R: GTCAGGGAACCTCCCCACTTG
NPC1L1	F: TGAGCTGCATGGCTGACTAC R: AGGGCCTCTGCCTCAGAATA
PPARA	F: GCGAACGATTGACTCAAGC R: CCAGGACGATCGTTGTGTA
PPARG	F: CCAGAACGCTGCATTCTGC R: CACGGAGCTGATCCCAAAGT
PPARD	F: CCGGGACAGTGTGTACAGT R: AGGTCTCGTTGGTCATCTG
FDFT1	F: GCATGAGCGACTTTGCGTG R: GCCTGGATAACAGCTGCGAA
NR1H2	F: TGTCCCTCCTACCACGAGT R: TTCAGAAAGGACGCCAGT
NR1H3	F: AGCCAAGGTACAGGTAACGA R: GGTTCCAGCTTGTGCTGC
MBTPS1	F: GGACCAAGTGTGCTCTCCA R: CTGCTCTACACTGGGGGAT
MBTPS2	F: TGTGGCTCACCTGACCGACT R: TCCGTGTTTCCAGCCAGT
ACAT2	F: GACTTCGTCTCCTCGTGCC R: CCCCAAATCCGAAGGACTGG
ACE2	F: GGGATCAGAGATCGGAAGAAGAAA R: AGGAGGTCTGAACATCATCAGTG
ABCA1	F: GGGTGGTGTCTCCTCATTACTG R: CGGCCCTCACATCTCATCTTCATC
ACTIN	F: ATCGTGCCTGACATTAAGGAGAAG R: AGGAAGGAAGGCTGGAAGAGTG

F, forward; R, reverse