

Supplementary Materials

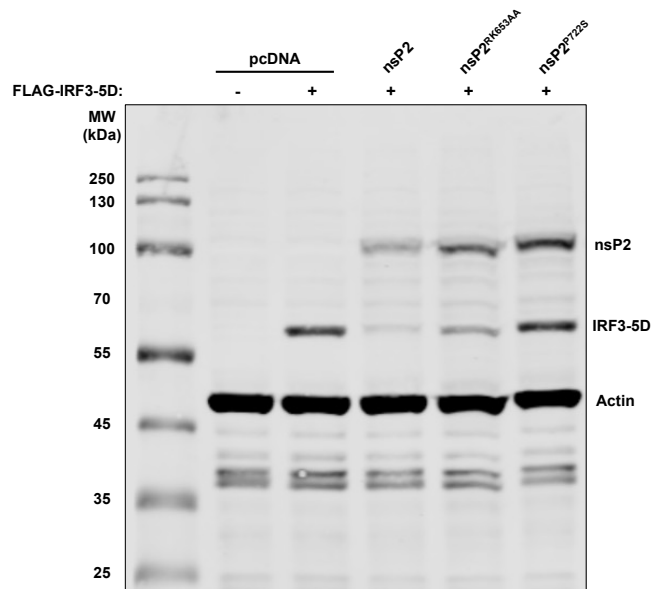


Figure S1. Full blot image from Figure 3E.

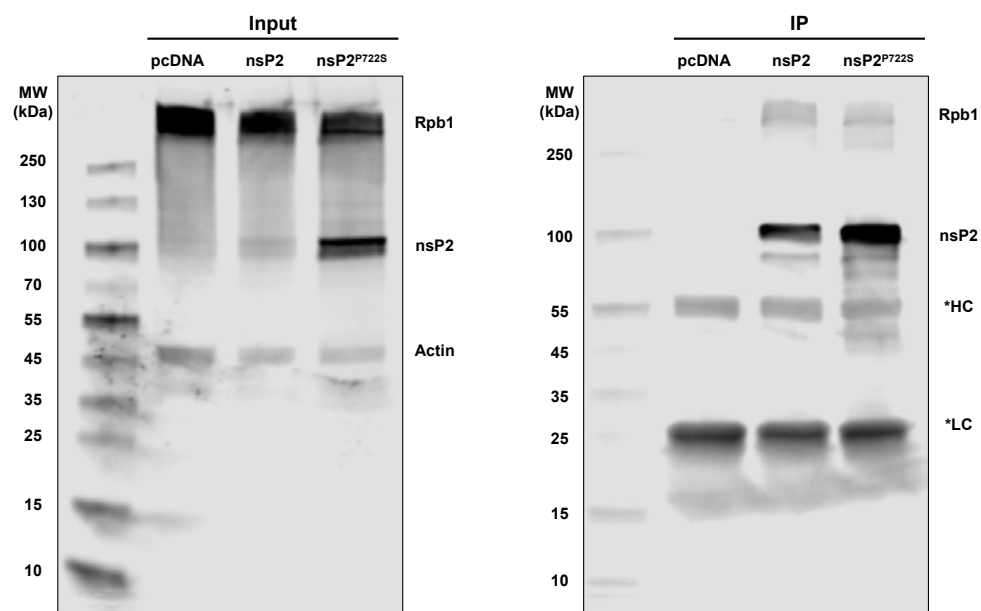


Figure S2. Full blot images from Figure 4B.

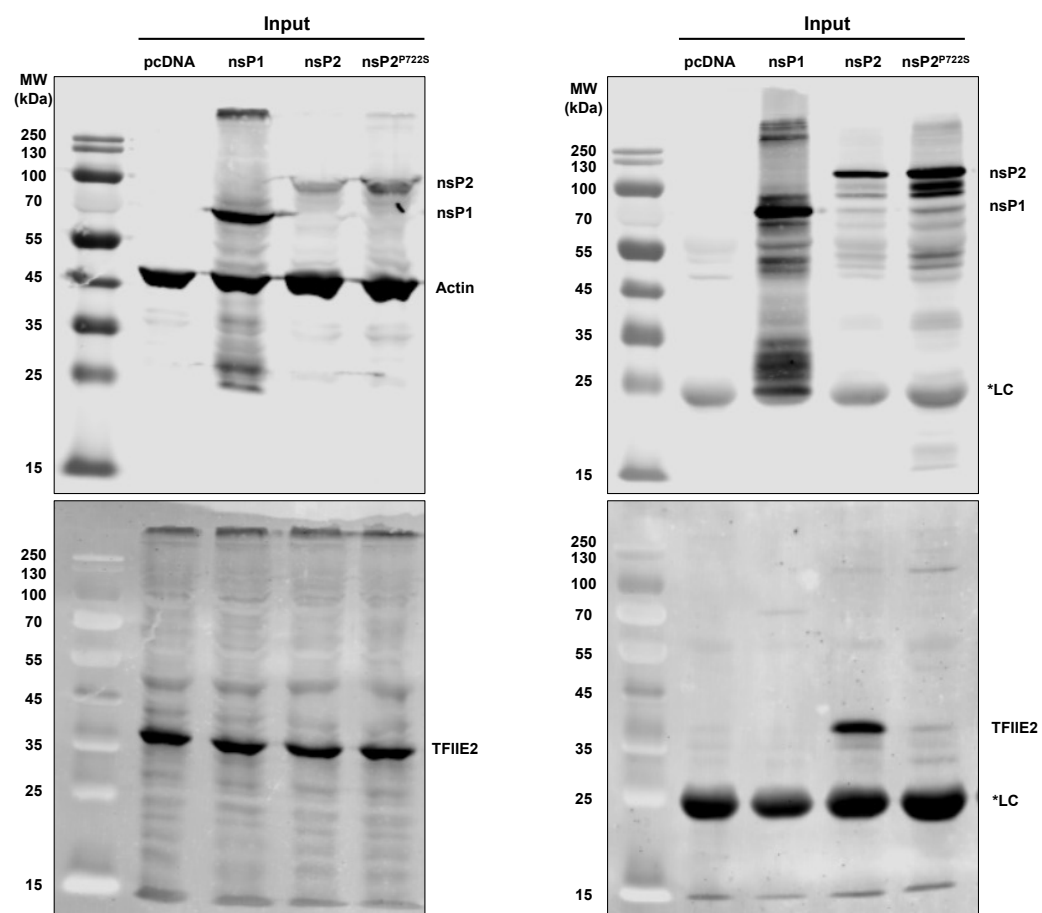


Figure S3. Full blot images from Figure 4C.

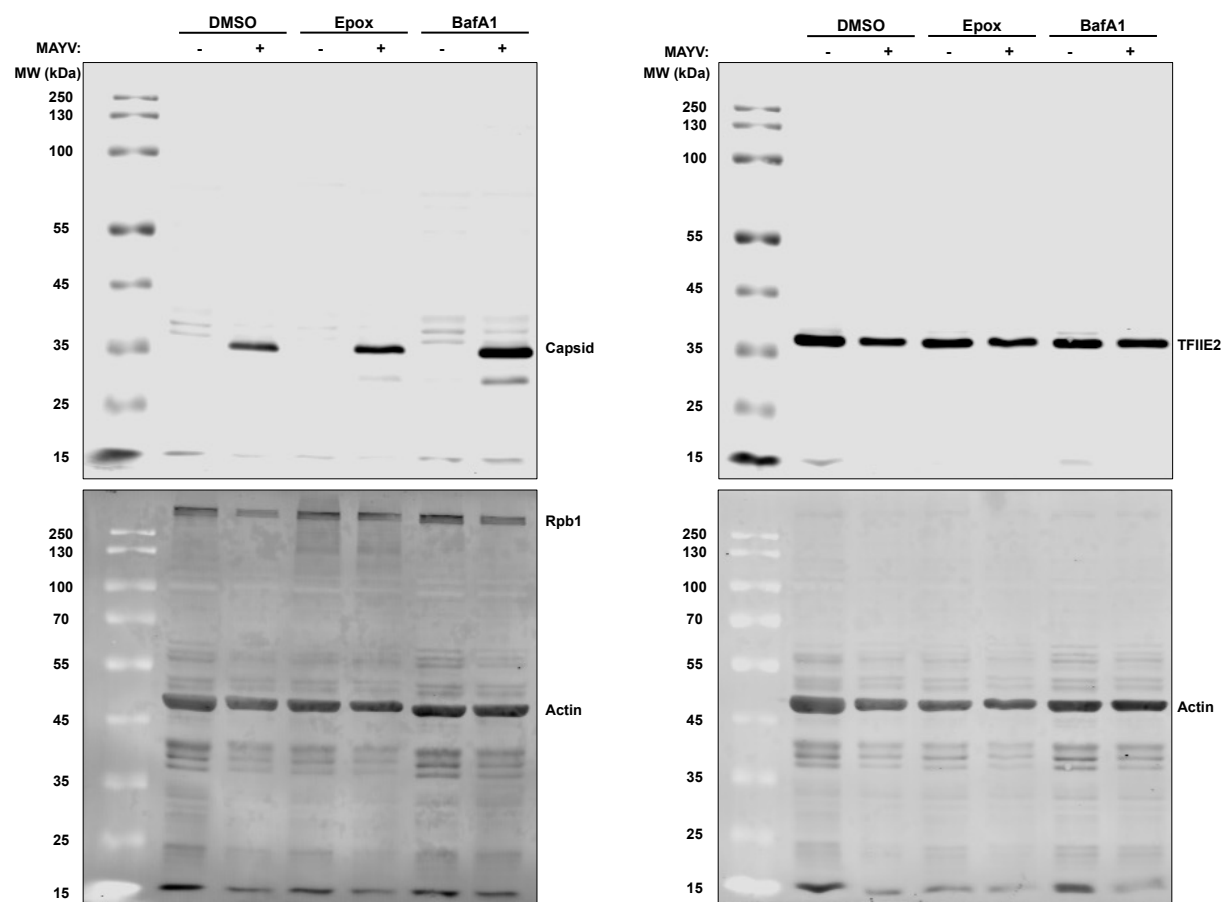


Figure S4. Full blot images from Figure 5E.

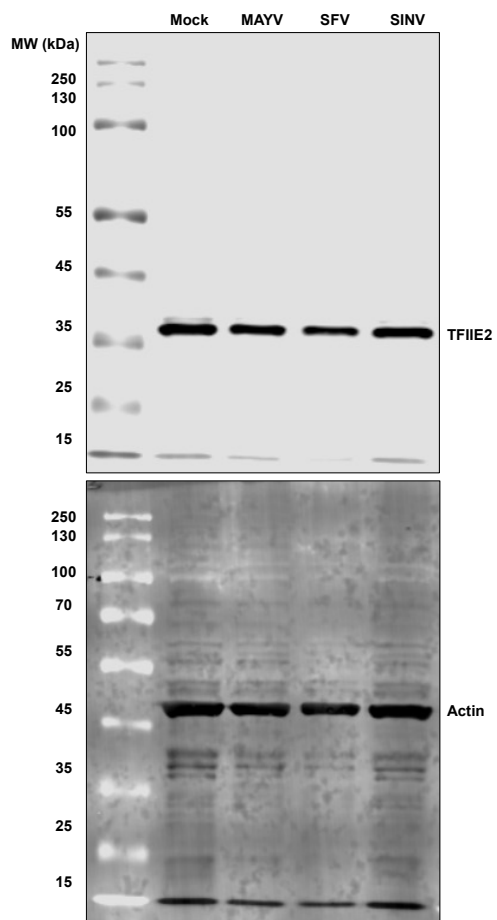
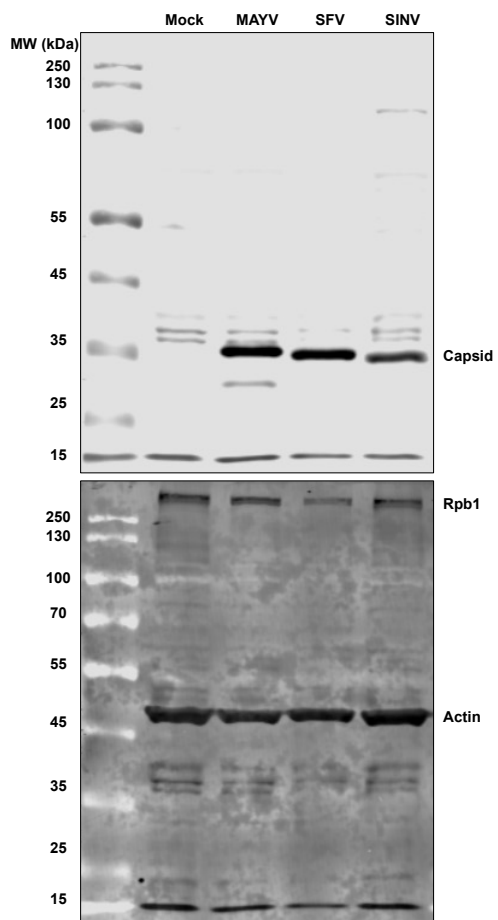


Figure S5. Full blot images of Figure 5H.

Table S1. Primers used for cloning viral proteins.

PCR Target	Primer sequences (5'→3')
nsP1	Fwd: ATATATGCTAGCATGTCGAAAGTCTTTGTAGATATC Rev: ATATATGGCCGGCCAAACTCCAACCTTCCACATCCAC
nsP2	Fwd: ATATATGCTAGCATGCGAGCGGGAGCCGGTGTGTCGAGA Rev: ATATATGGCCGGCCGCAACCAGCTGCCTGCAGCACTGT
nsP3	Fwd: ATATATGCTAGCATGGCTCCAGTGTATGCCGTTAAAAGG Rev: ATATATGGCCGGCCTCAAGATGAATTACTAATGGTTTC
nsP4	Fwd: ATATATGCTAGCATGCTAGGCCGTGCGGGGGCCTATATT Rrev: ATATATGGCCGGCCTTTAGGACCGCCGTACAGATGTAT
E3-E2	Fwd: ATATATGCTAGCATGGCGGCCTCGACAGTGACAGCTATG Rev: ATATATGGCCGGCCTGCATGTGCTTTCGGTGCGCAACA
C	Fwd: GCTGGCTAGCATGGACTACAAAGACCATGACGGTGATTATAAAGATCATGACATCGA CTACAAGGATGACGATGACAAGGGCGGGAGCGGCGGGATGGACTTCCTACCAACTC AAGTGTT Rev: GTTTAAACTTAAGCTTGGATCCTA
6K-E1	Fwd: ATATATGCTAGCATGGCAACAAATGTCTGACACCATATG Rev: ATATATGGCCGGCCCCTTCTCAAAGTTATGCAAGTAAC
nsP2 ^{4protease}	Fwd: CAAGCTGGCTAGCATGCGAGCGGG Rev: CCGCCGGGCGCGCCACATCCAAAGGAGCTGCTTCCTG
nsP2 ^{4helicase}	Fwd: AGCTGGCTAGCATGTTCCAGAATAAAGCTAAAGTGTGC Rev: CGCCGGGCGCGCCGCAACCAGCTG
nsP2 ^{K197N}	Fwd: CAAGCTGGCTAGCATGCGAGCGGG Rev: TTCCAAAACGGGTACCAGGCATTT Fusion fwd: GTCTTGGGCGTGCCCGGATCTGGAAATTCAGGTATAATCAAGAGCC TGGTT Fusion rev: AACCAGGCTCTTGATTATACCTGAATTTCCAGATCCGGGCACGCCCA AGAC
nsP2 ^{C478A}	Fwd: CAAGCTGGCTAGCATGCGAGCGGG Rev: AAAACGGGTACCAGGCATTTGGCCCAGGCCACTTTAGCTTTATTCTGGAAC
nsP2 ^{RK653AA}	Fwd: AAATGCCTGGTACCCGTTTTGGAA Rev: CGCCGGGCGCGCCGCAACCAGCTG Fusion fwd: GAGTACAACCTCATCTTGCCGAGGGCAGCGGTGACGTGGATTGCTCCGCCGACT Fusion rev: AGTCGGCGGAGCAATCCACGTCACCGCTGCCCTCGGCAAGATGAGGTTGTACTC
nsP2 ^{P72S}	Fwd: AAATGCCTGGTACCCGTTTTGGAA Rev: CGCCGGGCGCGCCGCAACCAGCTG Fusion fwd: GCACTTTACCTACTGAAATCTGGGGGAAGCCTCCTTTTGAG Fusion rev: CTCAAAAGGAGGCTTCCCCCAGATTTTCAGTAGGTAAAGTGC

Table S2. Primers used for qRT-PCR.

Target Gene	Primer sequences (5'→3')
MAYV nsP1	Fwd: TTCCGAACCAAGTGGGATTC Rev: CACTTTACGTAYGGKGATGG
SeV HN	Fwd: AAAATTACATGGCTAGGAGGGAAAC Rev: GTGAATGGAATGGTTGTGACTCTTA
<i>ACTB</i>	Fwd: CCTGGCACCCAGCACAAT Rev: GCCGATCCACACGGAGTACT
<i>ifnb</i>	Fwd: TAGCACTGGCTGGAATGAGA Rev: TCCTTGGCCTTCAGGTAATG
<i>ifnl2</i>	Fwd: AGTTCCGGGCCTGTATCCAG Rev: GAGCCGGTACAGCCAATGGT
<i>GAPDH</i>	Fwd: ACAGTCAGCCGCATCTTCTT Rev: GTTAAAAGCAGCCCTGGTGA
<i>Tuba1a</i>	Fwd: GCAACAACCTCTCCTCTTCG Rev: GAATCATCTCCTCCCCCAAT

Table S3. MiST analysis-based scoring of nsP2 interacting cellular proteins.

Table S4. GO enrichment analysis of nsP2 interacting cellular proteins.