

Table S2. Oligonucleotides used in this study. Related to STAR Methods.

DNA Quickchange primer forward: 5'-AGCCATCATCATCATCACAGCAGCGG CCTGGAGGTGCTGTTCCAGGGACCTCATATGGCTGTGGGTGCCTGCGTCCTG TGC-3'	IDT
DNA Quickchange primer reverse: 5'-GCACAGGACGCAGGCACCCACAGCCATA TGAGGTCCTGGAACAGCACCTCCAGGCCGCTGCTGTGATGATGATGATGAT GGCT-3'	IDT
E. coli_codon_optimized_nsp7_from_NC_045512.2: 5'-AGTAAGATGAGCGATGTA AGTGTACGTCAGTTGTTCTTCTGTCTGTACTTCAGCAGCTTCGTGTTGAATCAT CGTCCAAGCTGTGGGCCAGTGCCTACAGTTACACAACGACATTTTGTCTGGC GAAGGATACAACGGAAGCCTTTGAGAAGATGGTCTCATTACTTTCGGTCCTTC TTAGTATGCAGGGGCCGTAGACATCAATAAGTTATGTGAAGAAATGCTTGAC AACCGTGCAACGTTACAG-3'	gBlocks, IDT
E. coli_codon_optimized_nsp8_from_NC_045512.2: 5'-GCGATTGCGTCAGAGTTC TCAAGTCTTCTAGCTACGCAGCCTTTGCAACCGCTCAGGAAGCATAACGAGCA AGCGGTTGCGAATGGCGACAGCGAGGTCGTATTAATAAAATTGAAAAAAGCC TTAACGTAGCCAAATCCGAATTCGACCGCGACGCAGCGATGCAGCGCAAATTA GAGAAGATGGCCGATCAGGCCATGACACAGATGTATAACAAGCACGCAGTG AAGATAAGCGTGCAAAGGTTACTTCTGCGATGCAAACAATGCTTTTTACGATGT TGCGTAAATTAGACAATGACGCGTTAAACAACATCATTATAATGCCGCGATG GATGCGTACCTCTGAATATTATTCCGTTGACAACCGCCGCGAAATTAATGGTA GTGATTCTGACTACAATACCTATAAAAACACCTGCGACGGAACAACGTTTACA TACGCCTCAGCACTGTGGGAGATTGAGCAGGTGGTGGACGCTGACTCTAAAT CGTACAGTTGTCAGAAATTAGTATGGACAATAGTCCTAACCTTGCTTGCCACT TATTGTCACAGCTCTTCGTGCAAATTCGCGGTCAAATTGCAG-3'	gBlocks, IDT
I_nsp7_CDFDuet_F: 5'-CGTCGACATGAGTAAGATGAGCGATGTTAAGTGTA-3'	IDT
I_nsp7_R_MCS_spacer: 5'-GCATTACTGTAACGTTGCACGGTTGT-3'	IDT
I_nsp8_CDFDuet_R: 5'-AGGTTAATTACTGCAATTTGACCGCGGAAT-3'	IDT
I_nsp8_F_MCS_spacer: 5'-TATACATATGGCGATTGCGTCAGAGTTCTC-3'	IDT
nsp12_frame_shift_forw: 5'-TCAGCTGATGCACAATCGTTTTAAACCGGGTTTGC GGTGTAAG-3'	IDT
nsp12_pRSF_BamHI_forw: 5'CGCGGATCCGCTGATGCACAATCGTTTTAAACC-3'	IDT
nsp12_pRSF_XhoI_rev:5'-CCCGCTCGAGCGGTCACTGTAAGACTGTATGCGGT GTGTACATAGC-3'	IDT
nsp12_RT_oligo_rev: 5'-GATGTTGATATGACATGGTTCGTAACAGC-3'	IDT
nsp12_sequencing_primer_1_forw: 5'-CGCCAACTTAGGTGAACGTGTACGCC-3'	IDT
nsp12_sequencing_primer_2_forw: 5'-GGAATTACTTGTGTATGCTGCTGACCC-3'	IDT
nsp12_sequencing_primer_3_forw: 5'-GCTCGCACCGTAGCTGGTGTCTCTATC-3'	IDT
pCDFDuet MCS Spacer: 5'-TAATGCTTAAGTCGAACAGAAAGTAATCGTATTGTA CACGGCCGCATAATCGAAATTAATACGACTCACTATAGGGGAATTGTGAGCGG ATAACAATCCCCATCTTAGTATATTAGTTAAGTATAAGAAGGAGATATACATAT G-3'	gBlocks, IDT
Primer RNA (biochemistry): 5'-GUCAUUCUCCUAAGAAGCUA-3'	Horizon Discovery Ltd./Dharmacon
Primer RNA (cryo-EM): 5'-CGCGUAGCAUGCUACGUCAUUCUCCUAAGAAGCUA -3'	Horizon Discovery Ltd./Dharmacon
Template RNA (biochemistry): 5'-CUAUCCCCAUGUGAUUUUAAUAGCUUCUUAG GAGAAUGAC-3'	Horizon Discovery Ltd./Dharmacon

Template RNA (cryo-EM): 5'-CUAUCCCCAUGUGAUUUUAAUAGCUUCUUAGGA GAAUGACGUAGCAUGCUACGCG-3'	Horizon Discovery Ltd./Dharmacon
V_CDFDuet_F_nsp8_overlap: 5'-CAAATTGCAGTAATTAACCTAGGCTGCTGCCA C-3'	IDT
V_CDFDuet_R_nsp7_overlap: 5'-TCATCTTACTCATGTCGACGGGCCCT-3'	IDT