

Supplementary Dataset S1. Reference sequences of nsp7 and nsp8 for Conserve Domain Database (CDD) Analysis.

NCBI Reference (Nsp7)	Description
6NUR_C	Severe acute respiratory syndrome-related coronavirus
1YSY_A	Severe acute respiratory syndrome-related coronavirus
2AHM_A	SARS coronavirus
6WIQ_A	Severe acute respiratory syndrome coronavirus 2
6WTC_C	Severe acute respiratory syndrome coronavirus 2
7BV2_C	Severe acute respiratory syndrome coronavirus 2
AAP33696	SARS coronavirus Frankfurt 1
ADY69163	Zaria bat coronavirus
YP_009072438	Bat Hp-betacoronavirus/Zhejiang2013
P0C6T6	Rousettus bat coronavirus HKU9
AOG30811	Rousettus bat coronavirus
AWV67038	Bat coronavirus
AGT28265	Betacoronavirus Erinaceus/VMC/DEU/2012
QGA70691	Erinaceus hedgehog coronavirus HKU31
AUM60023	Middle East respiratory syndrome-related coronavirus
P0C6W4	Pipistrellus bat coronavirus HKU5
BBJ36006	Bat coronavirus

ASL68951	Hypsugo bat coronavirus HKU25
AVV62535	Middle East respiratory syndrome-related coronavirus
P0C6W3	Tylonycteris bat coronavirus HKU4
K9N7C7	Betacoronavirus England 1
ANA96038	Bat coronavirus
P0C6W9	Bovine coronavirus Mebus
P0C6X4	Human coronavirus HKU1 (isolate N5)
ATP66731	Rodent coronavirus
P0C6V0	Murine hepatitis virus strain A59

NCBI Reference (Nsp8)	Description
2AHM_E	SARS coronavirus
7BV1_B	Severe acute respiratory syndrome-related coronavirus
6NUR_B	Severe acute respiratory syndrome-related coronavirus
6NUS_B	Severe acute respiratory syndrome-related coronavirus
7BV2_B	Severe acute respiratory syndrome-related coronavirus
2AHM_H	SARS coronavirus
NP_828850	Severe acute respiratory syndrome-related coronavirus
P0C6V9	Bat CoV 279/2005

<u>P0C6W2</u>	Bat SARS coronavirus HKU3
<u>P0C6F7</u>	Bat coronavirus (BtCoV/133/2005)
<u>P0C6T4</u>	Tylonycteris bat coronavirus HKU4
<u>P0C6T5</u>	Pipistrellus bat coronavirus HKU5
<u>P0C6T6</u>	Rousettus bat coronavirus HKU9
<u>P0C6U3</u>	Human coronavirus HKU1 (isolate N1)
<u>P0C6V0</u>	Murine hepatitis virus strain A59
<u>AIG13097</u>	Coronavirus Neoromicia/PML-PHE1/RSA/2011
<u>YP_009072438</u>	Bat Hp-betacoronavirus/Zhejiang2013
<u>AJA91214</u>	Betacoronavirus HKU24
<u>AOG30811</u>	Rousettus bat coronavirus
<u>ASL68952</u>	Hypsugo bat coronavirus HKU25
<u>ATP66760</u>	Rodent coronavirus
<u>AUM60013</u>	Middle East respiratory syndrome-related coronavirus
<u>AVV62524</u>	Middle East respiratory syndrome-related coronavirus
<u>AWV67046</u>	Bat coronavirus
<u>QCC20711</u>	Hedgehog coronavirus 1
<u>QEI22730</u>	Betacoronavirus BtCoV22/29
<u>BBJ36007</u>	Bat coronavirus
<u>QGA70691</u>	Erinaceus hedgehog coronavirus HKU31
<u>AAP33696</u>	SARS coronavirus Frankfurt 1