

**Supplementary Table 1.** Representatives of bat alphacoronavirus and bat betacoronavirus groups B, C, and D available in the GenBank database used for the in-silico analysis.

Genus/Group	GenBank accession/Definition
<i>Alphacoronavirus</i>	JQ989267
	JQ989270
	JQ989269
	EF203064, Bat coronavirus HKU2 strain HKU2/GD/430/2006
	NC_009988, Bat alphacoronavirus HKU2
	NC_010438, Bat coronavirus HKU8
	NC_010437, Bat coronavirus 1A
	NC_010438, Bat alphacoronavirus HKU8
	NC_010437, Bat coronavirus 1A
	NC_022103, Bat coronavirus CDPHE15/USA/2006
<i>Betacoronavirus</i>	NC_009021, Bat betacoronavirus HKU9-1
	NC_009021, Bat coronavirus HKU9-1
	HQ166910.1, Zaria bat coronavirus strain ZBCoV
<i>Betacoronavirus</i> group B	DQ022305, Bat SARS beta coronavirus HKU3-1
	KC881005, Bat SARS-like coronavirus RsSHC014
	KC881006, Bat SARS-like coronavirus Rs3367
	KF367457, Bat SARS-like coronavirus WIV1
	KY417148, Bat SARS-like coronavirus isolate Rs4247
	KY417150, Bat SARS-like coronavirus isolate Rs4874
	KY417151, Bat SARS-like coronavirus isolate Rs7327
	KT444582, SARS-like coronavirus WIV16
	JX993987.1, Bat coronavirus Rp/Shaanxi2011
	KF569996.1, Rhinolophus affinis coronavirus isolate LYRa11
	DQ071615, Bat SARS coronavirus Rp3
	MN996532, Bat coronavirus RaTG13
	<i>Betacoronavirus</i> group C
NC_009020, Bat coronavirus HKU5-1	
EF065505.1, Bat coronavirus HKU4-1	
EF065509, Bat coronavirus HKU5-1	
<i>Betacoronavirus</i> group D	EF065513, Bat coronavirus HKU9-1
	EF065514, Bat coronavirus HKU9-2
	EF065513, Bat coronavirus HKU9-1