

**Table S1.** List of all the reference sequences used for the ORF1b, S and N phylogenetic analyses along with their accession number.

Accession number	Virus name
KY370050	RtRl-CoV
KF294380	Lucheng Rn rat coronavirus
KY370045	RtMruf-CoV
NC034972	AcCoV-JC34
DQ286389	Feline coronavirus
DQ811788	TGEV Purdue P115
NC030292	Ferret coronavirus
NC028824	BtRf-AlphaCoV
NC009988	Bat coronavirus HKU2
MF094688	Swine acute diarrhea syndrome related coronavirus
MG557844	Swine acute diarrhea syndrome coronavirus
KF530114	Human coronavirus NL63
KF514433	Human coronavirus 229E
KP890336	Porcine epidemic diarrhea virus
NC010438	Bat CoV HKU8
NC010437	Bat coronavirus 1A
EU420137	Bat coronavirus 1B
KY967735	Wencheng Sm shrew coronavirus
KT861628	MERS coronavirus
HM211101	Bat coronavirus HKU9
NC004718	SARS coronavirus
NC006577	Human coronavirus HKU1
NC012936	Rat coronavirus Parker
AC000192	MHV
NC017083	Rabbit coronavirus HKU14
KJ958219	Human coronavirus OC43
KF906249	Dromedary camel coronavirus HKU23
NC003045	BCoV
NC001451	Avian infectious bronchitis virus
KM888168	RCoV/LEO/Rat sik/CHN/2007
KM888163	RCoV/RMU10 3212/Myo gla/GER/2010
KU182955	Bat coronavirus isolate YDB5C
JQ410000	Alpaca respiratory coronavirus
KT368901	Camel alphacoronavirus
HQ728486	Chaerephon bat coronavirus/Kenya/KY22/2006
KY370043	Rodent coronavirus isolate RtRn-CoV/YN2013
KY370048	Rodent coronavirus isolate RtMm-CoV/GD2015
JX993987	Bat coronavirus Rp/Shaanxi2011
KY370046	Rodent coronavirus isolate RtMruf-CoV-2/JL2014
KY370047	Rodent coronavirus isolate RtAp-CoV/Tibet2014
KY370051	Rodent coronavirus isolate RtBi-CoV/FJ2015
KY370053	Shrew-CoV/Tibet2014
NC030886	Rousettus bat CoV_GCCDC1
KY799179	Myotis lucifugus CoV
KY370049	RtNn-CoV/SAX2015
KC545386	ErinaceusCoV/2012-216/GER/2012
HQ728483	Rousettus bat coronavirus/Kenya/KY06/2006
HQ728485	Miniopterus bat coronavirus/Kenya/KY33/2006
HQ728482	Eidolon bat coronavirus/Kenya/KY24/2006
HQ728480	Cardioderma bat coronavirus/Kenya/KY43/2006
JQ989273	Hipposideros bat coronavirus HKU10
KF294357	Longquan Aa mouse coronavirus
KM349744	Betacoronavirus HKU24

<b>KY370044</b>	RtAs-CoV/IM2014
<b>NC014470</b>	Bat coronavirus BM48-31/BGR/2008
<b>KT444582</b>	SARS-like coronavirus WIV16
<b>KF294371</b>	Longquan R1 rat coronavirus
<b>MF167434</b>	Porcine enteric alphacoronavirus GDS04
<b>KY370043</b>	RtRn-CoV/YN2013
<b>KY370048</b>	RtMm-CoV/GD2015
<b>JX993987</b>	Bat coronavirus Rp/Shaanxi2011
<b>KY370046</b>	RtMruf-CoV-2/JL2014
<b>KY370047</b>	RtAp-CoV/Tibet2014
<b>KY370051</b>	RtBi-CoV/FJ2015
<b>LC190906</b>	Canine coronavirus
<b>KC522061</b>	Tylonycteris bat coronavirus HKU4
<b>KC522091</b>	Pipistrellus bat coronavirus HKU5
<b>EF434381</b>	Bat coronavirus Shandong/977/2006
<b>KJ473818</b>	BtRf-BetaCoV/HuB2013
<b>KU343208</b>	Bat coronavirus MsBtCoV/4068
<b>KT346372</b>	Scotophilus kuhlii coronavirus
<b>DQ666343</b>	Bat coronavirus HKU7

**Table S2.** List of all the reference sequences used for the Cytochrome b phylogenetic analysis along with their accession number.

Accession number	Species
NC001913	<i>Oryctolagus cuniculus</i>
NC035621	<i>Rattus baluensis</i>
EU273710	<i>Rattus exulans</i>
JQ823538	<i>Rattus andamanensis</i>
GU570660	<i>Rattus leucopus</i>
KU200226	<i>Rattus nitidus</i>
NC023347	<i>Rattus niobe</i>
KT024821	<i>Rattus norvegicus</i>
JQ823537	<i>Rattus rattus</i>
JQ823541	<i>Rattus tanezumi</i>
AY389020	<i>Apodemus latronum</i>
AY389019	<i>Apodemus ilex</i>
AY389021	<i>Apodemus uralensis</i>
HM034867	<i>Apodemus chejuensis</i>
AY389003	<i>Apodemus peninsulae</i>
AY389012	<i>Apodemus agrarius</i>
AF159392	<i>Apodemus flavicollis</i>
AF159395	<i>Apodemus sylvaticus</i>
AY389010	<i>Apodemus draco</i>
AY389016	<i>Apodemus chevrieri</i>
AY513792	<i>Microtus daghestanicus</i>
AY513814	<i>Microtus majori</i>
AF163890	<i>Microtus abbreviatus</i>
AY513839	<i>Microtus tatricus</i>
AY513813	<i>Microtus lusitanicus</i>
AY513844	<i>Microtus thomasi</i>
KX581049	<i>Microtus obscurus</i>
KU214697	<i>Microtus limnophilus</i>
AY513797	<i>Microtus duodecimcostatus</i>
AF163891	<i>Microtus californicus</i>
AF163899	<i>Microtus miurus</i>
AY513823	<i>Microtus rossiaemeridionalis</i>
AF163898	<i>Microtus middendorffi</i>
AF159403	<i>Microtus arvalis</i>
AF159402	<i>Microtus agrestis</i>
AY513789	<i>Microtus cabrerai</i>
AF187230	<i>Microtus longicaudus</i>
KJ081954	<i>Microtus fortis</i>
KJ789597	<i>Myodes rutilus</i>
KR059903	<i>Myodes rufocanus</i>
FJ881480	<i>Myodes glareolus</i>
FJ234423	<i>Myodes gapperi</i>
KJ556708	<i>Myodes andersoni</i>
NC016427	<i>Myodes regulus</i>