



MT370837 Severe acute respiratory syndrome coronavirus 2 isolate SARS-CoV-2/human/USA/NY
KY417152 Bat SARS-like coronavirus isolate Rs9401
MG772933 Bat SARS-like coronavirus isolate bat-SL-CoVZC45
KF569996 Rhinolophus affinis coronavirus isolate LYRa11
AB257344 SARS coronavirus Frankfurt 1 genomic RNA, nearly complete genome, clone: persister
DQ071615 Bat SARS coronavirus Rp3
DQ084200 bat SARS coronavirus HKU3-3
DQ648857 Bat coronavirus (BtCoV/279/2005)
KJ473814 BtRs-BetaCoV/HuB2013
JX993988 Bat coronavirus Cp/Yunnan2011
KP886808 Bat SARS-like coronavirus YNLF_31C
FJ588686 Bat SARS CoV Rs672/2006
DQ648856 Bat coronavirus (BtCoV/273/2005)
JX993987 Bat coronavirus Rp/Shaanxi2011
KJ473816 BtRs-BetaCoV/YN2013
KJ473815 BtRs-BetaCoV/GX2013
KU973692 UNVERIFIED: SARS-related coronavirus isolate F46
KY352407 Severe acute respiratory syndrome-related coronavirus strain BtKY72
KY938558 Bat coronavirus strain 16BO133
KJ473811 BtRf-BetaCoV/JL2012
GU190215 Bat coronavirus BM48-31/BGR/2008
KF636752 Bat Hp-betacoronavirus/Zhejiang2013
MH002338 Tylonycteris bat coronavirus HKU4 isolate CZ07
MK679660 Hedgehog coronavirus 1
KC545386 Betacoronavirus Erinaceus/VMC/DEU/2012 isolate ErinaceusCoV/2012-216/GER/2012
MG021452 Middle East respiratory syndrome-related coronavirus isolate NL140422
KC869678 Coronavirus Neoromicia/PML-PHE1/RSA/2011
MG596802 Middle East respiratory syndrome-related coronavirus isolate Bat-CoV/H.savii/Italy/2006
MK492263 Bat coronavirus strain BtCoV92
EF065516 Bat coronavirus HKU9-4
HM211098 Bat coronavirus HKU9-5-1
EF065506 Bat coronavirus HKU4-2
EF065513 Bat coronavirus HKU9-1
KX574227 Bat coronavirus isolate PREDICT/PDF-2180
MH002340 Pipistrellus bat coronavirus HKU5 isolate BY140535
EF065514 Bat coronavirus HKU9-2
MK462255 Middle East respiratory syndrome-related coronavirus strain Hu/Riyadh-KSA-18014504
KR011263 Middle East respiratory syndrome coronavirus strain Hu/Riyadh-KSA-2345/2015
MG987420 Middle East respiratory syndrome-related coronavirus isolate NL13892
MG021451 Middle East respiratory syndrome-related coronavirus isolate NL13845
HM211101 Bat coronavirus HKU9-10-2
KJ473821 BtVs-BetaCoV/SC2013
KF686341 Human coronavirus HKU1 strain HKU1/human/USA/HKU1-10/2010
KY674941 Human coronavirus HKU1 strain N09-1663B
JN874559 Rabbit coronavirus HKU14 strain HKU14-1
MG762674 Roussetus bat coronavirus HKU9 isolate Roussetus spp/Jinghong/2009
DQ339101 Human coronavirus HKU1 strain N5P8 genotype A/B recombinant
KY967358 Human coronavirus OC43 strain HCoV_OC43/Seattle/USA/SC2770/2015
KM349743 Betacoronavirus HKU24 strain HKU24-R05009I
AY700211 Murine hepatitis virus strain A59
AF208066 Murine hepatitis virus strain Penn 97-1
KU762338 Roussetus bat coronavirus isolate GCCDC1 356
FJ647219 Murine coronavirus RJHM/A
MF618253 Murine hepatitis virus strain A59 isolate MHV-ExoN(-) P250
GU593319 Murine hepatitis virus strain S
JF792617 Rat coronavirus isolate 8190
FJ647223 Murine coronavirus MHV-1
FJ647224 Murine coronavirus MHV-3
KY419105 Porcine hemagglutinating encephalomyelitis virus strain PHEV CoV USA-15TOSU0582
AB551247 Murine hepatitis virus RNA
KU886219 Bovine coronavirus strain BCV-AKS-01
MH938449 Alphacoronavirus Bat-CoV/P.kuhlii/Italy/3398-19/2015
HQ392469 Feline coronavirus UU40
FJ938052 Feline coronavirus UU11
KY073747 229E-related bat coronavirus strain BtKY229E-1
EF203064 Bat coronavirus HKU2 strain HKU2/GD/430/2006
EU420137 Bat coronavirus 1B strain AFCD307
MF167434 Porcine enteric alphacoronavirus GDS04
DQ811787 PRCV ISU-1
DQ848678 Feline coronavirus strain FCoV C1Je
KJ473808 BtRf-AlphaCoV/YN2012
KY799179 Myotis lucifugus coronavirus
KJ473800 BtMf-AlphaCoV/HeN2013
JQ989267 Hipposideros bat coronavirus HKU10 isolate SL12A
KY554967 Human coronavirus NL63 strain N06-1144B
HM245925 Mink coronavirus strain WD127
KJ473798 BtMf-AlphaCoV/HuB2013
EF446615 Equine coronavirus strain NC99
KJ473799 BtMf-AlphaCoV/FJ2012
KJ473807 BtRf-AlphaCoV/HuB2013
MG893511 Feline coronavirus isolate Felix
FJ938058 Feline coronavirus UU16
FJ938056 Feline coronavirus UU5
EU186072 Feline coronavirus isolate Black
KT368909 Camel alphacoronavirus isolate camel/Ujjedah/Jd1(a)/2015
JQ408981 Feline infectious peritonitis virus strain DF-2
KF430219 Bat coronavirus CDPHE15/USA/2006
MG916904 Bat coronavirus BtCoV/Rh/YN2012 isolate BtCoV/Rh/YN2012_Ra13591
FJ938057 Feline coronavirus UU15
JQ989270 Roussetus bat coronavirus HKU10 isolate 183A
MG916901 Bat coronavirus BtCoV/Rh/YN2012 isolate BtCoV/Rh/YN2012_Rs3376
MF882923 Infectious bronchitis virus isolate CK/CH/HB/2016
GQ152141 Feline coronavirus strain FCoV/NTU156/P/2007
JN183882 Feline coronavirus UU47
KY073744 NL63-related bat coronavirus strain BtKYNL63-9a
KX900394 Transmissible gastroenteritis virus strain TGEV/USA/HB/1988
KJ473797 BtMf-AlphaCoV/GD2012
MK581202 Infectious bronchitis virus strain gammaCoV/Ck/Poland/80/1989
KY073748 229E-related bat coronavirus strain BtKY229E-8
KJ473795 BtMf-AlphaCoV/AH2011
MH924835 Infectious bronchitis virus strain gammaCoV/ck/China/10636/16
MK217373 Infectious bronchitis virus strain I0725/17
MG738155 Infectious bronchitis virus isolate IBS130/2015
MN096598 Infectious bronchitis virus strain ck/CH/YNSL/160501
KR061459 Swine enteric coronavirus strain Italy/213306/2009
KP981644 Canine coronavirus strain CB/05
JN856008 Canine coronavirus strain A76
EU526388 Infectious bronchitis virus strain A2
GQ477367 Canine coronavirus strain CCoV/NTU336/F/2008
HQ012370 Feline coronavirus UU24
JN183883 Feline coronavirus UU54
KC008600 Infectious bronchitis virus
KF530123 Feline coronavirus strain Felis catus/NLD/UU88/2010
KY674919 Human coronavirus 229E strain N08-434B
KX434790 Infectious bronchitis virus strain ck/CH/LJS/111210
KX348116 Infectious bronchitis virus strain ck/CH/LBJ/140514
KY620116 Infectious bronchitis virus strain gammaCoV/ck/China/11101/16
KY292377 Feline coronavirus strain HLJ/DQ/2016/01
EU420139 Bat coronavirus HKU8 strain AFCD77
KY073746 NL63-related bat coronavirus strain BtKYNL63-15
KX722530 Feline coronavirus isolate Cat 1 Karlslunde
FJ938061 Feline coronavirus UU3
KX900410 Transmissible gastroenteritis virus strain TGEV/USA/Minnesota153/2014
MG916903 Bat coronavirus BtCoV/Rh/YN2012 isolate BtCoV/Rh/YN2012_Rs4259
KT886454 Infectious bronchitis virus isolate gammaCoV/Ck/Poland/74/2009
MG233398 Infectious bronchitis virus isolate IS-1494
KU361187 Infectious bronchitis virus isolate CK/CH/2010/JT-1
HM245924 Infectious bronchitis virus isolate CQ04-1
MK574042 Infectious bronchitis virus strain ck/CH/LHB/110615
EU095850 Turkey coronavirus isolate MG10
KX236001 Infectious bronchitis virus strain ck/CH/LSD/031
MK581205 Infectious bronchitis virus strain gammaCoV/Ck/Poland/548/2004
KX364296 Infectious bronchitis virus strain ck/CH/LJL/08-9
MK142676 Infectious bronchitis virus isolate ahysx-1
GU393332 Infectious bronchitis virus serotype Delaware 072
KJ473809 BtNv-AlphaCoV/SC2013
MK644086 Infectious bronchitis virus strain E160_YN
JF705860 Duck coronavirus isolate DK/CH/HNZZ2004
KY566209 Feline coronavirus strain HLJ/HRB/2016/10
MK032179 Infectious bronchitis virus strain gammaCoV/ck/China/10722/17
KX185057 Infectious bronchitis virus strain ck/CH/LHLJ/95I
HQ012367 Feline coronavirus UU17
JN634064 Feline coronavirus strain WSU 79-1683
KY063616 Canine coronavirus isolate HLJ-071
KY073745 NL63-related bat coronavirus strain BtKYNL63-9b
KJ473806 BtMr-AlphaCoV/SAX2011
EU022525 Turkey coronavirus isolate TCoV-540
MN262644 Avian coronavirus strain CV10
MF421320 Infectious bronchitis virus isolate UY11/CA/18
MN165107 Feline coronavirus isolate XXN
MG021194 Infectious bronchitis virus isolate gammaCoV/AvCov/Ck/Italy/6241/96
MK423876 Pheasant coronavirus strain gammaCoV/ph/China/10710/17
MK359255 Canada goose coronavirus strain Cambridge_Bay_2017
KX252782 Infectious bronchitis virus strain ck/CH/LLN/07I
GQ504722 Infectious bronchitis virus strain Georgia 1998 pass8
MH779860 Infectious bronchitis virus isolate Ark99_pathogenic_field_virus
NC_009657 Scotophilus bat coronavirus 512
KX236016 Infectious bronchitis virus strain ck/CH/LHB/090921 complete genome.
GQ427174 Turkey coronavirus strain TCoV/TX-GL/01
FN430414 Infectious bronchitis virus ITA/90254/2005
KY933089 Avian coronavirus strain 1148-A
LN610099 Guinea fowl coronavirus GFCoV/FR/2011 complete genome.
KY776700 Infectious bronchitis virus strain gammaCoV/ck/China/10712/11
KC119407 Infectious bronchitis virus strain Ck/CH/LGD/120724
KY805846 Infectious bronchitis virus isolate IBV/Ck/EG/CU/4/2014
JX195177 Infectious bronchitis virus strain ck/CH/LDL/97I substrain P5
FJ938053 Feline coronavirus UU7
FJ904713 Infectious bronchitis virus strain Mass41 2006
KJ425511 Infectious bronchitis virus strain ck/CH/LSD/110529
KX375808 Infectious bronchitis virus strain ck/CH/LHLJ/99I
KR231009 Infectious bronchitis virus strain B1648
MK581207 Infectious bronchitis virus strain gammaCoV/Ck/Poland/G103/2016
MH878976 Infectious bronchitis virus isolate VFAR-047
KX964649 Coronavirus AcCoV-JC34
KY799582 Infectious bronchitis virus strain ck/CH/LSC/99I
KP868572 Infectious bronchitis virus strain ck/CH/LHLJ/111043
KJ425504 Infectious bronchitis virus strain ck/CH/LHLJ/091205
KX722529 Feline coronavirus isolate UG-FH8
EU637854 Infectious bronchitis virus strain Ck/CH/LSD/05I from China
KP849472 Alphacoronavirus 1 strain 23/03
FP662631 Infectious bronchitis virus isolate ck/ZA/3665/11
FJ904714 Infectious bronchitis virus strain Cal 1995
KJ435283 Infectious bronchitis virus strain ck/CH/LSD/111219
DQ001339 Avian infectious bronchitis virus isolate IBV-p65
MK581204 Infectious bronchitis virus strain gammaCoV/Ck/Poland/255/1997
KU356856 Infectious bronchitis virus strain ck/CH/SCYB/140913
KX258195 Avian coronavirus isolate 23/2013
MG913342 Avian coronavirus isolate AvCoV/Gallus gallus/Brazil/sample 38/2013 GI-11
GU393331 Infectious bronchitis virus serotype Cal56b
MG738154 Infectious bronchitis virus isolate IBS037A/2014
EU022526 Turkey coronavirus isolate TCoV-ATCC
FJ938051 Feline coronavirus RM
KY626044 Avian coronavirus strain BR-I
KU900741 Infectious bronchitis virus strain SNU-9106
KX302866 Infectious bronchitis virus strain ck/CH/LJL/04I
FN430415 Infectious bronchitis virus NGA/A116E7/2006
HQ392471 Feline coronavirus UU20
KX348114 Infectious bronchitis virus strain ck/CH/LDL/05III
HQ012368 Feline coronavirus UU18
HQ012369 Feline coronavirus UU21
KX266757 Infectious bronchitis virus isolate 3575/08
DQ288927 Avian infectious bronchitis virus isolate SAIBK
KX272465 Infectious bronchitis virus isolate AR251-15
GU393336 Infectious bronchitis virus serotype Holte
MH181793 Infectious bronchitis virus strain HH06
MK581206 Infectious bronchitis virus strain gammaCoV/Ck/Poland/195/2012
MG448607 Infectious bronchitis virus strain ck/CH/LHB/121042
JQ404409 Canine coronavirus strain 1-71
JQ977697 Infectious bronchitis virus isolate SNU8067
LC119077 Ferret coronavirus genomic RNA
MF577027 Porcine epidemic diarrhea virus strain PEDV/Belgorod/dom/2008
MN512435 Infectious bronchitis virus isolate IBV/Ck/Can/17-036989
KX252772 Infectious bronchitis virus strain ck/CH/LSHH/03II
KX219799 Infectious bronchitis virus strain ck/CH/LSD/130211
GU393334 Infectious bronchitis virus serotype Gray
KM213963 Infectious bronchitis virus isolate CK/CH/XDC- 2/2013
KR822424 European turkey coronavirus 080385d
MK581203 Infectious bronchitis virus strain gammaCoV/Ck/Poland/162/1997
KX077987 Infectious bronchitis virus strain ck/CH/LDL/150434-III
AY646283 Avian infectious bronchitis virus partridge/GD/S14/2003
KR608272 Infectious bronchitis virus isolate LDT3-A
KP143508 Feline coronavirus isolate 28O
KU900743 Infectious bronchitis virus strain SNU-10043
GQ427176 Turkey coronavirus strain TCoV/TX-1038/98
KP118881 Infectious bronchitis virus strain ck/CH/LBJ/140413
MF924724 Infectious bronchitis virus isolate BP-CaKII
KX252791 Infectious bronchitis virus strain ck/CH/LLN/98I
KX252799 Infectious bronchitis virus strain ck/CH/LLN/06I
KM347965 Ferret coronavirus isolate FRCoV-NL-2010
KY007139 Porcine epidemic diarrhea virus isolate PEDV-Hjms
KF931628 Infectious bronchitis virus isolate VicS-del
MH021175 Avian coronavirus strain D274
KF294380 Lucheng Rn rat coronavirus isolate Lucheng-19
KU900740 Infectious bronchitis virus strain QIA-KR/D79/05
KF411040 Infectious bronchitis virus strain ck/CH/LLN/111169
MK581201 Infectious bronchitis virus strain gammaCoV/Ck/Poland/79/1989
FJ938062 Feline coronavirus UU9
KJ645671 Porcine epidemic diarrhea virus strain USA/Minnesota76/2013
EU111742 Coronavirus SW1
AY319651 Avian infectious bronchitis virus isolate BJ
KU297956 Porcine epidemic diarrhea virus strain SLO/JH-11/2015
KX839250 Porcine epidemic diarrhea virus strain 85-7-mutant4
LC125871 Ferret coronavirus genomic RNA
KF793825 Bottlenose dolphin coronavirus HKU22 isolate CF090327
KX512809 Ferret enteric coronavirus strain FECV1
JQ065049 Common-moorhen coronavirus HKU21 strain HKU21-8295
JQ065048 Wigeon coronavirus HKU20 strain HKU20-9243
JQ065044 White-eye coronavirus HKU16 strain HKU16-6847
JQ065045 Sparrow coronavirus HKU17 strain HKU17-6124
MF431743 Porcine deltacoronavirus strain SD
JQ065046 Magpie-robin coronavirus HKU18 strain HKU18-chu3
FJ376620 Bulbul coronavirus HKU11-796
JQ065047 Night-heron coronavirus HKU19 strain HKU19-6918
FJ376622 Munia coronavirus HKU13-3514