NC_034971.1 | Kobuvirus | SMCD-59 | Canis lupus familiaris | China | 2015 | NC_015936.1 | Kobuvirus | Peromyscus crinitus | USA | 2010 | NC_001918.1 | Kobuvirus | A846/88 | Homo sapiens | Japan | 1998 | OQ818322 | Kobuvirus | Eidolon dupreanum | Madagascar | 2019 | OP287812.1 | Madagascar bat kobuvirus | Eidolon dupreanum | Madagascar | 2018 | NC_027054.1 | Kobuvirus | JS-02a-CHN/2014/China | Sus scrofa | China | 2014 | NC_016769.1 | Kobuvirus | SH-W-CHN/2010/China | Sus scrofa | China | 2010 | NC_011829 1 | Kobuvirus | Sus scrofa | Hungary | 2007 B NC_016769.1 NC_011829.1 NC_023422.1 NC_004421.1 NC_011829.1 | Kobuvirus | Sin=W-Crin/2010/Crinia | Sus sciola | Crini NC_011829.1 | Kobuvirus | Sus scrofa | Hungary | 2007 NC_023422.1 | Kobuvirus | 12Q108 | Capra hircus | South Korea | 2012 NC_004421.1 | Kobuvirus | Bos taurus | Japan | 2003 NC_027918.1 | Kobuvirus | Bos taurus | Japan | 2015 Salivirus/Sakobuvirus -■NC_038317.1 | Kunsagivirus | Coracias garrulus | Hungary | 2011 Passerivirus/Sicinvirus Gallivirus/Megrivirus Megrivirus/Parechovirus Oscivirus/Livupivirus/Rafivirus
Rosavirus
Harkavirus/Dicipivirus NC_055108.1 | Poecivirus | Poecile atricapillus | USA | 2002 Apthovirus Bopivirus/Erbovirus NC_040611.1 | Dicipivirus | Erinaceus roumanicus | Hungary | 2015 Cardiovirus/Senecavirus Cardiovirus Megrivirus/Ailurivirus NC_034381.1 | Mischivirus | Miniopterus schreibersii | China | 2010 NC_043072.1 | Mischivirus | Miniopterus schreibersii | Hungary | 2013 NC_026470.1 | Mischivirus | PREDICT-06105 | Macronycteris gigas | Democratic Republic of the Congc OQ818316 | Mischivirus | Pteropus rufus | Madagascar | 2018 Cosavirus Mosavirus Malagasivirus/Tottorivirus/Hunnivirus OQ818324 | Teschovirus | Rousettus madagascariensis | Madagascar | 2018
OQ818323 | Teschovirus | Rousettus madagascariensis | Madagascar | 2018
OQ818323 | Teschovirus | F65 | Sus scrofa | United Kingdom | 1999
OC_039210.1 | Aphthovirus | o6pirbright iso58 | Homo sapiens | United Kingdom | 2019 Ampivirus Avisivirus OQ818317 | Kunsagivirus | Eidolon dupreanum | Madagascar | 2018 NC_033818.1 | Kunsagivirus | Eidolon helvum | Cameroon | 2013

NC_034206.1 | Kunsagivirus | baboon/M27-KuV/1986/TAN | Papio cynocephalus | Tanzania | 1986 — NC_024766.1 | Avisivirus | 44C | Gallus gallus | Hong Kong | 2008 -NC_025432.1 | Orivirus | Gallus gallus | Hungary | 2013 Genus Limnipivirus/Potamipivirus

Parechovirus/Shanbavirus | BtMf-PicoV-1/SAX2011 | Miniopterus fuliginosus | China | 2011

NC_038961.1 | Shanbavirus | BtMf-PicoV-1/SAX2011 | Miniopterus fuliginosus | China | 2011

NC_038961.1 | Shanbavirus | Anseriformes | USA | 2006

NC_039004.1 | Megrivirus | KGI-Bel-P5/2015 | Pygoscelis adeliae | Antarctica | 2015

NC_039891.1 | Aquamavirus | HO.02.21 | Pusa hispida | Canada | 2008

NC_025474.1 | Crohivirus | Crocidura hirta | Zambia | 2012

NC_03843.1 | Unclassified picornavirus | Chiroptera | USA | 2016

NC_03843.1 | Crohivirus | Eidolon helvum | Cameroon | 2013

OQ818318 | Teschovirus | Eidolon dupreanum | Madagascar | 2018

NC_03820.1 | Sapelovirus | Eidolon dupreanum | Madagascar | 2018

NC_025890.1 | Torchivirus | Testudo hermanni | Germany | 2004

NC_038311.1 | Enterovirus | Homo sapiens | USA | 2009

NC_03990.1 | Tremovirus | Gallus gallus | USA | 1999

NC_015626.1 | Unclassified picornavirus | Columbidae | Norway | 2003

NC_055156.1 | Rabovirus | RtMp-PicoV/YN2014 | Rodentia | China | 2017

NC_04605.1 | Sapelovirus | Marmota himalayana | China | 2013 Sapovirus Limnipivirus/Potamipivirus Vesivirus Lagovirus Norovirus Calicivirus Salovirus Bavovirus Minovirus Recovirus Nacovirus Nebovirus Coronavirus NC_055156.1 NC_040605.1 NC_055160.1 | Sapelovirus | Marmota himalayana | China | 2013 | Rabovirus | MPV/NYC/2014/M005/0074 | Mus musculus | USA | 2014 NC_055160.1 | Rabovirus | MPV/NYC/2014/M005/0074 | Mus musculus | USA | 2014
NC_015934.1 | Unclassified picornavirus | Rhinolophus sinicus | Hong Kong | 2008
NC_016156.1 | Unclassified picornavirus | Felis catus | Hong Kong | 2007
OQ818328 | Picornavirus | Rousettus madagascariensis | Madagascar | 2018
OQ818325 | Picornavirus | Rousettus madagascariensis | Madagascar | 2018
NC_015940.1 | Unclassified picornavirus | Miniopterus pusillus | Hong Kong | 2008
NC_035779.1 | Unclassified picornavirus | Falco vespertinus | Hungary | 2014
NC_015941.1 | Unclassified picornavirus | Miniopterus magnater | Hong Kong | 2005
OQ818329 | Sapelovirus | Rousettus madagascariensis | Madagascar | 2018 NC 015934.1 OQ818329 | Sapelovirus | Rousettus madagascariensis | Madagascar | 2018 | OQ818321 | Sapelovirus | Eidolon dupreanum | Madagascar | 2019 | NC_003987.1 | Sapelovirus | Sus scrofa | Germany | 2002 | NC_016403.1 | Unclassified picornavirus | Coturnix coturnix | Hungary | 2010 | NC_006553.1 | Anativirus | TW90A | Anseriformes | Taiwan | 2007 | NC_028366.1 | Hepatovirus | M32Eidhel2010 | Eidolon helvum | Ghana | 2010 | OQ818337 | Hepatovirus | Eidolon dupreanum | Madagascar | 2018 | NC_028981.1 | Hepatovirus | TN1 | Tupaia chinensis | China | 2012 | NC_028365.1 | Hepatovirus | Igel8Erieur2014 | Erinaceus europaeus | Germany | 2014 | NC_038316.1 | Hepatovirus | BUO2BF86Colafr2010 | Coleura afra | Ghana | 2010 | NC_027818.1 | Hepatovirus | Phoca vitulina | USA | 2011 | NC_038314.1 | Hepatovirus | CIV459Lopsik2004 | Lophuromys sikapusi | Cote d'Ivoire | 2004 | NC_038313.1 | Hepatovirus | SMG18520Minmav2014 | Miniopterus | Madagascar | 2014 | Hepatovirus Hepatovirus

NC_004451.1 | Sapelovirus | Simiiformes | USA | 2003

NC_016964.1 | Mischivirus | 325 | Canis lupus familiaris | Hong Kong | 2008

NC_040673.1 | Tremovirus | Pelodiscus sinensis | China | 2011 Enterovirus NC_038312.1 | Enterovirus | Homo sapiens | USA | 2019 NC_001490.1 | Enterovirus | Homo sapiens | USA | 1985 NC_001617.1 | Enterovirus | Homo sapiens | USA | 1985 NC_038878.1 | Enterovirus | NAT001 | Homo sapiens | USA | 2001 NC_009996.1 | Enterovirus | Homo sapiens | Hong Kong | 2007 NC_010354.1 | Aphthovirus | Bos taurus | United Kingdom | 2008 NC_018226.1 | Pasivirus | Sus scrofa | France | 2010 NC_030886.1 | Coronavirus | GCCDC1 356 | Rousettus leschenaulti | China | 2018

A

Genus

Cardiovirus

Enterovirus

HepatovirusKobuvirus

Parechovirus

Erbovirus

Teschovirus

Anativirus

Sapelovirus

Tremovirus

Avihepatovirus

Aquamavirus

Aphthovirus Senecavirus

Passerivirus

MischivirusPasivirus

Unclassified picornavirus

Cosavirus

Salivirus

Oscivirus

Gallivirus

Limnipivirus

HunnivirusDicipivirus

Megrivirus

Potămipivirus

Sicinivirus

Aalivirus

Rosavirus

Torchivirus

MalagasivirusHarkavirus

Ampivirus

Kunsagivirus

Shanbavirus

Rafivirus

PoecivirusRabovirus

Tottorivirus

Ailurivirus

Picornavirus

Coronavirus

Host

Bat hostNon-bat host

Bootstrap

Madagascar bat kobuvirus

0.2

Livupivirus

Mosavirus

Avisivirus

Crohivirus

Bopivirus

Orivirus

Sakobuvirus

NC_039477.1 | Norovirus | NORO_226_06_01_2016 | Homo sapiens | United Kingdom | 2016 | -ONC 044046.1 | Norovirus | Yuzawa/Gira2HS | Homo sapiens | Japan | 2014-•NC_029646.1 | Norovirus | Homo sapiens | Vietnam | 2000 ONC_039475.1 | Norovirus | Homo sapiens | South Korea | 2015 NC_044932.1 | Norovirus | Hu/GII.PNA4-GII.NA4/PNV06929/2008/PER | Homo sapiens | Peru | 2008 NC 040876.1 | Norovirus | NORO 176-1 17 12 2015 | Homo sapiens | United Kingdom | 2015 LONC_044045.1 | Norovirus | Sapporo/HK299 | Homo sapiens | Japan | 2014 NC_044855.1 | Norovirus | Homo sapiens | USA | 2016 NC 029647.1 | Norovirus | Homo sapiens | Australia | 2010 NC 045762.1 | Norovirus | Felis catus | USA | 2010 →NC_044047.1 | Norovirus | Canis lupus familiaris | Hong Kong | 2007 NC_044854.1 | Norovirus | Homo sapiens | Japan | 2000 NC_044853.1 | Norovirus | Homo sapiens | Japan | 1998 -NC 001959.2 | Norovirus | Homo sapiens | USA | 1993 NC_031324.1 | Norovirus | Pan troglodytes | USA | 2013 NC_039897.1 | Norovirus | Shimizu/KK2866 | Homo sapiens | Japan | 2007 UNC_044856.1 | Norovirus | Homo sapiens | Bangladesh | 2011 -•NC_029645.1 | Norovirus | Bos taurus | Norway | 2006 --NC_008311.1 | Norovirus | Mu/NoV/GV/MNV1/2002/USA | Homo sapiens | USA | 2002 NC_012699.1 | Calicivirus | Sus scrofa | Canada | 2006 LONC 040674.1 | Norovirus | Marmota himalayana | China | 2013 -NC_035675.1 | Minovirus | FHMCV/USA/MN/2012 | Pimephales promelas | USA | 2012 ——•NC_024031.1 | Salovirus | Nordland/2011 | Salmo salar | Norway | 2011 NC 004064.1 | Nebovirus | Bovinae | USA | 2002 NC_006875.1 | Calicivirus | TCG 14 | Bos taurus | Japan | 2003 NC_007916.1 | Nebovirus | Bos taurus | United Kingdom | 2005 NC 030793.1 | Nebovirus | Bos taurus | Turkey | 2012 NC 017936.1 | Sapovirus | Chiroptera | Hong Kong | 2011 ---NC_024078.1 | Calicivirus | Anatidae | China | 2012 - NC_043516.1 | Nacovirus | L11043 | Meleagris gallopavo | Germany | 2011 NC 033081.1 | Bavovirus | Gallus gallus | Brazil | 2015 NC 034444.1 | Vesivirus | Homo sapiens | USA | 2016 NC_011050.1 | Vesivirus | SSL2004-250F | Eumetopias jubatus | USA | 2004 NC_002551.1 | Vesivirus | Sus scrofa | USA | 1996 NC 008580.1 | Vesivirus | Oryctolagus cuniculus | USA | 2004 NC_004541.1 | Vesivirus | Odobenus rosmarus | USA | 2000 NC_001481.2 | Vesivirus | Felidae | USA | 2000 CNC_019712.1 | Vesivirus | Mustela lutreola | China | 2007 LONC 025676.1 | Vesivirus | Otariinae | USA | 1981 NC_004542.1 | Vesivirus | Canidae | Japan | 2000 -NC_027122.1 | Vesivirus | Melogale | China | 2012 -●NC 000940.1 | Sapovirus | Sus scrofa | USA | 1999 NC 006554.1 | Sapovirus | Homo sapiens | Japan | 2004 NC_010624.1 | Sapovirus | Homo sapiens | Thailand | 2003 NC_006269.1 | Sapovirus | Homo sapiens | Germany | 2004 NC_027026.1 | Sapovirus | Homo sapiens | Japan | 2012 NC_011704.1 | Lagovirus | MIC-07 | Oryctolagus cuniculus | Australia | 2007 NC_001543.1 | Lagovirus | Oryctolagus | Germany | 2000 NC_002615.1 | Lagovirus | Lepus europaeus | France | 1996 LANC_033776.1 | Sapovirus | Bat-SaV/Limbe65/CAM/2014 | Eidolon helvum | Cameroon | 2014 --NC_043512.1 | Recovirus | Macaca mulatta | USA | 2008 -▲OQ818347 | Sapovirus | Rousettus madagascariensis | Madagascar | 2018 🗚 OQ818348 | Sapovirus | Rousettus madagascariensis | Madagascar | 2018 OQ818319 | Sapovirus | Eidolon dupreanum | Madagascar | 2018 Q818345 | Sapovirus | Rousettus madagascariensis | Madagascar | 2018 OQ818340 | Sapovirus | Eidolon dupreanum | Madagascar | 2018 Language Languag

0.2

NC_039476.1 | Norovirus | BJSMQ | Homo sapiens | China | 2016