Unclassified/Scotophilus\_kuhlii/Vietnam\_clade JQ814852.1 | Unclassified | Ia io | China | 2010 OQ363806.1 | Unclassified | GZ/L175.18/2022 | Miniopterus schreibersii | China | 2022 HQ595341.1 | Unclassified | Miniopterus schreibersii | Hong Kong | 2008 HQ595340.1 | Unclassified | Miniopterus pusillus | Hong Kong | 2008 HQ595342.1 | Unclassified | Miniopterus magnater | Hong Kong | 2005 HQ595343.1 | Unclassified | Miniopterus magnater | Hong Kong | 2005 Shanbavirus/Rhinolophus\_sp./China\_clade HQ595344.1 | Unclassified | Rhinolophus sinicus | Hong Kong | 2008 ► HQ595345.1 | Unclassified | Hipposideros armiger | Hong Kong | 2008 KJ641690.1 | Shanbavirus | BtMf-PicoV-1/GD2012 | Miniopterus fuliginosus | China | 2012 KJ641687.1 | Shanbavirus | BtMf-PicoV/FJ2012 | Miniopterus fuliginosus | China | 2012 KJ641699.1 | Shanbavirus | BtMf-PicoV-2/SAX2011 | Miniopterus fuliginosus | China | 2011 MF352419.1 | Unclassified | Miniopterus schreibersii | China | 2012 MF352423.1 | Unclassified | Miniopterus schreibersii | China | 2012 OQ818328 | Picornavirus | Rousettus madagascariensis | Madagascar | 2018 OQ818325 | Picornavirus | Rousettus madagascariensis | Madagascar | 2018 JN899072.1 | Sapovirus | Chiroptera | Hong Kong | 2012 JN899074.1 | Sapovirus | Chiroptera | Hong Kong | 2012 ▲ JN899075.1 | Sapovirus | Chiroptera | Hong Kong | 2012 —▲ OP930875.1 | Sapovirus | GD/L107.18/2022 | Hipposideros armiger | China | 2022 MF373609.1 | Norovirus | NPIH26 | Rhinolophus affinis | China | 2016 ─▲ KJ790198.1 | Norovirus | BtRs-CalV/YN2010 | Rhinolophus sinicus | China | 2010 L——▲ KJ641702.1 | Unclassified | BtRs-CalV-2/GX2012 | Rhinolophus sinicus | China | 2012 OP963619.1 | Unclassified | Rhinolophus marshalli | China | 2018 OP963618.1 | Unclassified | Rhinolophus pusillus | China | 2018 — OP963614.1 | Unclassified | Rhinolophus pusillus | China | 2018 OQ363772.1 | Unclassified | GD/L67.18/2021 | Taphozous melanopogon | China | 2021 ── OP963617.1 | Unclassified | Rhinolophus marshalli | China | 2018 MF352415.1 | Unclassified | Rhinolophus rex | China | 2012 KJ641694.1 | Shanbavirus | BtRs-PicoV/YN2010 | Rhinolophus sinicus | China | 2010 OQ363777.1 | Shanbavirus | GD/L8.18/2020 | Rhinolophus sinicus | China | 2020 MF352416.1 | Unclassified | Rhinolophus ferrumequinum | China | 2012 KX644938.1 | Sapelovirus | Eidolon helvum | Cameroon | 2013 OQ818320 | Sapelovirus | Eidolon dupreanum | Madagascar | 2018 OQ818321 | Sapelovirus | Eidolon dupreanum | Madagascar | 2019 OQ818329 | Sapelovirus | Rousettus madagascariensis | Madagascar | 2018 MF352431.1 | Sapelovirus | Myotis ricketti | China | 2012 KJ641696.1 | Shanbavirus | BtVs-PicoV/SC2013 | Vespertilio sinensis | China | 2013 → KJ641689.1 | Shanbavirus | BtMa–PicoV/FJ2012 | Myotis altarium | China | 2012 KU712497.1 | Unclassified | Myotis daubentonii | Hungary | 2013 MZ218056.1 | Unclassified | BtCV/OV-157/M.dau/DK/2018 | Myotis daubentonii | Denmark | 2018 OP930874.1 | Sapovirus | GZ/L177.18/2022 | Ia io | China | 2022 ——▲ KJ641703.1 | Unclassified | BtMm–CalV/JX2010 | Myotis myotis | China | 2010 → KU712496.1 | Unclassified | Eptesicus serotinus | Hungary | 2013 → KJ641701.1 | Unclassified | BtRs-CalV-1/GX2012 | Rhinolophus sinicus | China | 2012 ON872527.1 | Sapovirus | Ad02/aus/1 | Pteropus poliocephalus | Australia | 2019 → KJ641684.1 | Shanbavirus | BtRf–PicoV–2/YN2012 | Rhinolophus ferrumequinum | China | 2010 OQ818339 | Picorna–like virus | Eidolon dupreanum | Madagascar | 2018 OQ818335 | Felisavirus | Pteropus rufus | Madagascar | 2018 OQ818341 | Felisavirus | Eidolon dupreanum | Madagascar | 2018 OP880198.1 | Unclassified | Sun-2020 | Myotis brandtii | Sweden | 2020 —▲ HQ585111.1 | Unclassified | P1/InV1/IT/2009 | Eptesicus fuscus | USA | 2009 → MK468720.1 | Unclassified | D–16–0054 | Pteropus lylei | Cambodia | 1905 —▲ MG559674.1 | Hepatovirus | HepV-bat3206/Hipposideros\_armiger/2011 | Hipposideros armiger | China | 2011 ——▲ KX420952.1 | Hepatovirus | KSA215 | Rhinopoma hardwickii | Saudi Arabia | 2012 OQ818337 | Hepatovirus | Eidolon dupreanum | Madagascar | 2018 KT452714.1 | Hepatovirus | M32Eidhel2010 | Eidolon helvum | Ghana | 2010 KT452730.1 | Hepatovirus | BUO2BF86Colafr2010 | Coleura afra | Ghana | 2010 ——▲ OM302498.1 | Hepatovirus | 15893 | Eptesicus fuscus | USA | 2021 KT452729.1 | Hepatovirus | FO1AF48Rhilan2010 | Rhinolophus landeri | Ghana | 2010 ─▲ KT452742.1 | Hepatovirus | SMG18520Minmav2014 | Miniopterus | Madagascar | 2014 KJ641697.1 | Shanbavirus | BtNv-PicoV/SC2013 | Nyctalus velutinus | China | 2013 ON375332.1 | Shanbavirus | BtPp-PicoV/F-HS1/SWE/2020 | Pipistrellus pygmaeus | Sweden | 2020 ON375333.1 | Shanbavirus | BtPp-PicoV/F-HS2/SWE/2020 | Pipistrellus pygmaeus | Sweden | 2020 KJ641688.1 | Shanbavirus | BtRlep-PicoV/FJ2012 | Rhinolophus lepidus | China | 2012 KJ641692.1 | Shanbavirus | BtRa-PicoV/JS2013 | Rhinolophus affinis | China | 2013 KJ641685.1 | Shanbavirus | BtRf-PicoV-1/YN2012 | Rhinolophus ferrumequinum | China | 2010 OQ818327 | Nepovirus | Rousettus madagascariensis | Madagascar | 2018 OQ818336 | Picorna–like virus | Pteropus rufus | Madagascar | 2018 MZ218061.1 | Shanbavirus | BtPV/13585–58/M.dau/DK/2014 | Myotis daubentonii | Denmark | 2014 OQ818322 | Kobuvirus | Eidolon dupreanum | Madagascar | 2019 OP287812.1 | Kobuvirus | FEC145 | Eidolon dupreanum | Madagascar | 2018 ► KJ641691.1 | Kobuvirus | BtMf–PicoV–2/GD2012 | Miniopterus fuliginosus | China | 2012 MF352427.1 | Unclassified | Miniopterus schreibersii | China | 2012 MW450838.1 | Unclassified | BF2-picornavirus-YN-CHN-2020 | Miniopterus schreibersii | China | 2020 ─ KJ641686.1 | Kobuvirus | BtMr–PicoV/JX2010 | Myotis ricketti | China | 2010 MN602325.1 | Shanbavirus | Pipistrellus pipistrellus | Italy | 2017 OQ818317 | Kunsagivirus | Eidolon dupreanum | Madagascar | 2018 Shanbavirus/Miniopterus\_shreibersii/Hungary\_clade JQ814851.1 | Mischivirus | Miniopterus schreibersii | China | 2010 OQ818316 | Mischivirus | Pteropus rufus | Madagascar | 2018 → KP100644.1 | Mischivirus | PREDICT-06105 | Macronycteris gigas | Democratic Republic of the Congo | 2013 OQ818323 | Teschovirus | Rousettus madagascariensis | Madagascar | 2018 OQ818324 | Teschovirus | Rousettus madagascariensis | Madagascar | 2018 OQ818318 | Teschovirus | Eidolon dupreanum | Madagascar | 2018 KX420938.1 | Teschovirus | KSA412 | Eidolon helvum | Saudi Arabia | 2012 ↑ KX759621.1 | Sapovirus | Bat–SaV/Limbe899a/CAM/2014 | Eidolon helvum | Cameroon | 2014 ▲ KX759618.1 | Sapovirus | Bat–SaV/Limbe25/CAM/2014 | Eidolon helvum | Cameroon | 2014 ↑ KX759622.1 | Sapovirus | Bat–SaV/Limbe899b/CAM/2014 | Eidolon helvum | Cameroon | 2014 ▲ KX759620.1 | Sapovirus | Bat–SaV/Limbe65/CAM/2014 | Eidolon helvum | Cameroon | 2014 OP963623.1 | Sapovirus | Rousettus leschenaultii | China | 2017 KX759623.1 | Sapovirus | Bat–SaV/Limbe900/CAM/2014 | Eidolon helvum | Cameroon | 2014 KX759619.1 | Sapovirus | Bat–SaV/Lysoka36/CAM/2014 | Eidolon helvum | Cameroon | 2014 OQ818319 | Sapovirus | Eidolon dupreanum | Madagascar | 2018 → OP963622.1 | Sapovirus | Cynopterus sphinx | China | 2016 OQ818331 | Tetnovirus | Pteropus rufus | Madagascar | 2018 OQ818330 | Cheravirus | Pteropus rufus | Madagascar | 2018 OQ818326 | Nepovirus | Rousettus madagascariensis | Madagascar | 2018 → KJ641700.1 | Unclassified | BtMspp.-CalV/GD2012 | Myotis sp. | China | 2012 ↑ OP963671.1 | Sapovirus | Rousettus leschenaultii | China | 2018 OQ709197.1 | Sapovirus | BtSaV/RIWD03 | Rousettus leschenaultii | China | 2018 Shanbavirus/Rhinolophus\_sp./China\_clade → KX644937.1 | Crohivirus | Eidolon helvum | Cameroon | 2013 → MF352407.1 | Unclassified | Rhinolophus sinicus | China | 2012 MK348056.1 | Parechovirus | QAPp32 | Pipistrellus pipistrellus | China | 2016 OQ363805.1 | Unclassified | GZ/L173.18/2022 | Myotis ricketti | China | 2022 → OK149219.1 | Parechovirus | BatPeVyn11 | Hipposideros armiger | China | 2017 Parechovirus/Scotophilus\_kuhlii/Vietnam\_clade KJ641695.1 | Shanbavirus | BtRs-PicoV/GD2012 | Rhinolophus sinicus | China | 2012 OQ818340 | Sapovirus | Eidolon dupreanum | Madagascar | 2018 → NC\_030886.1 | Coronavirus | GCCDC1 356 | Rousettus leschenaulti | China | 2018 0.3

Bat host

Genome position Non-structural polyprotein Reference: Pteropus rufus mischivirus OQ818316 accession Miniopterus schreibersii mischivirus JQ814851 — Miniopterus schreibersii shanbavirus KP054276 — Miniopterus schreibersii shanbavirus KP054278 — Miniopterus schreibersii shanbavirus KP054277 — Miniopterus sp. mischivirus MG888045 0.75 -0.25 -Genome position Reference: Eidolon dupreanum sapelovirus OQ818320 Eidolon dupreanum sapelovirus OQ818321
Vespertilio superans shanbavirus KJ641696
Myotis ricketti sapelovirus MF352431 accession Rousettus madagascariensis sapelovirus OQ818329 Myotis altarium shanbavirus KJ641689 Eidolon helvum sapelovirus KX644938 0.25 -8000 Genome position 3A 3B 3C Reference: Eidolon dupreanum hepatovirus OQ818337 accession — Eidolon helvum hepatovirus KT452714 — Hipposideros armiger hepatovirus MG559674 — Coleura afra hepatovirus KT452730 — Miniopterus cf. manavi hepatovirus KT452742 — Rhinopoma hardwickii hepatovirus KX420952 — Rhinopoma hardwickii h 0.50 -0.25 -Genome position VP3 VP1

accession Eidolon dupreanum picorna–like virus OQ818339 Eptesicus fuscus picorna–like virus HQ585111 Miniopterus pusillus picornavirus OQ363752 Miniopterus pusillus picornavirus OQ363755 Pteropus lylei picoravirales sp. MK468720

Reference: Pteropus rufus felisavirus OQ818335