Table S2. Polymerase gene sequences used to analyse RNA viruses of several taxa. Sources are provided for the natural host reservoir classification.

|  |  |  |  |
| --- | --- | --- | --- |
| Species | Genbank reference | Natural reservoir | Source |
| Flavivirus |
| Alkhurma virus | NP\_775478 | Rodents | [[1](#_ENREF_1)] |
| Apoi virus | AAC58749 | Rodents | [[2](#_ENREF_2)] |
| Aroa virus | YP\_001040004 | Rodents | [[3](#_ENREF_3)] |
| Bagaza virus | AAC58751 | Birds | [[4](#_ENREF_4)] |
| Dengue | AAT07549 | Primates | [[5](#_ENREF_5)] |
| Entebbe bat virus | AAC58761 | Bats | [[6](#_ENREF_6)] |
| Ilheus virus | ABQ88008 | Birds | [[7](#_ENREF_7)] |
| Japanese encephalitis virus | NP\_775674 | Birds | [[8](#_ENREF_8)] |
| Kokobera virus | AAC58771 | Other Mammals | [[9](#_ENREF_9)] |
| Langat virus | NP\_740302 | Other Mammals | [[10](#_ENREF_10)] |
| Louping ill virus | NP\_740729 | Other Mammals | [[11](#_ENREF_11)] |
| Modoc virus | AAC58775 | Rodents | [[12](#_ENREF_12)] |
| Murray Valley encephalitis virus | AAC58777 | Birds | [[13](#_ENREF_13)] |
| Omsk virus | AAC58781 | Rodents | [[14](#_ENREF_14)] |
| Powassan virus | NP\_775524 | Rodents | [[15](#_ENREF_15)] |
| Rio bravo virus | AAC58784 | Bats | [[16](#_ENREF_16)] |
| Sepik virus | AAC58792 | Primates | [[17](#_ENREF_17)] |
| St Louis encephalitis | AAB96583 | Birds | [[18](#_ENREF_18)] |
| Tick-borne Encephalitis virus | NP\_775511 | Rodents | [[19](#_ENREF_19)] |
| Usutu virus | AAC58800 | Birds | [[20](#_ENREF_20)] |
| West Nile Virus | ADG27877 | Birds | [[18](#_ENREF_18),[21](#_ENREF_21)] |
| Yellow fever virus | AAC58804 | Primates | [[22](#_ENREF_22)] |
| Yokose virus | AAC58802 | Bats | [[23](#_ENREF_23)] |
| Zika virus | AAC58803 | Primates | [[24](#_ENREF_24)] |
| Alphavirus |
| Aura virus | NP\_819013 | Birds | [[25](#_ENREF_25)] |
| Barmah Forest virus | NP\_597797 | Other mammals | [[26](#_ENREF_26)] |
| Eastern equine encephalitis | NP\_740652 | Birds | [[27](#_ENREF_27),[28](#_ENREF_28)] |
| Chikungunya virus | ADZ47898 | Humans | [[29](#_ENREF_29)] |
| Getah virus | ABR23662 | Other mammals | [[30](#_ENREF_30)] |
| Mayaro virus | NP\_740690 | Other mammals | [[31](#_ENREF_31)] |
| O'nyong-nyong virus | NP\_740706 | Humans | [[32](#_ENREF_32)] |
| Ross river virus | NP\_740681 | Other mammals | [[26](#_ENREF_26)] |
| Semliki forest virus | NP\_740668 | Other mammals | [[33](#_ENREF_33)] |
| Sindbis virus | NP\_740669 | Birds | [[27](#_ENREF_27)] |
| Highlands J virus | YP\_002802304 | Birds | [[34](#_ENREF_34)] |
| Fort Morgan virus | YP\_003324594 | Birds | [[35](#_ENREF_35)] |
| Western equine encephalomyelitis virus | NP\_818936 | Birds | [[27](#_ENREF_27),[36](#_ENREF_36)] |
| Paramixoviridae |  |  |  |
| Avian paramyxovirus 2 | ADK\_25248 | Birds | [[37](#_ENREF_37)] |
| Avian paramyxovirus 3 | ACI47553 | Birds | [[37](#_ENREF_37)] |
| Beilong virus | YP\_512254 | Rodents | [[38](#_ENREF_38)] |
| Bovine parainfluenza virus | ADQ43756 | Other Mammals | [[39](#_ENREF_39)] |
| Bovine respiratory syncytial virus | NP\_048058 | Other Mammals | [[40](#_ENREF_40)] |
| Canine distemper virus | AAR32274 | Other Mammals | [[41](#_ENREF_41)] |
| Dolphin morbillivirus | NP\_945030 | Other Mammals | [[42](#_ENREF_42)] |
| Goose paramyxovirus | NP\_872278 | Birds | [[43](#_ENREF_43)] |
| Hendra virus | NP\_047113 | Bats | [[44](#_ENREF_44)] |
| Human metapneumovirus | YP\_012613 | Primates | [[45](#_ENREF_45)] |
| Human parainfluenza virus 1 | NP\_604442 | Primates | [[46](#_ENREF_46)] |
| Human parainfluenza virus 2 | NP\_598406 | Primates | [[46](#_ENREF_46)] |
| Human parainfluenza virus 3 | AAB48690 | Primates | [[46](#_ENREF_46)] |
| Human respiratory syncytial virus | AAB82445 | Primates | [[46](#_ENREF_46)] |
| J-virus | YP\_338085 | Primates | [[47](#_ENREF_47)] |
| Menangle virus | YP\_415514 | Bats | [[48](#_ENREF_48)] |
| Mossman virus | NP\_958055 | Rodents | [[49](#_ENREF_49)] |
| Mumps virus | AAL83746 | Primates | [[50](#_ENREF_50)] |
| Murine pneumonia virus | AAW02843 | Rodents | [[51](#_ENREF_51)] |
| Newcastle disease virus | AAK55552 | Birds | [[52](#_ENREF_52)] |
| Nipah virus | NP\_112028 | Bats | [[44](#_ENREF_44)] |
| Peste-des-petits-ruminants virus | CAD88265 | Other Mammals | [[53](#_ENREF_53)] |
| Phocine distemper virus | CAA70843 | Other Mammals | [[54](#_ENREF_54)] |
| Porcine rubulavirus | CAA66807 | Other Mammals | [[55](#_ENREF_55)] |
| Rinderpest virus | YP087126 | Other Mammals | [[56](#_ENREF_56)] |
| Sendai virus | NP\_056879 | Rodents | [[57](#_ENREF_57)] |
| Simian Parainfluenza virus 5 | YP\_138518 | Other Mammals | [[58](#_ENREF_58)] |
| Simian virus 41 | YP\_138510 | Primates | [[59](#_ENREF_59)] |
| Tioman virus | NP665871 | Bats | [[60](#_ENREF_60)] |
| Caliciviridae |
| Bovine calicivirus | CAA09480 | Artiodactyla | [[61](#_ENREF_61)] |
| Bovine enteric calicivirus | AAP83352 | Artiodactyla | [[62](#_ENREF_62)] |
| Canine calicivirus | AAC16445 | Carnivores | [[63](#_ENREF_63)] |
| European brown hare syndrome virus | NP\_786902 | Lagomorphs | [[64](#_ENREF_64)] |
| Feline calicivirus | NP\_783310 | Carnivores | [[65](#_ENREF_65)] |
| Mink enteric sapovirus | AAN64326 | Carnivores | [[66](#_ENREF_66)] |
| Nebraska-like virus | NP\_663315 | Artiodactyla | [[61](#_ENREF_61)] |
| Newbury agent 1 | YP\_529897 | Artiodactyla | [[67](#_ENREF_67)] |
| Norovirus genogroup II (swine calicivirus) | BAB83513 | Artiodactyla | [[68](#_ENREF_68)] |
| Norovirus genogroup IV (lion) | ABR15782 | Carnivores | [[69](#_ENREF_69)] |
| Rabbit vesivirus | YP\_873922 | Lagomorphs | [[70](#_ENREF_70)] |
| San miguel sea lion virus | ABI34890 | Artiodactyla | [[71](#_ENREF_71)] |
| Sapovirus genogroup I (Sapporo) | AAC40578 | Primates | [[72](#_ENREF_72)] |
| Steller sea lion vesivirus | YP\_002004564 | Carnivores | [[73](#_ENREF_73)] |
| Vesicular exanthema of swine virus | NP\_786896 | Artiodactyla | [[74](#_ENREF_74)] |
| Walrus calicivirus | NP\_786919 | Carnivores | [[75](#_ENREF_75)] |
| Norovirus genogroup II (Lordsdale) | ABA12125 | Primates | [[76](#_ENREF_76)] |
| Primate calicivirus virus/VESV-like/Pan-1 | AAC61758 | Primates | [[77](#_ENREF_77)] |

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