

Supplementary Data Figure 4:

Bat Astrovirus references:

A - MH013972.1: *Hipposideros caffer*, Mozambique; B - MH013971.1: *Hipposideros caffer*, Mozambique; C - MH013970.1: *Hipposideros caffer*, Mozambique; D - KX858349.1: *Rhinolophus* spp., Laos; E - MC841039.1: *Rhinolophus ferrumquinum*, Korea; F - MH013989.1: *Trianop afer*, Mozambique; G - MH013986.1: *Trianop afer*, Mozambique; H - MH013971.1: *Hipposideros caffer*, Mozambique; I - KX858371.1: *Hipposideros larvatus*, Laos; J - KY575656.1: *Myotis goudoti*, Madagascar; K - KY575655.1: *Myotis goudoti*, Madagascar; L - MH013988.1: *Trianops afer*, Mozambique; M - MH013076.1: *Nycteris thebaica*, Mozambique; N - KY575649.1: *Miniopterus griveaudi*, Madagascar; O - KY575647.1: *Miniopterus griveaudi*, Madagascar; P - MC840967.1: *Rhinolophus ferrumquinum*, Korea; Q - MC840969.1: *Rhinolophus ferrumquinum*, Korea; R - KY575648.1: *Miniopterus griveaudi*, Madagascar; S - EU847151.1: *Miniopterus magnater*, Chine; T - KY575674.1: *Miniopterus griveaudi*, Madagascar; U - KY575666.1: *Rousettus madagascariensis*, Madagascar; V - KY575661.1: *Paratrianops furculus*, Madagascar; W - KY575644.1: *Miniopterus griveaudi*, Madagascar; X - EU847155.1: *Miniopterus pussilus*, Chine; Y - KP843561.1: *Vespertillio Murinus*, Czech; Z - KP843558.1: *Nyctalus noctule*, Czech; AA - KX858513.1: *Megaderma lyra*, Cambodge; AB - HM368175.1: *Myotis myotis*, Germany; AC - KX858367.1: *Roussetus* spp., Laos; AD - FJ571067.1: *Taphozous melanopogon*, Chine; AE - KX858377.1: *Roussetus* spp., Cambodge; AF - KX858378.1: *Roussetus* spp., Laos

Human Astrovirus references:

GQ502195.1: Human Astrovirus VA2; JQ673585.1: Human Astrovirus HMO-A; JX857869.1: Human Astrovirus VA4; KJ920196.1: Human Astrovirus VA1; GQ502196.1: Human Astrovirus VA3; JX857870.1: Human Astrovirus MLB3; JQ673581.1: Human Astrovirus MLB1; GQ502188.1: Human Astrovirus MLB2; L23509.1: Human Astrovirus Type 2; AY20891.1: Human Astrovirus Type 4; DQ028633.1: Human Astrovirus Type 5; GQ495608.1: Human Astrovirus Type 6; JF491430.1: Human Astrovirus Type 3

Other Astrovirus references:

GQ914773.1: Porcine Astrovirus (Po AstV); FJ890355.1: Bottlenose Dolphin Astrovirus (BDo AstV); JN420351.1: California Sea Lion Astrovirus (CSL AstV); EU669001.1: Chicken Astrovirus (Ch AstV)