

**Supplementary Table 1: Accession numbers for orthoreovirus protein sequences used in concatenated structural protein phylograms.**

	Core shell	Core RdRp	Core turret	Core NTPase	Outer shell	Core clamp	Outer clamp
<b>ARV176</b>	ACH72474	ACH72476	ACH72478	AAT52025	AAW78486	AAC18121	AAC18125
<b>ARV138</b>	ACH72473	ACH72475	ACH72477	AAT52024	AAW78485	AAC18122	AAC18126
<b>ARVtu-A</b>	ALG03386	ALG03388	ALG03387	ALG03389	ALG03390	ALG03395	ALG03396
<b>ARVtu-B</b>	AJW82011	AJW82013	AJW82012	AJW82014	AJW82015	AJW82018	AJW82019
<b>MdJ18</b>	AFV52269	AFV52270	AFV52271	AFV52272	AFV52273	AFV52278	AFV52279
<b>MdZJ2000M</b>	AGY49078	AGY49079	AGY49080	AGY49081	AGY49082	AGY49084	AGY49085
<b>Md815-12</b>	AGO58392	AGO58393	AGO58394	AGO58395	AGO58396	AGO58398	AGO58399
<b>MdNP03</b>	AGH25585	AGH25586	AGH25587	AEA92267	AEA92266	AEA92268	ACX37670
<b>ARVgo-03G</b>	AFQ62078	AFQ62079	AFQ62080	AFQ62081	AFQ62082	AFQ62087	AFQ62088
<b>ARVgo-D20/99</b>	AHL21592	AHL21593	AHL21594	AHL21595	AHL21596	AHL21600	AHL21601
<b>NBV</b>	AEQ49382	AEQ49381	AEQ49380	AEQ49383	AEQ49384	AAC18123	AAC18127
<b>NBVpu</b>	AEQ49376	AEQ49375	AEQ49374	AEQ49377	AEQ49378	AAR13234	AAR13236
<b>ARVbu</b>	AHW40447	AHW40448	AHW40449	AHW40450	AHW40451	AHW40455	AHW40456
<b>ARVco</b>	BAQ19493	BAQ19494	BAQ19495	BAQ19496	BAQ19497	BAQ19502	BAQ19503
<b>MRV1</b>	AAD42304	AAA47234	AAK57507	CAA42570	AAM10735	AAA47239	CAA43783
<b>MRV2</b>	AGG40207	AGG40205	AGG40205	AGG40208	AGG40209	AGG40211	AGG40213
<b>MRV3</b>	AJE25913	AJE25911	AJE25911	AJE25914	AJE25915	AJE25918	AJE25920
<b>RRVbv</b>	YP009020572	YP009020578	YP009020573	YP009020574	YP009020579	YP009020580	YP009020576
<b>RRVT</b>	AOM63684	AOM63686	AOM63685	AOM63688	AOM63689	AOM63692	AOM63693
<b>BRV</b>	YP004769549	YP004769548	YP004769547	YP004769550	YP004769551	YP004769553	YP004769554
<b>MaRV</b>	YP009246471	YP009246466	YP009246465	YP009246467	YP009246472	YP009246469	YP009246473
<b>BrRV</b>	YP003717771	YP003717773	YP003717772	YP003717774	YP003717775	YP003717777	YP003717778
<b>PRV</b>	ATE91070	ATE91068	ATE91069	ATE91071	ATE91072	ATE91076	ATE91074

**ARV176:** Avian orthoreovirus, 176; **ARV138:** Avian orthoreovirus, 138; **ARVtu-A:** Avian orthoreovirus, 19831M09; **ARVtu-B:** Avian orthoreovirus, Reo/PA/Turkey/22342/13; **MdJ18:** Muscovy duck reovirus, J18; **MdZJ2000M:** Muscovy duck reovirus, ZJ2000M; **Md815-12:** Muscovy duck reovirus, 815-12; **MdNP03:** Muscovy duck reovirus NP03/CHN/2009; **ARVgo-03G:** Goose orthoreovirus, 03G; **ARVgo-D20/99:** Goose orthoreovirus, D20/99; **NBV:** Nelson Bay orthoreovirus; **NBVpu:** Pulau reovirus; **ARVco:** Tvarminne avian virus, Corvid; **ARVbu:** Avian orthoreovirus, Pycno-1; **MRV1:** Mammalian orthoreovirus 1, Lang; **MRV2:** Mammalian orthoreovirus 2, TRALAU2004; **MRV3:** Mammalian orthoreovirus 3, T3D-S; **RRVbv:** Reptilian orthoreovirus bush viper, 47/02; **RRVT:** Reptilian orthoreovirus Testudine, CH1197/96; **BRV:** Baboon orthoreovirus; **MaRV:** Mahlapitsi orthoreovirus, 2511; **BrRV:** Broome virus; **PRV:** Piscine orthoreovirus, NOR2012-V3621.