

1 **Supplementary Tables.**

2 **Supplementary Table 1.** List of full-length sequences analyzed here. The viral clade,
 3 sequence name and GenBank number are shown. Where applicable, information on the year
 4 and place of isolation are provided.

name	GenBank number	isolation date	isolation location
FPV			
FPLV-XJ-1.ch	EF988660	-	China
FPV-193.au_70	X55115	1970	Australia
MEV-Aba.ja_78	D00765	1978	Japan
FPV-b.us_67	M38246	1967	US
FPV-3.us_67	EU659111*	1967	US
FPV-4.us_64	EU659112*	1964	US
FPV-8a.us_89	EU659113*	1989	US
FPV-8b.us_89	EU659114*	1989	US
FPV_kai.us_06	EU659115*	2006	US
CPV-2			
CPV-pD8	NC_001539	-	-
CPV-bM38245	M38245	-	-
CPV-N.us_78	M19296	1978	US
CPV-5.us_79	EU659116*	1979	US
CPV-6.us_80	EU659117*	1980	US
CPV-2abc			
CPVB-2004.ch_104'	EF011664	2004	China
CPV-395.us_98	AY742936	1998	US
CPV-U6.ge_95	AY742935	1995	Germany
CPV-447.ge_95	AY742934	1995	Germany
CPV-339.nz_94	AY742933	1994	New Zealand
CPV-193.us_91	AY742932	1991	US
CPV-AJ564427.in	AJ564427	-	Northern India
CPV-Y1.ja_82	D26079	1982	Japan
CPV-cpv/nj01/06.ch.06	EU310373	2006	China
CPV-13.us_81	EU659118*	1981	US
CPV-410.us_100	EU659119*	2000	US
CPV-411a.us_98	EU659120*	1998	US
CPV-411b.us_98	EU659121*	1998	US

5 - not available,

6 * determined in this study

7

7 **Supplementary Table 2.** List of NS1 sequences used here. The viral clade, sequence name
8 and GenBank number are shown. Where applicable, information on year and place of isolation
9 is provided.

name	GenBank number	isolation date	isolation location
FPV			
FPLV-XJ-1.ch	EF988660	-	China
FPV-193.au_70	X55115	1970	Australia
MEV-Aba.ja_78	D00765	1978	Japan
FPV-b.us_67	M38246	1967	US
FPV-3.us_67	EU659111*	1967	US
FPV-4.us_64	EU659112*	1964	US
FPV-8a.us_89	EU659113*	1989	US
FPV-8b.us_89	EU659114*	1989	US
FPV_kai.us_06	EU659115*	2006	US
FPLV-PLI-IV.fr_68	AB000057	1968	France
FPLV- Obihiro_ja_74	AB000055	1974	Japan (Hokkaido)
FPLV-TU2_ja_75	AB000065	1975	Japan (Tokyo)
FPLV-TU4_ja_75	AB000067	1975	Japan (Tokyo)
FPLV-TU8_ja_76	AB000069	1976.5	Japan (Tokyo)
MEV- Abashiri_ja_78	D00765	1978	Japan
FPLV-TU10_ja_79	AB000062	1979	Japan (Tokyo)
FPLV-TU12_ja_79	AB000063	1979	Japan (Tokyo)
FPLV-483_ja_90	AB000048	1990	Japan (Hokkaido)
FPLV- Fukagawa_ja_93	AB000053	1993	Japan (Fukushima)
FPLV-941_ja_94	AB000049	1994	Japan (Tottori)
FPLV-AO1_ja_94	AB000051	1994	Japan (Hokkaido)
FPLV- Som1_ja_94	AB000058	1994	Japan (Nara)
FPLV- Som4_ja_94	AB000060	1995	Japan (Saitama)
CPV-2			
CPV-pD8	NC_001539	-	-
CPV-bM38245	M38245	-	-
CPV-N.us_78	M19296	1978	US
CPV-5.us_79	EU659116*	1979	US
CPV-6.us_80	EU659117*	1980	US
CPV-d.us_79	M38245	1979	US
CPV-2abc			
CPVB- 2004.ch_104'	EF011664	2004	China
CPV-395.us_98	AY742936	1998	US
CPV-U6.ge_95	AY742935	1995	Germany
CPV-447.ge_95	AY742934	1995	Germany
CPV-339.nz_94	AY742933	1994	New Zealand
CPV-193.us_91	AY742932	1991	US

CPV-AJ564427.in	AJ564427	-	Northern India
CPV-Y1.ja_82	D26079	1982	Japan
CPV- cpv/nj01/06.ch.06	EU310373	2006	China
CPV-13.us_81	EU659118*	1981	US
CPV-410.us_100	EU659119*	2000	US
CPV-411a.us_98	EU659120*	1998	US
CPv-411b.us_98	EU659121*	1998	US
CPV-31.us_83	AY787929	1983	US
CPV-15.us_84	AY787926	1984	US
CPV-39.us_84	AY787930	1984	US
CPV-24.us_90	AY787928	1990	US
CPV-133.us_90	M74852	1990	US
CPV-402.us_98	AY742946	1998	US
CPV-407.us_98	AY742950	1999	US
CPV-412.us_98	AY742948	1998	US
CPV-431.us_103	AY742952	2003	US
CPV-435.us_103	AY742954	2003	US
CPV-436.us_104	AY742956	2004	US

10 - not available,

11 * determined in this study.

12

12 **Supplementary Table 3.** List of VP2 sequences used here. The viral clade, sequence name
 13 and GenBank number are shown. Where applicable, information on year and place of isolation
 14 are provided.

name	GenBank number	isolation date	isolation location
FPV			
BFPV.fi_83	U22185	1983	Finland
FPLV/Lion/PT06.pt_106	EF418569	2006	Portugal
FPLV/Tiger/PT06.pt_106	EF418568	2006	Portugal
FPLV-483.ja_90	D88286	1990	Japan
FPLV-941.ja_94	AB000050	1994	Japan
FPLV-A04.ja_94	AB000052	1994	Japan
FPLV-ARG01.ar	EU018145	-	Argentina
FPLV-ARG02.ar	EU018144	-	Argentina
FPLV-ARG03.ar	EU018143	-	Argentina
FPLV-ARG04.ar	EU018142	-	Argentina
FPLVb-CU4	M24004	-	-
FPLV-fk.ja_93	AB000054	1993	Japan
FPLV-Gercules-Biocentr	AY665655	-	-
FPLV-JF-3	DQ099431	-	-
FPLV-obi.ja_74	AB000056	1974	Japan
FPLV-pliIV.fr_68	D88287	1968	France
FPLV-Som1.ja_94	AB000059	1994	Japan
FPLV-Som4.ja_95	AB000061	1995	Japan
FPLV-tu10.ja_79	D78584	1979	Japan
FPLV-tu12.ja_79	AB000064	1979	Japan
FPLV-tu2.ja_75	AB000066	1975	Japan
FPLV-tu4.ja_75	AB000068	1975	Japan
FPLV-tu8.ja_76.5	AB000070	1976.5	Japan
FPLV-V142	AB054225	-	-
FPLV-V208	AB054226	-	-
FPLV-V211	AB054227	-	-
FPLV-XJ-1.ch	EF988660	-	China
FPLV-ZF-5	DQ099430	-	-
FPV-193.au_70	X55115	1970	Australia
FPV-23.us_90	U22187	1990	USA
FPV-377.ge_93	U22188	1993	Germany
FPV-a.uk_62	M24002	1962	United Kingdom
FPV-T1	AF015223	-	-
MEV-a.us_73	M23999	1973	USA
MEV-Aba.ja_78	D00765	1978	Japan
MEV-b.us_75	M24001	1975	USA
MEV-Beregovoj-Biocentr	AY665656	-	-
MEV-Cherepanovo98	AF201477	-	-
MEV-d.uk_65	U22190	1965	United Kingdom
MEV-EF428258	EF428258	-	-
MEV-EU137663	EU137663	-	-

MEV-Rodniki-Biocentr	AY665657	-	-
RPV.us_79	M24005	1979	USA
FPV-3.us_67	EU659111*	1967	USA
FPV-4.us_64	EU659112*	1964	USA
FPV-8a.us_89	EU659113*	1989	USA
FPV-8b.us_89	EU659114*	1989	USA
FPV_kai.us_106	EU659115*	2006	USA
CPV-2			
CPV-RD87.fi_87	U22193	1987	Finland
CPV-dCornell320	M23255	-	-
CPV-128.us_78	U22186	1978	USA
CPV-RD80.fi_80	U22192	1980	Finland
CPV-pD8	NC_001539	-	-
CPV-N.us_78	M19296	1978	USA
CPV-AJ698134.in	AJ698134	-	India
CPV-M10989	M10989	-	-
CPV-5.us_79	EU659116*	1979	USA
CPV-6.us_80	EU659117*	1980	USA
CPV-2a			
BR133.br_94	DQ340427	1994	Brazil
BR135.br_80	DQ340405	1980	Brazil
BR136.br_93	DQ340423	1993	Brazil
BR137.br_80	DQ340406	1980	Brazil
BR137.br_93	DQ340424	1993	Brazil
BR145.br_80	DQ340407	1980	Brazil
BR154.br_80	DQ340408	1980	Brazil
BR17.br_90	DQ340412	1990	Brazil
BR18.br_90	DQ340413	1990	Brazil
BR183.br_85	DQ340409	1985	Brazil
BR209.br_94	DQ340428	1994	Brazil
BR22.br_93	DQ340422	1993	Brazil
BR227.br_93	DQ340425	1993	Brazil
BR237.br_94	DQ340429	1994	Brazil
BR31.br_90	DQ340414	1990	Brazil
BR315.br_86	DQ340410	1986	Brazil
BR43.br_91	DQ340415	1990	Brazil
BR46.br_95	DQ340430	1994	Brazil
BR47.br_91	DQ340416	1991	Brazil
BR491.br_92	DQ340418	1992	Brazil
BR52.br_91	DQ340417	1991	Brazil
BR56.br_95	DQ340431	1995	Brazil
BR570.br_92	DQ340419	1992	Brazil
BR593.br_92	DQ340420	1992	Brazil
BR597.br_92	DQ340421	1992	Brazil
BR6.br_80	DQ340404	1980	Brazil
BR62.br_95	DQ340432	1995	Brazil
BR7168.br_100	DQ340433	2000	Brazil
BR8.br_90	DQ340411	1990	Brazil
BR8155.br_100	DQ340434	2000	Brazil
BR84.br_94	DQ340426	1994	Brazil

CPV-133.us_90	M74852	1990	USA
CPV-15.us_84	M24003	1984	USA
CPV-193.us_91	AY742932	1991	USA
CPV-209.vi_97	AB054219	1997	Vietnam
CPV-24.us_90	U22896	1990	USA
CPV2a-AJ564427.in	AJ564427	-	India
CPV2a-APD1.ch	EU213074	-	China
CPV2a-BD2.ch	EU213079	-	China
CPV2a-BD3.ch	EU213080	-	China
CPV2a-BD4.ch	EU213081	-	China
CPV2a-BJ004/O7.ch	EF666059	-	China, Beijing
CPV2a-BJ005/O7.ch	EF666060	-	China, Beijing
CPV2a-BJ008/O7.ch	EF666061	-	China, Beijing
CPV2a-BJ010/O7.ch	EF666062	-	China, Beijing
CPV2a-BJ015/O7.ch	EF666063	-	China, Beijing
CPV2a-BJ017/O6.ch	EF666065	-	China, Beijing
CPV2a-BJ017/O7.ch	EF666064	-	China, Beijing
CPV2a-BJ018/O7.ch	EF666066	-	China, Beijing
CPV2a-BJ020/O7.ch	EF666067	-	China, Beijing
CPV2a-BJ027/O7.ch	EF666068	-	China, Beijing
CPV2a-BJ034/O7.ch	EU145953	-	China
CPV2a-BJ042/O7.ch	EF666069	-	China, Beijing
CPV2a-BJ050/O7.ch	EU145955	-	China
CPV2a-BJ064/O7.ch	EU145956	-	China
CPV2a-BJ068/O7.ch	EU145957	-	China
CPV2a-BJ069/O7.ch	EU145958	-	China
CPV2a-BJ077/O7.ch	EU145959	-	China
CPV2a-BJ082/O7.ch	EU145960	-	China
CPV2a-BJ085/O7.ch	EU145961	-	China
CPV2a-HT.ch	EU213077	-	China
CPV2a-HZ0761.ch	EU213073	-	China
CPV2a-JB1.ch	EU213076	-	China
CPV2a-K001.sk	EU009200	-	South Korea
CPV2a-K014.sk	EU009201	-	South Korea
CPV2a-K015.sk	EU009202	-	South Korea
CPV2a-K022.sk	EU009203	-	South Korea
CPV2a-K026.sk	EU009204	-	South Korea
CPV2a-KT1.ch	EU213082	-	China
CPV2a-KT2.ch	EU213083	-	China
CPV2a-NJ-04.ch	EU095252	-	China, Beijing
CPV2a-Sho-nan	AB128923	-	-
CPV2a-ZD2.ch	EU213084	-	China
CPV2a-ZD3	EU213085	-	-
CPV2b-BD1.ch	EU213075	-	China
CPV2b-BJ044/O7.ch	EU145954	-	China
CPV2b-HN-3.ch	Q177497	-	China
CPV2b-K029.sk	EU009205	-	South Korea
CPV2b-K031.sk	EU009206	-	South Korea
CPV2b-ZD1.ch	EU213078	-	China
CPV2c-Pome.sk	EF599098	-	South Korea

CPV2-DQ903936.ch	DQ903936	-	China
CPV-31.us_83	M24000	1983	USA
CPV-314.ja_93	D78585	1993	Japan
CPV-339.nz_94	AY742933	1994	New Zealand
CPV-39.us_84	M74849	1984	USA
CPV-395.us_98	AY742936	1998	USA
CPV-431.us_103	AY742951	2003	USA
CPV-435.us_103	AY742953	2003	USA
CPV-436.us_104	AY742955	2004	USA
CPV-447.ge_95	AY742934	1995	Germany
CPV-46.po_94	Z46651	1994	Poland
CPV-584.it_94	AF306446	1994	Italy
CPV-616.it_95	AF306449	1995	Italy
CPV-618.it_95	AF306447	1995	Italy
CPV-632.it_96	AF306445	1996	Italy
CPV-637.it_95	AF306450	1995	Italy
CPV-677.it_98	AF306448	1998	Italy
CPV-695.eu_99	AF401519	1999	Europe
CPV-699.eu_100	AF393506	2000	Europe
CPVB-2004.ch_104	EF011664	2004	China
CPV-CPVKK0501	EF189717	-	-
CPV-DH326.sk	EF599097	-	South Korea
CPV-DH426.sk	EF599096	-	South Korea
CPV-1k.ja_97	AB115504	1997	Japan
CPV-RPPV.ch_104	DQ354068	2004	China
CPV-SHZ	EU170352	-	China
CPV-T10.ta_95	U72696	1995	Taiwan
CPV-T25.ta_95	U72697	1995	Taiwan
CPV-T37.ta_95	U72698	1995	Taiwan
CPV-T4.ta_94	U72695	1994	Taiwan
CPV-Ta9.ta_98	AB054213	1998	Taiwan
CPV-TWN1.ta_106	EF592511	2006	Taiwan
CPV-U6.ge_95	AY742935	1995	Germany
CPV-V120.vi_97	AB054215	1997	Vietnam
CPV-v123.vi_97	AB054218	1997	Vietnam
CPV-v129.vi_97	AB054216	1997	Vietnam
CPV-V139.vi_97	AB054222	1997	Vietnam
CPV-V154.vi_97	AB054217	1997	Vietnam
CPV-V203.vi_97	AB054224	1997	Vietnam
CPV-V204	AB054221	-	-
CPV-v217.vi_97	AB054220	1997	Vietnam
CPV-w42.it_95	AF306444	1995	Italy
CPV-Y1.ja_82	D26079	1982	Japan
HCM-18.ho.vi_102	AB120722	2002	Vietnam
HCM-23.ho.vi_102	AB120723	2002	Vietnam
HCM-6.ho.vi_102	AB120720	2002	Vietnam
HCM-8.ho.vi_102	AB120721	2002	Vietnam
HNI-1-18.ha.vi_102	AB120728	2002	Vietnam
HNI-2-13.ha.vi_102	AB120724	2002	Vietnam
HNI-3-11.ha.vi_102	AB120726	2002	Vietnam

HNI-3-4.ha.vi_102	AB120725	2002	Vietnam
HNI-4-1.ha.vi_102	AB120727	2002	Vietnam
LCPV-t1.ta_95	AB054214	1995	Taiwan
LCPV-V140.vi_97	AB054223	1997	Vietnam
Taichung.ta_103	AY869724	2003	Taiwan
CPV-13.us_81	EU659118*	1981	USA
CPV-410.us_100	EU659119*	2000	USA
CPV-411a.us_98	EU659120*	1998	USA
CPV-411b.us_98	EU659121*	1998	USA
CPV-cpv/nj01/06.ch_106	EU310373	2006	China

15 - not available,

16 * determined in this study

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