

Supplemental Table 1. GenBank Sequence Database accession numbers for strains used in phylogenetic trees (Figure 2). Strains are listed in the order that their text labels appear in Figure 2, clockwise from top center for each tree.

Virus	Strain Name	GenBank Accession No.
hPIV1	Washington/1957 (C39)	X55803
hPIV1	Washington/1957 (C35)	M31228
hPIV1	Houston/1982 Isolate A	U01075
hPIV1	Houston/1981 Isolate B	U01074
hPIV1	Houston/1985 Isolate A	U01079
hPIV1	Chapel Hill/1983 Isolate B	M86791
hPIV1	Chapel Hill/1970	M86784
hPIV1	Houston/1987	U01081
hPIV1	Chapel Hill/1983 Isolate A	M86790
hPIV1	Oklahoma/4409/2010	JN089925
hPIV1	Milwaukee/51/1991	U70938
hPIV1	Milwaukee/49/1991	U70937
hPIV1	Milwaukee/63/1991	U70947
hPIV1	Milwaukee/64/1991	U70948
hPIV1	Milwaukee/48/1991	U70936
hPIV1	Milwaukee/60/1991	U70944
hPIV1	Houston/1985 Isolate B	U01080
hPIV1	Houston/1983 Isolate B	U01078
hPIV1	Houston/1988	U01082
hPIV1	Houston/1989 Isolate A	U01083
hPIV1	Houston/1983 Isolate A	U01077
hPIV1	Houston/1982 Isolate B	U01076
hPIV1	Houston/1981 Isolate A	U01073
hPIV1	Chapel Hill/1979 Isolate B	M86789
hPIV1	Chapel Hill/1979 Isolate A	M86788
hPIV1	Chapel Hill/1977	M86787
hPIV1	Houston/1989 Isolate C	U01085
hPIV1	Milwaukee/52/1991	U70939
hPIV1	Milwaukee/62/1991	U70946
hPIV1	Houston/1989 Isolate B	U01084
hPIV1	Milwaukee/54/1991	U70941
hPIV1	Milwaukee/61/1991	U70945
hPIV1	Milwaukee/53/1991	U70940
hPIV1	Milwaukee/58/1991	U70943
hPIV1	Milwaukee/55/1991	U70942
hPIV1	Chapel Hill/1973 Isolate B	M86786
hPIV1	Chapel Hill/1973 Isolate A	M86785
hPIV1	Chapel Hill/1981 Isolate B	M86783
hPIV1	Chapel Hill/1981 Isolate A	M86782
hPIV1	Chapel Hill/1980	M86781

hPIV1	Chapel Hill/1966	M86780
hPIV1	Washington/1964	AF457102
hPIV2	Nara Japan/1986 (86-391)	AB189949
hPIV2	Nara Japan/1986 (76-86)	AB189950
hPIV2	Vanderbilt/1994 (V9412-6)	AF213352
hPIV2	Vanderbilt/1994 (V94)	AF533010
hPIV2	Oklahoma/283/2009	JF912195
hPIV2	Lyon/26056/1997	DQ072589
hPIV2	Lyon/20435/2001	DQ072588
hPIV2	Lyon/20283/2001	DQ072587
hPIV2	Lyon/18620/2001	DQ072586
hPIV2	Nara Japan/1980 (4-80)	AB189951
hPIV2	Oklahoma/3955/2005	JF912196
hPIV2	Tokyo/1986 (TC-6558)	AB189953
hPIV2	Tokyo/1986 (TC-6482)	AB189952
hPIV2	Riyadh/105/2009	HM460888
hPIV2	London/Year Unknown	D00865
hPIV2	Ohio/1955 (Greer J-1)	AB367954
hPIV2	Ohio/1955 (Greer)	AF533012
hPIV2	Oklahoma/94/2009	JF912194
hPIV2	Tokyo/1962 (62-M786)	AB189948
hPIV2	Vanderbilt/1998 (V98)	AF533011
hPIV2	Toshiba USA/1957	X57559
hPIV3	New Delhi/322/2006	EU814623
hPIV3	Texas/9305/1982	M18763
hPIV3	Washington/1511/1973	M18759
hPIV3	Washington/649/1979	M18761
hPIV3	West Virginia/1980 or 1981 (JS)	Z11575
hPIV3	Texas/12677/1983	M18764
hPIV3	Texas/545/1980	M18762
hPIV3	Montreal/Year Unknown (14702)	EU424062
hPIV3	Toronto/1993	Z26523
hPIV3	Australia/Year Unknown	AY283063
hPIV3	Australia/124854/1974	M18760
hPIV3	Washington/1957 (C243)	JN089924
hPIV3	Washington/1957 (47885)	M21649
hPIV3	South Africa/1963	HM583801
hPIV3	Japan/2004 (BRD)	AB189961
hPIV3	Lanzhou China/2003 (LZ22)	FJ455842
hPIV3	Guangzhou China/Year Unknown (possibly 2001) (ZHYMgz01)	EU326526
hPIV3	New Delhi/139/2005	EU814626
hPIV3	Oklahoma/410/2009	JF912197
hPIV3	Oklahoma/754/2009	JF912198
hPIV3	Japan/2004 (KK24)	AB189960

hPIV3	New Delhi/w32/2005	EU814625
hPIV3	New Delhi/88/2006	EU814624
hPIV3	Riyadh/149/2009	HM460887
hPIV3	Riyadh/11/2008	HM460886