

**Supplementary table 2** List of accession numbers of strains sequenced in this study, with corresponding accession numbers of glycoprotein genes.

<b>HPIV1</b>	<b>M gene</b>	<b>HN gene</b>	
HPIV1s/Zagreb.HR/38.11(14501)	MF166662	KT336331	
HPIV1s/Zagreb.HR/47.13(1712)	MF166650	KT336347	
HPIV1s/Zagreb.HR/49.15(1866)	MF166636	MF177507	
HPIV1s/Zagreb.HR/50.11(19069)	MF166657	KT336338	
HPIV1s/Zagreb.HR/49.11(18789)	MF166651	KT336337	
HPIV1s/Zagreb.HR/48.15(1828)	MF166663	MF177508	
HPIV1s/Zagreb.HR/46.13(1643)	MF166655	KT336349	
HPIV1s/Zagreb.HR/49.15(1842)	MF166646	MF177509	
HPIV1s/Zagreb.HR/44.13(1564)	MF166652	KT336345	
HPIV1s/Zagreb.HR/49.15(1850)	MF166647		
HPIV1s/Zagreb.HR/50.13(1833)	MF166638	KT336350	
HPIV1s/Zagreb.HR/47.12(3225)	MF166635	KT336344	
HPIV1s/Zagreb.HR/21.11(10300)	MF166649		
HPIV1s/Zagreb.HR/47.13(1469)	MF166639		
HPIV1s/Zagreb.HR/1.16(30)	MF166642	MF177510	
HPIV1s/Zagreb.HR/40.11(15425)	MF166659	KT336332	
HPIV1s/Zagreb.HR/8.12(2000)	MF166656	KT336343	
HPIV1s/Zagreb.HR/48.11(18494)	MF166645	KT336336	
HPIV1s/Zagreb.HR/51.11(19282)	MF166643	KT336351	
HPIV1s/Zagreb.HR/46.15(1710)	MF166641	MF177511	
HPIV1s/Zagreb.HR/49.15(1874)	MF166640	MF177512	
HPIV1s/Zagreb.HR/3.12(1020)	MF166660	KT336341	
HPIV1s/Zagreb.HR/3.16(115)	MF166644	MF177513	
HPIV1s/Zagreb.HR/4.16(203)	MF166653	MF177514	
HPIV1s/Zagreb.HR/1.12(266)	MF166658	KT336340	
HPIV1s/Zagreb.HR/13.16(909)	MF166654	MF177515	
HPIV1s/Zagreb.HR/3.12(1022)	MF166648	KT336342	
HPIV1s/Zagreb.HR/44.15(1669)	MF166661	MF177516	
HPIV1s/Zagreb.HR/3.14(65)	MF166637	KT336348	
<b>HPIV2</b>	<b>M gene</b>	<b>F gene</b>	<b>HN gene</b>
HPIV2i/Zagreb.HR/47.11(16406)	MF133335	KT315655	KT315655
HPIV2i/Zagreb.HR/47.11(16475)	MF133336	KT315656	KT315656
HPIV2i/Zagreb.HR/49.11(16971)	MF133337	KT315658	KT315658
HPIV2i/Zagreb.HR/49.11(17034)	MF133338	KT315659	KT315659
HPIV2i/Zagreb.HR/28.12(2706)	MF133339	KT315660	KT315660
HPIV2i/Zagreb.HR/38.12(2858)	MF133340	KT315661	KT315661
HPIV2i/Zagreb.HR/41.12(2950)	MF133341	KT315662	KT315662
HPIV2i/Zagreb.HR/50.12(3257)	MF133342	KT315663	KT315663
HPIV2i/Zagreb.HR/50.12(3263)	MF133343	KT315664	KT315664
HPIV2i/Zagreb.HR/51.12(3316)	MF133344	KT315665	KT315665
HPIV2i/Zagreb.HR/47.14(1688)	MF133345	KT315667	KT315667
HPIV2i/Zagreb.HR/44.12(3036)	MF133346	KT595234	KT595234
HPIV2i/Zagreb.HR/47.15(1779)	MF133347	MF163150	MF163150
HPIV2i/Zagreb.HR/49.15(1849)	MF133348	MF163151	MF163151
<b>HPIV3</b>	<b>M gene</b>	<b>HN gene</b>	
HPIV3s/Zagreb.HR/51.12(3379)	MF166670	KX467895	
HPIV3s/Zagreb.HR/48.12(3266)	MF166669	KX467894	

HPIV3s/Zagreb.HR/22.16(1424)	MF166684	
HPIV3s/Zagreb.HR/8.14(390)	MF166673	KX467898
HPIV3s/Zagreb.HR/44.12(3108)	MF166668	KX467893
HPIV3s/Zagreb.HR/20.16(1277)	MF166681	
HPIV3s/Zagreb.HR/6.15(338)	MF166679	
HPIV3s/Zagreb.HR/46.13(1650)	MF166671	KX467896
HPIV3s/Zagreb.HR/40.12(2999)	MF166677	KX467902
HPIV3s/Zagreb.HR/14.11(8322)	MF166665	KX467886
HPIV3s/Zagreb.HR/18.11(9484)	MF166676	KX467901
HPIV3s/Zagreb.HR/13.16(892)	MF166680	
HPIV3s/Zagreb.HR/46.13(1651)	MF166678	KX467903
HPIV3s/Zagreb.HR/8.14(346)	MF166672	KX467897
HPIV3s/Zagreb.HR/22.16(1416)	MF166683	
HPIV3s/Zagreb.HR/19.11(9935)	MF166675	KX467900
HPIV3s/Zagreb.HR/20.12(2547)	MF166667	KX467892
HPIV3s/Zagreb.HR/21.16(1332)	MF166682	
HPIV3s/Zagreb.HR/19.12(2501)	MF166666	KX467891
HPIV3s/Zagreb.HR/10.11(6622)	MF166664	KX467885
HPIV3s/Zagreb.HR/8.14(420)	MF166674	KX467899

HMPV	M gene	F gene
HR900-15	MF104588	KX497055
HR1202-15	MF104589	KX497059.1
HR18786-11	MF104590	KT371632.1
HR439-15	MF104591	KX497052
HR920-14	MF104592	KX497049.1
HR1103-15	MF104593	KX497052.1
HR809-16	MF104594	MF104561
HR175-16	MF104595	MF104586
HR1659-13	MF104596	KT371672.1
HR2152-12	MF104597	KT371668.1
HR1252-16	MF104598	MF104564
HR1806-12	MF104599	KT371658.1
HR898-16	MF104600	MF104576
HR397-15	MF104601	KX497051.1
HR1211-15	MF104602	KX497061.1
HR18673-11	MF104603	KT371631.1
HR89-12	MF104604	KT371644.1
HR124-12	MF104605	KT371646.1
HR547-15	MF104606	KX497053.1
HR1311-16	MF104607	MF104578
HR9722-11	MF104608	KT371612.1
HR689-14	MF104609	KX497048.1
HR475-13	MF104610	KT371671.1
HR1105-15	MF104611	KX497058.1
HR347-12	MF104612	KT371650.1
HR10432-11	MF104613	KT371614.1
HR1763-15	MF104614	KX497064.1
HR337-14	MF104615	KT371677.1
HR93-12	MF104616	KT371645.1
HR19598-11	MF104617	KT371639.1
HR1128-15	MF104618	KX497052

HR361-16	MF104619	MF104572
HR1935-15	MF104620	KX497062.1
HR899-15	MF104621	MF166864
HR505-16	MF104622	MF104573
HR1127-15	MF104623	KX497056.1
HR903-16	MF104624	MF104585

HRSV	M gene	G gene
HR278-13	MF104625	KF057866
HR2672-07	MF104626	MF166865
HR771-15	MF104627	KX497086
HR197-15	MF104628	KX497092.1
HR94-14	MF104629	KT371571
HR131-15	MF104630	KX497088.1
HR2095-12	MF104631	KT371681
HR6010-07	MF104632	JQ844866.1
HR18945-08	MF104633	MF166866
HR19501-08	MF104634	JQ844863.1
HR814-14	MF104635	KX497089.1
HR196-14	MF104636	KT371694.1
HR544-14	MF104637	KX497091.1
HR6855-08	MF104638	MF166867
HR545-13	MF104639	KJ173833.1
HR1973-13	MF104640	KT371693.1
HR2028-12	MF104641	KT371548.1
HR450-14	MF104642	KT371609.1
HR1904-12	MF104643	KT371545.1
HR3436-12	MF104644	KT371684.1
HR3242-12	MF104645	KU375585.1
HR2117-12	MF104646	KT371682.1
HR266-14	MF104647	KT371703.1
HR248-13	MF104648	KT371575.1
HR307-14	MF104649	MF166870
HR8934-11	MF104650	KT371540.1
HR226-14	MF104651	KT371699.1
HR3330-12	MF104652	KT371683.1
HR1890-15	MF104653	KX497093.1
HR887-14	MF104654	KX497130.1
HR6282-07	MF104655	JQ844868.1
HR331-15	MF104656	KX497109.1
HR1881-12	MF104657	KT371578.1
HR586-13	MF104658	KT371591.1
HR14603-06	MF104659	MF166868
HR560-14	MF104660	KX497095.1
HR144-13	MF104661	KJ173834.1
HR6808-11	MF104662	KT371583.1
HR189-14	MF104663	KT371592.1
HR7226-11	MF104664	KT371582.1
HR949-14	MF104665	KX497122.1
HR879-07	MF104666	MF166869
HR3386-12	MF104667	KT371587.1
HR74-14	MF104668	KT371599.1

HR137-14	MF104669	KT371600.1
HR2153-12	MF104670	KT371586.1
HR492-14	MF104671	KT371595.1