

Supplementary Table S4. Antigenic analyses of H6 influenza viruses using cross-HI test

Lineage	Sub lineage	Virus	HI titers of the antiserum							North American
			Eurasian							
			Early	W312	Group II			Group III		
			HK/960 /1980	HK/W3 12/1997	VN/OIE -4429 /2010	VN/HU1 -637 /2014	VN/HU8 -1088 /2017	Hok/262/ 2004	Aus/1 /1972	Mass/3740 /1965
Eurasia	Early	A/duck/Hong Kong/960/1980 (H6N2)	<u>5,120</u>	160	160	320	1,280	2,560	640	160
	W312	A/teal/Hong Kong/W312/1997 (H6N1)	2,560	<u>1,280</u>	40	320	640	320	160	160
	Group II	A/duck/Vietnam/OIE-4429/2010 (H6N2)	2,560	80	<u>5,120</u>	1,280	2,560	160	80	160
		A/duck/Vietnam/HU1-1245/2014 (H6N2)	640	80	640	20,480	20,480	320	80	80
		A/duck/Vietnam/HU1-637/2014 (H6N6)	640	80	320	<u>20,480</u>	10,240	160	40	20
		A/duck/Vietnam/HU3-629/2015 (H6N6)	160	20	160	2,560	5,120	160	20	20
		A/duck/Vietnam/HU6-1721/2016 (H6N6)	320	40	160	10,240	10,240	80	40	<20
		A/duck/Vietnam/HU7-745/2017 (H6N6)	80	20	160	1,280	1,280	40	<20	<20
		A/duck/Vietnam/HU8-1088/2017 (H6N6)	640	20	80	5,120	<u>10,240</u>	80	20	<20
		A/duck/Vietnam/HU9-455/2018 (H6N6)	640	20	80	5,120	10,240	80	20	<20
		A/duck/Vietnam/HU10-1879/2018 (H6N6)	160	20	160	5,120	10,240	80	<20	<20
	Group III	A/duck/Hokkaido/262/2004 (H6N1)	5,120	160	160	160	2,560	<u>2,560</u>	1,280	160
		A/duck/Vietnam/HU4-906/2015 (H6N6)	2,560	160	5,120	640	2,560	320	80	80
	-	A/shearwater/Australia/1/1972 (H6N5)	2,560	320	160	160	640	1,280	<u>1,280</u>	320
North American		A/turkey/Massachusetts/3740/1965 (H6N2)	2,560	320	160	160	2,560	640	1,280	<u>640</u>

Viruses isolated in this study are highlighted in bold.

Homologous titers are underlined.

Dk duck, Ck chicken, Ty Turkey, Tl Teal, Sh Shearwater, Hok Hokkaido, HK Hong Kong, Aus Australia, Mass Massachusetts.