Supp. Table S3. Detailed nucleotide pairwise identity of ORF sequences of PB1 gene segment of full-length H14 viruses from Guatemala (n=40), North America (n=12), and Eurasia (n=4) during 1982-2019.

# Virus	Strain	Refrence ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
1	A/duck/ winged_test/Guatemala/CPSI/6/605_15-A2001	KJ466476	99.6																																																							
2	A/duck/ winged_test/Guatemala/CPSI/6/605_310501	KY664395	99.6																																																							
3	A/duck/ winged_test/Guatemala/CPSI/6/606_630501	KJ466584	99.5	99.4																																																					
4	A/duck/ winged_test/Guatemala/CPSI/6/606_630502	KY664396	99.6	98.8	99.7																																																				
5	A/duck/ winged_test/Guatemala/CPSI/6/606_640502	KJ466864	99.6	98.5	99.7	99.8																																																			
6	A/duck/ winged_test/Guatemala/CPSI/6/606_110912	KX866967	99.6	98.9	99.7	99.9	100																																																		
7	A/duck/ winged_test/Guatemala/CPSI/6/606_490502	KY664395	99.5	98.9	99.6	99.8	99.9	99.9																																																	
8	A/duck/ winged_test/Guatemala/CPSI/6/606_370502	KY673169	99.6	99	99.7	99.8	99.9	99.8	99.8																																																
9	A/duck/ winged_test/Guatemala/CPSI/6/606_740102	KJ466484	99.6	99.1	99.7	99.9	100	99.9	99.9	99.9																																															
10	A/duck/ winged_test/Guatemala/CPSI/6/610_842502	KY664376	99.6	99.1	99	99.8	99.9	99.8	99.8	99.8	99.8																																														
11	A/duck/ winged_test/Guatemala/CPSI/6/610_842502	KY664389	99.6	99.7	99.7	99.8	99.9	99.8	99.8	99.8	99.8	99.9																																													
12	A/duck/ winged_test/Guatemala/CPSI/6/611_390502	KY664376	99.6	99.2	99.7	99.8	99.9	99.8	99.8	99.8	99.8	99.9	99.9																																												
13	A/duck/ winged_test/Guatemala/CPSI/6/611_740102	KY673165	99.6	99.2	99.7	99.7	99.9	99.8	99.8	99.8	99.8	99.9	99.9	100																																											
14	A/duck/ winged_test/Guatemala/CPSI/6/613_740102	KY664370	99.6	99.8	99.8	99.8	99.8	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100																																										
15	A/duck/ winged_test/Guatemala/CPSI/6/614_740102	KY664370	99.6	99.8	99.8	99.8	99.8	99.7	99.7	99.8	99.8	99.8	99.8	99.9	100	100																																										
16	A/duck/ winged_test/Guatemala/CPSI/6/614_130701	MK107704	99.7	99.1	99	99.9	99.9	99.9	99.9	99.9	99.9	99.7	99.7	99.8	99.8	99.8	99.9																																										
17	A/duck/ winged_test/Guatemala/CPSI/6/617_190913	MK107864	99.5	99	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.8	99.8	99.9	99.9	99.9	99.9	99.9																																										
18	A/duck/ winged_test/Guatemala/CPSI/6/617_340913	MK107860	99.3	99.1	99	99.8	99.8	99.9	99.9	99.9	99.9	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.9																																										
19	A/duck/ winged_test/Guatemala/CPSI/6/617_360913	MK107700	99	99.1	99	99.9	99.9	99.9	99.9	99.9	99.9	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.9	99.9																																										
20	A/duck/ winged_test/Guatemala/CPSI/6/617_380913	MK106954	99	99.1	99	99.9	99.9	99.9	99.9	99.9	99.9	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.9	99.9	100																																									
21	A/duck/ winged_test/Guatemala/CPSI/6/617_990913	MK107792	99	99.1	99	99.9	99.9	99.9	99.9	99.9	99.9	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.9	99.9	100	100																																								
22	A/duck/ winged_test/Guatemala/CPSI/6/617_1020913	MK107724	99.5	99.4	99.5	99.4	99.5	99.5	99.5	99.5	99.5	99.4	99.4	99.5	99.5	99.5	99.6	99.6	99.5	99.5	99.5	99.5																																									
23	A/duck/ winged_test/Guatemala/CPSI/6/617_1490303	MK107795	99	99.1	99	99.9	99.9	99.9	99.9	99.9	99.9	99.6	99.6	99.7	99.7	99.7	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9																																									
24	A/duck/ winged_test/Guatemala/CPSI/6/623_140914	CP114356	99.5	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.4	99.4	99.5	99.5	99.5	99.6	99.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5																																									
25	A/duck/ winged_test/Guatemala/CPSI/6/623_150914	CP114374	99.5	99.5	99.7	99.7	99.8	99.7	99.7	99.8	99.8	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8																																									
26	A/duck/ winged_test/Guatemala/CPSI/6/623_160914	CP114382	99.5	99.5	99.7	99.7	99.8	99.7	99.7	99.8	99.8	99.7	99.7	99.8	99.8	99.8	99.9	99.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100																																									
27	A/duck/ winged_test/Guatemala/CPSI/6/623_170914	CP114390	99.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.4	99.4	99.5	99.5	99.5	99.6	99.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100	100																																									
28	A/duck/ winged_test/Guatemala/CPSI/6/623_180914	CP114398	99.5	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.4	99.4	99.5	99.5	99.5	99.6	99.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	100	100	100																																								
29	A/duck/ winged_test/Guatemala/CPSI/6/623_190914	CP114406	99.5	99.7	99.5	99	99.1	99.1	99	99.2	99.1	99.2	99.1	97.9	99	99	99	99.6	99.2	99.6	99.6	99.6