## **Supplementary Table 3**

	H3N2		pH1N1	
	dN/dS	HyPhy SCLAC	dN/dS	HyPhy SCLAC
PB2	0.223	0.283	0.260	0.480
PB1	0.096	0.204	0.119	0.220
PA	0.142	0.212	0,277	0.455
HA1	0.298	0.522	0,344	0.506
HA2	0.148	0.206	0.127	0.231
NP	0,089	0.127	0,162	0.269
NA	0,778	0.688	0,520	0.950
M1	0,100	0.208	0,232	0.350
M2	0.589	1.812	0,472	1.242
NS1	0.429	0.589	0,488	0.977
NS2	0.327	0.774	0,420	0.611

Table S3: Comparison of mean dN/dS.

As a sanity check, we compared our results with the mean dN/dS value from the Suzuki-Gojobori counting approach implemented in HyPhy SLAC for all proteins.