

**Table S1.** Additional H5N1 HPAI virus sequences from the United Kingdom used in this study.

Sequences	Collection Dates	GISAID EpiFlu Accession Number
A/gannet/Scotland/084624/2022	2022-06-07	EPI_ISL_13969425
A/chicken/England/115126/2022	2022-09-05	EPI_ISL_15038820
A/fulmar/Scotland/118673/2022	2022-09-12	EPI_ISL_15586131
A/chicken/Scotland/130966/2022	2022-10-12	EPI_ISL_15585888