

Table S11. New amino acid variants found on the internal gene sequences of SKH13N6 compared to H13N6 reference virus (MDH13N6).

Genes	H13N6 Reference				Pairwise Identity (%) Similarity (%)	
	Position	A/gull/Maryland/ 704/1977	SKH13N6			
Accession		AGB51313.1	WHT33230			
M1	63	V	I	99.2	100	
	231	N	D			
Accession		AGB51314.1	WHT33231			
M2	13	N	S	91.8	94.8	
	18	R	K			
	47	L	F			
	50	F	C			
	55	F	I			
	58	G	E			
	65	M	T			
	82	S	N			
Accession		AGB51316.1	WHT33229			
NP	18	D	E	97.2	99	
	23	N	T			
	77	K	R			
	85	T	A			
	101	D	E			
	129	A	S			
	375	N	S			
	396	T	N			
	406	V	I			
	433	T	A			
	450	NS	SA			
	482	SN	NK			
Accession		AGB51317.1	WHT33232			
NS1	26	E	D	87.8	95.2	
	36	I	L			
	48	I	S			
	60	A	S			
	63	L	Q			
	70	D	G			
	80	N	T			
	90	V	I			
	95	P	T			
	118	R	K			
	124	L	I			
	127	N	D			
	129	V	T			
	137	A	I			
	139	D	N			
	145	I	V			
	152	S	N			
	180	I	V			
	194	V	I			
	197	T	N			
	205	S	I			
	215	A	T			
	217	K	E			
	219	ER	KQ			
	222	M	L			
	224	G	R			
	226	V	I			
Accession		AGB51318.1	WHT33233			
NEP	14	V	A	94.2	96.7	
	40	L	I			
	48	A	S			
	57	L	S			
	63	GK	RN			
	76	I	M			
Accession		AGB51319.1	WHT33234			
PA	101	E	D	98.5	99.6	
	211	M	V			
	230	R	T			
	272	E	D			
	328	R	K			
	342	Q	L			
	348	I	L			
	350	N	S			
	391	K	R			
	400	Q	S			
	407	V	I			
Accession		AGB51320.1	WHT33236			
PB1	54	K	T	97.8	99.2	
	57	T	I			
	113	V	I			
	171	ME	LD			
	178	E	G			
	180	E	D			
	210	Q	H			
	213	NRR	SKK			
	328	N	K			
	375	N	S			
	388	K	E			
	390	EK	DN			
	667	I	V			
Accession		AGB51319.1	WHT33238			
PB2	6	E	D	96.7	99.3	
	60	D	E			
	106	TS	AN			
	147	I	V			
	180	D	E			
	185	I	V			
	292	I	V			
	338	I	V			
	374	L	I			
	456	N	S			
	470	NA	ST			
	483	M	T			
	511	V	I			
	559	MI	TV			
	567	N	D			
	629	SR	NK			
	636	L	M			
	667	V	I			
	674	S	A			
	686	V	I			
	743	I	R			