

Table S4: Evolutionary models used in BEAST analyses

Sequence	Genotype	Dataset	#. Sequences	Length (nt)	Substitution model	Clock model	Tree prior
VP1, partial	GII.2	All	151	1337	TN93+G+I	Strict	Bayesian Skyline
		P2 cluster	47	1337	TN93+G	Strict	Bayesian Skyline
		P2-P16 mix cluster	36	1337	TN93+G+I	Strict	Bayesian Skyline
		P16 cluster	38	1337	TN93+G+I	Strict	Bayesian Skyline
VP1, complete	GII.2	All	134	1629	TN93+G+I	Strict	Bayesian Skyline
		P2 cluster	47	1629	TN93+G	Strict	Bayesian Skyline
		P2-P16 mix cluster	23	1629	TN93+G	Strict	Exponential
		P16 cluster	36	1629	TN93+G	Strict	Bayesian Skyline
RdRp, partial	GII.P2	All	72	720	K2P+G	Strict	Bayesian Skyline
	GII.P16	All	131	720	K2P+G	Strict	Bayesian Skyline
		Without reemerging GII.P16	99	720	K2P+G	Strict	Exponential