

Electronic Supplementary Material

Genome Characteristics and Evolution of Pseudorabies Virus Strains in Eastern China from 2017 to 2019

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Table S1. Thermocycler parameters and primers

Gene	Primer (5'-3')	Annealing temperature	Extension time
PRV-D-F	GAAGGGGTTGGACAGGAAGGAC	59 °C	30 s
PRV-D-R	ACCAGCCGCTCAAGTTCTACGA		
gC-F	CCCGAGCACGCGCCACCTCTC	65 °C	2min 30 s
gC-R	AGCGCGCGCCGACATCTCGT		
gB-F	CCCGTCATCGACCTCACCGGC	63 °C	3 min
gB-R	GTGCTGGCGGTTGCAGTCT		
gE-F	ATCGTCGTCTCCTGATCT	54.5 °C	2 min 30 s
gE-R	GTTGTCGCTCTCGCTGTAG		
gD-F	CCGGGTGTCCATCTTCAAT	57 °C	1 min 45 s
gD-R	CAGCGTCCCGTCTATCGTCA		

Table S2. Detailed information of the sequence of reference PRV

Table S3 Reference sequences of *gC* gene collected from NCBI on this study

Table S4. Reference sequences of *gD* gene collected from NCBI on this study

Table S5. Reference sequences of *gE* gene collected from NCBI on this study

Table S6. Selection analysis.

Gene	AA	FEL		SLAC		FUBAR		MEME	
		dN-dS	P-value	dN-dS	P-value	dN-dS	Post.Pro	w+	P-value
<i>gB</i>	43	0	1	14.6	0.228	8.12	0.927	8.41	0.06
	834	15.252	0.19	20.5	0.211	15.244	0.944	>100	0.06
	908	0	1	17.6	0.212	11.342	0.946	>100	0
<i>gE</i>	348	10.247	0.025	8.29	0.0585	9.648	0.983	>100	0.08
<i>gC</i>	75	7.337	0.049	5.73	0.225	3.742	0.918	>100	0.15
	194	5.747	0.157	12.9	0.0897	11.334	0.966	>100	0.12
<i>gD</i>	none								