

Table S1. Primers for (quantitative) PCR assay recommended by the National Standards of China

Viruses	Primers	Sequences (5'-3')	Product size(bp)	No. of reference standard
CSFV	CSFV-qF	TACAGGACAGTCGTCAGTAGTTCGA-3'	/a	GB/T 27540-2011
	CSFV-qR	CCGCTAGGGTTAAGGTGTGTCT		
	CSFV-qP	FAM- CCCACCTCGAGATGCTATGTGGACGA-TAMRA		
ASFV	VP72-F1	GCTTTCAGGATAGAGATACAGCTCT	/a	GB/T 18648-2020
	VP72-R1	CCGTAGTGGAAGGGTATGTAAGAG		
	VP72-T1	FAM- CCGTAACTGCTCATGGTATCAATCTTATCG-BHQ1		
PRRSV	PRRSV-P ₁	GGTTCGGAAGAACTGTCCG	HP ^b : 400 LP ^c : 264	GB/T 27517-2011
	PRRSV-P ₂	AGCAGGTGGAAGAAGCGAATC		
	PRRSV-P ₃	GAGCTGAGTATTTTGGGCGTG		
PPV	PPV-F	TGGTCTCCTTCTGTGGTAGG	445	SN/T 1874-2007
	PPV-R	CAGAATCAGCAACCTCAC		
PRV	PRV-gD-P ₁	CAGGAGGACGAGCTGGGGCT	217	GB/T 18641-2018
	PRV-gD-P ₂	GTCCACGCCCCGCTTGAAGCT		
PCV	PCV-P ₁	CCGCGGGCTGGCTGAACTT	PCV-1: 652 PCV-2: 1154	GB/T 21674-2008
	PCV-P ₂	CTCGGCTATGCGCTCCAAAATG		
	PCV-P ₃	ACCCCCGCCACCGCTACC		

^a /: real time quantitative PCR; ^b HP: high pathogenic; ^c LP: low pathogenic