

Table S1. PCR primers used for the construction of PRRSV JSTZ1712-12 infectious clones.

Primer Names	Primer Sequences *
JSTZ1712-12- <i>PacI</i> -F1	AGCTCGTTAATTAATACATGACGTATAGGTGTTGGCT
JSTZ1712-12- <i>Afl</i> II-R1	CATAGGTGCTTAAAGTTCATTACCACCTGTAACGGAT
JSTZ1712-12- <i>Afl</i> II-F2	ATCCGTTACAGGTGGTAATGAAC TTAAG CACCTATG
JSTZ1712-12- <i>Asc</i> I-R2	CCTTTCT GCGCGCC CGAAAC
JSTZ1712-12- <i>Asc</i> I-F3	GTTTCG GCGCGCC AGAAAGG
JSTZ1712-12-1R3	<i>AGCGAGGAGGCTGGGACCAT</i> GCCGGCCTTTTTTTT
	TTTTTTTTTTTAATTACGGCCGCATGGTTCT
JSTZ1712-12- <i>Not</i> I-2R3	ACAG GCGGCCG CGTCCCATTCGCCATTACCGAGGGG
	ACGGTCCCCCTCGGAATGTTGCCAGCCGGCGCC AGC
	<i>GAGGAGGCTGGGACCAT</i> [#]
dsRed- <i>Kpn</i> I-F	ATTGAAGGTACCGCCACCATGGCCTCCTCCGAGGA
dsRed- <i>Bcl</i> II-R	TGCCGCGGAATGATCACTACAGGAACAGGTGGTGGC

* The restriction enzyme sites used for cloning purposes were underlined. [#] The hepatitis D virus ribozyme sequence was shown in italic and the overlapped region was highlighted in bold.

Table S2. Primers and probes of qPCR used in this study.

Primers/Probes	Sequences (5'-3')	Genes
		ORF7
PRRSV ORF7-F	ATAACAACGGCAAGCAGCAG	ORF6
PRRSV ORF7-R	CTCTGGACTGGTTTGTG	
PRRSV2-UF	TTGTGCTTGCTAGGCCGC	
PRRSV2-UR	ACGACAAATGCGTGTTATCA	
PRRSV-UProbe	FAM-TCTGGCCCCTGCCCA-MGB	

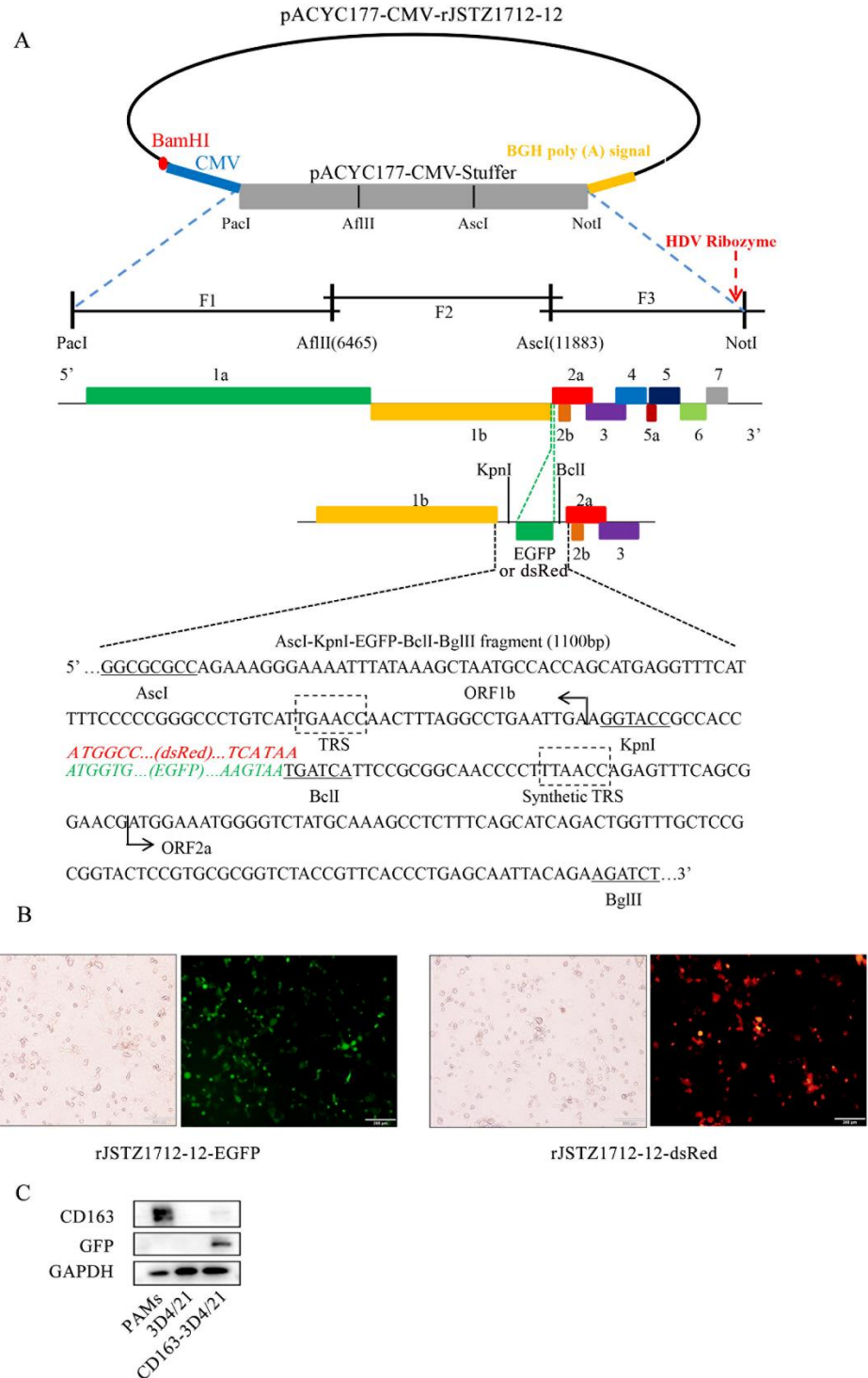


Figure S1. (A) Strategies to construct the full-length cDNA clones of HP-PRRS JSTZ1712-12 strains carrying EGFP or dsRed. The strategy was as we described previously (*Transbound Emerg Dis.* 2020; 67:1820–1827. *Vaccines* (Basel). 2021; 9(10):1176. *Viruses.* 2021; 13(9):1829). The pACYC177-CMV-Stuffer fragment including the unique restriction enzymes was shown in the top part. The three overlapped fragments of the full JSTZ1712-12 genome were produced by PCR amplification and shown in the middle part. The *AscI*-*KpnI*-EGFP (or dsRed)-*BclI*-*BglII* fragment and the strategy to insert EGFP or dsRed gene into the rJSTZ1712-12 clone were shown in the bottom part. (B) Characterization of the rescued rJSTZ1712-12-EGFP and rJSTZ1712-12-dsRed PRRSV. Marc-145 cells were infected with PRRSV-EGFP/dsRed at an MOI of 0.1, respectively. CPE were observed and the GFP/dsRed signal was visible under fluorescence microscope at 48 hpi. (C) CD163 expressions in different porcine macrophages. Primary porcine alveolar macrophages (PAMs), 3D4/21 and CD163-3D4/21 cells were detected for CD163 expressions by Western blotting using CD163 rabbit pAb. The ectopic CD163 expression was also monitored by GFP mouse mAb.