

Electronic Supplementary Material

Identification of Nonstructural Protein 8 as the N-Terminus of the RNA-Dependent RNA Polymerase of Porcine Reproductive and Respiratory Syndrome Virus

Yuanyuan Liu¹, Yunhao Hu¹, Yue Chai¹, Liping Liu¹, Jiangwei Song¹, Shaochuan Zhou¹, Jia Su¹, Lei Zhou¹, Xinna Ge¹, Xin Guo¹, Jun Han¹, Hanchun Yang¹

1. Key Laboratory of Animal Epidemiology of the Ministry of Agriculture, College of Veterinary Medicine and State Key Laboratory of Agrobiotechnology, China Agricultural University, Beijing 100193, China

Supporting information to DOI: 10.1007/s12250-018-0054-x

Supplementary Table S1. Primers used in this study

| Prime rs* | Sequence (5'-3') [†] | Use |
|--------------|--|--|
| 1F | TTCCAGGGGCCCCTGGGATCCGCCGCAAGCTTTCCGTGGAG | pGST-nsp8 construction |
| 1R | CTCGAGTCGACCCGGGAATTCCTAGCAGTTTAAACACTGCTCC | |
| 2F | CCCTCGAGCGCCACCATGGCCGCCAAGCTTTCCGTGGAGCAAGCC | nsp8 gene amplification for pNsp8-9 _{ORF1b} construction |
| 2R | AAGCCGCTGGCGGCTAGCAGGTT CAG ACTGCTCCTTAG | |
| 3F | CTAAGGAGCAGTGTCT GAAC CTGCTAGCCGCCAGCGGCTT | nsp9 gene amplification for pNsp8-9 _{ORF1b} construction |
| 3R | GGGGTACCTTACTCATGATTGGACCTGAGTTTTTCCCAC | |
| 4F | CTACCGGACTCAGATCTCGAGCGCCACCATGCTGCTAGCCGCCAGCGGCT TGACCCGC | pNsp9 _{ORF1b} construction |
| 4R | ATCCGGTGGATCCCGGGCCCGCGGTACCTTACTCATGATTGGACCTGAGTT TTTCCCAC | |
| 5F | AGTCCGGACTCAGATCTCGAGCTGCCGCCAAGCTTTCCGTGGAGCAAGC C | pEGFP-nsp8-9 _{ORF1b} - HA construction |
| 5R | TGGATCCCGGGCCCGCGGTACCTTAAGCGTAATCTGGAACATCGTATGGGT ACTCATGATTGGACCTGAGTTTTTCCCACAT | |

* F denotes forward PCR primer; R denotes reverse PCR primer.

[†] Restriction sites are underlined; Mutated nucleotide residues are italics and bold.

Supplementary Table S2. Molecular weight (MW) information for PRRSV nsps involved in this study

| Protein | Protein length(aa) | Predicated MW (kDa) |
|-----------------------|--------------------|---------------------|
| nsp5 | 170 | 19.0 |
| nsp6 | 16 | 1.7 |
| nsp7 | 259 | 28.7 |
| nsp7 α | 149 | 15.9 |
| nsp7 β | 110 | 12.8 |
| nsp8 | 45 | 4.8 |
| nsp9 _{ORF1b} | 640 | 70.1 |
| nsp8-9 | 685 | 75.1 |
| nps10 | 441 | 49.0 |
| nsp5-8 | 490 | 54.3 |
| nsp6-8 | 320 | 35.4 |
| nsp7-8 | 304 | 33.7 |