

VIROLOGICA SINICA

## Electronic Supplementary Material

### **Nsp2 and GP5-M of Porcine Reproductive and Respiratory Syndrome Virus Contribute to Targets for Neutralizing Antibodies**

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Table S1. Primers used for construction of the chimeric viruses in this study

Primer <sup>a</sup>	Position <sup>b</sup>	Sequence (5'-3') <sup>c</sup>	Usage
RvHJn2			
HJn2-1F	1-27	GCGATTTAAATATGACGTATAGGTGTTGGCTCTATGCC ( <i>Swa</i> I)	Fragment amplification and fusion
HJn2-1R	1314-1378	TAGTCGCACCAGAGCGTGGTTTCCTTGCTCTCTTTCCGGCACCGTACCACTTATGAC TGCCAAAC	Fragment amplification
HJn2-2F	1299-1363	TGAGAAGATTTTCCGGTTTGGCAGTCATAAGTGGTACGGTGCCGGAAAGAGAGCA AGGAAACCAC	Fragment amplification
HJn2-2R	4902-4966	TCGAGCAGGCAACATGCAAGGCAGCAACGAGGTGTGAACCTCCCCCTGAAGGCTT CGAAATTTGC	Fragment amplification
HJn2-3F	4887-4951	TGGACTAAAGATCAGGCAAATTTCAAGCCTTCAGGGGGAGGTTACACCTCGTTG CTGCCTTGC	Fragment amplification
HJn2-3R	6033-6058	AGGGACGCGTGACAATGCCTCCTCCT ( <i>Mlu</i> I)	Fragment amplification and fusion
RvJHn2			
JHn2-1F	1-27	Exactly the same as HJn2-1F	Fragment amplification and fusion
JHn2-1R	1314-1378	TAGTCGCACCAGAGCGTGCTTTTCCTTGCTCTCTTTCCAGCACCGTACCACTTATGAC TGCCAAAC	Fragment amplification
JHn2-2F	1299-1363	TGAGAAGATTTTCCGGTTTGGCAGTCATAAGTGGTACGGTGCTGGAAAGAGAGCA AGGAAAGCAC	Fragment amplification
JHn2-2R	4812-4876	TCGAGCAGGCAACATGCAAGGCAGCAATGAGGTGTGGGCCTCCTCCTGAAGGCTT GGAAATTTGC	Fragment amplification
JHn2-3F	4797-4861	TGGACTAAAGATCAGGCAAATTTCAAGCCTTCAGGGGGAGGTTACACCTCGTTG CTGCCTTGC	Fragment amplification
JHn2-3R	7592-7617	GGCGGCTAGCAGGTTTAAACTGCT ( <i>Nhe</i> I)	Fragment amplification and fusion
RvJHn2SP			
JHn2SP-F	11880-11935	TCGGGCGCGCCAGAAAGGGAAAATTTATAAAGCTAATGCCACCAGCATGAGGTTT C ( <i>Asc</i> I)	Fragment amplification and fusion

JHn2SP-R	15297-15372	GGCCTTAATTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTACGGC CGCATGGTTCTCGCCA ( <i>Pac I</i> )	Fragment amplification
RvHJn2SP			
HJn2SP-F	11966-12021	TCGGGCGCGCCAGAAAGGGAAAATTTATAAAGCTACTGCCACCAGCATGAAGTTT C ( <i>Asc I</i> )	Fragment amplification
HJn2SP-R	15383-15457	GGCCTTAATTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTGCGGC CGCATGGTTCTCGCCA ( <i>Pac I</i> )	Fragment amplification and fusion
RvJHn2GP234			
JHn2GP234-1F	11868-11931	CAATGATGCGTTTCGGGCGCGCCAGAAAGGGAAAATTTATAAAGCTAATGCCACC AGCATGAGG ( <i>Asc I</i> )	Fragment amplification and fusion
JHn2GP234-1R	13661-13728	ACAGCACGCGGTCAAGCACTTCCCCAACATACTTAAACATTCAAATTGCCAGTAGG ATGGCAAAAAGA	Fragment amplification
JHn2GP234-2F	13649-13713	CGTTTTAGCCTGTCTTTTTGCCATCCTACTGGCAATTTGAATGTTAAGTATGTTGG GGAAGTGC	Fragment amplification
JHn2GP234-2R	15312-15392	GAGGAGGCTGGGACCATGCCGGCCTTAATTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTAATTACGGCC ( <i>Pac I</i> )	Fragment amplification and fusion
RvHJn2GP234			
HJn2GP234-1F	11954-12017	CAATGATGCGTTTCGGGCGCGCCAGAAAGGGAAAATTTATAAAGCTACTGCCACC AGCATGAAG ( <i>Asc I</i> )	Fragment amplification and fusion
HJn2GP234-1R	13747-13814	ACAGCCC GCGGTCAAGCATTCCCCAACATACTTGAACATTCAAATTGCCAGTAGG ATGGCAAAAAGA	Fragment amplification
HJn2GP234-2F	13735-13799	CGTTTTAGCCTGTCTTTTTGCCATCCTACTGGCAATTTGAATGTTCAAGTATGTTGG GAAATGC	Fragment amplification
HJn2GP234-2R	15398-15477	GAGGAGGCTGGGACCATGCCGGCCTTAATTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTAATTGCGGCC ( <i>Pac I</i> )	Fragment amplification and fusion
RvJHn2GP5M			
JHn2GP5M-1F	11868-11914	CAATGATGCGTTTCGGGCGCGCCAGAAAGGGAAAATTTATAAAGCTA ( <i>Asc I</i> )	Fragment amplification and fusion
JHn2GP5M-1R	13672-13738	ATCGCGAGCAACAGCCCGCGGTCAAGCATTCCCCAACATACTTAAACATTCAAAT TGCCAGTAGGA	Fragment amplification

JHn2GP5M-2F	13658-13723	CTGTCTTTTTGCCATCCTACTGGCAATTTGAATGTTTAAAGTATGTTGGGGAAATGCT TGACCGCGG	Fragment amplification
JHn2GP5M-2R	14784-14850	CTGGCCATTCCCCTTCTTTTTCTTTTGCTGCTTGCCGTTGTTATTTGGCATATTTAAC AAGGTTTAC	Fragment amplification
JHn2GP5M-3F	14771-14836	TAAGCAGGGAGTGGTAAACCTTGTTAAATATGCCAAATAACAACGGCAAGCAGCA AAAGAAAAAGA	Fragment amplification
JHn2GP5M-3R	15312-15392	Exactly the same as JHn2GP234-2R	Fragment amplification and fusion
RvHJn2GP5M			
HJn2GP5M-1F	11954-12000	Exactly the same as JHn2GP5M-1F	Fragment amplification and fusion
HJn2GP5M-1R	13758-13824	ATCGCGAGCAACAGCACGCGGTCAAGCACTTCCCCAACATACTTGAACATTCAAAT TGCCAGTAGGA	Fragment amplification
HJn2GP5M-2F	13744-13809	CTGTCTTTTTGCCATCCTACTGGCAATTTGAATGTTCAAGTATGTTGGGGAAGTGCT TGACCGCGT	Fragment amplification
HJn2GP5M-2R	14870-14936	CTGGCCATTCCCCTTCTTTCTTTTGCTGCTTGCCGTCGTTATTTGGCATATTTAAC AAGGTTTAC	Fragment amplification
HJn2GP5M-3F	14857-14922	TAAGCAGGGAGTGGTAAACCTTGTTAAATATGCCAAATAACGACGGCAAGCAGCA AAAGAGAAAGA	Fragment amplification
HJn2GP5M-3R	15398-15477	Exactly the same as HJn2GP234-2R	Fragment amplification and fusion

<sup>a</sup> F denotes a forward PCR primer; R denotes reverse transcription or a reverse PCR primer.

<sup>b</sup> Numbers refer to nucleotide positions within the genome of JXwn06 (GenBank accession no: EF641008) or HB-1/3.9 (GenBank accession no: EU360130), as indicated.

<sup>c</sup> Restriction sites introduced by PCR are shown in boldface and specified in parentheses at the end of the sequence.