

## Electronic Supplementary Material

### The Prevalence, Genetic Characterization, and Evolutionary Analysis of Porcine Pegivirus in Guangdong, China

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**Table S1.** Primers used for the detection of PPgV and amplification of the complete polyprotein gene.

Primer name	Nucleotide sequence (5' to 3')	Product size (bp)	Annealing temperature (°C)	Purpose
PPgV-8016-F0	ACGGTTGGWCGTTTGAGGAG	1084	56°C	Detection
PPgV-9099-R0	ACAAGCGGAAAGTGACAKGAAT			
PPgV-8168-F1	CACCCYTTTATGCTTACTGCC	870	56°C	Detection
PPgV-9037-R1	CCCRCGAGCRAAAATCATAACC			
PPgV-504-F2	TACCATAAAGTAATYAACATGAGCAT	1651	53°C	Genome sequencing
PPgV-2154-R2	ACRAACATAAAGTCAATCAAGAACC			
PPgV-1861-F3	ACTTCCCCCGAACGGCACTT	1551	56°C	Genome sequencing
PPgV-3411-R3	CGGTAGTAGAARCAGTCTGTGGGC			
PPgV-2968-F4	CAAGTTGGARTGGTATGGGGTGTG	1688	56°C	Genome sequencing
PPgV-4655-R4	AATGACAGAAGATGAGRTGGCCGG			
PPgV-4281-F5	CTCCCTCTGTYTATGCTGGTCACG	1372	57°C	Genome sequencing
PPgV-5652-R5	ACAGCGACCTTGATGTCCTCMAG			
PPgV-5372-F6	TCGCATCACATTGCCGAAGAC	1511	54°C	Genome sequencing
PPgV-6882-R6	AAGGTAGCAGTAGTAGACGCYAAAAC			
PPgV-6362-F7	CAGGGTATTGAGGAGCARGTGC	1838	54°C	Genome sequencing
PPgV-8199-R7	ACTTCCTGTTTGGCAGTAAGCATA			
PPgV-8016-F8	ACGGTTGGWCGTTTGAGGAGG	1567	55°C	Genome sequencing
PPgV-9582-R8	CCATATCTGGAAGCGGCTTTAGG			

**Table S2.** List of PPgV sequences obtained in this study.

No.	Strain	GenBank accession no.	Collection date	Farm ID	Gene Type
1	GD2.2	MN365881	2016	Farm A	Partial <i>NS5B</i> gene
2	GD3.1	MN365882	2017	Farm D	Partial <i>NS5B</i> gene
3	GD34.2	MN365883	2018	Farm P	Partial <i>NS5B</i> gene
4	GD46.2	MN365884	2018	Farm Q	Partial <i>NS5B</i> gene
5	GD55.1	MN365885	2018	Farm R	Partial <i>NS5B</i> gene
6	GD70.3	MN365886	2018	Farm S	Partial <i>NS5B</i> gene
7	GD73.2	MN365887	2018	Farm T	Partial <i>NS5B</i> gene
8	GD1	MH345724	2017	Farm F	Complete polyprotein gene
9	GD2	MH345725	2017	Farm K	Complete polyprotein gene

**Table S3.** Nucleotide identity (%) of partial *NS3* gene sequences identified in this study with the published *NS3* reference sequences available in GenBank.

Strains	Nucleotide identity (%)		Strains	Nucleotide identity (%)	
	MH345724 GD1	MH345725 GD2		MH345724 GD1	MH345725 GD2
MH345724 GD1	-	97.5	MH979657 Germany	91.2	90.7
MH345725 GD2	97.5	-	MH979658 Germany	90.9	90.8
KU351669 Germany	91.5	90.8	MH979659 United Kingdom	91.9	91.6
KU351670 Germany	91.5	91.1	MH979660 United Kingdom	91.8	91.5
KU351671 Germany	91.4	90.9	MH979661 United Kingdom	97.1	97.5
KY798013 USA	96.5	96.7	MH979662 United Kingdom	96.8	97.0
MG595745 USA	97.5	98.8	MH979663 United Kingdom	97.1	97.1
MG595746 USA	97.4	97.4	MH979664 China	97.5	97.5
MG595747 USA	97.0	97.6	MH979665 China	97.7	97.7
MG874672 China	98.2	97.0	MH979666 China	97.7	97.9
MH979651 Germany	97.0	97.0	MH979667 China	97.4	98.9
MH979652 Germany	91.5	91.2	MH979668 China	97.2	97.2
MH979653 Germany	91.8	91.0	MH979669 Italy	97.0	97.2
MH979654 Germany	91.9	91.6	MH979670 Poland	92.8	92.0
MH979655 Germany	91.5	91.4	MH979671 Poland	91.7	91.2
MH979656 Germany	91.0	90.7	MH979672 Poland	92.6	92.2

**Table S4.** Nucleotide identity (%) of partial *NS5B* gene sequences identified in this study with the published *NS5B* reference sequences available in GenBank.

Nucleotide identity (%)									
Strains	GD1	GD2	GD2.2	GD3.1	GD34.2	GD46.2	GD55.1	GD70.3	GD73.2
GD1	-	94.5	97.4	94.2	97.8	96.5	94.2	93.9	94.6
GD2	94.5	-	94.3	94.6	94.1	93.7	94.9	94.8	94.0
GD2.2	97.4	94.3	-	93.9	96.9	96.0	94.1	93.7	94.2
GD3.1	94.2	94.6	93.9	-	94.0	94.0	94.7	93.9	98.4
GD34.2	97.8	94.1	96.9	94.0	-	96.4	94.5	94.6	93.9
GD46.2	96.5	93.7	96.0	94.0	96.4	-	93.6	93.3	94.3
GD55.1	94.2	94.9	94.1	94.7	94.5	93.6	-	98.0	94.3
GD70.3	93.9	94.8	93.7	93.9	94.6	93.3	98.0	-	93.7
GD73.2	94.6	94.0	94.2	98.4	93.9	94.3	94.3	93.7	-
KU351669 Germany	84.5	83.9	83.9	83.2	83.9	83.8	82.7	83.3	82.9
KU351670 Germany	84.6	84.2	84.2	83.0	84.2	84.4	82.8	83.4	82.8
KU351671 Germany	83.2	83.3	83.5	82.4	83.3	83.2	82.6	83.2	81.9
KY798013 USA	94.7	94.8	94.3	93.5	95.1	94.5	95.9	95.5	94.1
MG595745 USA	97.0	94.8	96.3	93.9	96.6	96.1	93.9	94.2	93.7
MG595746 USA	97.1	94.1	96.1	94.1	96.4	95.7	93.7	93.9	93.7
MG595747 USA	96.3	93.9	95.5	93.4	95.9	95.2	93.1	93.5	93.0
MG874672 China	96.6	93.4	98.0	93.1	96.1	95.2	93.3	93.4	93.7