

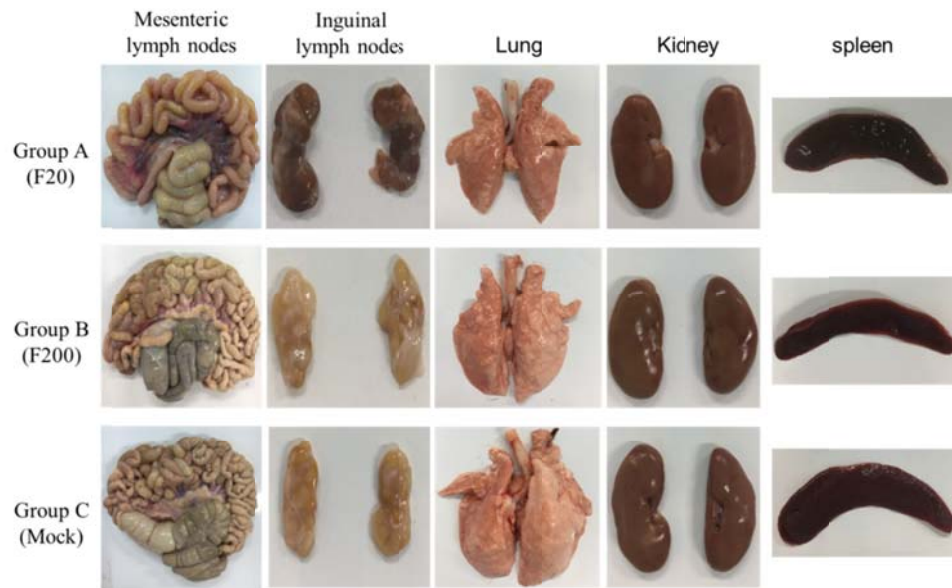
## Electronic Supplementary Material

### A Virulent PEDV Strain FJzz1 with Genomic Mutations and Deletions at the High Passage Level Was Attenuated in Piglets via Serial Passage *In Vitro*

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**Fig. S1** Pathological changes in suckling piglets inoculated with PEDV FJzz1 variants.

**Table S1.** Primers used in this study

Name	Sequence (5'-3')	Length (bp)
PED-1U	ACTTAAAAAGATTTTCTATCTACGGATA	511
PED-1L	CTAAGCTTGGTAGTGCCGATCACCA	
PED-2U	TGGCGTGGAATTCATTAGGT	2234
PED-2L	GTTTCATGGGCCGTTATG	
PED-3U	TGCTGGCACTGGTGTTAAGTA	2169
PED-3L	TCACCCTCGGAATCAAT	
PED-4U	AGGTGGTTGGGATGATGTCGT	2963
PED-4L	TAATCACAACAGCCGCTG	
PED-5U	AGCTTGGCGTCGAGGATG	2929
PED-5L	AATAAGAAACACACCGCAACA	
PED-6U	CTTTGGCATCCGTAATCC	2993
PED-6L	AATTCGCTCTTTGCTACATTC	
PED-7U	TGGGCTTATTGTGTTGACT	2224
PED-7L	CACTCACTAGCAAGGCAATTA	
PED-8U	CATAGCCGAACACGATTC	2337
PED-8L	TCATGCTTAGATAACGGGTAG	
PED-9U	CGTCGTTGAGTATTATGGTTA	2529
PED-9L	GAGTGTGGTGGTTGGGTAT	
PED-10U	TATAATGTGCGATAGGTCCC	2904
PED-10L	AGTGGCAACCAACGTCGTAAG	
PED-11U	AAGTTACCTGATGGCATTATG	2034
PED-11L	AATAGCCAAACCCATTGAC	
PED-12U	GCCATCTTTGCCATACCTCT	2504
PED-12L	CATGCCTAAACAAGACTAAGC	
PED-13U	GCCCAAACCCTCACTAAGT	2067
PED-13L	CACAACCGAATGCTATTGACA	
PED-14U	GGGCTAGCTTCCAGGTCAACT	1715
PED-14L	GCGCACCCACATCATCGTAG	
PED-15U	TGTCACCGGTTGTGTAATAGC	584
PED-15L	CCTTATAGCCCTCTACAAGC	
PED-16U	CTAGCGGACTCTTACGAGATTACATACA	634
PED-16L	GTGTATCCATATCAACACCGTCAGGTCT	
IFN- $\alpha$ -F	TTCTGCACTGGACTGGATC	126
IFN- $\alpha$ -R	TCTGTGGAAGTATTCCTCACAG	
IFN- $\lambda$ 3-F	ACTTGGCCCAGTTCAAGTCT	63
IFN- $\lambda$ 3-R	CATCCTTGGCCCTCTGA	
TNF- $\alpha$ -F	AACCTCAGATAAGCCCGTCG	129
TNF- $\alpha$ -R	ACCACCAGCTGGTTGTCTTT	
IL-1 $\beta$ -F	ACCTGGACCTTGTTCTCTG	83
IL-1 $\beta$ -R	CATCTGCCTGATGCTCTTGT	
IL-8-F	CCGTGTCAACATGACTTCCAA	75
IL-8-R	GCCTCACAGAGAGCTGCAGAA	

**Table S2.** 60 PEDV isolates with complete *S* gene sequence used in this study

Virus strain	Countries	Time	GenBank No.	Virus strain	Countries	Time	GenBank No.
CV777	Belgium	1988	AF353511	NJ01	Korea	2011	KC879278
CH/S	China	1986	JN547228	KNU-1303	Korea	2013	KJ451038
LZC	China	2006	EF185992	KNU-1311	Korea	2013	KJ451046
BJ-2011-1	China	2011	JN825712	K13JA12	Korea	2013	KJ539151
CHGD-01	China	2011	JN980698	KNU-1401	Korea	2014	KJ451047
ZJCZ4	China	2011	JX524137	KNU-1402	Korea	2014	KJ451048
GD-1	China	2011	JX647847	K14JB01	Korea	2014	KJ539154
CH/FJND-3/2011	China	2011	JN381492	83P-5	Japan	2010	AB548618
CH/FJZZ-9/2012	China	2012	KC140102	MK	Japan	2010	AB548624
AJ1102	China	2012	JX188454	KH	Japan	2010	AB548622
LC	China	2012	JX489155	NK	Japan	2010	AB548623
CH/GDGZ	China	2012	KF384500	NPL-PEDv/2013	USA	2013	KJ778615
GD-A	China	2012	JX112709	NPL- PEDv/2013/P10	USA	2013	KJ778616
AH2012	China	2012	KC210145	ISU13-22038-IA- homogenate	USA	2013	KF650373
CH/YNKM-8	China	2013	KF761675	ISU13-19338E-IN- homogenate	USA	2013	KF650370
CHYJ130330	China	2013	KJ020932	IA2	USA	2013	KF468754
KPEDV-9	Korea	1997	KF898124	13-019349	USA	2013	KF267450
DR13	Korea	1999	DQ862099	MN	USA	2013	KF468752
attenuated DR13	Korea	2002	JQ023162	IA1 USA	USA	2013	KF468753
AF500215	Korea	2002	AF500215	USA Colorado	USA	2013	KF272920
Chinju99	Korea	2002	AY167585	USA Indiana 17846	USA	2013	KF452323
KNU-0801	Korea	2008	GU180142	USA/IA/2013/1932 1	USA	2013	KM975738
KNU-0802	Korea	2008	GU180143	USA/Iowa107/2013	USA	2013	KJ645696
MF3809	Korea	2008	KF779469	USA/Minnesota52/ 2013	USA	2013	KJ645704
KNU-0901	Korea	2009	GU180144	OH851	USA	2014	KJ399978
KNU-0902	Korea	2009	GU180145	OH1414	USA	2014	KJ408801
KNU-0903	Korea	2009	GU180146	PC21A	USA	2014	KR078299
KNU-0904	Korea	2009	GU180147	AD01	Korea	2010	KC879280
KNU-0905	Korea	2009	GU180148	AS01	Korea	2011	KC879275
CNU-091222-01	Korea	2009	JN184634	FJzz1	China	2011	MK288006
SM98	Korea	2010	KF779469				