

Supplementary materials

# Novel Neutralizing Epitope of PEDV S1 Protein Identified by IgM Monoclonal Antibody

**Table S1.** Oligonucleotide primers used in this study for production of recombinant S1 subunit of PEDV spike protein.

Genes	Primer	Sequence
S1	PEDV_S1 F'	5'-GCGGATCCGATGAARTCYTTAAMYTACTTCTGG-3'
	PEDV_S1 R'	5'-GGGCTCGAGTGAACCGCCTCCACCRTGGTARAAGAAAC-CAGG-3'

**Table S2.** PEDV that caused recent outbreaks and their S1 sequences were used in this study for multiple alignments.

No.	Isolate name	Isolated year	Country	Genotype	References
1	JX-SCAU2020	2020	China	-	[44]
2	CN/Liaoning/25/2018	2019	China	-	[60]
3	POR-VC102	2019	Portugal	G1b	[61]
4	SF4017	2017	Philippines	G2	[62]
5	SP-VC3	2017	Spain	G1b	[61]
6	HNAY2016	2016	China	-	[63]

-, not available.

**Table S3.** Other alphacoronaviruses that their S1 sequences were used in this study for multiple alignments .

Virus name	Isolate name	Isolated year	Country	GenBank no.
Transmissible gastro-enteritis virus (TGEV)	Purdue P115	2006	United states of America	ABG89325.1
Feline coronavirus (FCoV)	WSU 79/1683	2011	United states of America	JN634064.1
Canine coronavirus (CCoV)	DOG/HCM47/2015	2015	Vietnam	LC190907.1