

Table S1. Thirty-eight PEDV reference strains used in this study

Strain name	Year	Place of isolation	Genbank no.	Accession
PEDV 1842/2016 ITA	2016	Italy/Teramo	KY111278	
AH-2012	2012	China/Anhui	KC210145	
AH-M	2011	China/Anhui	KJ158152	
Br1/87	1993	Great British	Z25483	
CH1	2011	China/Hubei	JQ239429	
CH9	2011	China/Fujian	JQ979287	
CH/AY/11	2011	China/Henan	JQ627653	
CH/FJND-1/2011	2011	China/Heilongjiang	JN543367	
CH/FJZZ-9/2012	2012	China/Fujian	KC140102	
CHGD-01	2011	China/Guangdong	JN980698	
CH/HNQX-3/14	2015	China/Henan	KR095279	
CH/HNZZ47/2016	2016	China/Henan	KX981440	
Chinju99	1999	South Korea	AY167585	
CH/JX-1/2013	2013	China/Jiangxi	KF760557	
CH/S	1986	China/Heilongjiang	JN547228	
CH/ZJCX-1/2012	2012	China/Zhejiang	KF840537	
CH/ZMDZY/11	2011	China/Henan	KC196276	
CV777(prototype)	1978	Belgium	AF353511	
CV777(vaccine)	1994	China/Heilongjiang	JN599150	
DR13(attenuated)	2003	South Korea	JQ023162	
DR13(virulent)	1999	South Korea	JQ023161	
DX(culture adapted)	2007	China/Gansu	EU031893	
GD-A	2012	China/Guangdong	JX112709	
GD-B	2012	China/Guangdong	JX088695	
HUA-PED45	2013	Viet Nam	KP455313	
IA1	2013	USA	KF468753	
IA2	2013	USA	KF468754	
JS2008	2008	China/Jiangsu	KC109141	
JSCZ1601-S	2016	China/Jiangsu	KY070587	
JS-HZ2012	2012	China/Jiangsu	KC210147	
LZC	2006	China/Gansu	EF185992	
PC22A-P140.BI	2016	USA	KX580958	
PEDV-LYG	2014	China/Jiangsu	KM609212	
SD-M	2012	China/Shandong	JX560761	
SHQP/YM/2013	2013	China/Shanghai	KJ196348	
SM98	1998	South Korea	GU937797	
XM2-4-S	2016	China/Fujian	KX812524	
ZJ13LY1201	2014	China/Zhejiang	KM213245	