

# A Plant-Produced Porcine Parvovirus 1-82 VP2 Subunit Vaccine Protects Pregnant Sows against Challenge with a Genetically Heterologous PPV1 Strain

**Supplementary Table S1.** Genetic diversity of VP2 amino acid (aa) sequences from different PPV1 strains. NADL-2, Kresse, Challenge, IDT, Tomau, T142, PVK2, and 27a are reference PPV1 strains, while strains 49, 25, 82, 13, 20, 21, 22, and 23 were identified in this study. The numbers in VP2 aa column are specified PPV1 VP2 aa sequence positions. The single letter codes represent the mutated amino acids, relative to the VP2 sequence of the NADL-2 reference strain; –, unmutated.

VP2 aa	PPV1 strain															
	NADL-2	Kresse	Challenge	IDT	Tomau	T142	PVK2	27a	49	25	82	13	20	21	22	23
28	G	–	–	–	–	–	–	–	S	S	–	–	–	–	–	–
45	T	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
143	Q	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–
215	I	T	T	T	T	T	–	T	T	T	T	T	T	T	T	T
228	Q	–	–	–	–	–	–	E	–	–	E	–	–	–	–	–
270	D	–	–	–	–	–	–	–	–	–	N	–	–	–	–	–
320	I	–	–	T	T	–	–	–	–	–	–	–	T	T	T	–
378	D	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
383	H	Q	Q	–	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
407	K	–	–	N	N	–	–	–	R	R	–	R	–	–	–	–
414	A	–	–	–	–	–	–	S	T	T	S	–	–	–	–	–
419	E	–	–	–	–	–	–	Q	–	–	Q	–	–	–	–	–
436	S	P	P	P	P	P	P	T	T	T	T	P	P	P	P	P
549	T	–	–	–	–	–	–	–	A	–	–	–	–	–	–	–
565	R	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
570	Y	–	–	–	–	–	H	–	H	–	H	H	H	H	H	H
579	Y	–	–	–	–	–	–	–	–	–	–	–	–	S	S	–

