

Table S2: Individual clinical scores after *cps9* challenge and individual immunological data at different time points of the experiment.

Immunization antigen	piglet number	α -rIde _{Ssuis} IgG (ELISA units)				Ide _{Ssuis} reactive CD154 ^{+b}		highest clinical score ^c reached after challenge (dpi ^a)
		pre immunization	7d post 1 st booster	17d post 2 nd booster	14 dpi ^a (final bleeding)	7d post 1 st booster	14 dpi ^a (final bleeding)	
rIde _{Ssuis}	#1	1.58	7.85	114.54	110.22	0.2208	0.0000	5 (1)
	#7	2.28	46.24	115.00	47.15	0.5893	0.1530	9 (0)
	#14	1.49	18.61	85.16	26.51	0.1690	n.d. ^d	3 (1)
	#23	1.03	21.15	42.95	27.27	0.2830	n.d. ^d	3^e (9)
	#27	2.48	40.31	119.10	72.14	0.7499	0.2000	4 (1)
	#32	3.40	9.40	41.08	17.62	0.0927	n.d. ^d	5 (2)
	#33	1.15	3.53	29.17	19.68	0.1893	0.0560	4 (1)
	#41	2.12	7.61	18.60	18.52	0.2341	n.d. ^d	6 (3)
#44	2.13	9.43	13.64	10.68	0.0950	0.0950	15 (1)	
placebo	#2	0.91	0.32	0.15	0.08	0.0683	†	25 (0)
	#10	0.94	0.37	0.10	0	0.1049	†	25 (0)
	#15	1.45	0.74	0.27	0.15	0.0957	†	25 (0)
	#20	1.67	0.65	1.83	1.29	0.0993	0.0260	1 (0, 5, 8)
	#26	2.08	0.66	0.28	0.27	0.0697	†	25 (1)
	#28	4.25	0.79	0.28	0.25	0.0223	†	25 (0)
	#30	1.98	0.64	0.31	0.28	0.0000	†	25 (1)
	#38	1.52	0.29	0.20	0.41	0.0013	†	17^f (3)
	#39	2.08	0.45	0.33	1.38	0.0014	0.0190	25 (14)

^a days post infection

^b frequency within CD4⁺CD8 α ⁺ cell population, pre-gated from viable CD3⁺ lymphocytes (see Fig. 5A)

^c For the detailed clinical scoring system see Table S1.

^d not determined

^e Clinical signs of this piglet were most likely not associated with the experimental infection.

† piglets were euthanized before 14 dpi.

^f This piglet was euthanized due to persisting clinical signs including high fever (≥ 40.5 °C), apathy and anorexia over 32 hours.