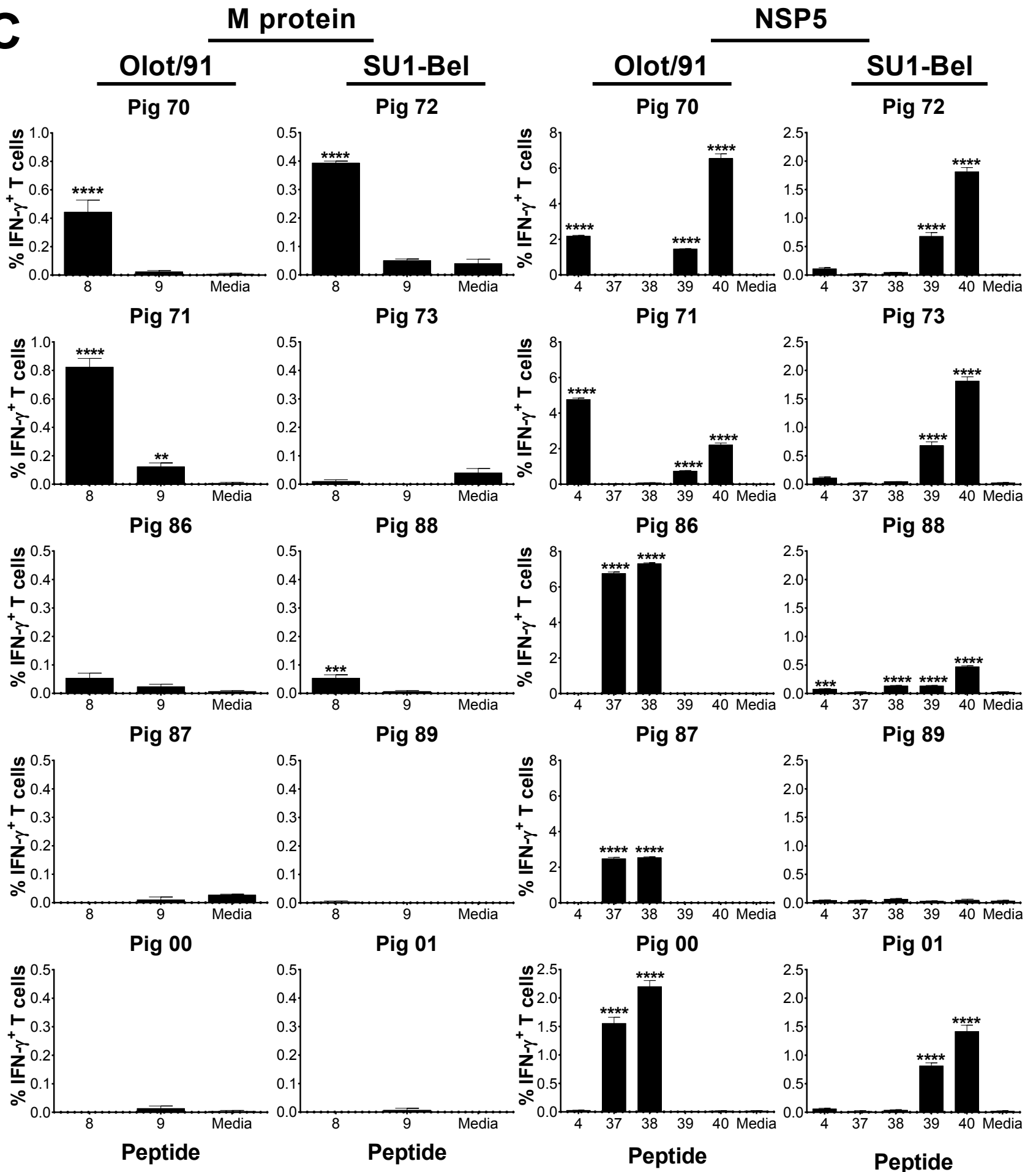


A

		NSP5 Matrix Pools*					
		A#	B#	C	D	E	F
NSP5 Matrix Pools	G	1	2	3	4	5	6
	H	7	8	9	10	11	12
	I	13	14	15	16	17	18
	J	19	20	21	22	23	24
	K	25	26	27	28	29	30
	L	31	32	33	34	35	36
	M#	37	38	39	40		

B

		CD4 T cell – M peptides			CD8 T cell – NSP5 peptides			
Group	Pig	Positive matrix pool	Corresponding peptides	Positive matrix pool	Corresponding peptides			
Olot/91	70	A B C H	7 8 9	C D E F G	3 4 5 6 39 40			
		M						
	71	A B C H	7 8 9	C D E G M	3 4 5 39 40			
		-	-	A B M	37 38			
		-	-	A B M	37 38			
SU1-Bel	00	-	-	A B M	37 38			
	72	A B C H	7 8 9	C D G M	3 4 39 40			
	73	-	-	C D M	39 40			
	88	A B H	7 8	A C D G M	1 3 4 37 39 40			
	89	-	-	-	-			
01	A B H	7 8	C D M	39 40				

C

Supplementary Data Sheet 1. Identification of antigenic peptides within PRRSV-1 M and NSP5 peptide pools. Individual peptides representing PRRSV-1 M and NSP5 proteins were combined using a two-way matrix-pooling system as illustrated for NSP5 peptides (A): The 40 overlapping 15mer peptides (#1–40) representing NSP5 were pooled so that each peptide was uniquely represented in two matrix-pools (Pools A–M). #Matrix pools A, B and M stimulated CD8 T cell IFN- γ reactivity from pig 86 and so overlapping peptides #37 and #38 were identified for further testing. Screening of matrix pools identified a number of putative antigenic M and NSP5 peptides recognised by CD4 and CD8 T cells, respectively (B). T cell reactivity against selected putative antigenic peptides was assessed using PBMC isolated from pigs on day 58 post-infection (C). IFN- γ expression by CD4 T cells to individual M peptides and CD8 T cells to individual NSP5 peptides were assessed by flow cytometry. The mean % of unstimulated (media) and peptide stimulated data from duplicate cultures are presented and error bars show the SEM. Values were compared to the unstimulated control using a one way ANOVA followed by a Dunnett's multiple comparisons test; **** $p < 0.0001$, *** $p < 0.001$, ** $p < 0.01$.