



# Comparative ORF and whole genome sequencing analysis of the porcine reproductive and respiratory syndrome virus (PRRSV) in routine samples reveal a recombinant virus strain

*ORF- und Gesamtgenomsequenzierung des porcinen reproduktiven und respiratorischen Syndrom-Virus (PRRSV) in Routineproben führen zum Nachweis eines rekombinanten Virusstammes*

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**TABLE 1:** Results of testing on PRRSV-1

Farm A		
Sample material (source)	PRRSV-1 RT-qPCR	Sequencing results (genomic region) GenBank accession number
lung tissue (piglet A)	positive (Cq 14.03)	field virus (ORF4–ORF6) (MT795918)
serum pool 1 (5 piglets)	positive (Cq 25.07)	not performed
serum pool 2 (5 piglets)	Negative	not available
Farm B		
Sample material	PRRSV-1 RT-qPCR	Sequencing results (genomic region)
lung tissue (piglet B)	positive (Cq 26.75)	recombinant field virus (ORF4–ORF6) (MT795919)
serum pool 3 (5 piglets)	positive (Cq 18.12)	field virus (ORF4–ORF6) (MT795917)
serum pool 4 (5 piglets)	positive (Cq 29.02)	not performed
serum pool 5 (5 piglets)	positive (Cq 33.82)	not performed
5 months later		
serum pool 6 (3 piglets)	positive (Cq 17.12)	field virus (ORF4–ORF6) (MT795920)
serum pool 7 (4 piglets)	positive (Cq 19.54)	recombinant field virus (whole genome) (MT795921 ORF4–ORF6; MT857222 NGS)
serum pool 8 (3 piglets)	positive (Cq 21.55)	field virus (whole genome) (MT795922 ORF4–ORF6, MT857223 NGS)