Figure 1

qPCR performed on serum drawn on the first day of the study

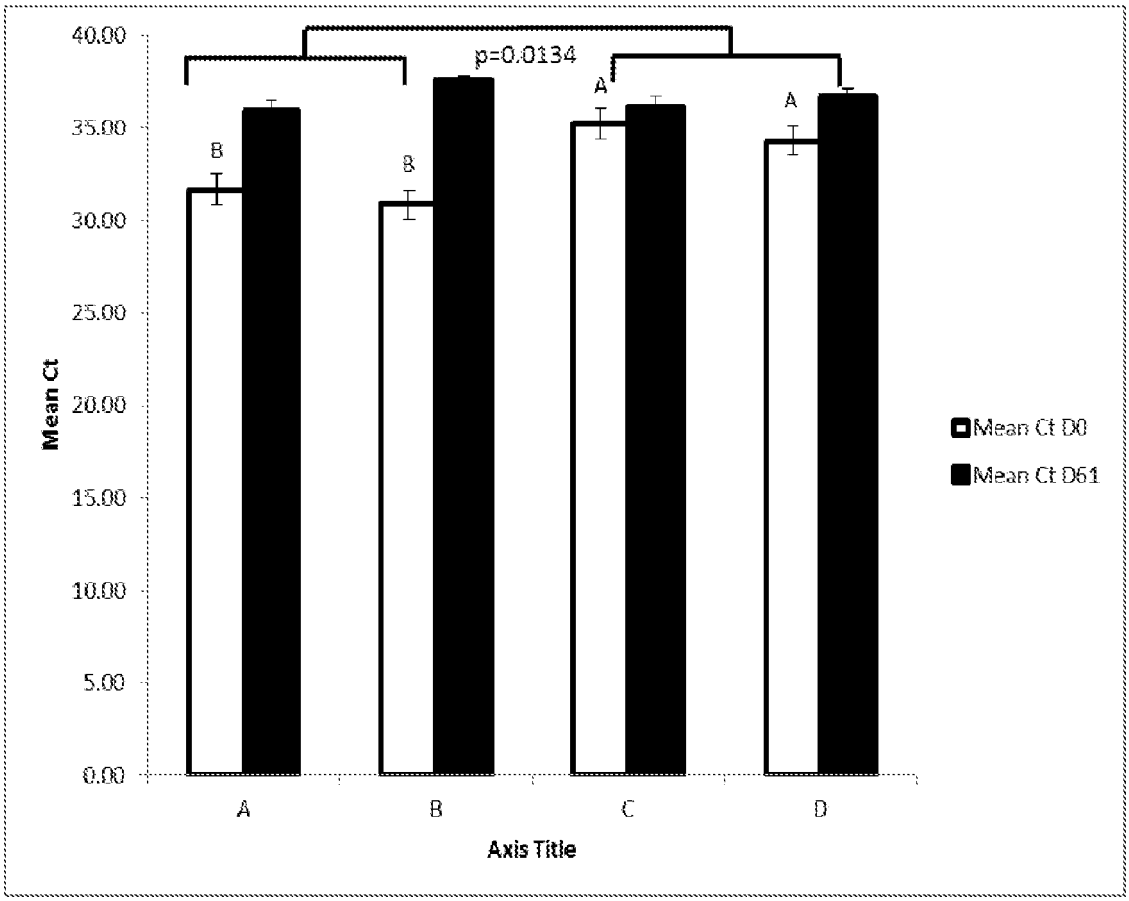
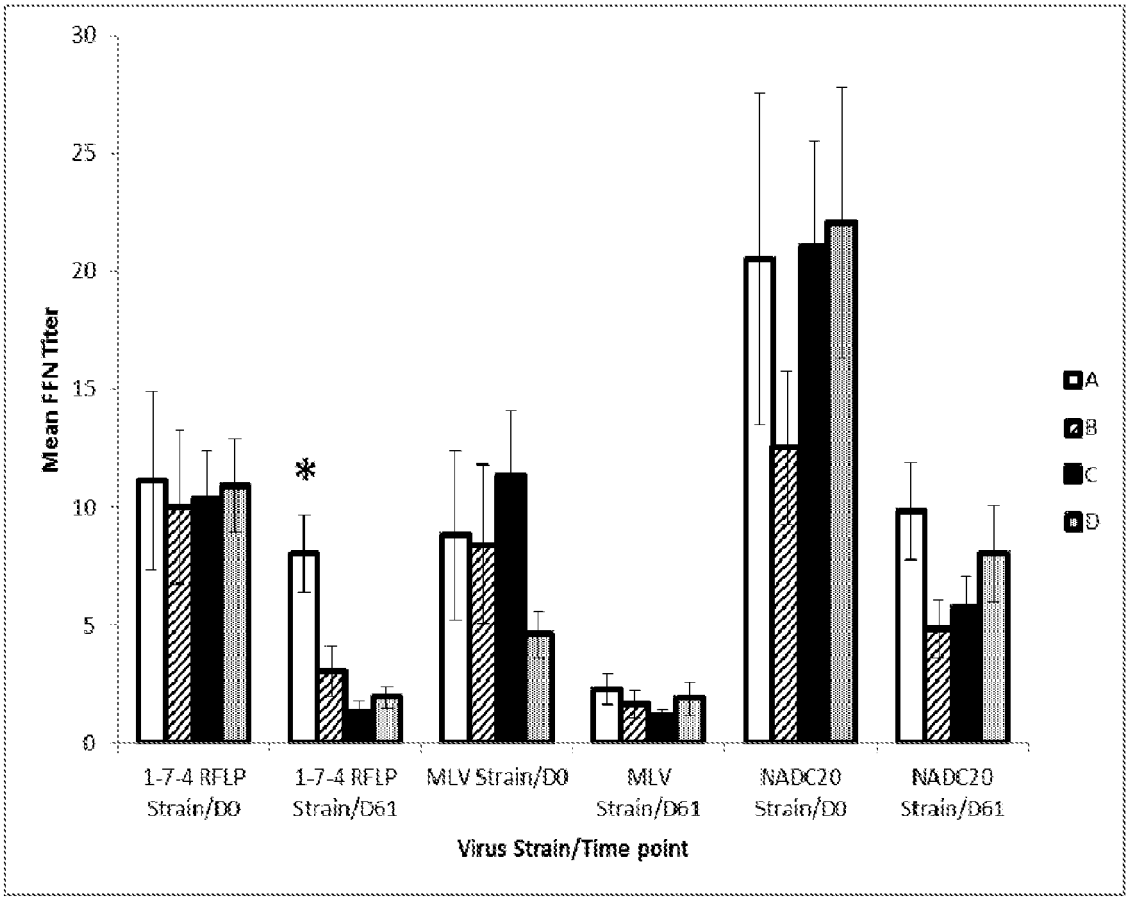


Figure 2

FFN Titers from serum drawn on days 0 and 21



(*) indicates group that had significantly higher titers based on the results of a Student's t-test (α=0.05)

Figure 3

Comparing rate of gain amongst all groups

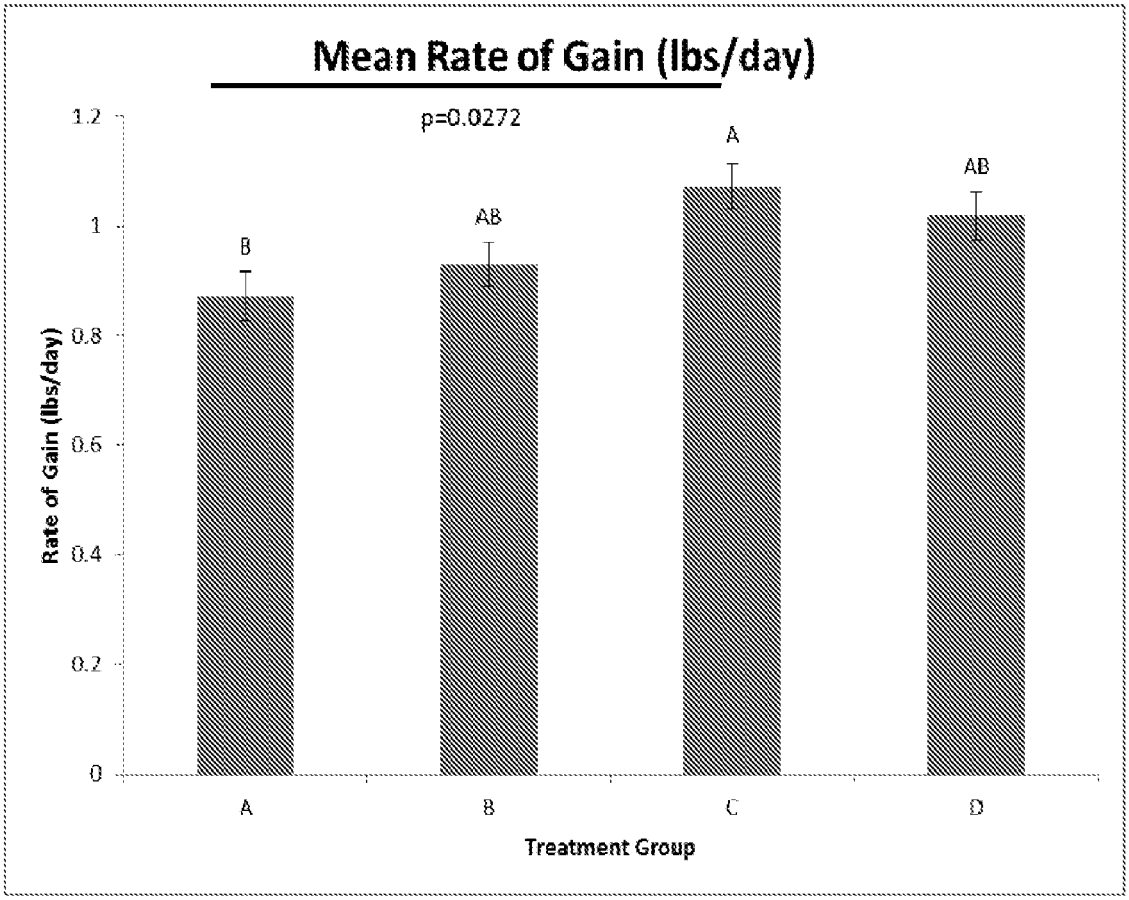
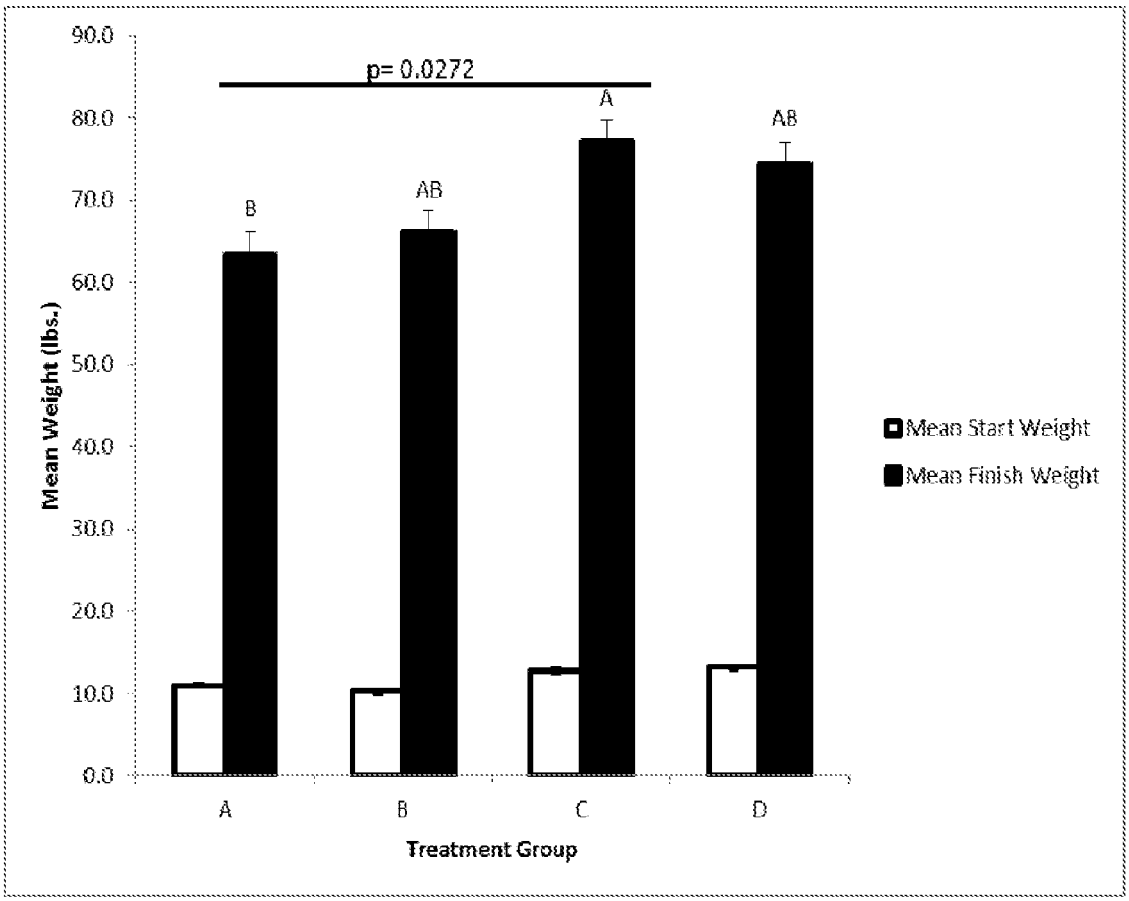


Figure 4

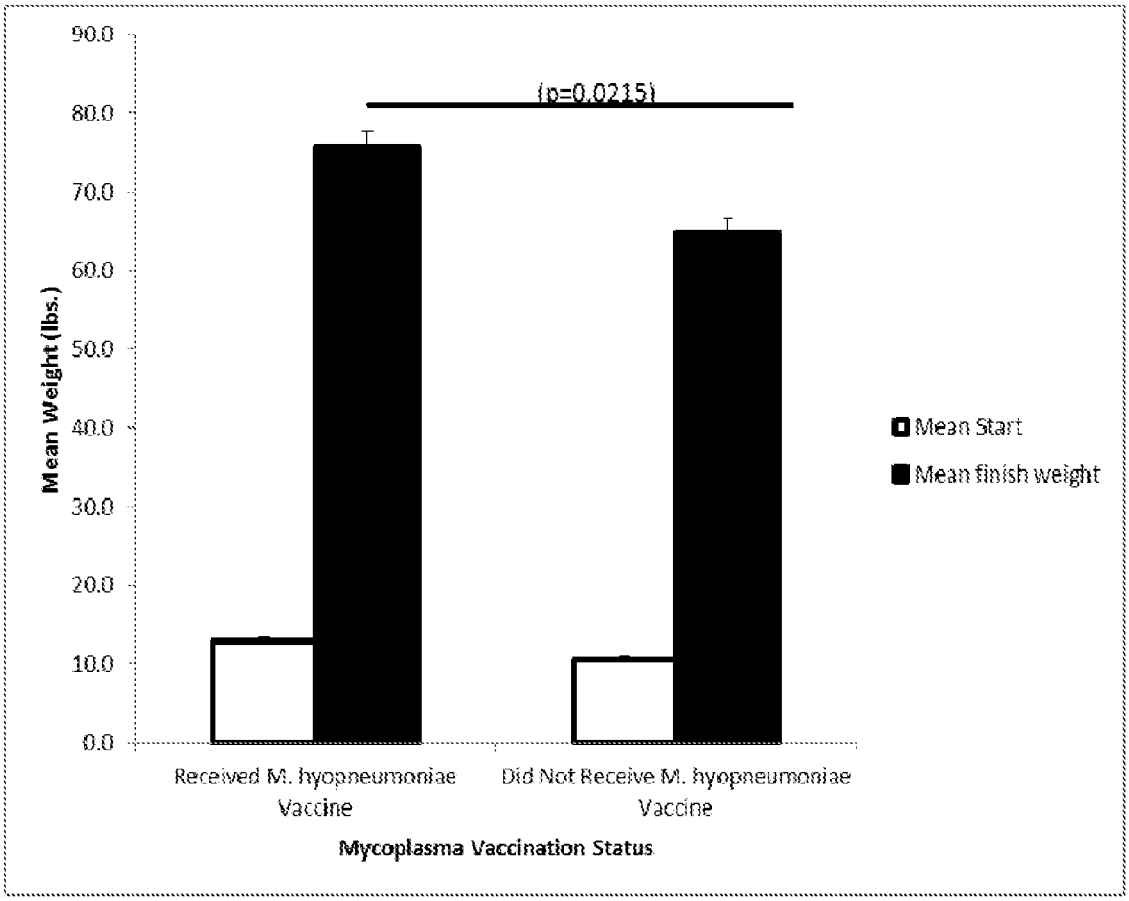
Mean weight of groups at days 0 and 61 of the study



Connecting letter report describes the results of at Student's t-test (α=0.05)

Figure 5

Comparison of finishing weights based on Mycoplasma Vaccination Status



p-value indicates the result of a two-way ANOVA

Figure 6

SEQ ID NO:	Type	Gene Description
1	DNA	DNA sequence for ORF5 of PRRSV strain, isolate 14-02227-1
2	protein	Protein sequence for ORF5 of PRRSV strain, isolate 14-02227-1
3	protein	Protein sequence for ORF5 of PRRSV strain, isolate 14-02094-1
4	protein	Protein sequence for ORF5 of PRRSV strain, isolate S11-1118-1
5	protein	Protein sequence for ORF5 of PRRSV strain, reference isolate
6	protein	Protein sequence for ORF5 of PRRSV strain, PRRSV Ref. Pfizer Fostera
7	protein	Protein sequence for ORF5 of PRRSV strain, RespPRRS-BI Ingelvac MLV
8	protein	Protein sequence for ORF5 of PRRSV strain, PRRS-BI Ingelvac ATP
9	protein	Protein sequence for ORF5 of PRRSV strain, *EURO PRRS Strain Lelystad strain

Figure 7A

SEQ ID NO:1 (DNA sequence of ORF5 PRRSV 603bp)
ATGTTGGGGAAATGCTTGACCGCGGGCTGCTGCTCGCAATTGCCTTTTTTGTGGTGTATCGTGCCGTTCT
GTTTTGTTGCGCTCGTCAACGCCAACAACAGCAGCAGCTCCCATTTACAGTTGATTTATAACCTGACGAT
ATGTGAGCTGAATGGCACAGATTGGCTAAACAAAAGTTTTGATTGGGCGGTGGAGACCTTTGTTATTTTT
CCTGTGTTGACTCATATTGTCTCCTATGGCGCCCTCACCACCAGCCATTTCCTTGACACAGTCGGCCTGA
TCACCGTGTCTGCCGCCGGATATTACCACGGGCGGTATGTCTTGAGTAGCATTTATGCCGTCTGCGCCCT
GGCTGCGTTAACTTGCTTCGTCATCAGGCTAACAAAAAATTGTATGTCCTGGCGTTACTCATGCACCAGA
TATACTAATTTTCTTCTGGACACCAAGGGCAAACTCTATCGTTGGCGGTCTCCTGTCATCATAGAGAAAG
GGGGTAAAATTGAGGTCGAAGGTCACCTGATCGACCTCAAGAGAGTTGTGCTTGACGGTTCCGCGGCAAC
CCCTGTAACCAAAGTTTCAGCGGAACAATGGGGCCGTCCT

SEQ ID NO:2 (ORF5 PRRSV 200aa, isolate 14-02227-1)
MLGKCLTAGCCSQLPFLWCIVPFCFVALVNANNSSSSHLQLIYNLTICELNGTDWLNKSFDWAVETFVIF
PVLTHIVSYGALTTSHFLDTVGLITVSAAGYYHGRYVLSSIYAVCALAALTCFVIRLTKNCMSWRYSCTR
YTNFLLDTKGKLYRWRSPVIIEKGGKIEVEGHLIDLKRVVLDGSAATPVTKVSAEQWGRP

SEQ ID NO:3 isolate 14-02094-1
MLGKCLTAGCCSQLPFLWCIVPFCFVALVNANNSSSSHLQLIYNLTICELNGTDWLNKSFDWAVETFVIFP
VLTHIVSYGALTTSHFLDTVGLITVSAAGYYHGRYVLSSIYAVCALAALTCFVIRLTKNCMSWRYSCTRYT
NFLLDTKGKLYRWRSPVIIEKGGKIEVEGHLIDLKRVVLDGSAATPVTKVSAEQWGRP

SEQ ID NO:4 isolate S11-1118-1
MLGKCLTAGYCSQLPFLWCIVPFCFAALVNANSNSSSHLQLIYNLTICELNGTDWLNNKFDWAVETFVIFP
VLTHIVSYGALTTSHLLDTVGLITVSTAGYCHGRYVLSSIYAVCALAALICFAIRLAKNCMSWRYSCTRYT
NFLLDTKGKLYRWRSPVIIEKGGKVDVGGHLIDLKRVVLDGSAATPVTKISAEQWGRP

SEQ ID NO:5 reference isolate
MLGKCLTAGCCSQLPSLWCIVPFCFAALVNANSSSSSHLQLIYNLTLCELNGTDWLNNKFDWAVETFVIFP
VLTHIVSYGALTTSHFLDTVGLITVSTAGFYHGRYVLSSIYAVCALAALTCFVIRLAKNCMSWRYSCTRYT
NFLLDTKGRLYRWRSPVIIEKGGKVEVEGHLIDLKRVVLDGSAATPVTRVSAEQWGRP

SEQ ID NO:6 PRRSV ref. isolate Fostera
MLGKCLTAGCCSRLLSLWCIVPFWFAVLGNANSSSSSHFQLIYNLTLCELNGTDWLAEKFDWAVETFVIFP
VLTHIVSYCALTTSHFLDTVGLVTVSTAGFYHGRYVLSSIYAVCALAALICFVIRLAKNCMSWRYSCTRYT
NFLLDTKGRLYRWRSPVIIEKRGKVEVEGHLIDLKRVVLDGSVATPLTRVSAEQWGRL

SEQ ID NO:7 RespPRRS-BI Ingelvac MLV
MLEKCLTAGCCSQLLSLWCIVPFCFAVLANASNDSSSHLQLIYNLTLCELNGTDWLANKFDWAVESFVIFP
VLTHIVSYGALTTSHFLDTVALVTVSTAGFVHGRYVLSSIYAVCALAALTCFVIRFAKNCMSWRYACTRYT
NFLLDTKGGLYRWRSPVIIEKRGKVEVEGHLIDLKRVVLDGSVATPITRVSAEQWGRP

SEQ ID NO:8 PRRS-BI Ingelvac ATP
MLGRGVTGGCGSRTLSVWCIVPFCFAALVNANSNSSSHLQLIYNLTLCELNGTDWLKNKFDWALETFVIFP
VLTHIVSYSALTTSHFLDTVGLVTVSTAGFYHGRYVLSSIYAVCALAALTCFVIRLAKNCMSWRYSCTRYT
NFLLDTKGRLYRWRSPVIIEKGGKVEVEGHLIDLKRVVLDGSVATPLTRVSAEQWGRP

Figure 7B

SEQ ID NO:9 *EURO PRRS Strain Lelystad strain

MRCSHKLGRFLTPHSCFWWLFLLCTGLSWSFADGNGDSSTYQYIYNLTICELNGTDWLSSHFGWAVETFVL
YPVATHILSLGFLTTSHFFDALGLGAVSTAGFVGGRYVLCSVYGACAFAAFVCFVIRAAKNCMACRYARTR
FTNFIVDDRGRVHRWKSPIVVEKLGKAEVDGNLVTIKHVVLEGVKAQPLTRTSAEQWE

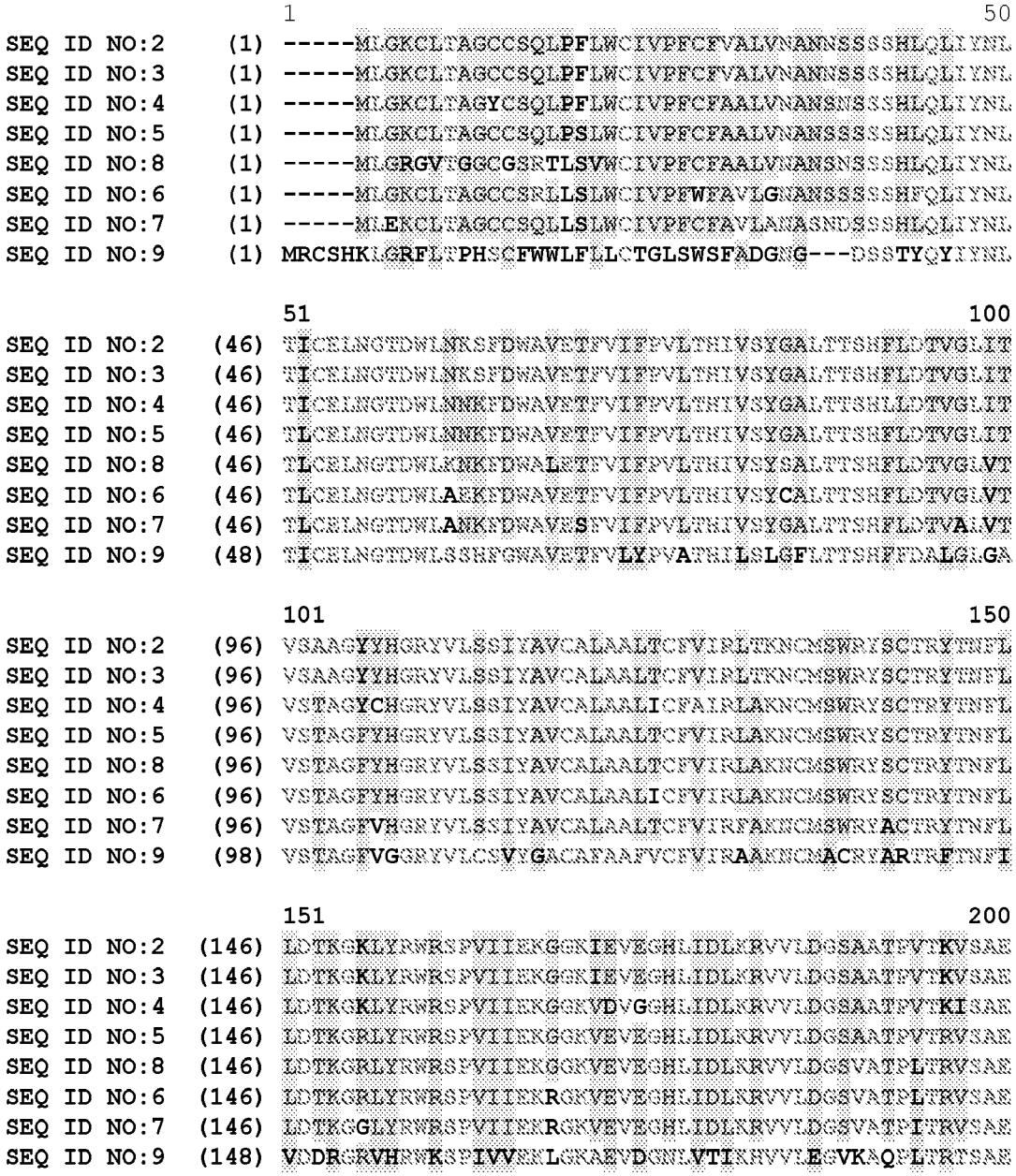


Figure 7C

```
                    201
SEQ ID NO:2  (196) QWGRP
SEQ ID NO:3  (196) QWGRP
SEQ ID NO:4  (196) QWGRP
SEQ ID NO:5  (196) QWGRP
SEQ ID NO:8  (196) QWGRP
SEQ ID NO:6  (196) QWGRL
SEQ ID NO:7  (196) QWGRP
SEQ ID NO:9  (198) QWE--
```

Sequence identity percentage

SEQ ID NO:	2	3	4	5	6	7	8	9
2	100%	100%	92.0%	94.0%	87.0%	86.5%	86.0%	53.7%
3		100%	92.0%	94.0%	87.0%	86.5%	86.0%	53.7%
4			100%	93.0%	86.5%	85.5%	86.0%	53.2%
5				100%	92.5%	91.0%	92.0%	55.1%
6					100%	90.5%	90.5%	56.1%
7						100%	87.5%	54.1%
8							100%	53.0%
9								100%

Phylogenetic tree

