

SEQUENCE LISTING

<110> Calvert, Jay G.
Slade, David E.

<120> NORTH AMERICAN PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME
(PRRS) VIRUS AND USES THEREOF

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<150> 61/412,006

<151> 2010-11-10

<160> 57

<170> PatentIn version 3.5

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infectious clone

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<223> genome position 735, ORF1a: 182, Nsp1b: 2, passage 0 amino acid

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Ala Met Ala Asp Val Tyr Asp

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<210> 8

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> genome position 735, ORF1a: 182, Nsp1b: 2, passage 17 amino acid

<400> 8

Ala Met Ala Asn Val Tyr Asp

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<210> 9

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 735, ORF1a: 182, Nsp1b: 2, passage 52 amino acid

<400> 9

Ala Met Ala Asn Val Tyr Asp

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<210> 10

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 756, ORF1a: 189, Nsp1b: 9, passage 0 amino acid

<400> 10

Ile Ser His Asp Ala Val Met

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<210> 11

<211> 7

<212> PRT

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<223> genome position 756, ORF1a: 189, Nsp1b: 9, passage 17 amino acid

<400> 11

Ile Gly His Asn Ala Val Met

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<210> 12

<211> 7

<212> PRT

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<223> genome position 756, ORF1a: 189, Nsp1b: 9, passage 52 amino acid

<400> 12

Ile Gly His Asn Ala Val Met

1 5

<210> 13

<211> 7

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<220>

<223> genome position 992, ORF1a: 267, Nsp1b: 87, passage 0 amino acid

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Thr Val Pro Glu Gly Asn Cys

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<210> 14

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<220>

<223> genome position 992, ORF1a: 267, Nsp1b: 87, passage 17 amino acid

<400> 14

Thr Val Pro Asp Gly Asn Cys

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<210> 15

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<212> PRT

<213> Artificial Sequence

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<223> genome position 992, ORF1a: 267, Nsp1b: 87, passage 52 amino acid

<400> 15

Thr Val Pro Asp Gly Asn Cys

1 5

<210> 16

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 1009, ORF1a: 273, Nsp1b: 93, passage 0 amino acid

<400> 16

Cys Trp Trp Cys Leu Phe Asp

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<210> 17

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 1009, ORF1a: 273, Nsp1b: 93, passage 17 amino
acid

<400> 17

Cys Trp Trp Tyr Leu Phe Asp

1 5

<210> 18

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 1009, ORF1a: 273, Nsp1b: 93, passage 52 amino
acid

<400> 18

Cys Trp Trp Tyr Leu Phe Asp

1 5

<210> 19

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 1096, ORF1a: 302, Nsp1b: 122, passage 0 amino
acid

<400> 19

His Gly Val Pro Gly Lys Tyr

1 5

<210> 20

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 1096, ORF1a: 302, Nsp1b: 122, passage 17 amino
acid

<400> 20

His Gly Val His Gly Lys Tyr

1 5

<210> 21

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 1096, ORF1a: 302, Nsp1b: 122, passage 52 amino
acid

<400> 21

His Gly Val His Gly Lys Tyr

1 5

<210> 22

<211> 7

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<213> Artificial Sequence

<220>

<223> genome position 2106, ORF1a: 639, Nsp2: 256, passage 0 amino acid

<400> 22

Ala Ala Lys Ile Asp Gln Tyr

1 5

<210> 23

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<213> Artificial Sequence

<220>

<223> genome position 2106, ORF1a: 639, Nsp2: 256, passage 17 amino
acid

<400> 23

Ala Ala Lys Val Asp Gln Tyr

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<210> 24

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 2106, ORF1a: 639, Nsp2: 256, passage 52 amino
acid

<400> 24

Ala Ala Lys Val Asp Gln Tyr

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<210> 25

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 2185, ORF1a: 665, Nsp2: 282, passage 0 amino acid

<400> 25

Pro Ser Ala Met Asp Thr Ser

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<210> 26

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 2185, ORF1a: 665, Nsp2: 282, passage 17 amino
acid

<400> 26

Pro Ser Ala Thr Asp Thr Ser

1 5

<210> 27

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 2185, ORF1a: 665, Nsp2: 282, passage 52 amino acid

<400> 27

Pro Ser Ala Thr Asp Thr Ser

1 5

<210> 28

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 2403, ORF1a: 738, Nsp2: 355, passage 0 amino acid

<400> 28

Leu Val Ser Val Leu Ser Lys

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<210> 29

<211> 7

<212> PRT

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<220>

<223> genome position 2403, ORF1a: 738, Nsp2: 355, passage 17 amino

acid

<400> 29

Leu Asn Ser Leu Leu Ser Lys

1 5

<210> 30

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 2403, ORF1a: 738, Nsp2: 355, passage 52 amino acid

<400> 30

Leu Asn Ser Leu Leu Ser Lys

1 5

<210> 31

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 3019, ORF1a: 943, Nsp2: 560, passage 0 amino acid

<400> 31

Ala Pro Met Tyr Gln Asp Glu

1 5

<210> 32

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 3019, ORF1a: 943, Nsp2: 560, passage 17 amino
acid

<400> 32

Ala Pro Met Cys Gln Asp Glu

1 5

<210> 33

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 3019, ORF1a: 943, Nsp2: 560, passage 52 amino
acid

<400> 33

Ala Pro Met Cys Gln Asp Glu

1 5

<210> 34

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 4477, ORF1a: 1429, Nsp3: 72, passage 0 amino acid

<400> 34

Cys Ala Pro Lys Gly Met Asp

1 5

<210> 35

<211> 7

<212> PRT

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<220>

<223> genome position 4477, ORF1a: 1429, Nsp3: 72, passage 17 amino
acid

<400> 35

Cys Ala Pro Thr Gly Met Asp

1 5

<210> 36

<211> 7

<212> PRT

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<220>

<223> genome position 4477, ORF1a: 1429, Nsp3: 72, passage 52 amino acid

<400> 36

Cys Ala Pro Thr Gly Met Asp

1 5

<210> 37

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 4705, ORF1a: 1505, Nsp3: 148, passage 0 amino acid

<400> 37

Pro Lys Val Val Lys Val Ser

1 5

<210> 38

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 4705, ORF1a: 1505, Nsp3: 148, passage 17 amino
acid

<400> 38

Pro Lys Val Ala Lys Val Ser

1 5

<210> 39

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 4705, ORF1a: 1505, Nsp3: 148, passage 52 amino
acid

<400> 39

Pro Lys Val Ala Lys Val Ser

1 5

<210> 40

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<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 5985, ORF1a: 1932, Nsp4: 129, passage 0 amino
acid

<400> 40

Ala Gly Glu Leu Val Gly Val

1 5

<210> 41

<211> 7

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<220>

<223> genome position 5985, ORF1a: 1932, Nsp4: 129, passage 17 amino
acid

<400> 41

Ala Gly Glu Ile Val Gly Val

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<210> 42

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<220>

<223> genome position 5985, ORF1a: 1932, Nsp4: 129, passage 52 amino
acid

<400> 42

Ala Gly Glu Ile Val Gly Val

1 5

<210> 43

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<212> PRT

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<220>

<223> genome position 7419, ORF1a: 2410, Nsp7: 217, passage 0 amino
acid

<400> 43

Ala Asp Phe Asp Pro Glu Lys

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<210> 44

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 7419, ORF1a: 2410, Nsp7: 217, passage 17 amino
acid

<400> 44

Ala Asp Phe Asn Pro Glu Lys

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<210> 45

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<220>

<223> genome position 7419, ORF1a: 2410, Nsp7: 217, passage 52 amino
acid

<400> 45

Ala Asp Phe Asn Pro Glu Lys

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<210> 46

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 8831, ORF1a/1b: 2881, Nsp9: 429, passage 0 amino
acid

<400> 46

Gln Thr Pro Val Leu Gly Arg

1 5

<210> 47

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 8831, ORF1a/1b: 2881, Nsp9: 429, passage 17
amino acid

<400> 47

Gln Thr Pro Ile Leu Gly Arg

1 5

<210> 48

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 8831, ORF1a/1b: 2881, Nsp9: 429, passage 52 amino acid

<400> 48

Gln Thr Pro Ile Leu Gly Arg

1 5

<210> 49

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 13,857, ORF5: 29, passage 0 amino acid

<400> 49

Ala Val Leu Val Asn Ala Asn

1 5

<210> 50

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> genome position 13,857, ORF5: 29, passage 17 amino acid

<400> 50

Ala Val Leu Gly Asn Ala Asn

1 5

<210> 51

<211> 7

<212> PRT

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<220>

<223> genome position 13,857, ORF5: 29, passage 52 amino acid

<400> 51

Ala Val Leu Gly Asn Ala Asn

1 5

<210> 52

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<212> PRT

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<220>

<223> genome position 14,578, ORF6: 74, passage 0 amino acid

<400> 52

Val Ala Leu Thr Met Gly Ala

1 5

<210> 53

<211> 7

<212> PRT

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<220>

<223> genome position 14,578, ORF6: 74, passage 17 amino acid

<400> 53

Val Ala Leu Ala Met Gly Ala

1 5

<210> 54

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<220>

<223> genome position 14,578, ORF6: 74, passage 52 amino acid

<400> 54

Val Ala Leu Ala Met Gly Ala

1 5

<210> 55

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<220>

<223> genome position 14,780, ORF6: 141, passage 0 amino acid

<400> 55

Pro Gly Ser Thr Thr Val Asn

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<210> 56

<211> 7

<212> PRT

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<220>

<223> genome position 14,780, ORF6: 141, passage 17 amino acid

<400> 56

Pro Gly Ser Ile Thr Val Asn

1 5

<210> 57

<211> 7

<212> PRT

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<220>

<223> genome position 14,780, ORF6: 141, passage 52 amino acid

<400> 57

Pro Gly Ser Ile Thr Val Asn

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