SEQUENCE LISTING

<110> Roof, Mike

Eichmeyer, Mark

Nitzel, Greg

Schaeffer, Merrill

Hayes, Phillip

<120> USE OF A PCV2 IMMUNOGENIC COMPOSITION FOR LESSENING CLINICAL SYMPTOMS IN PIGS

<130> 34816-CIP1

<150> Unknown

<151> 2005-12-30

<160> 11

<170> PatentIn version 3.3

<210> 1

<211> 8

<212> DNA

<213> Artificial

<220>

<223> This is a modified Kozak's sequence.

<400> 1

ccgccatg 8

<210> 2

<211> 6

<212> DNA

<213> Artificial

<220>

<223> This is a recombinant Eco R1 sequence.

<400> 2

gaattc 6

<210> 3

<211> 713

<212> DNA

<213> Porcine circovirus

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<211> 713

<212> DNA

<213> Porcine circovirus

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<211> 233

<212> PRT

<213> Porcine circovirus

<400> 5

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Arg His Arg Tyr Arg Trp Arg Arg Lys Asn Gly Ile Phe Asn Thr Arg
35 40 45

Leu Ser Arg Thr Phe Gly Tyr Thr Val Lys Ala Thr Thr Val Thr Thr
50 55 60

Pro Ser Trp Ala Val Asp Met Met Arg Phe Asn Ile Asp Asp Phe Val
65 70 75 80

Pro Pro Gly Gly Gly Thr Asn Lys Ile Ser Ile Pro Phe Glu Tyr Tyr
85 90 95

Arg Ile Arg Lys Val Lys Val Glu Phe Trp Pro Cys Ser Pro Ile Thr
100 105 110

Gln Gly Asp Arg Gly Val Gly Ser Thr Ala Val Ile Leu Asp Asp Asn
115 120 125

Phe Val Thr Lys Ala Thr Ala Leu Thr Tyr Asp Pro Tyr Val Asn Tyr
130 135 140

Ser Ser Arg His Thr Ile Pro Gln Pro Phe Ser Tyr His Ser Arg Tyr
145 150 155 160

Phe Thr Pro Lys Pro Val Leu Asp Ser Thr Ile Asp Tyr Phe Gln Pro
165 170 175

Asn Asn Lys Arg Asn Gln Leu Trp Leu Arg Leu Gln Thr Ser Arg Asn
180 185 190

Val Asp His Val Gly Leu Gly Thr Ala Phe Glu Asn Ser Lys Tyr Asp
195 200 205

Gln Asp Tyr Asn Ile Arg Val Thr Met Tyr Val Gln Phe Arg Glu Phe
210 215 220

Asn Leu Lys Asp Pro Pro Leu Lys Pro
225 230

<210> 6
<211> 233
<212> PRT
<213> Porcine circovirus

<400> 6

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Arg His Arg Tyr Arg Trp Arg Arg Lys Asn Gly Ile Phe Asn Thr Arg
35 40 45

Leu Ser Arg Thr Phe Gly Tyr Thr Val Lys Ala Thr Thr Val Thr Thr
50 55 60

Pro Ser Trp Ala Val Asp Met Met Arg Phe Asn Ile Asp Asp Phe Val
65 70 75 80

Pro Pro Gly Gly Gly Thr Asn Lys Ile Ser Ile Pro Phe Glu Tyr Tyr
85 90 95

Arg Ile Arg Lys Val Lys Val Glu Phe Trp Pro Cys Ser Pro Ile Thr
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Gln Gly Asp Arg Gly Val Gly Ser Thr Ala Val Ile Leu Asp Asp Asn
115 120 125

Phe Val Thr Lys Ala Thr Ala Leu Thr Tyr Asp Pro Tyr Val Asn Tyr
130 135 140

Ser Ser Arg His Thr Ile Pro Gln Pro Phe Ser Tyr His Ser Arg Tyr
145 150 155 160

Phe Thr Pro Lys Pro Val Leu Asp Ser Thr Ile Asp Tyr Phe Gln Pro
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Asn Asn Lys Arg Asn Gln Leu Trp Leu Arg Leu Gln Thr Ser Arg Asn
180 185 190

Val Asp His Val Gly Leu Gly Thr Ala Phe Glu Asn Ser Lys Tyr Asp
195 200 205

Gln Asp Tyr Asn Ile Arg Val Thr Met Tyr Val Gln Phe Arg Glu Phe
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Asn Leu Lys Asp Pro Pro Leu Glu Pro
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<210> 7

<211> 756

<212> DNA

<213> Artificial

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<223> This sequence is from porcine circovirus type 2, open reading frame 2, together with a portion from the pGEM T-easy vector.

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tttgaatact acagaataag aaaggttaag gttgaattct ggccctgctc ccccatcacc 360

cagggtgata ggggagtggg ctccactgct gttattctag atgataactt tgtaacaaag 420

gccacagccc taacctatga cccatatgta aactactcct cccgccatac aatcccccaa 480

ccctttctcct accactcccg ttacttcaca cccaaacctg ttcttgactc cactattgat 540

tacttccaac caaataacaa aaggaatcag ctttggctga ggctacaaac ctctagaaat 600

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ccctaagaat tctatcacta gtgaattcgc ggccgc 756

<210> 8

<211> 10387

<212> DNA

<213> Artificial

<220>

<223> This is the porcine circovirus type 2, ORF2 construct, which includes baculovirus and pGEM T-easy coding sequences.

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ggcgtgcact gcacacacgg tattaatcgc accggttaca tggtgtgcag atatttaatg 480

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aaaattgaaa gacaaaatta cgttcaagat ttattaattt aattaatatt atttgcattc 600

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His Leu Gly Gln

20

<210> 10

<211> 19

<212> PRT

<213> Porcine circovirus

<400> 10

Pro Arg His His Tyr Arg Pro Arg Arg Lys Asn Gly Ile Phe Asn Thr
1 5 10 15

Thr Leu Ser

<210> 11

<211> 233

<212> PRT

<213> Artificial

<220>

<223> This is an amino acid sequence for porcine circovirus type 2, open reading frame 2.

<400> 11

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1 5 10 15

Ser His Leu Gly Gln Ile Leu Arg Arg Arg Pro Trp Leu Val His Pro
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Arg His Arg Tyr Arg Trp Arg Arg Lys Asn Gly Ile Phe Asn Thr Arg
35 40 45

Leu Ser Arg Thr Phe Gly Tyr Thr Val Lys Ala Thr Thr Val Arg Thr
50 55 60

Pro Ser Trp Ala Val Asp Met Met Arg Phe Asn Ile Asp Asp Phe Val
65 70 75 80

Pro Pro Gly Gly Gly Thr Asn Lys Ile Ser Ile Pro Phe Glu Tyr Tyr
85 90 95

Arg Ile Lys Lys Val Lys Val Glu Phe Trp Pro Cys Ser Pro Ile Thr
100 105 110

Gln Gly Asp Arg Gly Val Gly Ser Thr Ala Val Ile Leu Asp Asp Asn
115 120 125

Phe Val Thr Lys Ala Thr Ala Leu Thr Tyr Asp Pro Tyr Val Asn Tyr
130 135 140

Ser Ser Arg His Thr Ile Pro Gln Pro Phe Ser Tyr His Ser Arg Tyr
145 150 155 160

Phe Thr Pro Lys Pro Val Leu Asp Ser Thr Ile Asp Tyr Phe Gln Pro
165 170 175

Asn Asn Lys Arg Asn Gln Leu Trp Leu Arg Leu Gln Thr Ser Arg Asn
180 185 190

Val Asp His Val Gly Leu Gly Thr Ala Phe Glu Asn Ser Ile Tyr Asp

195 200 205

Gln Asp Tyr Asn Ile Arg Val Thr Met Tyr Val Gln Phe Arg Glu Phe

210 215 220

Asn Leu Lys Asp Pro Pro Leu Lys Pro

225 230