

SEQUENCE LISTING

<110> POMONA BIOTECHNOLOGIES LLC

<120> Monoclonal antibodies as a medicament for the therapeutic and/or prophylactic treatment of swine-origin influenza A (H1N1) virus (S-OIV)

<130> Our Ref.: PC987EC E077451

<160> 15

<170> PatentIn version 3.3

<210> 1

<211> 122

<212> PRT

<213> Homo sapiens

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Leu Glu Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg Ser Leu Arg
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Leu Ser Cys Ala Ala Ser Gly Phe Pro Phe Ser Ser Tyr Gly Met His
20 25 30

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Gly Val
35 40 45

Ser Tyr Asp Gly Ser Tyr Lys Tyr Tyr Ala Asp Ser Val Lys Gly Arg
50 55 60

Phe Thr Ile Ser Arg Asp Ser Ser Lys Ser Thr Leu Tyr Leu Gln Met
65 70 75 80

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Pro
85 90 95

Ser Ala Ile Phe Gly Ile Tyr Ile Ile Leu Asn Gly Leu Asp Val Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 2

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<212> PRT

<213> Homo sapiens

<400> 2

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Val Thr Ile Thr Cys Arg Ala Thr Gln Gly Ile Ser Ser Trp Leu Ala
20 25 30

Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro Lys Leu Leu Ile Phe Gly
35 40 45

Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
50 55 60

Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gl n Pro Gl u Asp
65 70 75 80

Phe Ala Thr Tyr Phe Cys Gl n Gl n Ala Hi s Ser Phe Pro Leu Thr Phe
85 90 95

Gly Gly Gly Thr Lys Val Gl u Ile Lys
100 105

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<213> Homo sapi ens

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aacagcctga gacctgagga cacggctgtg tattactgtg cgagaccttc cgcgattttt 300
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Leu Gl u Ser Gly Gly Gly Leu Val Gl n Pro Gly Gly Ser Leu Arg Leu
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Ser Cys Ala Ala Ser Gly Ile Thr Phe Ser Ser Tyr Ala Met Ser Trp
20 25 30

Val Arg Gl n Ala Pro Gly Lys Gly Leu Gl u Trp Val Ser Thr Val Asn
35 40 45

Ser Gly Gly Gly Ser Thr Tyr Tyr Gly Asp Ser Val Arg Gly Arg Phe

50 55 60
 Thr Ile Ser Arg Asp Asn Ser Lys Ser Thr Leu Tyr Leu Gln Leu Asn
 65 70 75 80
 Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Lys Asp Lys
 85 90 95
 Gly Arg Pro Ile Phe Gly Leu Val Thr Pro Ser Tyr Tyr Met Asp Val
 100 105 110
 Trp Gly Asn Gly Thr
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 <212> PRT
 <213> Homo sapiens

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Glu Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Ser
 1 5 10 15
 Val Thr Ile Thr Cys Arg Thr Ser Glu Arg Ile Ser Thr Tyr Leu Asn
 20 25 30
 Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Arg Leu Leu Val Ser Gly
 35 40 45
 Ala Ser Thr Leu Gln Gly Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
 50 55 60
 Ser Gly Thr Ala Phe Thr Leu Thr Ile Asn Ser Leu Gln Pro Glu Asp
 65 70 75 80
 Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Leu Thr Phe
 85 90 95
 Gly Gly Gly Thr
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 <212> DNA
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 ctggagtggg tctcaactgt taacagtggg ggtggtagta catactacgg agactccgtg 180
 aggggccggt tcaccatctc cagagacaac tccaagagca cgctgtacct gcaactgaac 240
 agcctgagag ccgaggacac ggccatatat tactgtgcga aagataaggg tcgtccgatt 300
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 gcccctaggc tcctgggtctc tgggtgcatcc actttgcaag gtgggggtccc atcaagggtc 180
 agtggcagtg gatctgggac agctttcact cttaccatca acagtctgca gcctgaagat 240
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 <212> DNA
 <213> Influenza A virus

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 aaaatatgta aaaagcacia aattgagact ggccacagga ttgaggaatg tcccgtctat 180
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 ggtagatgga tggtttattt gtctcagggg gcaaaagcag gggtcaggat atgcagccga 300
 cctgaagagc acacagaatg ccattgacga gattactaac aaagtaaatt ctgttattga 360
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 tgactaccca aaatactcag aggaagcaaa attaaacaga gaagaaatag atggggtaaa 720
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<210> 10
 <211> 286
 <212> PRT
 <213> Influenza A virus

<220>
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 <222> (4)..(4)
 <223> Xaa can be any naturally occurring amino acid

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Val Leu Ser Xaa Ser Asp Thr Pro Val His Asp Cys Asn Thr Thr Cys
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Gln Thr Pro Lys Gly Ala Ile Asn Thr Ser Leu Pro Phe Gln Asn Ile
 20 25 30

His Pro Ile Thr Ile Gly Lys Cys Pro Lys Tyr Val Lys Ser Thr Lys
35 40 45

Leu Arg Leu Ala Thr Gly Leu Arg Asn Val Pro Ser Ile Gln Ser Arg
50 55 60

Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Gly Gly Trp Thr Gly
65 70 75 80

Met Val Asp Gly Trp Phe Ile Cys Leu Arg Glu Gln Lys Gln Gly Ser
85 90 95

Gly Tyr Ala Ala Asp Leu Lys Ser Thr Gln Asn Ala Ile Asp Glu Ile
100 105 110

Thr Asn Lys Val Asn Ser Val Ile Glu Lys Met Asn Thr Gln Phe Thr
115 120 125

Ala Val Gly Lys Glu Phe Asn His Leu Glu Lys Arg Ile Glu Asn Leu
130 135 140

Asn Lys Lys Val Asp Asp Gly Phe Leu Asp Ile Trp Thr Tyr Asn Ala
145 150 155 160

Glu Leu Leu Val Leu Leu Glu Asn Glu Arg Thr Leu Asp Tyr His Asp
165 170 175

Ser Asn Val Lys Asn Leu Tyr Glu Lys Val Arg Asn Gln Leu Lys Asn
180 185 190

Asn Ala Lys Glu Ile Gly Asn Gly Cys Phe Glu Phe Tyr His Lys Cys
195 200 205

Asp Asn Thr Cys Met Glu Ser Val Lys Asn Gly Thr Tyr Asp Tyr Pro
210 215 220

Lys Tyr Ser Glu Glu Ala Lys Leu Asn Arg Glu Glu Ile Asp Gly Val
225 230 235 240

Lys Leu Glu Ser Thr Arg Ile Tyr Gln Ile Leu Ala Ile Tyr Ser Thr
245 250 255

Val Ala Ser Ser Leu Val Leu Val Val Ser Leu Gly Ala Ile Ser Phe
260 265 270

Trp Met Cys Ser Asn Gly Ser Leu Gln Cys Arg Ile Cys Ile
275 280 285

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<211> 34
<212> DNA
<213> Artificial

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<223> Primer Bm-NS-890-Rev

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