

PhoenixTemp357.tmp.txt
SEQUENCE LISTING

<110> Ribovax Biotechnologies SA

<120> ANTIBODIES AGAINST HUMAN CYTOMEGALOVIRUS (HCMV)

<130> PAF11_wo

<160> 49

<170> PatentIn version 3.3

<210> 1

<211> 58

<212> PRT

<213> Human cytomegalovirus

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Arg Thr Thr Ser Ala Gln Thr Arg Ser Val Tyr Ser Gln His Val Thr
20 25 30

Ser Ser Glu Ala Val Ser His Arg Ala Asn Glu Thr Ile Tyr Asn Thr
35 40 45

Thr Leu Lys Tyr Gly Asp Val Val Gly Val
50 55

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<213> Human cytomegalovirus

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Ser Thr Arg Gly Thr Ser Ala Thr His Ser His His Ser Ser His Thr
1 5 10 15

Thr Ser Ala Ala His Ser Arg Ser Gly Ser Val Ser Gln Arg Val Thr
20 25 30

Ser Ser Gln Thr Val Ser His Gly Val Asn Glu Thr Ile Tyr Asn Thr
35 40 45

Thr Leu Lys Tyr Gly Asp Val Val Gly Val
50 55

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<212> PRT

<213> Human cytomegalovirus

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Leu Leu Ser His Leu Pro Ser Gln Arg Tyr Gly Ala Asp Ala Ala Ser
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Glu Ala Leu Asp Pro His Ala Phe His Leu Leu Leu Asn Thr Tyr Gly
20 25 30

Arg Pro Ile Arg Phe Leu Arg Glu Asn Thr Thr Gln Cys Thr Tyr Asn
35 40 45

Ser Ser Leu Arg Asn Ser Thr Val Val Arg Glu Asn Ala Ile Ser Phe
50 55 60

Asn Phe Phe Gln Ser Tyr Asn Gln Tyr Tyr Val Phe His Met Pro Arg
65 70 75 80

Cys Leu Phe Ala Gly Pro Leu Ala Glu Gln Phe Leu Asn Gln Val Asp
85 90 95

Leu Thr Glu Thr Leu Glu Arg Tyr Gln Gln Arg Leu Asn Thr Tyr Ala
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Lys

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cccgggaaag gcctggagtg gatgggaatc atctatcctg gtgactctga taccagatac 180
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ctgcagtgga gcagcctgaa ggcctcggac accgccatct atttctgtgc gagcacctcg 300
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<211> 132
<212> PRT
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1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Ala Asn Tyr
20 25 30

Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
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Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Phe His Thr Val Tyr
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Ile Tyr Phe Cys
85 90 95

Ala Ser Thr Ser Tyr Tyr Asp Phe Trp Ser Gly Tyr His Arg Gly Arg
100 105 110

Glu His Tyr Tyr Tyr Gly Met Glu Val Trp Gly Gln Gly Thr Thr Val
115 120 125

Ile Val Ser Ser
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<400> 6

Gly Tyr Thr Phe Ala Asn Tyr Trp
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<210> 7
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Ile Tyr Pro Gly Asp Ser Asp
1 5

<210> 8
<211> 25
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1 5 10 15

Glu His Tyr Tyr Tyr Gly Met Glu Val
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PhoenixTemp357.tmp.txt

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aggctcctca tctatgatgc atccaacagg gccactggca tcccagccag gttcagtggc      180
agtgggtctg ggacagactt cactctcacc atcagcagcc tagagcctga agattttgcg      240
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          20          25          30

Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser
          35          40          45

Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly
          50          55          60

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala
65          70          75          80

Val Tyr Tyr Cys Gln Leu Arg Arg Gly Thr Phe Gly Gln Gly Thr Lys
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Val Glu Ile Lys Arg Thr Val Ala
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Gln Ser Val Tyr Asn Tyr
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<400> 12

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Asp Ala Ser
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<400> 13

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<210> 14
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cctggacaag gacttgagt gatgggatg atcaacactt acaatggtaa cacaagtat	180
gcacagaggc tccagggcag agtcaccatg accacagaca catccacgga cacagcctac	240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gagagatggc	300
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ser
 20 25 30

Gly Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Trp Ile Asn Thr Tyr Asn Gly Asn Thr Lys Tyr Ala Gln Arg Leu
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Asp Thr Ala Tyr
 65 70 75 80

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

Ala Arg Asp Gly Leu Asn Trp Gly Trp Gly Asp Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

PhoenixTemp357.tmp.txt

<210> 16
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 16

Gly Tyr Thr Phe Thr Ser Ser Gly
 1 5

<210> 17
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 17

Ile Asn Thr Tyr Asn Gly Asn
 1 5

<210> 18
 <211> 12
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<400> 18

Ala Arg Asp Gly Leu Asn Trp Gly Trp Gly Asp Tyr
 1 5 10

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<400> 20

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

Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser
 35 40 45

Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
 50 55 60

Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala
 65 70 75 80

Ser Tyr Tyr Cys Gln Gln Cys Lys Gly Tyr Pro Tyr Thr Phe Gly Gln
 85 90 95

Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105

<210> 21
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Gln Ser Ile Ser Ser Trp
 1 5

<210> 22
 <211> 3
 <212> PRT
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<400> 22

Lys Ala Ser
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<210> 23
 <211> 8
 <212> PRT
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<400> 23

Gln Gln Cys Lys Gly Tyr Pro Tyr
 1 5

<210> 24
 <211> 131
 <212> PRT
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<400> 24

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
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Thr Leu Ser Leu Ile Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly
 20 25 30

Gly Asp Tyr Trp Thr Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu

35

Trp Leu Gly Tyr Ile His Ser Ser Gly Asn Ile Phe Tyr Asn Pro Ser
50 55 60

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

Phe Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Val Tyr His Lys Asp Phe Val Val Val Pro Gly Ala Phe
100 105 110

Pro Phe Glu Phe Trp Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr
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Val Ser Ser
130

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<212> PRT
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Pro Cys Gly Gly Asn Glu Ile Gly Ser Lys Ser Val His Trp Tyr Gln
20 25 30

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val His Asp Asp Ser Asp
35 40 45

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Asn Ser Gly Asn
50 55 60

Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Asp
65 70 75 80

Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp His His Val Val Phe
85 90 95

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PhoenixTemp357.tmp.txt

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<210> 27
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<400> 27

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Ser Leu Arg Leu Ser Cys Thr Ala Ser Arg Phe Thr Phe Ala Asp Tyr
 20 25 30

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

Gly Phe Ile Arg Ser Lys Pro Phe Gly Gly Thr Ala Ala Tyr Ala Ala
 50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ile
 65 70 75 80

Ala Tyr Leu Gln Leu Asn Arg Leu Lys Thr Glu Asp Thr Ala Val Tyr
 85 90 95

Tyr Cys Ser Arg Ala Pro Leu Ser Ser Asp Tyr Ser Pro Ser Leu Asp
 100 105 110

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

<210> 28
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Arg Phe Thr Phe Ala Asp Tyr Ala
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<210> 29
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Ile Arg Ser Lys Pro Phe Gly Gly Thr
 1 5

<210> 30

<211> 15

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 gacaggttca gtggcagtgg atcaggcaca gattttacac tgaaaatcag cagagtggag 240
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<212> PRT

<213> Homo sapiens

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 20 25 30

Tyr Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu
 35 40 45

Ile Asn Leu Gly Ser Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu
 65 70 75 80

Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gly Leu Gln Thr Pro
 85 90 95

His Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
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105

110

<210> 33
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<400> 33

Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr
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Leu Gly Ser
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Met Gln Gly Leu Gln Thr Pro His
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

20

25

30

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

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

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

Ala Lys Glu Met Arg Tyr Gly Ser Gly Arg Lys Ala Ile Lys Tyr Tyr
 100 105 110

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 38
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Gly Phe Thr Phe Ser Ser Tyr Gly
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<210> 39
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<400> 39

Ile Ser Tyr Asp Gly Ser Asn
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<210> 40
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Tyr Gly Met Asp Val
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<210> 41
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PhoenixTemp357.tmp.txt

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 gacaggttca gtggcagtgg atcagggaca gatttcacac tcgtgatcag cagagtggag 240
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 20 25 30
 Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu
 35 40 45
 Ile His Arg Val Ser Tyr Arg Phe Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Val Ile Ser Arg Val Glu
 65 70 75 80
 Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly Ser His Val Pro
 85 90 95
 Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
 100 105 110

<210> 43
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 Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr
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 Arg Val Ser
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<210> 45
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 <212> PRT
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<400> 45

Phe Gln Gly Ser His Val Pro Phe
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<210> 46
 <211> 126
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<400> 46

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
 20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Phe Lys Asn Thr Val Tyr
 65 70 75 80

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

Ala Lys Asp Asn Tyr Ser Lys Tyr Gly Val Val Arg Val Gly Tyr Gly
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120 125

<210> 47
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<400> 47

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
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Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Asp Ser Tyr
 20 25 30

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

PhoenixTemp357.tmp.txt

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Ser
65 70 75 80

Leu Gln Trp Ser Ser Leu Arg Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95

Ala Arg His Thr Tyr Pro Gly Pro Asn Ser Gly Tyr Asp Tyr Phe Glu
100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

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Ile Thr Cys Arg Ala Ser Gln Ser Ile Thr Asn Tyr Leu Asn Trp Tyr
20 25 30

Gln Gln Lys Pro Gly Lys Ala Pro Arg Leu Leu Ile Tyr Ala Ala Ser
35 40 45

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

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala
65 70 75 80

Thr Tyr Phe Cys Gln Gln Ser Tyr Ser Asn Arg Trp Thr Phe Gly Gln
85 90 95

Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala
100 105

<210> 49
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<400> 49

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1 5 10 15

Leu Ser Cys Arg Ala Ser Gln Ser Val Tyr Asn Tyr Leu Ala Trp Tyr
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20

25

30

Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Asp Ala Ser
 35 40 45

Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly
 50 55 60

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu Asp Phe Ala
 65 70 75 80

Val Tyr Tyr Cys Gln Leu Arg Arg Gly Thr Phe Gly Gln Gly Thr Lys
 85 90 95

Val Glu Ile Lys Arg Thr Val Ala
 100