

eof-seq1.txt
SEQUENCE LISTING

<110> Ribovax Biotechnologies SA
<120> ANTIBODIES AGAINST HUMAN CYTOMEGALOVIRUS (HCMV)
<130> PAF08_wo_aCMV_gX
<150> PCT/EP06/069780
<151> 2006-12-15
<150> EP07110693
<151> 2007-06-20
<160> 17
<170> PatentIn version 3.3
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<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
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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
<210> 2
<211> 58
<212> PRT
<213> Human cytomegalovirus
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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
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<210> 3
<211> 129
<212> PRT
<213> Human cytomegalovirus

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<400> 3

Leu Leu Ser His Leu Pro Ser Gln Arg Tyr Gly Ala Asp Ala Ala Ser
 1 5 10 15
 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
 100 105 110
 Leu Val Ser Lys Asp Leu Ala Ser Tyr Arg Ser Phe Pro Gln Gln Leu
 115 120 125

Lys

<210> 4
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 4
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 cagcaccag ggaagggcct ggagtggctt gggtagatcc attccagtgg gaatatcttc 180
 tacaaccggt ccctcaagag tcgactgacc ttatcaatgg acacgtctaa gaaccaattc 240
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 tggggccagg gaaccctggt caccgtctcc tca 393

<210> 5
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 5

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15

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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 40 45

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
115 120 125

Val Ser Ser
130

<210> 6
<211> 10
<212> PRT
<213> Homo sapiens

<400> 6

Gly Gly Ser Val Ser Ser Gly Gly Asp Tyr
1 5 10

<210> 7
<211> 7
<212> PRT
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<400> 7

Ile His Ser Ser Gly Asn Ile
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<210> 8
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<212> PRT
<213> Homo sapiens

<400> 8

Ala Arg Val Tyr His Lys Asp Phe Val Val Val Pro Gly Ala Phe Pro
1 5 10 15

Phe Glu Phe Trp Phe Asp Pro
20

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<210> 9
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 9
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 caggccccctg tgctggctgt ccatgatgac agcgaccggc cctcagggat ccctgaccga 180
 ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaagccggg 240
 gatgaggccg actattactg tcaggtgtgg gatagtggta gtgatcatca tgtggtattc 300
 ggcggagggg ccaagctgac cgtcctaggt 330

<210> 10
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 10
 Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln
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 Thr Ala Arg Ile Pro Cys Gly Gly Asn Glu Ile Gly Ser Lys Ser Val
 20 25 30
 His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val His
 35 40 45
 Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
 50 55 60
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly
 65 70 75 80
 Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp His
 85 90 95
 His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
 100 105 110

<210> 11
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 11
 Glu Ile Gly Ser Lys Ser
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<210> 12
 <211> 3
 <212> PRT

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<213> Homo sapiens

<400> 12

Asp Asp Ser
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<210> 13

<211> 12

<212> PRT

<213> Homo sapiens

<400> 13

Gln Val Trp Asp Ser Gly Ser Asp His His Val Val
1 5 10

<210> 14

<211> 1449

<212> DNA

<213> Artificial

<220>

<223> Recombinant 26A1 IgG1 Heavy Chain

<400> 14

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tgcactgtct ctggtggctc cgtcagcagt ggtggtgact actggacctg gatccgccag      180
caccagggga agggcctgga gtggcttggg tacatccatt ccagtgggaa tatcttctac      240
aaccctgcc tcaagagtcg actgacctta tcaatggaca cgtctaagaa ccaattcttc      300
ctgaagttga cctctgtgac tgccgcggac acggccgtat attactgtgc gagagtctat      360
cataaggatt ttgtagtagt accaggtgct ttcccctttg aattctgggt cgaccctgg      420
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ttcccctgg caccctctc caagagcacc tctgggggca cagcggccct gggctgcctg      540
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gtgaccgtgc cctccagcag cttgggcacc cagacctaca tctgcaacgt gaatcacaag      720
cccagcaaca ccaaggtgga caagaaagtt gagcccaaat cttgtgacaa aactcacaca      780
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aaaccaag acaccctcat gatctcccg acccctgagg tcacatgcgt ggtggtggac      900
gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat      960
aatgccaaga caaagccg cgaggagcag tacaacagca cgtaccgggt ggtcagcgtc     1020
ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac     1080
aaagccctcc cagccccat cgagaaaacc atctccaaag ccaaagggca gccccgagaa     1140
ccacaggtgt acaccctgcc cccatcccg gatgagctga ccaagaacca ggtcagcctg     1200
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cagccggaga acaactacaa gaccacgct cccgtgctgg actccgacgg ctcttcttc 1320
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<210> 15
 <211> 482
 <212> PRT
 <213> Artificial

<220>
 <223> Recombinant 26A1 IgG1 Heavy Chain

<400> 15

Met Asn Ile Leu Trp Ser Met Leu Leu Leu Val Ala Ala Pro Arg Trp
 1 5 10 15

Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys
 20 25 30

Pro Ser Gln Thr Leu Ser Leu Ile Cys Thr Val Ser Gly Gly Ser Val
 35 40 45

Ser Ser Gly Gly Asp Tyr Trp Thr Trp Ile Arg Gln His Pro Gly Lys
 50 55 60

Gly Leu Glu Trp Leu Gly Tyr Ile His Ser Ser Gly Asn Ile Phe Tyr
 65 70 75 80

Asn Pro Ser Leu Lys Ser Arg Leu Thr Leu Ser Met Asp Thr Ser Lys
 85 90 95

Asn Gln Phe Phe Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala
 100 105 110

Val Tyr Tyr Cys Ala Arg Val Tyr His Lys Asp Phe Val Val Val Pro
 115 120 125

Gly Ala Phe Pro Phe Glu Phe Trp Phe Asp Pro Trp Gly Gln Gly Thr
 130 135 140

Leu Val Thr Val Ser Ser Gly Ser Ala Ser Thr Lys Gly Pro Ser Val
 145 150 155 160

Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
 165 170 175

Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser
 180 185 190

Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val

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195

200

205

Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro
 210 215 220

Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys
 225 230 235 240

Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp
 245 250 255

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly
 260 265 270

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 275 280 285

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
 290 295 300

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 305 310 315 320

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
 325 330 335

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 340 345 350

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
 355 360 365

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 370 375 380

Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu
 385 390 395 400

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 405 410 415

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 420 425 430

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
 435 440 445

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
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Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
 465 470 475 480

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Gly Lys

<210> 16
<211> 705
<212> DNA
<213> Artificial

<220>
<223> Recombinant 26A1 IgG1 Light Chain

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tgtgggggga acgagattgg aagtaagagt gtccactggt accagcagaa gccaggccag 180
gccctgtgc tggctgtcca tgatgacagc gaccggccct cagggatccc tgaccgattc 240
tctggctcca actctgggaa cacggccacc ctgaccatca gcagggtcga agccggggat 300
gaggccgact attactgtca ggtgtgggat agtggtagtg atcatcatgt ggtattcggc 360
ggaggacca agctgaccgt cctaggtcag cccaaggctg cccctcgggt cactctgttc 420
ccgccctcct ctgaggagct tcaagccaac aaggccacac tgggtgtgtct cataagtgac 480
ttctaccgg gagccgtgac agtggcctgg aaggcagata gcagccccgt caaggcggga 540
gtggagacca ccacaccctc caaacaagc aacaacaagt acgcggccag cagctatctg 600
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<210> 17
<211> 234
<212> PRT
<213> Artificial

<220>
<223> Recombinant 26A1 IgG1 Light Chain

<400> 17

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Ser Val Thr Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala
20 25 30
Pro Gly Gln Thr Ala Arg Ile Pro Cys Gly Gly Asn Glu Ile Gly Ser
35 40 45
Lys Ser Val His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu
50 55 60
Val Val His Asp Asp Ser Asp Arg Pro Ser Gly Ile Pro Asp Arg Phe
65 70 75 80

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Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val
85 90 95

Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Ser Gly
100 105 110

Ser Asp His His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
115 120 125

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser
130 135 140

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
145 150 155 160

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
165 170 175

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
180 185 190

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
195 200 205

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
210 215 220

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
225 230