

P66201PC_ST25
SEQUENCE LISTING

<110> Rheinische Friedrich-Wilhelms-Universität Bonn
Universität Duisburg-Essen

<120> Anti-HSV antibody

<130> P66201PC

<160> 54

<170> PatentIn version 3.5

<210> 1
<211> 7
<212> PRT
<213> artificial

<220>
<223> 2cVH CDR1

<400> 1
Thr Ser Gly Met Ser Val Gly
1 5

<210> 2
<211> 16
<212> PRT
<213> artificial

<220>
<223> 2cVH CDR2

<400> 2
His Ile Trp Trp Asn Asn Asp Lys Tyr Tyr Lys Pro Ala Leu Lys Ser
1 5 10 15

<210> 3
<211> 12
<212> PRT
<213> artificial

<220>
<223> 2cVH CDR3

<400> 3
Ile Tyr Tyr Gly Tyr Arg Pro Tyr Ala Met Asp Tyr
1 5 10

<210> 4
<211> 16
<212> PRT
<213> artificial

<220>
<223> 2cVL CDR1

<400> 4
Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu
1 5 10 15

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<210> 5
 <211> 7
 <212> PRT
 <213> artificial

<220>
 <223> 2cVL CDR2

<400> 5

Lys Val Ser Asn Arg Phe Ser
 1 5

<210> 6
 <211> 9
 <212> PRT
 <213> artificial

<220>
 <223> 2cVL CDR3

<400> 6

Phe Gln Gly Ser His Val Pro Trp Ser
 1 5

<210> 7
 <211> 122
 <212> PRT
 <213> artificial

<220>
 <223> human germline VH framework

<220>
 <221> misc_feature
 <222> (100)..(107)
 <223> Xaa can be any naturally occurring amino acid

<400> 7

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

Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
 20 25 30

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

Trp Leu Ala Arg Ile Asp Trp Asp Asp Asp Lys Phe Tyr Ser Thr Ser
 50 55 60

Leu Lys Thr Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val
 65 70 75 80

Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95

Cys Ala Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Phe Asp Tyr Trp

100 P66201PC_ST25 110
105

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

<210> 8
<211> 114
<212> PRT
<213> artificial

<220>
<223> human germline VL framework

<400> 8

Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asp Ser
20 25 30

Asp Asp Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln
35 40 45

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

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln
85 90 95

Arg Ile Glu Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
100 105 110

Lys Arg

<210> 9
<211> 122
<212> PRT
<213> artificial

<220>
<223> VH of 2c antibody

<400> 9

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

Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu Ser Thr Ser
20 25 30

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

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Trp Leu Gly His Ile Trp Trp Asn Asn Asp Lys Tyr Tyr Lys Pro Ala
50 55 60

Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Asn Lys Gln Val
65 70 75 80

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

Cys Ala Arg Ile Tyr Tyr Gly Tyr Arg Pro Tyr Ala Met Asp Tyr Trp
100 105 110

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

<210> 10
<211> 113
<212> PRT
<213> artificial

<220>
<223> VL of 2c antibody

<400> 10

Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
1 5 10 15

Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30

Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

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

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95

Ser His Val Pro Trp Ser Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

Arg

<210> 11
<211> 903
<212> PRT
<213> HSV1 strain F

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<400> 11

Met Arg Gln Gly Ala Ala Arg Gly Cys Arg Trp Phe Val Val Trp Ala
 1 5 10 15
 Leu Leu Gly Leu Thr Leu Gly Val Leu Val Ala Ser Ala Ala Pro Ser
 20 25 30
 Ser Pro Gly Thr Pro Gly Val Ala Ala Ala Thr Gln Ala Ala Asn Gly
 35 40 45
 Gly Pro Ala Thr Pro Ala Pro Pro Ala Pro Gly Pro Ala Pro Thr Gly
 50 55 60
 Asp Thr Lys Pro Lys Lys Asn Lys Lys Pro Lys Asn Pro Pro Pro Pro
 65 70 75 80
 Arg Pro Ala Gly Asp Asn Ala Thr Val Ala Ala Gly His Ala Thr Leu
 85 90 95
 Arg Glu His Leu Arg Asp Ile Lys Ala Glu Asn Thr Asp Ala Asn Phe
 100 105 110
 Tyr Val Cys Pro Pro Pro Thr Gly Ala Thr Val Val Gln Phe Glu Gln
 115 120 125
 Pro Arg Arg Cys Pro Thr Arg Pro Glu Gly Gln Asn Tyr Thr Glu Gly
 130 135 140
 Ile Ala Val Val Phe Lys Glu Asn Ile Ala Pro Tyr Lys Phe Lys Ala
 145 150 155 160
 Thr Met Tyr Tyr Lys Asp Val Thr Val Ser Gln Val Trp Phe Gly His
 165 170 175
 Arg Tyr Ser Gln Phe Met Gly Ile Phe Glu Asp Arg Ala Pro Val Pro
 180 185 190
 Phe Glu Glu Val Ile Asp Lys Ile Asn Ala Lys Gly Val Cys Arg Ser
 195 200 205
 Thr Ala Lys Tyr Val Arg Asn Asn Leu Glu Thr Thr Ala Phe His Arg
 210 215 220
 Asp Asp His Glu Thr Asp Met Glu Leu Lys Pro Ala Asn Ala Ala Thr
 225 230 235 240
 Arg Thr Ser Arg Gly Trp His Thr Thr Asp Leu Lys Tyr Asn Pro Ser
 245 250 255
 Arg Val Glu Ala Phe His Arg Tyr Gly Thr Thr Val Asn Cys Ile Val
 260 265 270

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Glu Glu Val Asp Ala Arg Ser Val Tyr Pro Tyr Asp Glu Phe Val Leu
 275 280 285
 Ala Thr Gly Asp Phe Val Tyr Met Ser Pro Phe Tyr Gly Tyr Arg Glu
 290 300
 Gly Ser His Thr Glu His Thr Ser Tyr Ala Ala Asp Arg Phe Lys Gln
 305 310 315 320
 Val Asp Gly Phe Tyr Ala Arg Asp Leu Thr Thr Lys Ala Arg Ala Thr
 325 330 335
 Ala Pro Thr Thr Arg Asn Leu Leu Thr Thr Pro Lys Phe Thr Val Ala
 340 345 350
 Trp Asp Trp Val Pro Lys Arg Pro Ser Val Cys Thr Met Thr Lys Trp
 355 360 365
 Gln Glu Val Asp Glu Met Leu Arg Ser Glu Tyr Gly Gly Ser Phe Arg
 370 375 380
 Phe Ser Ser Asp Ala Ile Ser Thr Thr Phe Thr Thr Asn Leu Thr Glu
 385 390 395 400
 Tyr Pro Leu Ser Arg Val Asp Leu Gly Asp Cys Ile Gly Lys Asp Ala
 405 410 415
 Arg Asp Ala Met Asp Arg Ile Phe Ala Arg Arg Tyr Asn Ala Thr His
 420 425 430
 Ile Lys Val Gly Gln Pro Gln Tyr Tyr Leu Ala Asn Gly Gly Phe Leu
 435 440 445
 Ile Ala Tyr Gln Pro Leu Leu Ser Asn Thr Leu Ala Glu Leu Tyr Val
 450 455 460
 Arg Glu His Leu Arg Glu Gln Ser Arg Lys Pro Pro Asn Pro Thr Pro
 465 470 475 480
 Pro Pro Pro Gly Ala Ser Ala Asn Ala Ser Val Glu Arg Ile Lys Thr
 485 490 495
 Thr Ser Ser Ile Glu Phe Ala Arg Leu Gln Phe Thr Tyr Asn His Ile
 500 505 510
 Gln Arg His Val Asn Asp Met Leu Gly Arg Val Ala Ile Ala Trp Cys
 515 520 525
 Glu Leu Gln Asn His Glu Leu Thr Leu Trp Asn Glu Ala Arg Lys Leu
 530 535 540

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Asn Pro Asn Ala Ile Ala Ser Ala Thr Val Gly Arg Arg Val Ser Ala
 545 550 555 560
 Arg Met Leu Gly Asp Val Met Ala Val Ser Thr Cys Val Pro Val Ala
 565 570 575
 Ala Asp Asn Val Ile Val Gln Asn Ser Met Arg Ile Ser Ser Arg Pro
 580 585 590
 Gly Ala Cys Tyr Ser Arg Pro Leu Val Ser Phe Arg Tyr Glu Asp Gln
 595 600 605
 Gly Pro Leu Val Glu Gly Gln Leu Gly Glu Asn Asn Glu Leu Arg Leu
 610 615 620
 Thr Arg Asp Ala Ile Glu Pro Cys Thr Val Gly His Arg Arg Tyr Phe
 625 630 635 640
 Thr Phe Gly Gly Gly Tyr Val Tyr Phe Glu Glu Tyr Ala Tyr Ser His
 645 650 655
 Gln Leu Ser Arg Ala Asp Ile Thr Thr Val Ser Thr Phe Ile Asp Leu
 660 665 670
 Asn Ile Thr Met Leu Glu Asp His Glu Phe Val Pro Leu Glu Val Tyr
 675 680 685
 Thr Arg His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu Val
 690 695 700
 Gln Arg Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp Thr
 705 710 715 720
 Val Ile His Ala Asp Ala Asn Ala Ala Met Phe Ala Gly Leu Gly Ala
 725 730 735
 Phe Phe Glu Gly Met Gly Asp Leu Gly Arg Ala Val Gly Lys Val Val
 740 745 750
 Met Gly Ile Val Gly Gly Val Val Ser Ala Val Ser Gly Val Ser Ser
 755 760 765
 Phe Met Ser Asn Pro Phe Gly Ala Leu Ala Val Gly Leu Leu Val Leu
 770 775 780
 Ala Gly Leu Ala Ala Ala Phe Phe Ala Phe Arg Tyr Val Met Arg Leu
 785 790 795 800
 Gln Ser Asn Pro Met Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu Leu
 805 810 815
 Lys Asn Pro Thr Asn Pro Asp Ala Ser Gly Glu Gly Glu Glu Gly Gly

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820 825 830

Asp Phe Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg Tyr
 835 840 845

Met Ala Leu val Ser Ala Met Glu Arg Thr Glu His Lys Ala Lys Lys
 850 855 860

Lys Gly Thr Ser Ala Leu Leu Ser Ala Lys val Thr Asp Met Val Met
 865 870 875 880

Arg Lys Arg Arg Asn Thr Asn Tyr Thr Gln val Pro Asn Lys Asp Gly
 885 890 895

Asp Ala Asp Glu Asp Asp Leu
 900

<210> 12
 <211> 904
 <212> PRT
 <213> HSV1 strain KOS

<400> 12

Met His Gln Gly Ala Pro Ser Trp Gly Arg Arg Trp Phe Val Val Trp
 1 5 10 15

Ala Leu Leu Gly Leu Thr Leu Gly val Leu val Ala Ser Ala Ala Pro
 20 25 30

Thr Ser Pro Gly Thr Pro Gly val Ala Ala Ala Thr Gln Ala Ala Asn
 35 40 45

Gly Gly Pro Ala Thr Pro Ala Pro Pro Pro Leu Gly Ala Ala Pro Thr
 50 55 60

Gly Asp Pro Lys Pro Lys Lys Asn Lys Lys Pro Lys Asn Pro Thr Pro
 65 70 75 80

Pro Arg Pro Ala Gly Asp Asn Ala Thr val Ala Ala Gly His Ala Thr
 85 90 95

Leu Arg Glu His Leu Arg Asp Ile Lys Ala Glu Asn Thr Asp Ala Asn
 100 105 110

Phe Tyr val Cys Pro Pro Pro Thr Gly Ala Thr val val Gln Phe Glu
 115 120 125

Gln Pro Arg Arg Cys Pro Thr Arg Pro Glu Gly Gln Asn Tyr Thr Glu
 130 135 140

Gly Ile Ala val val phe Lys Glu Asn Ile Ala Pro Tyr Lys Phe Lys
 145 150 155 160

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

His Arg Tyr Ser Gln Phe Met Gly Ile Phe Glu Asp Arg Ala Pro Val
180 185 190

Pro Phe Glu Glu Val Ile Asp Lys Ile Asn Ala Lys Gly Val Cys Arg
195 200 205

Ser Thr Ala Lys Tyr Val Arg Asn Asn Leu Glu Thr Thr Ala Phe His
210 215 220

Arg Asp Asp His Glu Thr Asp Met Glu Leu Lys Pro Ala Asn Ala Ala
225 230 235 240

Thr Arg Thr Ser Arg Gly Trp His Thr Thr Asp Leu Lys Tyr Asn Pro
245 250 255

Ser Arg Val Glu Ala Phe His Arg Tyr Gly Thr Thr Val Asn Cys Ile
260 265 270

Val Glu Glu Val Asp Ala Arg Ser Val Tyr Pro Tyr Asp Glu Phe Val
275 280 285

Leu Ala Thr Gly Asp Phe Val Tyr Met Ser Pro Phe Tyr Gly Tyr Arg
290 295 300

Glu Gly Ser His Thr Glu His Thr Thr Tyr Ala Ala Asp Arg Phe Lys
305 310 315 320

Gln Val Asp Gly Phe Tyr Ala Arg Asp Leu Thr Thr Lys Ala Arg Ala
325 330 335

Thr Ala Pro Thr Thr Arg Asn Leu Leu Thr Thr Pro Lys Phe Thr Val
340 345 350

Ala Trp Asp Trp Val Pro Lys Arg Pro Ser Val Cys Thr Met Thr Lys
355 360 365

Trp Gln Glu Val Asp Glu Met Leu Arg Ser Glu Tyr Gly Gly Ser Phe
370 375 380

Arg Phe Ser Ser Asp Ala Ile Ser Thr Thr Phe Thr Thr Asn Leu Thr
385 390 395 400

Glu Tyr Pro Leu Ser Arg Val Asp Leu Gly Asp Cys Ile Gly Lys Asp
405 410 415

Ala Arg Asp Ala Met Asp Arg Ile Phe Ala Arg Arg Tyr Asn Ala Thr
420 425 430

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His Ile Lys Val Gly Gln Pro Gln Tyr Tyr Gln Ala Asn Gly Gly Phe
435 440 445

Leu Ile Ala Tyr Gln Pro Leu Leu Ser Asn Thr Leu Ala Glu Leu Tyr
450 455 460

Val Arg Glu His Leu Arg Glu Gln Ser Arg Lys Pro Pro Asn Pro Thr
465 470 475 480

Pro Pro Pro Pro Gly Ala Ser Ala Asn Ala Ser Val Glu Arg Ile Lys
485 490 495

Thr Thr Ser Ser Ile Glu Phe Ala Arg Leu Gln Phe Thr Tyr Asn His
500 505 510

Ile Gln Arg His Val Asn Asp Met Leu Gly Arg Val Ala Ile Ala Trp
515 520 525

Cys Glu Leu Gln Asn His Glu Leu Thr Leu Trp Asn Glu Ala Arg Lys
530 535 540

Leu Asn Pro Asn Ala Ile Ala Ser Val Thr Val Gly Arg Arg Val Ser
545 550 555 560

Ala Arg Met Leu Gly Asp Val Met Ala Val Ser Thr Cys Val Pro Val
565 570 575

Ala Ala Asp Asn Val Ile Val Gln Asn Ser Met Arg Ile Ser Ser Arg
580 585 590

Pro Gly Ala Cys Tyr Ser Arg Pro Leu Val Ser Phe Arg Tyr Glu Asp
595 600 605

Gln Gly Pro Leu Val Glu Gly Gln Leu Gly Glu Asn Asn Glu Leu Arg
610 615 620

Leu Thr Arg Asp Ala Ile Glu Pro Cys Thr Val Gly His Arg Arg Tyr
625 630 635 640

Phe Thr Phe Gly Gly Gly Tyr Val Tyr Phe Glu Glu Tyr Ala Tyr Ser
645 650 655

His Gln Leu Ser Arg Ala Asp Ile Thr Thr Val Ser Thr Phe Ile Asp
660 665 670

Leu Asn Ile Thr Met Leu Glu Asp His Glu Phe Val Pro Leu Glu Val
675 680 685

Tyr Thr Arg His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu
690 695 700

Val Gln Arg Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp

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Gly Gly Pro Ala Thr Pro Ala Pro Pro Ala Leu Gly Ala Ala Pro Thr
50 55 60

Gly Asp Pro Lys Pro Lys Lys Asn Lys Lys Pro Lys Asn Pro Thr Pro
65 70 75 80

Pro Arg Pro Ala Gly Asp Asn Ala Thr Val Ala Ala Gly His Ala Thr
85 90 95

Leu Arg Glu His Leu Arg Asp Ile Lys Ala Glu Asn Thr Asp Ala Asn
100 105 110

Phe Tyr Val Cys Pro Pro Pro Thr Gly Ala Thr Val Val Gln Phe Glu
115 120 125

Gln Pro Arg Arg Cys Pro Thr Arg Pro Glu Gly Gln Asn Tyr Thr Glu
130 135 140

Gly Ile Ala Val Val Phe Lys Glu Asn Ile Ala Pro Tyr Lys Phe Lys
145 150 155 160

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

His Arg Tyr Ser Gln Phe Met Gly Ile Phe Glu Asp Arg Ala Pro Val
180 185 190

Pro Phe Glu Glu Val Ile Asp Lys Ile Asn Ala Lys Gly Val Cys Arg
195 200 205

Ser Thr Ala Lys Tyr Val Arg Asn Asn Leu Glu Thr Thr Ala Phe His
210 215 220

Arg Asp Asp His Glu Thr Asp Met Glu Leu Lys Pro Ala Asn Ala Ala
225 230 235 240

Thr Arg Thr Ser Arg Gly Trp His Thr Thr Asp Leu Lys Tyr Asn Pro
245 250 255

Ser Arg Val Glu Ala Phe His Arg Tyr Gly Thr Thr Val Asn Cys Ile
260 265 270

Val Glu Glu Val Asp Ala Arg Ser Val Tyr Pro Tyr Asp Glu Phe Val
275 280 285

Leu Ala Thr Gly Asp Phe Val Tyr Met Ser Pro Phe Tyr Gly Tyr Arg
290 295 300

Glu Gly Ser His Thr Glu His Thr Ser Tyr Ala Ala Asp Arg Phe Lys
305 310 315 320

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Gln Val Asp Gly Phe Tyr Ala Arg Asp Leu Thr Thr Lys Ala Arg Ala
325 330 335

Thr Ala Pro Thr Thr Arg Asn Leu Leu Thr Thr Pro Lys Phe Thr Val
340 345 350

Ala Trp Asp Trp Val Pro Lys Arg Pro Ser Val Cys Thr Met Thr Lys
355 360 365

Trp Gln Glu Val Asp Glu Met Leu Arg Ser Glu Tyr Gly Gly Ser Phe
370 375 380

Arg Phe Ser Ser Asp Ala Ile Ser Thr Thr Phe Thr Thr Asn Leu Thr
385 390 395 400

Glu Tyr Pro Leu Ser Arg Val Asp Leu Gly Asp Cys Ile Gly Lys Asp
405 410 415

Ala Arg Asp Ala Met Asp Arg Ile Phe Ala Arg Arg Tyr Asn Ala Thr
420 425 430

His Ile Lys Val Gly Gln Pro Gln Tyr Tyr Leu Ala Asn Gly Gly Phe
435 440 445

Leu Ile Ala Tyr Gln Pro Leu Leu Ser Asn Thr Leu Ala Glu Leu Tyr
450 455 460

Val Arg Glu His Leu Arg Glu Gln Ser Arg Lys Pro Pro Asn Pro Thr
465 470 475 480

Pro Pro Pro Pro Gly Ala Ser Ala Asn Ala Ser Val Glu Arg Ile Lys
485 490 495

Thr Thr Ser Ser Ile Glu Phe Ala Arg Leu Gln Phe Thr Tyr Asn His
500 505 510

Ile Gln His His Val Asn Asp Met Leu Gly Arg Val Ala Ile Ala Trp
515 520 525

Cys Glu Leu Gln Asn His Glu Leu Thr Leu Trp Asn Glu Ala Arg Lys
530 535 540

Leu Asn Pro Asn Ala Ile Ala Ser Val Thr Val Gly Arg Arg Val Ser
545 550 555 560

Ala Arg Met Leu Gly Asp Val Met Ala Val Ser Thr Cys Val Pro Val
565 570 575

Ala Ala Asp Asn Val Ile Val Gln Asn Ser Met Arg Ile Ser Ser Arg
580 585 590

Pro Gly Ala Cys Tyr Ser Arg Pro Leu Val Ser Phe Arg Tyr Glu Asp

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595 600 605
 Gln Gly Pro Leu Val Glu Gly Gln Leu Gly Glu Asn Asn Glu Leu Arg
 610 615 620
 Leu Thr Arg Asp Ala Ile Glu Pro Cys Thr Val Gly His Arg Arg Tyr
 625 630 635 640
 Phe Thr Phe Gly Gly Tyr Val Tyr Phe Glu Glu Tyr Ala Tyr Ser
 645 650 655
 His Gln Leu Ser Arg Ala Asp Ile Thr Thr Val Ser Thr Phe Ile Asp
 660 665 670
 Leu Asn Ile Thr Met Leu Glu Asp His Glu Phe Val Pro Leu Glu Val
 675 680 685
 Tyr Thr Arg His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu
 690 695 700
 Val Gln Arg Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp
 705 710 715 720
 Thr Val Ile His Ala Asp Ala Asn Ala Ala Met Phe Ala Gly Leu Gly
 725 730 735
 Ala Phe Phe Glu Gly Met Gly Asp Leu Gly Arg Ala Val Gly Lys Val
 740 745 750
 Val Met Gly Ile Val Gly Gly Val Val Ser Ala Val Ser Gly Val Ser
 755 760 765
 Ser Phe Met Ser Asn Pro Phe Gly Ala Leu Ala Val Gly Leu Leu Val
 770 775 780
 Leu Ala Gly Leu Ala Ala Ala Phe Phe Ala Phe Arg Tyr Val Met Arg
 785 790 795 800
 Leu Gln Ser Asn Pro Met Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu
 805 810 815
 Leu Lys Asn Pro Thr Asn Pro Asp Ala Ser Gly Glu Gly Glu Glu Gly
 820 825 830
 Gly Asp Phe Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg
 835 840 845
 Tyr Met Ala Leu Val Ser Ala Met Glu Arg Thr Glu His Lys Ala Lys
 850 855 860
 Lys Lys Gly Thr Ser Ala Leu Leu Ser Ala Lys Val Thr Asp Met Val
 865 870 875 880

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Met Arg Lys Arg Arg Asn Thr Asn Tyr Thr Gln Val Pro Asn Lys Asp
885 890 895

Gly Asp Ala Asp Glu Asp Asp Leu
900

<210> 14
<211> 904
<212> PRT
<213> HSV2 strain HG52

<400> 14

Met Arg Gly Gly Gly Leu Ile Cys Ala Leu Val Val Gly Ala Leu Val
1 5 10 15

Ala Ala Val Ala Ser Ala Ala Pro Ala Ala Pro Ala Ala Pro Arg Ala
20 25 30

Ser Gly Gly Val Ala Ala Thr Val Ala Ala Asn Gly Gly Pro Ala Ser
35 40 45

Arg Pro Pro Pro Val Pro Ser Pro Ala Thr Thr Lys Ala Arg Lys Arg
50 55 60

Lys Thr Lys Lys Pro Pro Lys Arg Pro Glu Ala Thr Pro Pro Pro Asp
65 70 75 80

Ala Asn Ala Thr Val Ala Ala Gly His Ala Thr Leu Arg Ala His Leu
85 90 95

Arg Glu Ile Lys Val Glu Asn Ala Asp Ala Gln Phe Tyr Val Cys Pro
100 105 110

Pro Pro Thr Gly Ala Thr Val Val Gln Phe Glu Gln Pro Arg Arg Cys
115 120 125

Pro Thr Arg Pro Glu Gly Gln Asn Tyr Thr Glu Gly Ile Ala Val Val
130 135 140

Phe Lys Glu Asn Ile Ala Pro Tyr Lys Phe Lys Ala Thr Met Tyr Tyr
145 150 155 160

Lys Asp Val Thr Val Ser Gln Val Trp Phe Gly His Arg Tyr Ser Gln
165 170 175

Phe Met Gly Ile Phe Glu Asp Arg Ala Pro Val Pro Phe Glu Glu Val
180 185 190

Ile Asp Lys Ile Asn Thr Lys Gly Val Cys Arg Ser Thr Ala Lys Tyr
195 200 205

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Val Arg Asn Asn Met Glu Thr Thr Ala Phe His Arg Asp Asp His Glu
210 215 220

Thr Asp Met Glu Leu Lys Pro Ala Lys Val Ala Thr Arg Thr Ser Arg
225 230 235 240

Gly Trp His Thr Thr Asp Leu Lys Tyr Asn Pro Ser Arg Val Glu Ala
245 250 255

Phe His Arg Tyr Gly Thr Thr Val Asn Cys Ile Val Glu Glu Val Asp
260 265 270

Ala Arg Ser Val Tyr Pro Tyr Asp Glu Phe Val Leu Ala Thr Gly Asp
275 280 285

Phe Val Tyr Met Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr
290 295 300

Glu His Thr Ser Tyr Ala Ala Asp Arg Phe Lys Gln Val Asp Gly Phe
305 310 315 320

Tyr Ala Arg Asp Leu Thr Thr Lys Ala Arg Ala Thr Ser Pro Thr Thr
325 330 335

Arg Asn Leu Leu Thr Thr Pro Lys Phe Thr Val Ala Trp Asp Trp Val
340 345 350

Pro Lys Arg Pro Ala Val Cys Thr Met Thr Lys Trp Gln Glu Val Asp
355 360 365

Glu Met Leu Arg Ala Glu Tyr Gly Gly Ser Phe Arg Phe Ser Ser Asp
370 375 380

Ala Ile Ser Thr Thr Phe Thr Thr Asn Leu Thr Glu Tyr Ser Leu Ser
385 390 395 400

Arg Val Asp Leu Gly Asp Cys Ile Gly Arg Asp Ala Arg Glu Ala Ile
405 410 415

Asp Arg Met Phe Ala Arg Lys Tyr Asn Ala Thr His Ile Lys Val Gly
420 425 430

Gln Pro Gln Tyr Tyr Leu Ala Thr Gly Gly Phe Leu Ile Ala Tyr Gln
435 440 445

Pro Leu Leu Ser Asn Thr Leu Ala Glu Leu Tyr Val Arg Glu Tyr Met
450 455 460

Arg Glu Gln Asp Arg Lys Pro Arg Asn Ala Thr Pro Ala Pro Leu Arg
465 470 475 480

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490

485

495

Ser Ile Glu Phe Ala Arg Leu Gln Phe Thr Tyr Asn His Ile Gln Arg
500 505 510

His Val Asn Asp Met Leu Gly Arg Ile Ala Val Ala Trp Cys Glu Leu
515 520 525

Gln Asn His Glu Leu Thr Leu Trp Asn Glu Ala Arg Lys Leu Asn Pro
530 535 540

Asn Ala Ile Ala Ser Ala Thr Val Gly Arg Arg Val Ser Ala Arg Met
545 550 555 560

Leu Gly Asp Val Met Ala Val Ser Thr Cys Val Pro Val Ala Pro Asp
565 570 575

Asn Val Ile Val Gln Asn Ser Met Arg Val Ser Ser Arg Pro Gly Thr
580 585 590

Cys Tyr Ser Arg Pro Leu Val Ser Phe Arg Tyr Glu Asp Gln Gly Pro
595 600 605

Leu Ile Glu Gly Gln Leu Gly Glu Asn Asn Glu Leu Arg Leu Thr Arg
610 615 620

Asp Ala Leu Glu Pro Cys Thr Val Gly His Arg Arg Tyr Phe Ile Phe
625 630 635 640

Gly Gly Gly Tyr Val Tyr Phe Glu Glu Tyr Ala Tyr Ser His Gln Leu
645 650 655

Ser Arg Ala Asp Val Thr Thr Val Ser Thr Phe Ile Asp Leu Asn Ile
660 665 670

Thr Met Leu Glu Asp His Glu Phe Val Pro Leu Glu Val Tyr Thr Arg
675 680 685

His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu Val Gln Arg
690 695 700

Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp Thr Val Ile
705 710 715 720

Arg Ala Asp Ala Asn Ala Ala Met Phe Ala Gly Leu Cys Ala Phe Phe
725 730 735

Glu Gly Met Gly Asp Leu Gly Arg Ala Val Gly Lys Val Val Met Gly
740 745 750

Val Val Gly Gly Val Val Ser Ala Val Ser Gly Val Ser Ser Phe Met
755 760 765

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Ser Asn Pro Phe Gly Ala Leu Ala Val Gly Leu Leu Val Leu Ala Gly
770 775 780

Leu Val Ala Ala Phe Phe Ala Phe Arg Tyr Val Leu Gln Leu Gln Arg
785 790 795 800

Asn Pro Met Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu Leu Lys Thr
805 810 815

Ser Asp Pro Gly Gly Val Gly Gly Glu Gly Glu Glu Gly Ala Glu Gly
820 825 830

Gly Gly Phe Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg
835 840 845

Tyr Met Ala Leu Val Ser Ala Met Glu Arg Thr Glu His Lys Ala Arg
850 855 860

Lys Lys Gly Thr Ser Ala Leu Leu Ser Ser Lys Val Thr Asn Met Val
865 870 875 880

Leu Arg Lys Arg Asn Lys Ala Arg Tyr Ser Pro Leu His Asn Glu Asp
885 890 895

Glu Ala Gly Asp Glu Asp Glu Leu
900

<210> 15
<211> 904
<212> PRT
<213> HSV2 strain 333

<400> 15

Met Arg Gly Gly Gly Leu Ile Cys Ala Leu Val Val Gly Ala Leu Val
1 5 10 15

Ala Ala Val Ala Ser Ala Ala Pro Ala Ala Pro Ala Ala Pro Arg Ala
20 25 30

Ser Gly Gly Val Ala Ala Thr Val Ala Ala Asn Gly Gly Pro Ala Ser
35 40 45

Arg Pro Pro Pro Val Pro Ser Pro Ala Thr Thr Lys Ala Arg Lys Arg
50 55 60

Lys Thr Lys Lys Pro Pro Lys Arg Pro Glu Ala Thr Pro Pro Pro Asp
65 70 75 80

Ala Asn Ala Thr Val Ala Ala Gly His Ala Thr Leu Arg Ala His Leu
85 90 95

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Arg Glu Ile Lys val Glu Asn Ala Asp Ala Gln Phe Tyr Val Cys Pro
100 105 110

Pro Pro Thr Gly Ala Thr Val Val Gln Phe Glu Gln Pro Arg Arg Cys
115 120 125

Pro Thr Arg Pro Glu Gly Gln Asn Tyr Thr Glu Gly Ile Ala Val Val
130 135 140

Phe Lys Glu Asn Ile Ala Pro Tyr Lys Phe Lys Ala Thr Met Tyr Tyr
145 150 155 160

Lys Asp val Thr val Ser Gln Val Trp Phe Gly His Arg Tyr Ser Gln
165 170 175

Phe Met Gly Ile Phe Glu Asp Arg Ala Pro Val Pro Phe Glu Glu Val
180 185 190

Ile Asp Lys Ile Asn Ala Lys Gly Val Cys Arg Ser Thr Ala Lys Tyr
195 200 205

Val Arg Asn Asn Met Glu Thr Thr Ala Phe His Arg Asp Asp His Glu
210 215 220

Thr Asp Met Glu Leu Lys Pro Ala Lys Val Ala Thr Arg Thr Ser Arg
225 230 235 240

Gly Trp His Thr Thr Asp Leu Lys Tyr Asn Pro Ser Arg Val Glu Ala
245 250 255

Phe His Arg Tyr Gly Thr Thr Val Thr Cys Ile Val Glu Glu Val Asp
260 265 270

Ala Arg Ser Val Tyr Pro Tyr Asp Glu Phe Val Leu Ala Thr Gly Asp
275 280 285

Phe val Tyr Met Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr
290 295 300

Glu His Thr Ser Tyr Ala Ala Asp Arg Phe Lys Gln Val Asp Gly Phe
305 310 315 320

Tyr Ala Arg Asp Leu Thr Thr Lys Ala Arg Ala Thr Ser Pro Thr Thr
325 330 335

Arg Asn Leu Leu Thr Thr Pro Lys Phe Thr Val Ala Trp Asp Trp Val
340 345 350

Pro Lys Arg Pro Ala Val Cys Thr Met Thr Lys Trp Gln Glu Val Asp
355 360 365

Glu Met Leu Arg Ala Glu Tyr Gly Gly Ser Phe Arg Phe Ser Ser Asp

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380

370 375
Ala Ile Ser Thr Thr Phe Thr Thr Asn Leu Thr Gln Tyr Ser Leu Ser
385 390 395 400
Arg Val Asp Leu Gly Asp Cys Ile Gly Arg Asp Ala Arg Glu Ala Ile
405 410 415
Asp Arg Met Phe Ala Arg Lys Tyr Asn Ala Thr His Ile Lys Val Gly
420 425 430
Gln Pro Gln Tyr Tyr Leu Ala Thr Gly Gly Phe Leu Ile Ala Tyr Gln
435 440 445
Pro Leu Leu Ser Asn Thr Leu Ala Glu Leu Tyr Val Arg Glu Tyr Met
450 455 460
Arg Glu Gln Asp Arg Lys Pro Arg Asn Ala Thr Pro Ala Pro Leu Arg
465 470 475 480
Glu Ala Pro Ser Ala Asn Ala Ser Val Glu Arg Ile Lys Thr Thr Ser
485 490 495
Ser Ile Glu Phe Ala Arg Leu Gln Phe Thr Tyr Asn His Ile Gln Arg
500 505 510
His Val Asn Asp Met Leu Gly Arg Ile Ala Val Ala Trp Cys Glu Leu
515 520 525
Gln Asn His Glu Leu Thr Leu Trp Asn Glu Ala Arg Lys Leu Asn Pro
530 535 540
Asn Ala Ile Ala Ser Ala Thr Val Gly Arg Arg Val Ser Ala Arg Met
545 550 555 560
Leu Gly Asp Val Met Ala Val Ser Thr Cys Val Pro Val Ala Pro Asp
565 570 575
Asn Val Ile Val Gln Asn Ser Met Arg Val Ser Ser Arg Pro Gly Thr
580 585 590
Cys Tyr Ser Arg Pro Leu Val Ser Phe Arg Tyr Glu Asp Gln Gly Pro
595 600 605
Leu Ile Glu Gly Gln Leu Gly Glu Asn Asn Glu Leu Arg Leu Thr Arg
610 615 620
Asp Ala Leu Glu Pro Cys Thr Val Gly His Arg Arg Tyr Phe Ile Phe
625 630 635 640
Gly Gly Gly Tyr Val Tyr Phe Glu Glu Tyr Ala Tyr Ser His Gln Leu
645 650 655

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Ser Arg Ala Asp val Thr Thr Val Ser Thr Phe Ile Asp Leu Asn Ile
660 665 670

Thr Met Leu Glu Asp His Glu Phe Val Pro Leu Gly Val Tyr Thr Arg
675 680 685

His Glu Ile Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu Val Gln Arg
690 695 700

Arg Asn Gln Leu His Asp Leu Arg Phe Ala Asp Ile Asp Thr Val Ile
705 710 715 720

Arg Ala Asp Ala Asn Ala Ala Met Phe Ala Gly Leu Cys Ala Phe Phe
725 730 735

Glu Gly Met Gly Asp Leu Gly Arg Ala Val Gly Lys Val Val Met Gly
740 745 750

Val Val Gly Gly Val Val Ser Ala Val Ser Gly Val Ser Ser Phe Met
755 760 765

Ser Asn Pro Phe Gly Ala Leu Ala Val Gly Leu Leu Val Leu Ala Gly
770 775 780

Leu Val Ala Ala Phe Phe Ala Phe Arg Tyr Val Leu Gln Leu Gln Arg
785 790 795 800

Asn Pro Met Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu Leu Lys Thr
805 810 815

Ser Asp Pro Gly Gly Val Gly Gly Glu Gly Glu Glu Gly Ala Glu Gly
820 825 830

Gly Gly Phe Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg
835 840 845

Tyr Met Ala Leu Val Ser Ala Met Glu Arg Thr Glu His Lys Ala Arg
850 855 860

Lys Lys Gly Thr Ser Ala Leu Leu Ser Ser Lys Val Thr Asn Met Val
865 870 875 880

Leu Arg Lys Arg Asn Lys Ala Arg Tyr Ser Pro Leu His Asn Glu Asp
885 890 895

Glu Ala Gly Asp Glu Asp Glu Leu
900

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<211> 901
<212> PRT

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<213> HSV2 strain MMA

<400> 16

Met Arg Gly Gly Gly Leu Ile Cys Ala Leu Val Val Gly Ala Leu Val
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Ala Ala Val Ala Ser Ala Ala Pro Ala Ala Pro Arg Ala Ser Gly Gly
20 25 30

Val Ala Ala Thr Val Ala Ala Asn Gly Gly Pro Ala Ser Arg Pro Pro
35 40 45

Pro Val Pro Ser Pro Ala Thr Thr Arg Ala Arg Lys Arg Lys Thr Lys
50 55 60

Lys Pro Pro Glu Arg Pro Glu Ala Thr Pro Pro Pro Asp Ala Asn Ala
65 70 75 80

Thr Val Ala Ala Gly His Ala Thr Leu Arg Ala His Leu Arg Glu Ile
85 90 95

Lys Val Glu Asn Ala Asp Ala Gln Phe Tyr Val Cys Pro Pro Pro Thr
100 105 110

Gly Ala Thr Val Val Gln Phe Glu Gln Pro Arg Arg Cys Pro Thr Arg
115 120 125

Pro Glu Gly Gln Asn Tyr Thr Glu Gly Ile Ala Val Val Phe Lys Glu
130 135 140

Asn Ile Ala Pro Tyr Lys Phe Lys Ala Thr Met Tyr Tyr Lys Asp Val
145 150 155 160

Thr Val Ser Gln Val Trp Phe Gly His Arg Tyr Ser Gln Phe Met Gly
165 170 175

Ile Phe Glu Asp Arg Ala Pro Val Pro Phe Glu Glu Val Ile Asp Lys
180 185 190

Ile Asn Ala Lys Gly Val Cys Arg Ser Thr Ala Lys Tyr Val Arg Asn
195 200 205

Asn Met Glu Thr Thr Ala Phe His Arg Asp Asp His Glu Thr Asp Met
210 215 220

Glu Leu Lys Pro Ala Lys Val Ala Thr Arg Thr Ser Arg Gly Trp His
225 230 235 240

Thr Thr Asp Leu Lys Tyr Asn Pro Ser Arg Val Glu Ala Phe His Arg
245 250 255

Tyr Gly Thr Thr Val Asn Cys Ile Val Glu Glu Val Asp Ala Arg Ser
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260

265

270

Val Tyr Pro Tyr Asp Glu Phe Val Leu Ala Thr Gly Asp Phe Val Tyr
275 280 285

Met Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr
290 295 300

Ser Tyr Ala Ala Asp Arg Phe Lys Gln Val Asp Gly Phe Tyr Ala Arg
305 310 315 320

Asp Leu Thr Thr Lys Ala Gln Ala Thr Ser Pro Thr Thr Arg Asn Leu
325 330 335

Leu Thr Thr Pro Lys Phe Thr Val Ala Trp Asp Trp Val Pro Lys Arg
340 345 350

Pro Ala Val Cys Thr Met Thr Lys Trp Gln Glu Val Asp Glu Met Leu
355 360 365

Arg Ala Glu Tyr Gly Gly Ser Phe Arg Phe Ser Ser Asp Ala Ile Ser
370 375 380

Thr Thr Phe Thr Thr Asn Leu Thr Glu Tyr Ser Leu Ser Arg Val Asp
385 390 395 400

Leu Gly Asp Cys Ile Gly Arg Asp Ala Arg Glu Ala Ile Asp Arg Met
405 410 415

Phe Ala Arg Lys Tyr Asn Ala Thr His Ile Lys Val Gly Gln Pro Gln
420 425 430

Tyr Tyr Leu Ala Thr Gly Gly Phe Leu Ile Ala Tyr Gln Pro Leu Leu
435 440 445

Ser Asn Thr Leu Ala Glu Leu Tyr Val Arg Glu Tyr Met Arg Glu Gln
450 455 460

Asp Arg Lys Pro Arg Asn Ala Thr Pro Ala Pro Leu Arg Glu Ala Pro
465 470 475 480

Ser Ala Asn Ala Ser Val Glu Arg Ile Lys Thr Thr Ser Ser Ile Glu
485 490 495

Phe Ala Arg Leu Gln Phe Thr Tyr Asn His Ile Gln Arg His Val Asn
500 505 510

Asp Met Leu Gly Arg Ile Ala Val Ala Trp Cys Glu Leu Gln Asn His
515 520 525

Glu Leu Thr Leu Trp Asn Glu Ala Arg Lys Leu Asn Pro Asn Ala Ile
530 535 540

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Ala Ser Ala Thr Val Gly Arg Arg Val Ser Ala Arg Met Leu Gly Asp
545 550 555 560

Val Met Ala Val Ser Thr Cys Val Pro Val Ala Pro Asp Asn Val Ile
565 570 575

Val Gln Asn Ser Met Arg Val Ser Ser Arg Pro Gly Thr Cys Tyr Ser
580 585 590

Arg Pro Leu Val Ser Phe Arg Tyr Glu Asp Gln Gly Pro Leu Ile Glu
595 600 605

Gly Gln Leu Gly Glu Asn Asn Glu Leu Arg Leu Thr Arg Asp Ala Leu
610 615 620

Glu Pro Cys Thr Val Gly His Arg Arg Tyr Phe Ile Phe Gly Gly Gly
625 630 635 640

Tyr Val Tyr Phe Glu Glu Tyr Ala Tyr Ser His Gln Leu Ser Arg Ala
645 650 655

Asp Val Thr Thr Val Ser Thr Phe Ile Asp Leu Asn Ile Thr Met Leu
660 665 670

Glu Asp His Glu Phe Val Pro Leu Glu Val Tyr Thr Arg His Glu Ile
675 680 685

Lys Asp Ser Gly Leu Leu Asp Tyr Thr Glu Val Gln Arg Arg Asn Gln
690 695 700

Leu His Asp Leu Arg Phe Ala Asp Ile Asp Thr Val Ile Arg Ala Asp
705 710 715 720

Ala Asn Ala Ala Met Phe Ala Gly Leu Cys Ala Phe Phe Glu Gly Met
725 730 735

Gly Asp Leu Gly Arg Ala Val Gly Lys Val Val Met Gly Val Val Gly
740 745 750

Gly Val Val Ser Ala Val Ser Gly Val Ser Ser Phe Met Ser Asn Pro
755 760 765

Phe Gly Ala Leu Ala Val Gly Leu Leu Val Leu Ala Gly Leu Val Ala
770 775 780

Ala Phe Phe Ala Phe Arg Tyr Val Leu Gln Leu Gln Arg Asn Pro Met
785 790 795 800

Lys Ala Leu Tyr Pro Leu Thr Thr Lys Glu Leu Lys Thr Ser Asp Pro
805 810 815

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Gly Gly val Gly Gly Glu Gly Glu Glu Gly Ala Glu Gly Gly Gly Phe
820 825 830

Asp Glu Ala Lys Leu Ala Glu Ala Arg Glu Met Ile Arg Tyr Met Ala
835 840 845

Leu val Ser Ala Met Glu Arg Thr Glu His Lys Ala Arg Lys Lys Gly
850 855 860

Thr Ser Ala Leu Leu Ser Ser Lys Val Thr Asn Met Val Leu Arg Lys
865 870 875 880

Arg Asn Lys Ala Arg Tyr Ser Pro Leu His Asn Glu Asp Glu Ala Gly
885 890 895

Asp Glu Asp Glu Leu
900

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<211> 15
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<223> Mab 2c binding epitope

<400> 17

Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr
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<210> 18
<211> 13
<212> PRT
<213> HSV

<400> 18

Gln val Trp Phe Gly His Arg Tyr Ser Gln Phe Met Gly
1 5 10

<210> 19
<211> 7
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<400> 19

val Trp Phe Gly His Arg Tyr
1 5

<210> 20
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<400> 20

Tyr Ser Gln Phe Met Gly

1

5

<210> 21
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<400> 21

Phe Tyr Gly Tyr Arg Glu
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<210> 22
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<400> 22

Tyr Ser Gln Phe Met Gly Asx Phe Tyr Gly Tyr Arg Glu
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<210> 23
 <211> 11
 <212> PRT
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<220>
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<400> 23

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<220>
 <223> Y296N

<400> 24
 gggacatggt cacaagtc

19

<210> 25
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 <213> artificial

<220>
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<400> 25
 gggacatgaa cacaagtc

19

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aaaacggggc catgtacac	19
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<212> PRT
<213> HSV

<400> 43

Arg Tyr Ser Gln Phe Met Gly Ile Phe Glu Asp Arg Ala Pro Val
1 5 10 15

<210> 44
<211> 21
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<400> 44

Phe Gly His Arg Tyr Ser Gln Phe Met Gly Ile Phe Glu Asp Arg Ala
1 5 10 15

Pro Val Pro Phe Glu
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<400> 45

Gln Phe Met Gly Ile Phe Glu Asp Arg
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<210> 46
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<400> 46

Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr Ser
1 5 10 15

Tyr Ala

<210> 47
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<400> 47

Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr
1 5 10

<210> 48
<211> 15
<212> PRT
<213> HSV

<400> 48

Ser Pro Phe Tyr Gly Tyr Arg Glu Gly Ser His Thr Glu His Thr
Seite 30

1	5	P66201PC_ST25 10	15
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<210> 49
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<400> 49

Phe Tyr Gly Tyr Arg Glu Gly Ser His
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<400> 50

Tyr Gly Tyr Arg Glu Gly
 1 5

<210> 51
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<400> 51

Phe Tyr Gly Tyr Arg Glu Gly
 1 5

<210> 52
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<220>
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<400> 52

Pro Phe Tyr Gly Tyr Arg Glu Gly Phe Glu Asp Phe
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<400> 53

Pro Phe Tyr Gly Tyr Arg Glu
 1 5

<210> 54
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<400> 54

Phe Glu Asp Phe

