Replacement Sequence Listing
SEQUENCE LISTING

<110> EMORY UNIVERSITY
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<120> COMPOSITIONS AND METHODS FOR THE TREATMENT OF INFECTIONS AND TUMORS

<130> 6975-76374-04

<150> 60/877,518
<151> 2006-12-27

<160> 62

<170> PatentIn version 3.5

<210> 1
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<212> PRT
<213> Homo sapiens

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Leu Gly Trp Arg Pro Gly Trp Phe Leu Asp Ser Pro Asp Arg Pro Trp
            20                  25                  30

Asn Pro Pro Thr Phe Phe Pro Ala Leu Leu Val Val Thr Glu Gly Asp
        35                  40                  45

Asn Ala Thr Phe Thr Cys Ser Phe Ser Asn Thr Ser Glu Ser Phe Val
    50                  55                  60

Leu Asn Trp Tyr Arg Met Ser Pro Ser Asn Gln Thr Asp Lys Leu Ala
65                  70                  75                  80

Ala Phe Pro Glu Asp Arg Ser Gln Pro Gly Gln Asp Cys Arg Phe Arg
                85                  90                  95

Val Thr Gln Leu Pro Asn Gly Arg Asp Phe His Met Ser Val Val Arg
            100                 105                 110

Ala Arg Arg Asn Asp Ser Gly Thr Tyr Leu Cys Gly Ala Ile Ser Leu
        115                 120                 125

Ala Pro Lys Ala Gln Ile Lys Glu Ser Leu Arg Ala Glu Leu Arg Val
    130                 135                 140

Thr Glu Arg Arg Ala Glu Val Pro Thr Ala His Pro Ser Pro Ser Pro
145                 150                 155                 160
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Arg Pro Ala Gly Gln Phe Gln Thr Leu Val Val Gly Val Val Gly Gly
                165                 170                 175

Leu Leu Gly Ser Leu Val Leu Leu Val Trp Val Leu Ala Val Ile Cys
            180                 185                 190

Ser Arg Ala Ala Arg Gly Thr Ile Gly Ala Arg Arg Thr Gly Gln Pro
        195                 200                 205

Leu Lys Glu Asp Pro Ser Ala Val Pro Val Phe Ser Val Asp Tyr Gly
    210                 215                 220

Glu Leu Asp Phe Gln Trp Arg Glu Lys Thr Pro Glu Pro Pro Val Pro
225                 230                 235                 240

Cys Val Pro Glu Gln Thr Glu Tyr Ala Thr Ile Val Phe Pro Ser Gly
                245                 250                 255

Met Gly Thr Ser Ser Pro Ala Arg Arg Gly Ser Ala Asp Gly Pro Arg
            260                 265                 270

Ser Ala Gln Pro Leu Arg Pro Glu Asp Gly His Cys Ser Trp Pro Leu
        275                 280                 285
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<213> Mus musculus

<400> 2

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Met Trp Val Arg Gln Val Pro Trp Ser Phe Thr Trp Ala Val Leu Gln
1               5                   10                  15

Leu Ser Trp Gln Ser Gly Trp Leu Leu Glu Val Pro Asn Gly Pro Trp
            20                  25                  30

Arg Ser Leu Thr Phe Tyr Pro Ala Trp Leu Thr Val Ser Glu Gly Ala
        35                  40                  45

Asn Ala Thr Phe Thr Cys Ser Leu Ser Asn Trp Ser Glu Asp Leu Met
    50                  55                  60

Leu Asn Trp Asn Arg Leu Ser Pro Ser Asn Gln Thr Glu Lys Gln Ala
65                  70                  75                  80

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

Ile Ile Gln Leu Pro Asn Arg His Asp Phe His Met Asn Ile Leu Asp
            100                 105                 110
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Thr Arg Arg Asn Asp Ser Gly Ile Tyr Leu Cys Gly Ala Ile Ser Leu
        115                 120                 125

His Pro Lys Ala Lys Ile Glu Glu Ser Pro Gly Ala Glu Leu Val Val
    130                 135                 140

Thr Glu Arg Ile Leu Glu Thr Ser Thr Arg Tyr Pro Ser Pro Ser Pro
145                 150                 155                 160

Lys Pro Glu Gly Arg Phe Gln Gly Met Val Ile Gly Ile Met Ser Ala
                165                 170                 175

Leu Val Gly Ile Pro Val Leu Leu Leu Leu Ala Trp Ala Leu Ala Val
            180                 185                 190

Phe Cys Ser Thr Ser Met Ser Glu Ala Arg Gly Ala Gly Ser Lys Asp
        195                 200                 205

Asp Thr Leu Lys Glu Glu Pro Ser Ala Ala Pro Val Pro Ser Val Ala
    210                 215                 220

Tyr Glu Glu Leu Asp Phe Gln Gly Arg Glu Lys Thr Pro Glu Leu Pro
225                 230                 235                 240

Thr Ala Cys Val His Thr Glu Tyr Ala Thr Ile Val Phe Thr Glu Gly
                245                 250                 255

Leu Gly Ala Ser Ala Met Gly Arg Arg Gly Ser Ala Asp Gly Leu Gln
            260                 265                 270

Gly Pro Arg Pro Pro Arg His Glu Asp Gly His Cys Ser Trp Pro Leu
        275                 280                 285
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<210> 3
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<213> Homo sapiens

<400> 3

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Met Arg Ile Phe Ala Val Phe Ile Phe Met Thr Tyr Trp His Leu Leu
1               5                   10                  15

Asn Ala Phe Thr Val Thr Val Pro Lys Asp Leu Tyr Val Val Glu Tyr
            20                  25                  30

Gly Ser Asn Met Thr Ile Glu Cys Lys Phe Pro Val Glu Lys Gln Leu
        35                  40                  45

Asp Leu Ala Ala Leu Ile Val Tyr Trp Glu Met Glu Asp Lys Asn Ile
    50                  55                  60
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Ile Gln Phe Val His Gly Glu Glu Asp Leu Lys Val Gln His Ser Ser
65                  70                  75                  80

Tyr Arg Gln Arg Ala Arg Leu Leu Lys Asp Gln Leu Ser Leu Gly Asn
                85                  90                  95

Ala Ala Leu Gln Ile Thr Asp Val Lys Leu Gln Asp Ala Gly Val Tyr
            100                 105                 110

Arg Cys Met Ile Ser Tyr Gly Gly Ala Asp Tyr Lys Arg Ile Thr Val
        115                 120                 125

Lys Val Asn Ala Pro Tyr Asn Lys Ile Asn Gln Arg Ile Leu Val Val
    130                 135                 140

Asp Pro Val Thr Ser Glu His Glu Leu Thr Cys Gln Ala Glu Gly Tyr
145                 150                 155                 160

Pro Lys Ala Glu Val Ile Trp Thr Ser Ser Asp His Gln Val Leu Ser
                165                 170                 175

Gly Lys Thr Thr Thr Thr Asn Ser Lys Arg Glu Glu Lys Leu Phe Asn
            180                 185                 190

Val Thr Ser Thr Leu Arg Ile Asn Thr Thr Thr Asn Glu Ile Phe Tyr
        195                 200                 205

Cys Thr Phe Arg Arg Leu Asp Pro Glu Glu Asn His Thr Ala Glu Leu
    210                 215                 220

Val Ile Pro Glu Leu Pro Leu Ala His Pro Pro Asn Glu Arg Thr His
225                 230                 235                 240

Leu Val Ile Leu Gly Ala Ile Leu Leu Cys Leu Gly Val Ala Leu Thr
                245                 250                 255

Phe Ile Phe Arg Leu Arg Lys Gly Arg Met Met Asp Val Lys Lys Cys
            260                 265                 270

Gly Ile Gln Asp Thr Asn Ser Lys Lys Gln Ser Asp Thr His Leu Glu
        275                 280                 285

Glu Thr
    290
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<213> Homo sapiens

<400> 4

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Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln
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1 5 10 15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile
20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser
35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn
50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu
65 70 75 80

Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp
85 90 95

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

Lys Tyr Leu Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr
115 120 125

His Ile Leu Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln
130 135 140

Ala Thr Gly Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val
145 150 155 160

Pro Ala Asn Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val
165 170 175

Thr Ser Val Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys
180 185 190

Val Phe Trp Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp
195 200 205

Leu Gln Ser Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His
210 215 220

Ile Phe Ile Pro Ser Cys Ile Ile Ala Phe Ile Phe Ile Ala Thr Val
225 230 235 240

Ile Ala Leu Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp
245 250 255

Thr Thr Lys Arg Pro Val Thr Thr Thr Lys Arg Glu Val Asn Ser Ala
260 265 270

Ile

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

<400> 5

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

Glu Arg Ala Thr Ile Asn Cys
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<210> 6
<211> 14
<212> PRT
<213> Homo sapiens

<400> 6

Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Leu Leu Ile Tyr
1 5 10

<210> 7
<211> 32
<212> PRT
<213> Homo sapiens

<400> 7

Gly Val Pro Asp Arg Pro Phe Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys
20 25 30

<210> 8
<211> 11
<212> PRT
<213> Homo sapiens

<400> 8

Phe Gly Gln Gly Gln Thr Lys Leu Glu Ile Lys
1 5 10

<210> 9
<211> 30
<212> PRT
<213> Homo sapiens

<400> 9

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gln Tyr Thr Phe Thr
20 25 30

<210> 10
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<212> PRT
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<400> 10

Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met Gly
1 5 10

<210> 11
<211> 32
<212> PRT
<213> Homo sapiens

<400> 11

Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr Met Glu
1 5 10 15

Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 12
<211> 11
<212> PRT
<213> Homo sapiens

<400> 12

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 13
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<400> 13

Thr Leu Tyr Lys Lys Met Glu Gln Asp Val Lys Val Ala His Gln
1 5 10 15

<210> 14
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<400> 14

Gly Asn Leu Pro Leu Met Arg Lys Ala Tyr Leu Arg Lys Cys Lys
1 5 10 15

<210> 15

<211> 15
<212> PRT
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<400> 15

Thr Phe Ser Arg Met Lys Tyr Asn Ile Cys Met Gly Lys Cys Ile
1 5 10 15

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<400> 16

Ser Ile Thr Glu Val Glu Cys Phe Leu
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<210> 17
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<400> 17

Gln Pro Arg Ala Pro Ile Arg Pro Ile
1 5

<210> 18
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<220>
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<400> 18

Asn Leu Val Pro Met Val Ala Thr Val
1 5

<210> 19
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<400> 19

Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr
1 5 10

<210> 20
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<400> 20

Gly Ile Leu Gly Phe Val Phe Thr Leu
1 5

<210> 21
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<400> 21

Leu Tyr Val Asp Ser Leu Phe Phe Leu
1 5

<210> 22
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<400> 22

Arg Met Phe Pro Asn Ala Pro Tyr Leu
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<400> 23

Glu Leu Thr Leu Gly Glu Phe Leu Lys Leu
1 5 10

<210> 24
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<400> 24

Gly Val Ala Leu Gln Thr Met Lys Gln

1 5

<210> 25
<211> 9
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<400> 25

Glu Thr Val Ser Glu Gln Ser Asn Val
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<210> 26
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Val Leu Gln Glu Leu Asn Val Thr Val
1 5

<210> 27
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<400> 27

Val Leu Gln Glu Leu Asn Val Thr Val
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<210> 28
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<220>
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<400> 28

Glu Ala Asp Pro Thr Gly His Ser Tyr
1 5

<210> 29
<211> 9
<212> PRT
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<220>
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<400> 29

Ala Ala Gly Ile Gly Ile Leu Thr Val
1 5

<210> 30
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Arg His Arg Pro Leu Gln Glu Val Tyr Pro Glu Ala Asn Ala Pro Ile
1 5 10 15

Gly His Asn Arg Glu
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<210> 31
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<212> PRT
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<220>
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Trp Asn Arg Gln Leu Tyr Pro Glu Trp Thr Glu Ala Gln Arg Leu Asp
1 5 10 15

<210> 32
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<220>
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<400> 32

Val Leu Leu Lys Glu Phe Thr Val Ser Gly
1 5 10

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<220>
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<400> 33

Lys Ile Phe Gly Ser Leu Ala Phe Leu
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<210> 34
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<220>
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<400> 34

His Leu Phe Gly Tyr Ser Trp Tyr Lys
1 5

<210> 35
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<220>
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<400> 35

Phe Leu Thr Pro Lys Lys Leu Gln Cys Val
1 5 10

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<400> 36

Gly Leu Cys Thr Leu Val Ala Met Leu
1 5

<210> 37
<211> 8
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<400> 37

Arg Ala Lys Phe Lys Gln Leu Leu
1 5

<210> 38
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Phe Leu Arg Gly Arg Ala Tyr Gly Leu
1 5

<210> 39

<211> 9
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<400> 39

Asn Leu Val Pro Met Val Ala Thr Val
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<210> 40
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<400> 40

Thr Pro Arg Val Thr Gly Gly Gly Ala Met
1 5 10

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<400> 41

Gly Ile Leu Gly Phe Val Phe Thr Leu
1 5

<210> 42
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Cys Leu Thr Glu Tyr Ile Leu Trp Val
1 5

<210> 43
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<400> 43

Lys Val Asp Asp Thr Phe Tyr Tyr Val
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<210> 44
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<400> 44

Cys Ile Asn Gly Val Cys Trp Thr Val
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<210> 45
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<400> 45

Lys Leu Val Ala Leu Gly Ile Asn Ala Val
1 5 10

<210> 46
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<213> Homo sapiens

<400> 46

Met Ile Phe Leu Leu Leu Met Leu Ser Leu Glu Leu Gln Leu His Gln
1 5 10 15

Ile Ala Ala Leu Phe Thr Val Thr Val Pro Lys Glu Leu Tyr Ile Ile
20 25 30

Glu His Gly Ser Asn Val Thr Leu Glu Cys Asn Phe Asp Thr Gly Ser
35 40 45

His Val Asn Leu Gly Ala Ile Thr Ala Ser Leu Gln Lys Val Glu Asn
50 55 60

Asp Thr Ser Pro His Arg Glu Arg Ala Thr Leu Leu Glu Glu Gln Leu
65 70 75 80

Pro Leu Gly Lys Ala Ser Phe His Ile Pro Gln Val Gln Val Arg Asp
85 90 95

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

Lys Tyr Leu Thr Leu Lys Val Lys Ala Ser Tyr Arg Lys Ile Asn Thr
115 120 125

His Ile Leu Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln
130 135 140

Ala Thr Gly Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val
145 150 155 160

Pro Ala Asn Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val
165 170 175

Thr Ser Val Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys
180 185 190

Val Phe Trp Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp
195 200 205

Leu Gln Ser Gln Met Glu Pro Arg Thr His Pro Thr Trp Leu Leu His
210 215 220

Ile Phe Ile Pro Phe Cys Ile Ile Ala Phe Ile Phe Ile Ala Thr Val
225 230 235 240

Ile Ala Leu Arg Lys Gln Leu Cys Gln Lys Leu Tyr Ser Ser Lys Asp
245 250 255

Thr Thr Lys Arg Pro Val Thr Thr Thr Lys Arg Glu Val Asn Ser Ala
260 265 270

Ile

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<220>
<223> Exemplary antigenic peptide

<400> 47

Cys Glu Leu Asp Asn Ser His Glu Asp Tyr Asn Trp Asn Leu Trp Phe
1 5 10 15

Lys Trp Cys Ser Gly His Gly Arg
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<210> 48
<211> 24
<212> PRT
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<220>
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<400> 48

Thr Gly His Gly Lys His Phe Tyr Asp Cys Asp Trp Asp Pro Ser His
1 5 10 15

Gly Asp Tyr Ser Trp Tyr Leu Trp
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<210> 49
<211> 24
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<213> Artificial sequence

<220>
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<400> 49

Asp Pro Ser His Gly Asp Tyr Ser Trp Tyr Leu Trp Asp Tyr Leu Cys
1 5 10 15

Gly Asn Gly His His Pro Tyr Asp
20

<210> 50
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<220>
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<400> 50

Asp Tyr Leu Cys Gly Asn Gly His His Pro Tyr Asp Cys Glu Leu Asp
1 5 10 15

Asn Ser His Glu Asp Tyr Ser Trp
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<210> 51
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<220>
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<400> 51

Asp Pro Tyr Asn Cys Asp Trp Asp Pro Tyr His Glu Lys Tyr Asp Trp
1 5 10 15

Asp Leu Trp Asn Lys Trp Cys Asn
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<210> 52
<211> 24
<212> PRT
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<220>

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<400> 52

Lys Tyr Asp Trp Asp Leu Trp Asn Lys Trp Cys Asn Lys Asp Pro Tyr
1 5 10 15

Asn Cys Asp Trp Asp Pro Tyr His
20

<210> 53
<211> 9
<212> PRT
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<220>
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<400> 53

Gly Ala Phe Asp Leu Ser Phe Phe Leu
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<210> 54
<211> 9
<212> PRT
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<400> 54

Lys Ile Gln Asn Phe Arg Val Tyr Tyr
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<210> 55
<211> 8
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<220>
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<400> 55

Asp Ile Tyr Lys Arg Trp Ile Ile
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<210> 56
<211> 8
<212> PRT
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<220>
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<400> 56

Phe Leu Lys Glu Lys Gly Gly Leu
1 5

<210> 57
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 57

Arg Pro Gln Val Pro Leu Arg Pro Met
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<210> 58
<211> 9
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<220>
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<400> 58

Thr Pro Gln Asp Leu Asn Thr Met Leu
1 5

<210> 59
<211> 10
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<213> Artificial Sequence

<220>
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<400> 59

Thr Pro Gly Pro Gly Val Arg Tyr Pro Leu
1 5 10

<210> 60
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 60

Tyr Pro Gly Ile Lys Val Lys Gln Leu
1 5

<210> 61
<211> 9
<212> PRT
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<220>
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<400> 61

Thr Pro Gln Asp Leu Asn Thr Met Leu
1 5

<210> 62
<211> 9
<212> PRT
<213> Artificial sequence

<220>
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<400> 62

Tyr Val Asp Arg Phe Phe Lys Thr Leu
1 5