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<110> IMCARE BIOTECH, LLC.

<120> EPITOPES OF ANTI-SERINE PROTEASE INHIBITOR KAZAL (SPIK) ANTIBODIES

<130> IMC-0003-WO

<140> PCT/US2020/046782
<141> 2020-08-18

<150> 62/899,024
<151> 2019-09-11

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<170> PatentIn version 3.5

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aagatatatg accctgtctg tgggactgat ggaaatactt atcccaatga atgcgtgtta 180

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Tyr Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp Pro Val Cys Gly
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Thr Asp Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys Phe Glu Asn
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<210> 59
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<210> 60
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Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

Gly Ala Ile Tyr Pro Gly Asp Gly Asp Thr Arg Tyr Thr Gln Lys Phe

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    50                  55                  60

Glu Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Gly Ala Asn Tyr Ala Asn Ile Arg Phe Ala Tyr Trp Gly Gln
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Gly Thr Leu Val Thr Val Ser Ala
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Asp Arg Val Ser Ile Ser Cys Arg Ala Ser Gln Asp Ile Thr Asn Tyr
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Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys Leu Leu Ile
        35                  40                  45

Phe Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60

Ser Gly Ser Gly Thr Asn Phe Ser Leu Thr Ile Ser Asn Leu Glu Gln
65                  70                  75                  80

Glu Asp Ile Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Val Pro Trp
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85 90 95

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

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

Gly Gln Ile Phe Pro Gly Arg Asp Thr Thr Asn Tyr Asn Glu Lys Phe
50 55 60

Lys Gly Lys Ala Thr Phe Thr Ala Asp Thr Ser Ser Asn Thr Ala Tyr
65 70 75 80

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

Ala Arg Arg Gln Glu Glu Phe Ser Asp Tyr Tyr Gly Ser Ser His Leu
100 105 110

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

Ser Ser

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1 5 10 15

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

Leu Ser Trp Leu Gln Gln Lys Pro Asp Gly Thr Ile Lys Arg Leu Ile
35 40 45

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

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

Glu Asp Phe Ala Asp Tyr Tyr Cys Leu Gln Tyr Thr Asp Tyr Pro Trp
85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100 105

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1 5 10 15

Glu Gly Gly Leu Phe Lys Pro Thr Asp Ala Leu Thr Leu Thr Cys Thr
20 25 30

Val Ser Gly Phe Ser Leu Ser Ser Tyr Ala Ile Ser Trp Val Arg Gln
35 40 45

Ala Pro Gly Ser Gly Leu Glu Trp Ile Gly Ala Ile Asn Thr Tyr Gly
50 55 60

Gly Thr Tyr Tyr Ala Ser Trp Ala Lys Ser Arg Ser Thr Ile Thr Arg
65 70 75 80

Asn Thr Asn Glu Asn Thr Val Thr Leu Lys Met Thr Ser Leu Thr Ala
85 90 95

Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Asp Phe Asp Ser Asp Ala
100 105 110

Tyr Thr Ser Ala Ser Gly Gly Met Asp Trp Gly Pro Gly Thr Leu Val
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1 5 10 15

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

Ser Gln Ser Ile Asn Asn Tyr Leu Ser Trp Tyr Gln Gln Ile Pro Gly
35 40 45

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

Val Ser Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu
65 70 75 80

Thr Ile Ser Gly Val Gln Cys Ala Asp Ala Ala Thr Tyr Tyr Cys Gln
85 90 95

Gln Gly Tyr Thr Ser Asn Val Asp Asn Val Phe Gly Gly Gly Thr Glu
100 105 110

Val Val Val Lys Gly Asp Pro Val Ala Pro Thr Val Leu Ile Phe Pro
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Pro Ser Ala Asp
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1 5 10 15

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Glu Gly Gly Leu Phe Lys Pro Thr Asp Thr Leu Thr Leu Thr Cys Thr
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Val Ser Gly Phe Ser Leu Ser Ala Tyr Ala Ile Ser Trp Val Arg Gln
        35                  40                  45

Ala Pro Gly Asn Gly Leu Glu Trp Ile Gly Ala Ile Asn Ser Gly Gly
    50                  55                  60

Ser Ala Tyr Tyr Ala Asn Trp Ala Lys Ser Arg Ser Thr Ile Thr Arg
65                  70                  75                  80

Asn Thr Asn Leu Asn Thr Val Thr Leu Lys Met Thr Ser Leu Thr Ala
                85                  90                  95

Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Glu Asp Ile Tyr Asp Tyr
            100                 105                 110

Gly Gly Ala Phe Asp Pro Trp Gly Pro Gly Thr Leu Val Thr Val Ser
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Thr Gly Gln Pro Lys Leu His His
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Ser Val Glu Val Thr Val Gly Gly Thr Val Thr Ile Lys Cys Gln Ala
            20                  25                  30
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Ser Gln Gly Ile Ser Ser Tyr Leu Ser Trp Tyr Gln Gln Lys Pro Gly
        35                  40                  45


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


Val Ser Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu
65                  70                  75                  80


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


Gln Asp Tyr Thr Thr Ser Asn Val Asp Asn Thr Phe Gly Gly Gly Thr
            100                 105                 110


Glu Val Val Val Lys Gly Asp Pro Val Ala Pro Thr Val Leu Ile Phe
        115                 120                 125


Pro Pro Ser Ala Asp
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1               5                   10                  15


Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
            20                  25                  30


Tyr Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
        35                  40                  45
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Gly Trp Ile Tyr Pro Gly Ser Gly Asn Pro Ile Tyr Asn Glu Asn Phe
    50                  55                  60

Lys Asp Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Thr Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Glu Trp Gly Cys Ala Met Asp Ser Trp Gly Gln Gly Thr Ser
            100                 105                 110

Val Thr Val Ser Ser Ala Lys Thr Thr Ala Pro Ser Val Tyr Pro Leu
        115                 120                 125

Ala Pro
    130
```

<210> 76
<211> 113
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 76

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
            20                  25                  30

Gly Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
        35                  40                  45

Ser Pro Lys Leu Leu Ile Tyr Gly Ala Ser Thr Arg Glu Ser Gly Val
    50                  55                  60
```

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


Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Ser
                85                  90                  95


Asp Tyr Ser His Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
            100                 105                 110


Lys



<210> 77
<211> 135
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 77
Met Asn Phe Val Leu Ser Leu Ile Phe Leu Ala Leu Ile Leu Lys Gly
1               5                   10                  15


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


Pro Gly Arg Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
        35                  40                  45


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


Glu Gly Val Ala Ser Ile Ser Ile Gly Gly Thr Tyr Thr Tyr Tyr Pro
65                  70                  75                  80


Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
                85                  90                  95
```

```
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ser Glu Asp Thr Ala Met
            100                 105                 110


Tyr Tyr Cys Val Arg Glu Asp Tyr Gly Phe Asp Tyr Trp Gly Gln Gly
        115                 120                 125


Thr Leu Val Thr Val Ser Ser
    130                 135


<210> 78
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
      polypeptide"

<400> 78
Asp Ile Val Met Thr Gln Ser His Lys Phe Met Ser Thr Ser Val Gly
1               5                   10                  15


Asp Arg Val Ser Ile Thr Cys Lys Ala Ser Gln Asp Val Ser Thr Ala
            20                  25                  30


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


Tyr Trp Ala Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly
    50                  55                  60


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


Glu Asp Leu Ala Leu Tyr Tyr Cys His Gln His Tyr Ser Thr Tyr Thr
                85                  90                  95


Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105
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<210> 79
<211> 151
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 79
Leu Val Ala Val Leu Lys Gly Val Gln Cys Gln Ser Val Lys Glu Ser
1 5 10 15

Glu Gly Gly Leu Phe Lys Pro Thr Asp Thr Leu Thr Leu Thr Cys Thr
20 25 30

Val Ser Gly Phe Ser Leu Ser Ser Asn Ala Ile Ser Trp Val Arg Gln
35 40 45

Ala Pro Gly Asn Gly Leu Glu Trp Ile Gly Ala Ile Gly Ser Ser Gly
50 55 60

Ser Thr Tyr Tyr Ala Ser Trp Ala Lys Ser Arg Ser Thr Val Thr Arg
65 70 75 80

Asn Thr Asn Leu Asn Thr Val Thr Leu Lys Met Thr Ser Leu Thr Ala
85 90 95

Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Trp Glu Asn Ile Gly Tyr
100 105 110

Thr Asn Val Arg Leu Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val
115 120 125

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

Cys Gly Asp Thr Pro Ser Ser
145 150

<210> 80
<211> 114
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 80
Trp Leu Pro Gly Ala Arg Cys Ala Tyr Asp Met Thr Gln Thr Pro Ala
1 5 10 15

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

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

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

Val Ser Ser Arg Phe Lys Gly Ser Gly Ser Gly Thr Gln Phe Thr Leu
65 70 75 80

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

Gln Gly Tyr Ser Thr Ser Asp Val Asp Asn Ala Phe Gly Gly Gly Thr
100 105 110

Glu Gly

<210> 81
<211> 135
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 81
Leu Val Ala Val Leu Lys Gly Val Gln Cys Gln Ser Val Lys Glu Ser
1 5 10 15

Glu Gly Gly Leu Phe Lys Pro Thr Asp Thr Leu Thr Leu Thr Cys Thr
20 25 30

Val Ser Gly Phe Ser Leu Ser Ser Tyr Gly Val Ser Trp Val Arg Gln
35 40 45

Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Ser Ile Trp Ser Gly Gly
50 55 60

Thr Thr Asp Tyr Ala Ser Trp Ala Lys Ser Arg Ser Thr Ile Thr Arg
65 70 75 80

Asn Thr Asn Glu Asn Thr Val Thr Leu Lys Val Thr Ser Leu Thr Ala
85 90 95

Ala Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Tyr Asp Tyr Gly
100 105 110

Tyr Ala Ser Asn Ile Trp Gly Pro Gly Thr Leu Val Thr Val Ser Ser
115 120 125

Gly Gln Pro Lys Ala Pro Ser
130 135

<210> 82
<211> 134
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 82
Leu Trp Leu Pro Gly Ala Arg Cys Ala Tyr Asp Met Thr Gln Thr Pro
1 5 10 15

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

Ala Ser Glu Ser Ile Ser Ser Tyr Leu Ser Trp Tyr Gln Gln Lys Pro
35 40 45

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

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr
65 70 75 80

Leu Thr Ile Ser Asp Gly Gln Cys Asp Asp Ala Ala Thr Tyr Tyr Cys
85 90 95

Gln Gln Gly Tyr Ser Val Ser Asn Val Asp Asn Ile Phe Gly Gly Gly
100 105 110

Thr Glu Val Val Val Lys Gly Asp Pro Val Ala Pro Thr Val Leu Ile
115 120 125

Phe Pro Pro Ser Ala Asp
130

<210> 83
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 83
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 84
<211> 12
<212> PRT
<213> Homo sapiens

<400> 84
Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp Pro Val
1 5 10

<210> 85
<211> 5
<212> PRT
<213> Homo sapiens

<400> 85
Lys Val Thr Gly Ile
1 5

<210> 86
<211> 79
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic polypeptide"

<400> 86
Met Lys Val Thr Gly Ile Phe Leu Leu Ser Ala Leu Ala Leu Leu Ser
1 5 10 15

Leu Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg Glu Ala Lys Cys
20 25 30

Tyr Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp Pro Val Cys Gly
35 40 45

Thr Asp Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys Phe Glu Asn
50 55 60

Arg Lys Arg Gln Thr Ser Ile Leu Ile Gln Lys Ser Gly Pro Cys
65 70 75

<210> 87
<211> 51
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 87
Met Lys Val Thr Gly Ile Phe Leu Leu Ser Ala Leu Ala Leu Leu Ser
1 5 10 15

Leu Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg Glu Ala Lys Cys
20 25 30

Tyr Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp Pro Val Cys Gly
35 40 45

Thr Asp Gly
50

<210> 88
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 88
Asp Ser Leu Gly Arg Glu Ala Lys Cys Tyr Asn Glu Leu Asn Gly Cys
1 5 10 15

Thr Lys Ile Tyr Asp Pro Val Cys Gly Thr Asp Gly
20 25

<210> 89
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 89
Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys Phe Glu Asn Arg Lys Arg
1 5 10 15

Gln Thr Ser Ile Leu Ile Gln Lys Ser Gly Pro Cys
20 25

<210> 90
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 90
Ser Ala Leu Ala Leu Leu Ser Leu Ser Gly Asn Thr Gly Ala Asp Ser
1 5 10 15

Leu Gly Arg Glu Ala
20

<210> 91
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 91
Gly Asn Thr Gly Ala Asp Ser Leu Gly
1 5

<210> 92
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 92
Ser Gly Asn Thr Gly Ala Asp Ser Leu
1 5

<210> 93
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 93
Leu Ser Gly Asn Thr Gly Ala Asp Ser
1 5

<210> 94
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 94
Ser Leu Ser Gly Asn Thr Gly Ala Asp
1 5

<210> 95
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic

peptide"

<400> 95
Leu Ser Leu Ser Gly Asn Thr Gly Ala
1 5

<210> 96
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 96
Leu Leu Ser Leu Ser Gly Asn Thr Gly Ala Asp Ser Leu
1 5 10

<210> 97
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 97
Ser Leu Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg
1 5 10

<210> 98
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 98
Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg Glu Ala
1 5 10

<210> 99
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 99
Ala Leu Leu Ser Leu Ser Gly Asn Thr Gly
1 5 10

<210> 100
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 100
Ser Ala Leu Ala Leu Leu Ser Leu Ser Gly
1 5 10

<210> 101
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 101
Asp Leu Val Pro Arg Gly Ser Pro Gly Ile
1 5 10

<210> 102
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 102
Gly Leu Val Pro Arg Gly Ser Pro Gly Ile
1 5 10

<210> 103
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 103
Leu Glu Asp Pro Gly Tyr Arg Gly Arg Thr
1 5 10

<210> 104
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 104
Gly Ile Phe Leu Leu Ser Ala Leu Ala Leu Leu Ser Leu Ser Gly Asn
1 5 10 15

Thr Gly Ala Asp Ser Leu Gly Arg Glu Ala
20 25

<210> 105
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source

<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 105
Ser Leu Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg Glu
1 5 10

<210> 106
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 106
Leu Leu Ser Leu Ser Gly Asn Thr Gly Ala Asp Ser Leu Gly Arg
1 5 10 15

<210> 107
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 107
Gly Ile Phe Leu Leu Ser Ala Leu Ala Leu Leu
1 5 10

<210> 108
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 108
Phe Leu Leu Ser Ala Leu Ala Leu Leu
1 5

<210> 109
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 109
Asp Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys Phe Glu Asn Arg
1 5 10 15

Lys Arg Gln

<210> 110
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 110
Asp Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys
1 5 10

<210> 111
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 111
Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys Phe Glu Asn Arg Lys
1 5 10 15

Arg Gln Glu

<210> 112
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 112
Cys Val Leu Cys Phe Glu Asn Arg Lys Arg Gln
1 5 10

<210> 113
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 113
Leu Cys Phe Glu Asn Arg Lys Arg Gln
1 5

<210> 114
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 114
Lys Cys Tyr Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp Pro Val
1 5 10 15

Cys

<210> 115
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 115
Lys Cys Tyr Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr Asp
1   5   10

<210> 116
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 116
Lys Cys Tyr Asn Glu Leu Asn Gly Cys Thr Lys Ile Tyr
1   5   10

<210> 117
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 117
Asn Gly Cys Thr Lys Ile Tyr Asp
1   5

<210> 118
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 118
Leu Asn Gly Cys Thr Lys Ile Tyr Asp Pro Val
1 5 10

<210> 119
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
peptide"

<400> 119
Cys Thr Lys Ile Tyr Asp Pro Val Cys Gly Thr
1 5 10

<210> 120
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic
polypeptide"

<400> 120
Asp Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu Cys Phe Glu Asn Arg
1 5 10 15

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

<210> 121
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 121
Gly Asn Thr Tyr Pro Asn Glu Cys Val Leu
1 5 10

<210> 122
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 122
Asn Arg Lys Arg Gln Thr Ser Ile Leu Ile Gln Lys Ser Gly Pro
1 5 10 15

<210> 123
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 123
Arg Lys Arg Gln Thr Ser Ile Leu Ile Gln
1 5 10

<210> 124
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 124
Asn Arg Lys Arg Gln Thr Ser Ile Leu Ile Gln

1 5 10

<210> 125
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<221> source
<223> /note="Description of Artificial Sequence: Synthetic peptide"

<400> 125
Cys Phe Glu Asn Arg Lys Arg Gln Thr Ser Ile Leu Ile
1 5 10