

6021256PCT ST25 (sequence listing)
SEQUENCE LISTING

<110> BAC IP B.V.

<120> Antigen-binding proteins that inhibit superantigens for the treatment of skin diseases

<130> P6021256PCT

<150> EP 08164044.3

<151> 2008-09-10

<150> US 61/095,770

<151> 2008-09-10

<160> 272

<170> PatentIn version 3.3

<210> 1

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<212> PRT

<213> Camelus sp.

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
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Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala
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Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
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Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
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6021256PCT ST25 (sequence listing)

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

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

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

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
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Ala Ala Glu Arg Lys Phe Tyr Gly Leu Gly Tyr Cys Ser Glu Tyr Gly
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Met Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
115 120 125

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

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

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

Ala Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Thr Arg Asp Asn Gly Lys Ser Val Val Tyr
Page 2

65 70 6021256PCT ST25 (sequence listing) 75 80

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

Ala Ala Asn Leu Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser
100 105 110

Asp Phe Asp Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Tyr
20 25 30

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

Ala Ala Ile Ser Trp Ser Gly Asp Ser Thr Asn Tyr Ala Asp Ser Val
50 55 60

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

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

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

Met Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
115 120 125

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

6021256PCT ST25 (sequence listing)

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

Ala Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val
50 55 60

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

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

Ala Ala Lys Pro Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser
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Asp Phe Asp Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

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<213> Camelus sp.

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

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

Ala Ala Ile Ser Phe Ser Gly Asp Ser Thr Ala Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Asp Ser His Tyr Gly Tyr Ser Glu Tyr Ile Arg Gly Leu Gly
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Met Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
115 120 125

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6021256PCT ST25 (sequence listing)

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Asp
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Arg Thr Val Asn Ser Tyr
20 25 30

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

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

Lys Gly Arg Phe Thr Met Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65 70 75 80

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

Ala Ala Asn Thr Tyr Tyr Arg Gly Gly Gly Tyr Leu Thr Glu Tyr Asn
100 105 110

Leu Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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<213> Camelus sp.

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

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

Ala Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val
50 55 60

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

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

Ala Ala Lys Pro Arg Gly Tyr Asn Ser Val Thr Tyr Tyr Arg Ala Ser
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Asp Phe Asp Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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<212> PRT
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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Thr Ile Asn Trp Ser Gly Gly Thr Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Val Arg Tyr Gly Gly Gly Gly Phe Phe Thr Asp Ser Lys Ser
100 105 110

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

<210> 13
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<212> PRT
<213> Camelus sp.

<400> 13

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

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

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

Ala Ala Ile Ser Phe Ser Gly Asp Ser Thr Asp Tyr Ala Asp Ser Val
50 55 60

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

6021256PCT ST25 (sequence listing)

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

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

Met Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 14
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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Arg Thr Phe Ser Thr Tyr
20 25 30

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

Ala Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val
50 55 60

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

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

Ala Ala Lys Pro Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser
100 105 110

Asp Phe Asp Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ser Leu Glu Ser Thr
20 25 30

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

6021256PCT ST25 (sequence listing)

Ser Cys Ile Ser Ser Gly Asp Thr Asn Thr Leu Tyr Val Asp Ser Val
50 55 60

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

Leu Asp Met Asn Arg Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Gly Val Asp Ser Gly Tyr Gly Cys Pro Ala Tyr Glu Tyr Asp
100 105 110

Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

Ala Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Asp Arg Glu Phe Val
35 40 45

Gly Thr Ile Asn Trp Ser Gly Ser Ser Thr Tyr Tyr Val Asp Ser Val
50 55 60

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

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

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

Tyr Ala Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

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<213> Camelus sp.

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
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6021256PCT ST25 (sequence listing)

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

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

Ala Thr Val Asn Trp Ser Gly Gly Ser Ser Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Thr Glu Tyr Gly Gly Ser Gly Tyr Leu Leu Gly Gly Leu Asp
100 105 110

Tyr His Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

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

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

Ala Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val
50 55 60

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

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

Ala Ala Asn Thr Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser
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Asp Phe Asp Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

6021256PCT ST25 (sequence listing)

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Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Pro Thr Phe Ser Arg Tyr
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 Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 Ala Ala Ile Ser Trp Ser Gly Asp Arg Thr Asp Tyr Ala Glu Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala Asp Ser His Tyr Gly Tyr Ser Glu Tyr Ile Arg Gly Leu Gly
 100 105 110
 Met Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Ser Val Arg Ala Gly Asp
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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Val Ser Thr Ser
 20 25 30
 Ala Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Gln Phe Val
 35 40 45
 Ala Ser Ile Ser Trp Thr Gly Asp Ser Thr Asn Tyr Ala Asp Ser Val
 50 55 60
 Arg Gly Arg Phe Thr Ile Ser Lys Glu Ala Thr Glu Asn Thr Asn Tyr
 65 70 75 80
 Leu Gln Met Asn Val Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

6021256PCT ST25 (sequence listing)

Ala Ala Gly Ser Gly Ile Tyr Ala Tyr Leu Tyr Thr Asp His Arg Ala
100 105 110

Tyr Glu Tyr Trp Gly Gln Gly Thr Gln Val Ser Val Ser Ser
115 120 125

<210> 21
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<212> PRT
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<400> 21

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

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

Ala Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val
50 55 60

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

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

Ala Ala Lys Pro Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser
100 105 110

Asp Phe Asp Phe Pro Gly Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 22
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<212> PRT
<213> Camelus sp.

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

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

Ala Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val
50 55 60

6021256PCT ST25 (sequence listing)

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

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

Ala Ala Asn Thr Arg Gly Tyr Asn Ser Gly Ser Tyr Tyr Arg Ala Ser
100 105 110

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

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<211> 129
<212> PRT
<213> Camelus sp.

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

Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg
35 40 45

Glu Gly Val Ser Cys Ile Ser Ser Ser Asp Gly Thr Thr Tyr Tyr Ala
50 55 60

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

Thr Val Thr Leu Gln Met Asn Gly Leu Lys Pro Glu Asp Thr Ala Val
85 90 95

Tyr Tyr Cys Ala Ala Asp Leu Phe Thr Ser Tyr Cys Ser Asp Pro Met
100 105 110

His Pro Arg Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
115 120 125

Ser

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<400> 24

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Glu
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Ala	Met	Gly ₃₅	Trp	Phe	Arg	Gln	Ala ₄₀	Pro	Gly	Lys	Glu	Arg ₄₅	Glu	Phe	Val										
Ala	Gly ₅₀	Ile	Ser	Gly	Ser	Gly ₅₅	Gly	Arg	Thr	Tyr	Tyr ₆₀	Glu	Asp	Ser	Val										
Lys ₆₅	Gly	Arg	Phe	Thr	Ile ₇₀	Ser	Arg	Asp	Asn	Ala ₇₅	Lys	Ser	Met	Val	Tyr ₈₀										
Leu	Gln	Met	Asn ₈₅	Ser	Leu	Lys	Leu	Glu	Asp ₉₀	Thr	Ala	Val	Tyr	Tyr ₉₅	Cys										
Ala	Ala	Ala	Asn ₁₀₀	Pro	Arg	Gly	Tyr	Asn ₁₀₅	Ser	Gly	Thr	Tyr	Tyr ₁₁₀	Arg	Ala										
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Ser	Leu	Arg	Leu ₂₀	Ser	Cys	Ala	Ala	Ser ₂₅	Gly	Arg	Thr	Tyr	Ser ₃₀	Ser	Tyr										
Ala	Met	Gly ₃₅	Trp	Phe	Arg	Gln	Ala ₄₀	Pro	Gly	Lys	Glu	Arg ₄₅	Glu	Phe	Val										
Ala	Ala	Ile	Asn	Trp	Ser	Gly ₅₅	Gly	Thr	Thr	Tyr	Tyr ₆₀	Thr	Asp	Ser	Val										
Lys ₆₅	Gly	Arg	Phe	Thr	Ile ₇₀	Ser	Arg	Asp	Asn	Ala ₇₅	Lys	Asn	Thr	Val	Tyr ₈₀										
Leu	Gln	Met	Asn ₈₅	Ser	Leu	Lys	Ser	Glu	Asp ₉₀	Thr	Ala	Val	Tyr	Tyr ₉₅	Cys										
Ala	Ala	Thr	Tyr ₁₀₀	Tyr	Gly	Gly	Gly	Gly ₁₀₅	Phe	Phe	Thr	Glu	Ser ₁₁₀	His	Gln										
Tyr	Asp	Tyr ₁₁₅	Trp	Gly	Gln	Gly	Thr ₁₂₀	Gln	Val	Thr	Val	Ser ₁₂₅	Ser												

6021256PCT ST25 (sequence listing)

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Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Asp Tyr
 20 25 30
 Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
 35 40 45
 Ser Trp Ile Ser Ser Ser Asp Gly Ser Thr Lys Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Gln Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala Ala Gln Leu Phe Ala Gly Ser Tyr Tyr Tyr Thr Ala Pro Glu
 100 105 110
 Trp Tyr Asp Tyr Trp Gly Gln Gly Thr Arg Val Thr Val Ser Ser
 115 120 125

<210> 27
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 <213> Camelus sp.

<400> 27

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
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 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Tyr Val Ser Ala Asn
 20 25 30
 Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 Ala Ala Ile Ser Trp Arg Gly Ser Ser Met Thr Ser Tyr Ala Asp Ser
 50 55 60
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Val
 65 70 75 80
 Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Arg
 85 90 95

6021256PCT ST25 (sequence listing)

Cys Ala Ala Gly His Thr Tyr Gly Ala Thr Met Thr Ala Pro Gly Ser
100 105 110

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

<210> 28
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<213> Camelus sp.

<400> 28

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Arg Thr Tyr Pro Met
20 25 30

Gly Trp Phe Arg Gln Ala Ser Gly Lys Glu Arg Asp Phe Val Ala Phe
35 40 45

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

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Val
85 90 95

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

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

<210> 29
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<213> Camelus sp.

<400> 29

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Tyr Val Ser Ala Asn
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Thr Trp Ser Gly Thr Asp Thr Thr Tyr Ala Asp Ser Val
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6021256PCT ST25 (sequence listing)

50

55

60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Ser Cys
 85 90 95

Ala Ala Gly His Thr Tyr Gly Ala Ile Met Thr Ala Pro Gly Ser Phe
 100 105 110

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

<210> 30

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

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

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

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

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

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

Val Lys Ser His Ile Pro Pro Asn Trp Gly Gly Pro Thr Pro Glu Tyr
 100 105 110

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

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<213> Camelus sp.

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

6021256PCT ST25 (sequence listing)

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

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

Ala His Ile Ser Tyr Asn Gly Ala Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Thr Thr Ser Tyr Leu Gly Gly Ser Tyr Leu Tyr Ser Pro Arg
100 105 110

Glu Tyr Glu Tyr Trp Gly Pro Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 32

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

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Ser Trp Arg Gly Ser Ser Thr Ser Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Gly His Thr His Gly Ala Thr Met Thr Ala Pro Gly Asn Phe
100 105 110

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

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6021256PCT ST25 (sequence listing)

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<213> Camelus sp.

<400> 33

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Tyr Val Glu Ala Asn
20 25 30
Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45
Ala Ala Ile Ala Trp Arg Gly Ser Ala Thr Ser Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys
85 90 95
Ala Ser Gly His Thr His Gly Ala Thr Met Thr Ala Pro Gly Ser Phe
100 105 110
Gly Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 34
<211> 117
<212> PRT
<213> Camelus sp.

<400> 34

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Thr Ile Phe Ser Pro Asp
20 25 30
Ala Leu Gly Trp Tyr Arg Gln Ala Pro Gly Lys Leu Arg Glu Trp Val
35 40 45
Ala Thr Ile Asn Met Gly Gly Asp Thr Asn Tyr Val Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Lys Thr Val Tyr Leu
65 70 75 80
Gln Met Asp Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
85 90 95
Leu Gln Ser His Tyr Thr Ser Arg Ile Tyr Trp Gly Gln Gly Thr Gln
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6021256PCT ST25 (sequence listing)

100

105

110

Val Thr Val Ser Ser
115

<210> 35
<211> 127
<212> PRT
<213> Camelus sp.

<400> 35

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

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

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

Ala His Ile Thr Tyr Asn Gly Ala Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Thr Thr Ser Tyr Leu Gly Gly Ser Tyr Leu Tyr Ser Pro Arg
100 105 110

Glu Tyr Glu Tyr Trp Gly Pro Gly Thr His Val Thr Val Ser Ser
115 120 125

<210> 36
<211> 125
<212> PRT
<213> Camelus sp.

<400> 36

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Tyr Val Ser Ala Asn
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Thr Ile Ser Trp Arg Gly Ser Ser Thr Ser Tyr Val Asp Ser Val
50 55 60

6021256PCT ST25 (sequence listing)

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

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

Ala Ala Gly His Ser Val Gly Ala Thr Met Thr Ala Pro Gly Ser Phe
100 105 110

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

<210> 37
<211> 117
<212> PRT
<213> Camelus sp.

<400> 37

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Thr Ile Phe Ser Pro Asp
20 25 30

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

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

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

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

Leu Gln Ser His Tyr Thr Ser Arg Val Tyr Trp Gly Lys Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 38
<211> 125
<212> PRT
<213> Camelus sp.

<400> 38

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Trp Val Ser Ala Asn
20 25 30

6021256PCT ST25 (sequence listing)

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

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

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

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

Ala Ala Gly His Thr Tyr Gly Ala Thr Met Thr Ala Pro Gly Ser Phe
100 105 110

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

<210> 39
<211> 125
<212> PRT
<213> Camelus sp.

<400> 39

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Tyr Val Ser Ala Asn
20 25 30

Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Ala Ile Ser Trp Arg Gly Ser Ser Thr Ser Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Thr Gly His Thr His Gly Ala Thr Met Thr Ala Pro Gly Arg Phe
100 105 110

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

<210> 40
<211> 125
<212> PRT
<213> Camelus sp.

6021256PCT ST25 (sequence listing)

<400> 40

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Tyr Val Ser Ala Asn
20 25 30
Asp Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45
Ala Ala Ile Ser Trp Arg Gly Ser Ser Thr Ser Tyr Gly Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ala Val Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys
85 90 95
Ala Ala Gly His Thr His Gly Ala Thr Met Thr Ala Pro Gly Arg Phe
100 105 110
Ala Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 41

<211> 126

<212> PRT

<213> Camelus sp.

<400> 41

Gln Val Gln Leu Gln Glu Ser Gly Gly Ala Leu Val Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Asp Tyr
20 25 30
Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45
Ser Cys Thr Ser Ser Ser Asp Gly Tyr Thr Tyr Tyr Val Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp His Ala Lys Asn Met Val Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Thr Glu His Ala Pro Ala Gly Tyr Pro Cys Glu Ser Val Ala Glu
100 105 110

6021256PCT ST25 (sequence listing)

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

<210> 42
<211> 123
<212> PRT
<213> Camelus sp.

<400> 42

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Gly Ile Asn
20 25 30

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

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

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

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

Val Lys Ser His Phe Pro Pro Asn Trp Gly Gly Pro Thr Pro Asp Tyr
100 105 110

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

<210> 43
<211> 112
<212> PRT
<213> Camelus sp.

<400> 43

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

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

Ala Gly Ile Ser Trp Thr Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val
50 55 60

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

6021256PCT ST25 (sequence listing)

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

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

<210> 44
<211> 126
<212> PRT
<213> Camelus sp.

<400> 44

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

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

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

Ala Gly Ile Thr Trp Thr Thr Ser Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Thr Ser Arg Ser Thr Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 45
<211> 124
<212> PRT
<213> Camelus sp.

<400> 45

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Thr Gly Gly
1 5 10 15

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

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Asp Phe Val
35 40 45

Ala Ala Ile Thr Trp Gly Gly Gly Gly Thr His Tyr Ala Asp Ser Val
50 55 60

6021256PCT ST25 (sequence listing)

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

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

Ala Ala Cys Pro Ile His Tyr Ile Gly Ser Asp Tyr Ser Asp Tyr Asp
100 105 110

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

<210> 46
<211> 126
<212> PRT
<213> Camelus sp.

<400> 46

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Arg Ala Thr Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 47
<211> 126
<212> PRT
<213> Camelus sp.

<400> 47

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Thr Tyr
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6021256PCT ST25 (sequence listing)

20

25

30

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

Ala Gly Ile Thr Trp Thr Thr Gly Thr Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Arg Ala Thr Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 48
<211> 126
<212> PRT
<213> Camelus sp.
<400> 48

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

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

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

Ala Gly Ile Thr Trp Thr Thr Ser Ser Thr Thr Tyr Ala Asp Thr Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr His Cys
85 90 95

Ala Ala Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 49
<211> 125
<212> PRT

6021256PCT ST25 (sequence listing)

<213> Camelus sp.

<400> 49

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

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

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

Ala Ala Ala Gly Val Ser Tyr Tyr Ile Gly Leu Arg Asn Gly Asp Tyr
100 105 110

Arg Val Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 50

<211> 126

<212> PRT

<213> Camelus sp.

<400> 50

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

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

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

Ala Gly Ile Thr Trp Asn Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ser Ser Arg Ala Ala Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

6021256PCT ST25 (sequence listing)

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

<210> 51
<211> 126
<212> PRT
<213> Camelus sp.

<400> 51

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

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

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 52
<211> 126
<212> PRT
<213> Camelus sp.

<400> 52

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

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

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

Ala Gly Ile Thr Trp Thr Thr Ser Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Ile Ala Lys Asn Thr Val Tyr
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65 70 6021256PCT ST25 (sequence listing) 75 80

Leu Gln Met Asn Ser₈₅ Leu Lys Pro Glu₉₀ Asp Thr Ala Val Tyr Tyr₉₅ Cys

Ala Ala Ser Arg₁₀₀ Ala Thr Ser Ser Val₁₀₅ Asn Trp Tyr Gln Tyr₁₁₀ His Asp

Tyr Asn Asn₁₁₅ Trp Gly Gln Gly Thr₁₂₀ Gln Val Thr Val Ser₁₂₅ Ser

<210> 53
 <211> 126
 <212> PRT
 <213> Camelus sp.

<400> 53

Gln Val Gln Leu₅ Gln Asp Ser Gly Gly₁₀ Leu Val Gln Ala Gly₁₅ Gly

Ser Leu Arg Leu₂₀ Ser Cys Ala Ala Ser₂₅ Gly Arg Thr Phe Ser₃₀ Ser Tyr

Ala Met Ala₃₅ Trp Leu Arg Gln Thr₄₀ Pro Gly Lys Glu Arg₄₅ Glu Phe Val

Ala Gly₅₀ Ile Thr Trp Ala Thr₅₅ Ser Ser Thr Thr Tyr₆₀ Thr Asp Ser Ala

Lys Gly Arg Phe Thr Ile₇₀ Ser Arg Asp Ser Ala₇₅ Gln Asn Thr Val Tyr₈₀

Leu Gln Met Asn Ser₈₅ Leu Lys Ser Glu₉₀ Asp Thr Ala Val Tyr Tyr₉₅ Cys

Ala Ala Ser Gly₁₀₀ Pro Ser Asn Gly Ile₁₀₅ His Trp Tyr Arg Tyr₁₁₀ Ser Asp

Tyr Asn Asn₁₁₅ Trp Gly Gln Gly Thr₁₂₀ Gln Val Thr Val Ser₁₂₅ Ser

<210> 54
 <211> 126
 <212> PRT
 <213> Camelus sp.

<400> 54

Gln Val Gln Leu₅ Gln Asp Ser Gly Gly₁₀ Leu Val Gln Ala Gly₁₅ Gly

Ser Leu Arg Leu₂₀ Ser Cys Ala Ala Ser₂₅ Gly Arg Thr Phe Gly₃₀ Ser Tyr

6021256PCT ST25 (sequence listing)

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ala Val
50 55 60

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

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

Ala Ala Ser Arg Ala Thr Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 55
<211> 126
<212> PRT
<213> Camelus sp.

<400> 55

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

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

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Arg Ala Ala Tyr Ser Val Asn Trp Tyr Gln Asp His Asp
100 105 110

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

<210> 56
<211> 126
<212> PRT
<213> Camelus sp.

<400> 56

6021256PCT ST25 (sequence listing)

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ala Gly Ile Thr Trp Ala Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

Leu His Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ser Arg Ala Ala Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

Tyr Asn Thr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ala
115 120 125

<210> 57
<211> 126
<212> PRT
<213> Camelus sp.

<400> 57

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Thr Ser Arg Ala Ala Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

Tyr Asn Asn Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser

6021256PCT ST25 (sequence listing)

115

120

125

<210> 58
 <211> 126
 <212> PRT
 <213> Camelus sp.

<400> 58

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

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

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
 50 55 60

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

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

Ala Ala Ser Arg Ala Thr Met Ser Val Asn Trp Tyr Gln Tyr His Asp
 100 105 110

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

<210> 59
 <211> 126
 <212> PRT
 <213> Camelus sp.

<400> 59

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
 1 5 10 15

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

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
 50 55 60

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

6021256PCT ST25 (sequence listing)

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

Ala Ala Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 60
<211> 126
<212> PRT
<213> Camelus sp.

<400> 60

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

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

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Pro Val
50 55 60

Lys Gly Arg Tyr Thr Val Ser Arg Asp Asn Ala Glu Asn Thr Gly Tyr
65 70 75 80

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

Thr Ala Ser Arg Ala Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 61
<211> 126
<212> PRT
<213> Camelus sp.

<400> 61

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1 5 10 15

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

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

6021256PCT ST25 (sequence listing)

Ala Gly Ile Thr Trp Thr Thr Ser Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ser Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

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

<210> 62
<211> 124
<212> PRT
<213> Camelus sp.

<400> 62

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

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

Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Asp Phe Val
35 40 45

Ala Ala Ile Ser Trp Gly Gly Asp Gly Thr His Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Gly Thr Ile Tyr Tyr Ile Gly Ser Asp Tyr Ser Asp Tyr Asn
100 105 110

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

<210> 63
<211> 126
<212> PRT
<213> Camelus sp.

<400> 63

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

6021256PCT ST25 (sequence listing)

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

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Val Tyr Arg Asp Asn Ala Gln Asn Thr Val Tyr
65 70 75 80

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

Ala Ala Ser Arg Ser Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp
100 105 110

Tyr Asn Asn Trp Gly Gln Gly Asn Gln Val Asn Val Ser Ser
115 120 125

<210> 64
<211> 126
<212> PRT
<213> Camelus sp.

<400> 64

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

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

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

Ser Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Arg Ala Ala Asn Ser Val Asn Trp Tyr Gln Asp His Asp
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Tyr Asn Val Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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 35 40 45
 Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Glu Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Ala Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp
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 Tyr Asn Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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 35 40 45
 Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Glu Asn Thr Met Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

6021256PCT ST25 (sequence listing)

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

Glu Met Asn Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala
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Ala Val Ile Ser Arg Gly Gly Leu Tyr Thr Asp Tyr Ala Glu Ser Val
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6021256PCT ST25 (sequence listing)

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

Ala Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val
50 55 60

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

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

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Tyr Asn Asn Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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Gly 65	Arg	Phe	Thr	Ile	Ser 70	Arg	Asp	Asn	Ala	Glu 75	Asn	Met	Ala	Tyr	Leu 80	
Gln	Met	Asn	Ser	Leu 85	Lys	Pro	Glu	Asp	Thr 90	Ala	Val	Tyr	Tyr	Cys 95	Ala	
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Ala	Ser	Gly	Pro 100	Tyr	Tyr	Ile	Gly	Thr 105	Leu	Ser	Ser	Glu	Tyr 110	Asp	Tyr	
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6021256PCT ST25 (sequence listing)

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Pro Thr Phe Ser Arg Tyr Ala Met Gly
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Leu Tyr Val Ser Ala Asn Asp Met Gly
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Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val Lys
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Gly Ile Ser Gly Ser Gly Gly Arg Thr Tyr Tyr Glu Asp Ser Val Lys
1 5 10 15

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<400> 176

Val Ile Thr Ser Gly Gly Thr Thr Thr Tyr Ala Asn Ser Val Lys
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<400> 177

Gly Ile Ser Trp Thr Gly Gly Asn Thr Tyr Tyr Ala Asp Ser Val Lys
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6021256PCT ST25 (sequence listing)

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<400> 178

Gly Ile Thr Trp Thr Thr Ser Ser Thr Thr Tyr Ala Asp Ser Val Lys
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1 5 10 15

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1 5 10 15

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Gly Ile Thr Trp Thr Thr Gly Thr Thr Thr Tyr Ala Asp Ser Val Lys
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Gly Ile Thr Trp Thr Thr Ser Ser Thr Thr Tyr Ala Asp Thr Val Lys
1 5 10 15

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<400> 183

Ala Ile Ser Trp Ser Gly Gly Ile Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

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6021256PCT ST25 (sequence listing)

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<400> 185

Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
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<211> 16

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Gly Ile Thr Trp Thr Thr Ser Ser Thr Thr Tyr Ala Asp Ser Val Lys
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<400> 187

Gly Ile Thr Trp Ala Thr Ser Ser Thr Thr Tyr Thr Asp Ser Ala Lys
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<211> 16

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<400> 188

Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ala Val Lys
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<400> 189

Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
1 5 10 15

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<211> 16

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<400> 190

Gly Ile Thr Trp Ala Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys

6021256PCT ST25 (sequence listing)

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 1 5 10 15

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Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
 1 5 10 15

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Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
 1 5 10 15

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Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Pro Val Lys
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Gly Ile Thr Trp Thr Thr Ser Ser Thr Thr Tyr Ala Asp Ser Val Lys
 1 5 10 15

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Ala Ile Ser Trp Gly Gly Asp Gly Thr His Tyr Ala Asp Ser Val Lys
 1 5 10 15

6021256PCT ST25 (sequence listing)

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1 5 10 15

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Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
1 5 10 15

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Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
1 5 10 15

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<400> 200

Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
1 5 10 15

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<400> 201

Thr Ile Ser Trp Gly Gly Gly Thr His Tyr Ala Asp Ser Val Lys
1 5 10 15

<210> 202
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<400> 202

Val Ile Ser Arg Gly Gly Leu Tyr Thr Asp Tyr Ala Glu Ser Val Lys
1 5 10 15

<210> 203
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6021256PCT ST25 (sequence listing)

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<400> 203

Gly Ile Thr Trp Thr Thr Gly Ser Thr Thr Tyr Ala Asp Ser Val Lys
1 5 10 15

<210> 204

<211> 15

<212> PRT

<213> Camelus sp.

<400> 204

Ala Ile Ser Trp Ser Gly Thr Ala Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

<210> 205

<211> 15

<212> PRT

<213> Camelus sp.

<400> 205

Ala Ile Ser Trp Ser His Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

<210> 206

<211> 17

<212> PRT

<213> Camelus sp.

<400> 206

Glu Arg Lys Phe Tyr Gly Leu Gly Tyr Cys Ser Glu Tyr Gly Met Asp
1 5 10 15

Tyr

<210> 207

<211> 18

<212> PRT

<213> Camelus sp.

<400> 207

Asn Leu Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser Asp Phe
1 5 10 15

Asp Ser

<210> 208

<211> 17

<212> PRT

<213> Camelus sp.

<400> 208

Asp Ser His Tyr Gly Tyr Ser Glu Tyr Ile Arg Gly Leu Gly Met Asp
1 5 10 15

6021256PCT ST25 (sequence listing)

Tyr

<210> 209
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<400> 209

Lys Pro Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser Asp Phe
 1 5 10 15

Asp Ser

<210> 210
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 <212> PRT
 <213> Camelus sp.

<400> 210

Asp Ser His Tyr Gly Tyr Ser Glu Tyr Ile Arg Gly Leu Gly Met Asp
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Tyr

<210> 211
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 <212> PRT
 <213> Camelus sp.

<400> 211

Asn Thr Tyr Tyr Arg Gly Gly Gly Tyr Leu Thr Glu Tyr Asn Leu
 1 5 10 15

<210> 212
 <211> 18
 <212> PRT
 <213> Camelus sp.

<400> 212

Lys Pro Arg Gly Tyr Asn Ser Val Thr Tyr Tyr Arg Ala Ser Asp Phe
 1 5 10 15

Asp Ser

<210> 213
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 <212> PRT
 <213> Camelus sp.

<400> 213

6021256PCT ST25 (sequence listing)

Val Arg Tyr Gly Gly Gly Gly Phe Phe Thr Asp Ser Lys Ser Phe Asp
1 5 10 15

Tyr

<210> 214
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<213> Camelus sp.

<400> 214

Asp Ser His Tyr Gly Tyr Ser Glu Tyr Ile Arg Gly Leu Gly Met Asp
1 5 10 15

Tyr

<210> 215
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<213> Camelus sp.

<400> 215

Lys Pro Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser Asp Phe
1 5 10 15

Asp Ser

<210> 216
<211> 15
<212> PRT
<213> Camelus sp.

<400> 216

Gly Val Asp Ser Gly Tyr Gly Cys Pro Ala Tyr Glu Tyr Asp Ser
1 5 10 15

<210> 217
<211> 17
<212> PRT
<213> Camelus sp.

<400> 217

Ser His Tyr Gly Gly Ser Gly Tyr Leu Leu Glu Gln Arg Ser Tyr Ala
1 5 10 15

Tyr

<210> 218
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<213> Camelus sp.

6021256PCT ST25 (sequence listing)

<400> 218

Thr Glu Tyr Gly Gly Ser Gly Tyr Leu Leu Gly Gly Leu Asp Tyr His
1 5 10 15

Tyr

<210> 219

<211> 18

<212> PRT

<213> Camelus sp.

<400> 219

Asn Thr Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser Asp Phe
1 5 10 15

Asp Ser

<210> 220

<211> 17

<212> PRT

<213> Camelus sp.

<400> 220

Asp Ser His Tyr Gly Tyr Ser Glu Tyr Ile Arg Gly Leu Gly Met Asp
1 5 10 15

Tyr

<210> 221

<211> 17

<212> PRT

<213> Camelus sp.

<400> 221

Gly Ser Gly Ile Tyr Ala Tyr Leu Tyr Thr Asp His Arg Ala Tyr Glu
1 5 10 15

Tyr

<210> 222

<211> 18

<212> PRT

<213> Camelus sp.

<400> 222

Lys Pro Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser Asp Phe
1 5 10 15

Asp Phe

6021256PCT ST25 (sequence listing)

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<400> 223

Asn Thr Arg Gly Tyr Asn Ser Gly Ser Tyr Tyr Arg Ala Ser Asp Phe
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Asp Ser

<210> 224
 <211> 17
 <212> PRT
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<400> 224

Asp Leu Phe Thr Ser Tyr Cys Ser Asp Pro Met His Pro Arg Tyr Asp
 1 5 10 15

Tyr

<210> 225
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<400> 225

Ala Asn Pro Arg Gly Tyr Asn Ser Gly Thr Tyr Tyr Arg Ala Ser Asp
 1 5 10 15

Phe Asp Ser

<210> 226
 <211> 17
 <212> PRT
 <213> Camelus sp.

<400> 226

Thr Tyr Tyr Gly Gly Gly Gly Phe Phe Thr Glu Ser His Gln Tyr Asp
 1 5 10 15

Tyr

<210> 227
 <211> 18
 <212> PRT
 <213> Camelus sp.

<400> 227

Ala Gln Leu Phe Ala Gly Ser Tyr Tyr Tyr Thr Ala Pro Glu Trp Tyr
 Page 65

6021256PCT ST25 (sequence listing)

1 5 10 15

Asp Tyr

<210> 228
<211> 16
<212> PRT
<213> Camelus sp.

<400> 228

Gly His Thr Tyr Gly Ala Thr Met Thr Ala Pro Gly Ser Phe Asp Ser
1 5 10 15

<210> 229
<211> 17
<212> PRT
<213> Camelus sp.

<400> 229

Thr Leu Phe His Gly Ser Asp Tyr Tyr Thr Ser Ala Ser Glu Tyr Asp
1 5 10 15

Tyr

<210> 230
<211> 16
<212> PRT
<213> Camelus sp.

<400> 230

Gly His Thr Tyr Gly Ala Ile Met Thr Ala Pro Gly Ser Phe Gly Ser
1 5 10 15

<210> 231
<211> 15
<212> PRT
<213> Camelus sp.

<400> 231

Lys Ser His Ile Pro Pro Asn Trp Gly Gly Pro Thr Pro Glu Tyr
1 5 10 15

<210> 232
<211> 18
<212> PRT
<213> Camelus sp.

<400> 232

Thr Thr Ser Tyr Leu Gly Gly Ser Tyr Leu Tyr Ser Pro Arg Glu Tyr
1 5 10 15

Glu Tyr

6021256PCT ST25 (sequence listing)

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<400> 233

Gly His Thr His Gly Ala Thr Met Thr Ala Pro Gly Asn Phe Asp Ser
 1 5 10 15

<210> 234
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<400> 234

Gly His Thr His Gly Ala Thr Met Thr Ala Pro Gly Ser Phe Gly Ser
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<400> 235

Gln Ser His Tyr Thr Ser Arg Ile Tyr
 1 5

<210> 236
 <211> 18
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 <213> Camelus sp.

<400> 236

Thr Thr Ser Tyr Leu Gly Gly Ser Tyr Leu Tyr Ser Pro Arg Glu Tyr
 1 5 10 15

Glu Tyr

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<400> 237

Gly His Ser Val Gly Ala Thr Met Thr Ala Pro Gly Ser Phe Ser Ser
 1 5 10 15

<210> 238
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<400> 238

Gln Ser His Tyr Thr Ser Arg Val Tyr
 1 5

6021256PCT ST25 (sequence listing)

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Gly His Thr Tyr Gly Ala Thr Met Thr Ala Pro Gly Ser Phe Gly Ser
 1 5 10 15

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<400> 240

Gly His Thr His Gly Ala Thr Met Thr Ala Pro Gly Arg Phe Gly Ser
 1 5 10 15

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<400> 241

Gly His Thr His Gly Ala Thr Met Thr Ala Pro Gly Arg Phe Ala Ser
 1 5 10 15

<210> 242
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<400> 242

Glu His Ala Pro Ala Gly Tyr Pro Cys Glu Ser Val Ala Glu Tyr Asp
 1 5 10 15

Tyr

<210> 243
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<400> 243

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

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 <213> Camelus sp.

<400> 244

Tyr Asp Gly

6021256PCT ST25 (sequence listing)

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Ser Arg Ser Thr Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
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Thr

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<400> 246

Cys Pro Ile His Tyr Ile Gly Ser Asp Tyr Ser Asp Tyr Asp Phe
 1 5 10 15

<210> 247
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<400> 247

Ala Thr Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn Asn
 1 5 10 15

<210> 248
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<400> 248

Ser Arg Ala Thr Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
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Asn

<210> 249
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<400> 249

Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Tyr
 1 5 10 15

Asn

6021256PCT ST25 (sequence listing)

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<400> 250

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<210> 251
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 <213> Camelus sp.

<400> 251

Ser Arg Ala Ala Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
 1 5 10 15

Thr

<210> 252
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<400> 252

Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
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Asn

<210> 253
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 <213> Camelus sp.

<400> 253

Ser Arg Ala Thr Ser Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
 1 5 10 15

Asn

<210> 254
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Ser Gly Pro Ser Asn Gly Ile His Trp Tyr Arg Tyr Ser Asp Tyr Asn
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Asn

6021256PCT ST25 (sequence listing)

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<400> 255

Ser Arg Ala Thr Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
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Asn

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<400> 256

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 1 5 10 15

Asn

<210> 257
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<400> 257

Ser Arg Ala Ala Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
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Thr

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Ser Arg Ala Ala Tyr Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
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Asn

<210> 259
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6021256PCT ST25 (sequence listing)

Ser Arg Ala Thr Met Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
1 5 10 15

Asn

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<400> 260

Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
1 5 10 15

Asn

<210> 261
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<213> Camelus sp.

<400> 261

Ser Arg Ala Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
1 5 10 15

Asn

<210> 262
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<400> 262

Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
1 5 10 15

Asn

<210> 263
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<400> 263

Gly Thr Ile Tyr Tyr Ile Gly Ser Asp Tyr Ser Asp Tyr Asn Phe
1 5 10 15

<210> 264
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6021256PCT ST25 (sequence listing)

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Ser Arg Ser Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
1 5 10 15

Asn

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Ser Arg Ala Ala Asn Ser Val Asn Trp Tyr Gln Asp His Asp Tyr Asn
1 5 10 15

Val

<210> 266
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Ser Arg Gly Thr Asn Ser Val Asn Trp Tyr Gln Tyr His Asp Tyr Asn
1 5 10 15

Ser

<210> 267
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Ser Arg Ala Thr Asp His Val Asn Trp Tyr Gln Tyr Arg Asp Tyr Asn
1 5 10 15

Asn

<210> 268
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<400> 268

Gly Pro Ile His Tyr Ile Ser Asn Asp Tyr Ser Asp Tyr Asn Phe
1 5 10 15

<210> 269
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6021256PCT ST25 (sequence listing)

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<400> 269

Asp Leu Ser Ala Val Gly Ser Arg Ile Glu Ala Gly Arg Ala Arg Asp
1 5 10 15

Ser Asn Glu Tyr Asp Tyr
20

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<213> Camelus sp.

<400> 270

Ser Arg Gly Ile Asn Ser Val His Trp Tyr Glu Tyr Gln Asp Tyr Asn
1 5 10 15

Asn

<210> 271
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<213> Camelus sp.

<400> 271

Gly Gly Pro Tyr Tyr Ile Gly Thr Ser Tyr Gln Glu Tyr Asp Tyr
1 5 10 15

<210> 272
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<400> 272

Ser Gly Pro Tyr Tyr Ile Gly Thr Leu Ser Ser Glu Tyr Asp Tyr
1 5 10 15