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<151> 2017-04-27
<150> PCT/CN2017/076462
<151> 2017-03-13
<150> PCT/CN2016/102720
<151> 2016-10-20
<160> 107
<170> PatentIn version 3.5
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Gln Val Gln Leu Gln Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

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

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Gly Ile Ala Ser Asn
20 25 30

Phe Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Val Pro Thr Thr Val
35 40 45

Ile Tyr Arg Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
 50 55 60

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

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

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

Met Val Thr Val Ser Ala
 115

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

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

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

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

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

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

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

Ala Arg Glu Ser Asn Phe Arg Ala Phe Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ala
115

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

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

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala

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85

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Leu Gln Ile Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys
100 105 110

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<213> Homo sapiens

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Glu Val Gln Leu Val 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 Phe Thr Phe Ile Asp Ala
20 25 30

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

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

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

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

Arg Gly Ala Arg Gly His Pro Gly Gln Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ala
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<212> PRT

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Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Thr Ile Ala Ser Asn
20 25 30

Phe Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Pro Val
35 40 45

Ile Phe Glu Asn Asp Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Ser
65 70 75 80

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

Ser Thr His Gly Trp Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu
100 105 110

<210> 9

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<213> Homo sapiens

<400> 9

Gln Val Asn Leu Arg 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 Phe Thr Phe Ser Asp Tyr
20 25 30

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

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

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

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

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

Val Thr Val Ser Ala
 115

<210> 10
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<400> 10

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

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn
 20 25 30

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

Ile Tyr Arg Asn His Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg

65 70 75 80

Ser Gly Phe Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
100 105 110

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<400> 11

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

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

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

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

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

Cys Ala Asn Thr Asp Tyr Tyr Asp Ser Ser Ser His Thr Pro Ala Asp
85 90 95

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
100 105

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<400> 12

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

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

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

Ser Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Gly Gly Ser Gly Ser Glu Phe Thr Leu Thr Ile His Ser Leu Glu Ser
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ile Thr Pro Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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<212> PRT

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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 Phe Thr Phe Ser Ser Tyr
20 25 30

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

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

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

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

Ala Lys Gly Arg Tyr Tyr Tyr Asp Ser Leu Asp Ala Phe Asp Ile Trp
100 105 110

Gly Gln Gly Thr Met Val Thr Val Ser Ala
115 120

<210> 14
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<213> Homo sapiens

<400> 14

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

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

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

Ile Tyr Tyr Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu

65 70 75 80

Pro Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys
100 105

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<400> 15

Gln Val Gln Leu Val 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 Phe Thr Phe Ser Ser Tyr
20 25 30

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

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

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

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

Ala Lys Asp Lys Trp Ser Ser Trp Pro Thr Tyr Tyr Phe Asp Tyr Trp
100 105 110

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

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<400> 16

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn
 20 25 30

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val
 35 40 45

Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
 50 55 60

Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly
 65 70 75 80

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

Ser Asn Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105 110

<210> 17
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<400> 17

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

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

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

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

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

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

Ala Lys Arg Thr Arg Gln Leu Leu Thr Pro Arg Glu Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Leu Val Thr Val Leu Ala
115 120

<210> 18
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<212> PRT
<213> Homo sapiens

<400> 18

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

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

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

Tyr Asp Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly

168782_010105_sequence

50

55

60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
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<213> Homo sapiens

<400> 19

Gln Val Asn Leu Arg Glu Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly
1 5 10 15

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

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

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

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

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

Ala Arg Arg Val Asn Arg Ala Phe Asp Leu Trp Gly Arg Gly Thr Leu
100 105 110

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Val Thr Val Ser Ala
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<400> 20

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

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

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

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

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

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

Pro Met Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 21
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<213> Homo sapiens

<400> 21

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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 Ser Gly Phe Thr Phe Ser Asn Ala
20 25 30

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

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

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

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

Tyr Cys Thr Thr Asp Lys Ser Tyr Gly Tyr Thr Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

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

Arg Val Thr Ile Ser Cys Ser Gly Ser Gly Ser Asn Ile Gly Ser Asn
20 25 30

Ser Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu

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35

40

45

Ile Tyr Thr Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Ile Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln
65 70 75 80

Ser Glu Asp Glu Ala Val Tyr Tyr Cys Ala Thr Trp Asp Asp Arg Leu
85 90 95

Ser Gly Pro Val Phe Ala Ala Gly Thr Lys Leu Thr Val Leu
100 105 110

<210> 23
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<212> PRT
<213> Homo sapiens

<400> 23

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

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

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

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

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

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

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Ala Arg Asp Arg Ser Leu Ser Phe Gly Phe Asp Ile Trp Gly Gln Gly
 100 105 110

Thr Leu Val Ser Val Ser Gly
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<210> 24
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<400> 24

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Gly Ser Pro Gly Lys
 1 5 10 15

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Ser Ile Gly Ser Thr
 20 25 30

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Pro Pro Thr Thr Val
 35 40 45

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

Gly Ser Ile Asp Gly Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly
 65 70 75 80

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

Ser Asn Leu Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu
 100 105 110

<210> 25
 <211> 121
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<213> Homo sapiens

<400> 25

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

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

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

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

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

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

Ala Lys Gly Ala Ala Tyr His Ile Asn Ser Trp Leu Asp Pro Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 26

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<400> 26

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

Glu Arg Val Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Gly Asn

168782_010105_sequence

20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Gly Ala Phe Arg Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

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

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Tyr Asn Asn Phe Pro
85 90 95

His Thr Phe Gly Ala Gly Thr Lys Val Asp Ile Lys
100 105

<210> 27
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<400> 27

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

168782_010105_sequence

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

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

Met Val Thr Val Ser Ala
115

<210> 28
<211> 113
<212> PRT
<213> Homo sapiens

<400> 28

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 Lys Ser Ser Gln Ser Val Leu Tyr Gln
20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

168782_010105_sequence

Lys

<210> 29
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<400> 29

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
 50 55 60

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

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

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

Met Val Thr Val Ser Ala
 115

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<400> 30

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 Lys Ser Ser Gln Thr Val Leu Tyr Pro
20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 31

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<213> Homo sapiens

<400> 31

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
 50 55 60

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

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

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

Met Val Thr Val Ser Ala
 115

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<400> 32

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 Lys Ser Ser Gln Ser Val Leu Tyr Ala
 20 25 30

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

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

168782_010105_sequence

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

168782_010105_sequence

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

Met Val Thr Val Ser Ala
 115

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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 Lys Ser Ser Gln Ser Val Leu Tyr Pro
 20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 35

168782_010105_sequence

<211> 118
 <212> PRT
 <213> Homo sapiens

<400> 35

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
 50 55 60

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

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

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

Met Val Thr Val Ser Ala
 115

<210> 36
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 36

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

168782_010105_sequence

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Pro
20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 37

<211> 118

<212> PRT

<213> Homo sapiens

<400> 37

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

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

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

168782_010105_sequence

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Met Val Thr Val Ser Ala
115

<210> 38
<211> 113
<212> PRT
<213> Homo sapiens

<400> 38

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Ile Tyr Tyr Cys Gln Gln

168782_010105_sequence

85

90

95

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 39

<211> 118

<212> PRT

<213> Homo sapiens

<400> 39

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Ala Gly Gly Ala His Ser Ser Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ala
115

168782_010105_sequence

<210> 40
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 40

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 41
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 41

168782_010105_sequence

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Ala Gly Gly Gln His Ser Ser Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ala
115

<210> 42

<211> 113

<212> PRT

<213> Homo sapiens

<400> 42

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

Ser Asn Asn Arg Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln

168782_010105_sequence

35

40

45

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 43

<211> 118

<212> PRT

<213> Homo sapiens

<400> 43

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

168782_010105_sequence

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

Tyr Cys Ala Gly Ser Ala Tyr Ala Phe Asp Ala Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ala
115

<210> 44
<211> 113
<212> PRT
<213> Homo sapiens

<400> 44

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

168782_010105_sequence

Lys

<210> 45
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 45

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
 50 55 60

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

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

Tyr Cys Ala Gly Ser Ala Tyr Ala Phe Asp Ser Trp Gly Gln Gly Thr
 100 105 110

Met Val Thr Val Ser Ala
 115

<210> 46
 <211> 113
 <212> PRT
 <213> Homo sapiens

168782_010105_sequence

<400> 46

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 47

<211> 118

<212> PRT

<213> Homo sapiens

<400> 47

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

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

168782_010105_sequence

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Ala Gly Ser Asp Arg Ala Ser Asp Lys Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ala
115

<210> 48
<211> 113
<212> PRT
<213> Homo sapiens

<400> 48

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

168782_010105_sequence

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 49
<211> 118
<212> PRT
<213> Homo sapiens

<400> 49

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

168782_010105_sequence

Tyr Cys Ala Gly Ser Ala Tyr Ala Phe Asp Thr Trp Gly Gln Gly Thr
 100 105 110

Met Val Thr Val Ser Ala
 115

<210> 50
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 50

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 51

168782_010105_sequence

<211> 118
 <212> PRT
 <213> Homo sapiens

<400> 51

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
 50 55 60

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

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

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

Met Val Thr Val Ser Ala
 115

<210> 52
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 52

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

168782_010105_sequence

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 53
<211> 118
<212> PRT
<213> Homo sapiens

<400> 53

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

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

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

168782_010105_sequence

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Ala Gly Gly Gln His Ser Gln Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ala
115

<210> 54
<211> 113
<212> PRT
<213> Homo sapiens

<400> 54

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Ile Tyr Tyr Cys Gln Gln

168782_010105_sequence

85

90

95

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 55

<211> 118

<212> PRT

<213> Homo sapiens

<400> 55

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

Tyr Cys Ala Gly Gly Ala His Ser Gln Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ala
115

168782_010105_sequence

<210> 56
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 56

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

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

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

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

Tyr Tyr Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 57
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 57

168782_010105_sequence

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Met Val Thr Val Ser Ala
115

<210> 58

<211> 113

<212> PRT

<213> Homo sapiens

<400> 58

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

Ser Asn Asn Arg Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln

168782_010105_sequence

35

40

45

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

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

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

Tyr Leu Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 59

<211> 118

<212> PRT

<213> Homo sapiens

<400> 59

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

168782_010105_sequence

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

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

Met Val Thr Val Ser Ala
115

<210> 60
<211> 113
<212> PRT
<213> Homo sapiens

<400> 60

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

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

Tyr Leu Arg Pro Pro Leu Asn Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

168782_010105_sequence

Lys

<210> 61
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 61

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
 50 55 60

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

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

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

Met Val Thr Val Ser Ala
 115

<210> 62
 <211> 113
 <212> PRT
 <213> Homo sapiens

168782_010105_sequence

<400> 62

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

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

Tyr Leu Thr Pro Pro Leu Asn Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 63

<211> 118

<212> PRT

<213> Homo sapiens

<400> 63

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

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

168782_010105_sequence

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Met Val Thr Val Ser Ala
115

<210> 64
<211> 113
<212> PRT
<213> Homo sapiens

<400> 64

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

168782_010105_sequence

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

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

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

Lys

<210> 65
<211> 118
<212> PRT
<213> Homo sapiens

<400> 65

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

168782_010105_sequence

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

Met Val Thr Val Ser Ala
 115

<210> 66
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 66

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

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

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

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

Tyr Leu Lys Ala Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110

Lys

<210> 67

168782_010105_sequence

<211> 118
 <212> PRT
 <213> Homo sapiens

<400> 67

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
 50 55 60

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

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

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

Met Val Thr Val Ser Ala
 115

<210> 68
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 68

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

168782_010105_sequence

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

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

Tyr Leu Asn Ala Pro Leu His Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 69

<211> 118

<212> PRT

<213> Homo sapiens

<400> 69

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

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

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

168782_010105_sequence

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Met Val Thr Val Ser Ala
115

<210> 70
<211> 113
<212> PRT
<213> Homo sapiens

<400> 70

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Ile Tyr Tyr Cys Gln Gln

168782_010105_sequence

85

90

95

Tyr Leu Glu Ala Pro Leu Val Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 71

<211> 118

<212> PRT

<213> Homo sapiens

<400> 71

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Met Val Thr Val Ser Ala
115

168782_010105_sequence

<210> 72
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 72

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

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

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

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

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

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

Lys

<210> 73
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 73

168782_010105_sequence

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

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

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

Met Val Thr Val Ser Ala
115

<210> 74

<211> 113

<212> PRT

<213> Homo sapiens

<400> 74

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

Ser Asn Asn Arg Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln

168782_010105_sequence

35

40

45

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

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

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

Leu Ile Ala Pro Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

Lys

<210> 75

<211> 118

<212> PRT

<213> Homo sapiens

<400> 75

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

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

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

Gly Arg Ile Lys Arg Lys Thr Asp Gly Glu Thr Thr Asp Tyr Ala Ala
50 55 60

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

168782_010105_sequence

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

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

Met Val Thr Val Ser Ala
115

<210> 76
<211> 113
<212> PRT
<213> Homo sapiens

<400> 76

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 Lys Ser Ser Gln Ser Val Leu Tyr Ser
20 25 30

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

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

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

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

Tyr Leu Thr Pro Pro Leu Ala Phe Gly Gly Gly Thr Lys Leu Glu Ile
100 105 110

168782_010105_sequence

Lys

<210> 77
 <211> 360
 <212> DNA
 <213> Homo sapiens

<400> 77
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 tcctgcaagg cttctggcta caccttcagc agctactata tgcactgggt gaggcaggct 120
 cctggacaag gccttgagtg gatgggagag attaatccca acaatgcccg tattaacttc 180
 aatgaaaagt tcaagaccag ggtcacactc actgtggaca aatccaccag cacagcatac 240
 atggagctca gcagcctgag atctgaggac accgcggtct attactgtac cagaggatac 300
 tataggtacg gggcctgggt tggttactgg ggccaaggga ctctgggtcac tgtctcttca 360

<210> 78
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 78
 gatatccaga tgacacagtc tccatcctcc ctgtctgcct ctgtgggaga cagagtcacc 60
 atcacttgca gggcaagtca ggacattagc gattatttga actggtatca acagaaacca 120
 ggcaaggctc ctaaactcct gatctactac atatcaagat tacactcagg agtcccatca 180
 cgcttcagtg gcagtgggtc tggaacagat tatactctca ccattagctc cctgcagcca 240
 gaagattttg ccacttacta ttgccaacag ggtcatacac ttccgtggac cttcggtgga 300
 ggcaccaagg tggaaatcaa a 321

<210> 79
 <211> 357
 <212> DNA
 <213> Homo sapiens

168782_010105_sequence

<400> 79

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 tcctgtacag cctctggatt cacctttagc agctatgcc a tgagctgggt ccgccaggct 120
 ccagggaagg ggctggagtg ggtctcagca attagtggta gtggtggtag cacatactac 180
 gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatga acagcctgag agtcgaggac acggccgtat attactgtgc gagatatagt 300
 attggtagac acacctttga cactggggc cagggcaccc tggtcaccgt ctcggcc 357

<210> 80

<211> 354

<212> DNA

<213> Homo sapiens

<400> 80

aaggtgcagc tgggtggagtc tgggggaggc ttggtaaagc ctgggggggtc ccttagactc 60
 tcctgtgcag cctctggttt cactttcagt aacgcctgga tgaactgggt ccgccaggct 120
 ccagggaagg ggctggagtg ggtcggccgt attaaaagga aaactgatgg tgagacaaca 180
 gactacgctg caccctgaa aggcagattc agcatctcaa gagatgattc aaaaaacacc 240
 ctgtatctgc aaatgaacag cttgaaaacc gaggacacag ccgtgtatta ctgcgctggc 300
 agtaaccgag cttttgatat ctggggccaa gggacaatgg tcaccgtctc tgcc 354

<210> 81

<211> 354

<212> DNA

<213> Homo sapiens

<400> 81

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 tcctgtgcag cctctggatt cacctttagc ggctatgcc a tgacttgggt ccgccaggct 120
 ccagggaagg ggctggagtg ggtctcagct attacttcta ctggtggtcg cacatactac 180
 gcagactccg tgaagggccg gttcaccacc tccagagaca attccaggaa cacgttgtat 240
 ctgcaaatga acagcctgag agccgaagac acggccgtat attactgtgc gagagagtca 300

168782_010105_sequence

aacttcaggg cttttgatat ctggggccaa gggacaatgg tcaccgtctc tgcc 354

<210> 82
<211> 354
<212> DNA
<213> Homo sapiens

<400> 82
gaggtgcagc tgggtggagtc tgggggaggc ttggtacagc ctgggggggtc ccttagactc 60
tcctgtgcag cctctggatt cactttcatt gacgcctgga tgacctgggt ccgccaggct 120
ccagggaagg ggctggagtg ggtctcagtt atttatagcg gtggtagcac atactacgca 180
gactccgtga agggcagatt caccatctcc agagacaatt ccaagaacac gctgtatctg 240
caaatgaaca gcctgagagc cgaggacacg gccgtatatt actgtgagag aggggctagg 300
ggccatcccg ggcaggacta ctggggggcag ggcaccctgg tcaccgtctc ggcc 354

<210> 83
<211> 351
<212> DNA
<213> Homo sapiens

<400> 83
caggtcaact taaggagtc tgggggaggc ttggtacagc ctggcgggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt gactactaca tgagctggat ccgccaggct 120
ccagggggggg ggctggagtg ggtttcatac actagtcggt ttggtagtga cacaaactac 180
gcagactctg tgaagggccg attcaccatc tccagagaca acgtccagaa ctactatat 240
ctgcaaatga acagcctgag ggccgaggac acggctgttt attactgtgt gagagatgta 300
cataacaggg atgcctactg gggccagggc accctgggtca ccgtctcggc c 351

<210> 84
<211> 369
<212> DNA
<213> Homo sapiens

<400> 84

168782_010105_sequence

caggtgcagc tgggtgcagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt cacctttagc agctatgcc a tgagctgggt ccgccaggct	120
ccaggggaagg ggctggagtg ggtctcagct attagtggta gtggtagtag cacatactac	180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat	240
ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaacacagat	300
tactatgata gtagtagcca tcccccgct gactactggg gccagggcac cctggtcacc	360
gtctcggcc	369

<210> 85
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 85	
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tcctgtgcag cctctggatt cacctttagt agctatggca tgagctgggt ccgccaggct	120
ccagggaaag ggctggagtg ggtctcaact atcagtggca gtggtagtag cacaactac	180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctat	240
ctgcaaatga acagcctgag agccgaggac acggccgtat atttctgtgc gaaaggccga	300
tattactatg atagtcttga tgcttttgat atctggggcc aagggacaat ggtcaccgtc	360
tctgcc	366

<210> 86
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 86	
caggtacagc tggtaggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc	60
tcctgtgcag cctctggatt cacctttagc agctatgcc a tgagctgggt ccgccaggct	120
ccaggggaagg ggctggagtg ggtctcagct attagtggta ctggtagtag cacatactac	180

168782_010105_sequence

gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat	240
ctgcaaatga acagcctgag agccgaggac acggccgcat attactgtgc gaaagataaa	300
tggagcagct ggcccactta ctactttgac tactggggcc aggggaaccct ggtcaccgtc	360
tcggcc	366

<210> 87
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 87	
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tcctgtgcag cctctggatt caccttcagt agctatagca tggcctgggt ccgccaggct	120
ccagggaagg ggctggagtg ggtcgcggct gttagtaata gtggtgttga gacatactac	180
gcagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat	240
ttgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gaaacgaact	300
agacaactgc taactccgcg ggagtttgac tactggggcc agggcaccct ggtcaccgtc	360
ttggcc	366

<210> 88
 <211> 351
 <212> DNA
 <213> Homo sapiens

<400> 88	
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tcctgtgcag cctctggatt cacctttacc aattatgcca tgagctgggt ccgccaggct	120
ccagggaagg ggctggagtg ggtctcaagt gttagtagtg ctggtggtag tacatactac	180
gcagactccg tgaagggccg gttcaccatc tccagagaca acgccaagaa ctactgtat	240
ctgcaaatga acagcctgag agccgaggac acggctgttt attactgtgc gagacgagtc	300
aatcgggcct tcgatctctg gggccgtgga accctgggtca ccgtctcggc c	351

168782_010105_sequence

<210> 89
 <211> 363
 <212> DNA
 <213> Homo sapiens

<400> 89
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 tcctgtgcag cctctggatt cactttcagt aacgcctgga tgagctgggt ccgccaggct 120
 ccagggaagg ggctgggtgtg ggttggccgt attaaaagca aaactgatgg tgggacaaca 180
 gactacgctg caccctgaa aggcagattc accatctcaa gagatgattc aaaaaacacg 240
 ctgtatctgc aaatgaacag cctgaaaacc gaggacacag ccgtgtatta ctgtaccaca 300
 gataagagct atggttacac atttgactac tggggccagg gcaccctggg caccgtctcg 360
 gcc 363

<210> 90
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 90
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 tcctgtgcag cctctggatt caccttcagt agctactgga tgcactgggt ccgccaagcc 120
 ccagggaagg ggctggagtg ggtctcagct atcagtggta gtgggtgccgg cacatactac 180
 ccagactccg tgaagggccg gttcaccatc tccagagaca attccaagaa cacgctgtat 240
 ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gagagatcgg 300
 tccttatctt ttggttttga tatttggggc caaggcaccc tgggtctccgt ctctggc 357

<210> 91
 <211> 363
 <212> DNA
 <213> Homo sapiens

<400> 91
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168782_010105_sequence

tcctgtgcag cccctggatt cacctttagt agatattgga tgagttgggt ccgccaggct	120
ccagggaagg gactggagtg ggtggccaac ataaaggag atggaagtca gacatactat	180
gcggactctg tgaagggccg attcaccatc tccagagaca acgcatgaa aacagtgtat	240
ctgcaaatga acagcctgag agccgaggac acggccatat attactgtgc gaaaggggct	300
gcttatcaca ttaacagctg gctcgacccc tggggccagg gcaccctggg caccgtctcg	360
gcc	363

<210> 92
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 92 aattttatgc tgactcagcc ccactctgtg tcggagtctc cggggaagac ggtaaccatc	60
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ccgggcagtg tccccaccac tgtgatctat agggataacc aaagaccctc tggagtccct	180
gatcggttct ctggctccgt cgacagctcc tccaattctg cctccctcac catctctggg	240
ctgaagactg acgatgaggc tgactattat tgtcagtcct atgatgacca caatcattgg	300
gtgttcggcg gcgggaccaa gctgaccgtc cta	333

<210> 93
 <211> 339
 <212> DNA
 <213> Homo sapiens

<400> 93 gacatcgtga tgaccagtc tccagactcc ctggctgtgt ctctgggcga gagggccacc	60
atcaactgca agtccagcca gagtgtttta tacagctcca acaataggaa ctacctagct	120
tggtagcagc agaaaccagg acagcctcct aagctgctca ttaaccaggc atctaccgg	180
gcattccggcg tccctgaccg attcagtggc agcgggtctg ggacagagtt cactctcatc	240
atcagcagcc tgcaggctga agatgtggcg atttattact gtcagcaata ttatactcct	300

168782_010105_sequence

cccctcgctt tcggcggagg gaccaagctg gagatcaaa 339

<210> 94
<211> 336
<212> DNA
<213> Homo sapiens

<400> 94
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atctcctgca ggtctagtca gaggctcctg cacagtaatg gatacaacta tttggattgg 120
tacctgcaga aaccagggca gtctccacag ctctgatct atttgaattc taatcgggcc 180
tccgggggtcc ctgacagggt cagtggcagt ggatcaggta cagattttac actgcaaadc 240
agcagagtgg aggctgagga tgttgggggt tactactgta tgcaagctct acaaattcct 300
cccactttcg gcggagggac caaagtggat atcaaa 336

<210> 95
<211> 336
<212> DNA
<213> Homo sapiens

<400> 95
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tcctgcaccc gcagcagtgg caccattgcc agcaactttg tgcaagtggta tcaacagcgc 120
ccgggcagtt cggccacccc agtgatcttt gagaatgacc gaagaccctc tggggtcctt 180
gatcggttct ctggctccat cgacagctcc tccaattctg cctccctcac catttcgtca 240
ctgaacactg aggacaaggc tgactactac tgtcagtcct atgatagcag cactcatggg 300
tgggtgtttg gcggagggac ccagctcacc gtttta 336

<210> 96
<211> 330
<212> DNA
<213> Homo sapiens

<400> 96

168782_010105_sequence

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ccaggaacgg cccccaagct cctcatctat aggaatcatc agcggccctc aggggtccct	180
gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccgg	240
tccgacgacg aggctgatta ttattgtgca acatgggatt tcagcctgag tggttttgtc	300
ttcggaactg ggaccaaggt caccgtccta	330

<210> 97
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 97 gaaactacac tcacgcagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc	60
atcacttgcc gggccagtca ggacatcaga aatgatttag actggtttca acaaaaacca	120
ggcgaagccc ctaaacgcct gatctctgct gcatctaatt tgcagagtgg ggtccccctca	180
cgattcagcg gcggtggctc tggctccgaa ttactctca caatccacag cctggagtct	240
gaagattttg caacttacta ctgtcaacag agttacatta cccctccttg gacgttcggc	300
caagggacca agctggagat caaa	324

<210> 98
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 98 gaaattgtgt tgacgcagtc tccaggcacc ctgtctttgt ctccagggga aagagccacc	60
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cctggccagg ctcccaggct cctcatctat tatgcatcca gcagggccac tggcatccca	180
gacaggttca gcggcagtag gtctgggaca gacttcactc tcaccatcag cagactggag	240
cctgaagatt ttgcagtgtg ttctgtcag cagtatgata cctcacctcc caccttcggc	300

168782_010105_sequence

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324

<210> 99

<211> 330

<212> DNA

<213> Homo sapiens

<400> 99

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tcctgcaccc gcagcagtgg cagcattgcc agcaactatg tgcagtggta ccaacagcgc 120

ccgggcagtt cccccaccac tgtgatctat gaggataacc aaagaccctc tggggtcctt 180

gatcggttct ctggctccat cgacagctcc tccaactctg cctccctcac catctctgga 240

ctgaagactg aggacgaggc tgactactac tgtcagtctt atgatagcag caatgtgata 300

ttcggcggag ggaccaaggt caccgtccta 330

<210> 100

<211> 321

<212> DNA

<213> Homo sapiens

<400> 100

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gggaaagccc ctaagctcct gatctatgat gcatccagtt tgcaaagtgg ggtcccatca 180

agattcagcg gcagtggatc tgggacagat ttactctca ccatcagcag tctgcaacct 240

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<212> DNA

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ccgggcagtc cccccaccac tgtgatctat aaggatgacc aaagaccctc tgggggtccct	180
gatcggttct ctggctccat cgacggctcc tccaactctg cctccctcac catctctgga	240
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cctggccagg ctcccaggct cctcatctat ggggcattca ggagggccac tggcatccca 180
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcac cagactggag 240
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<210> 105
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<400> 105

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

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

Gly Glu Ile Asn Pro Asn Asn Ala Arg Ile Asn Phe Asn Glu Lys Phe
50 55 60

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

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Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
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Thr Arg Gly Tyr Tyr Arg Tyr Gly Ala Trp Phe Gly Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 106
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<400> 106

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

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

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

Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp Ile Tyr
35 40 45

Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp Phe Ser
50 55 60

Ser Ala Lys Ile Glu Val Ser Gln Leu Leu Lys Gly Asp Ala Ser Leu
65 70 75 80

Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr Thr Cys
85 90 95

Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu Leu Lys
100 105 110

Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu
115 120