

SEQUENCE LISTING

<110> Alektor LLC

<120> ANTI-SORTILIN ANTIBODIES AND METHODS OF USE THEREOF

<130> 73502-20019.40

<140> Not Yet Assigned

<141> Concurrently Herewith

<150> US 62/868,849

<151> 2019-06-28

<150> US 62/860,184

<151> 2019-06-11

<150> US 62/698,007

<151> 2018-07-13

<160> 146

<170> FastSEQ for Windows Version 4.0

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<400> 1

Tyr Ser Ile Ser Ser Gly Tyr Tyr Trp Gly
1 5 10

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<400> 2

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

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<400> 3

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

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 <223> Xaa = Lys or Glu

<400> 4
 Thr Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Xaa Ser
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<400> 5
 Ala Arg Gln Gly Ser Ile Gln Gln Gly Tyr Tyr Gly Met Asp Val
 1 5 10 15

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<400> 6
 Ala Arg Gln Gly Ser Ile Lys Gln Gly Tyr Tyr Gly Met Asp Val
 1 5 10 15

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 <223> Xaa = Gln or Lys

<400> 7
 Ala Arg Gln Gly Ser Ile Xaa Gln Gly Tyr Tyr Gly Met Asp Val
 1 5 10 15

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<220>
 <223> Synthetic Construct

<400> 8
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Asn Gly Tyr Asn Tyr Leu Asp
 Page 2

1 5 10 15

<210> 9
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 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 9
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Thr Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

<210> 10
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<220>
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<400> 10
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Ser Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

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<220>
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<400> 11
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Gly Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

<210> 12
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<400> 12
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Arg Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

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<400> 13
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Asp Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

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<400> 14
 Arg Ser Ser Gln Ser Leu Leu Arg Ser His Gly Tyr Asn Tyr Leu Asp
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<400> 15
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Lys Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

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 Arg Ser Ser Gln Ser Leu Leu Arg Ser Gln Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

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<400> 17
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Tyr Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

<210> 18
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<400> 18
 Arg Ser Ser Gln Ser Leu Leu Arg Ser Glu Gly Tyr Asn Tyr Leu Asp
 1 5 10 15

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<400> 19

Arg Ser Ser Gln Ser Leu Leu Arg Ser Trp Gly Tyr Asn Tyr Leu Asp
1 5 10 15

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<400> 20

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

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<213> Artificial Sequence

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<400> 21

Arg Ser Ser Gln Ser Leu Leu Arg Ser Ile Gly Tyr Asn Tyr Leu Asp
1 5 10 15

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<400> 22

Arg Ser Ser Gln Ser Leu Leu Arg Ser Val Gly Tyr Asn Tyr Leu Asp
1 5 10 15

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<400> 23

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

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<213> Artificial Sequence

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<400> 24

Arg Ser Ser Gln Ser Leu Leu Arg Ser Met Gly Tyr Asn Tyr Leu Asp
1 5 10 15

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<400> 25

Arg Ser Ser Gln Ser Leu Leu Arg Ser Leu Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 26

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<400> 26

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 27

<211> 16

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<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 27

Arg Ser Ser Gln Gly Leu Leu Arg Ser Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 28

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<212> PRT

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<221> VARIANT

<222> 5

<223> Xaa = Ser or Gly

<220>

<221> VARIANT

<222> 8

<223> Xaa = Arg or His

<220>

<221> VARIANT

<222> 10

<223> Xaa = Asn, Thr, Ser, Gly, Arg, Asp, His, Lys, Gln, Tyr, Glu,

Trp, Phe, Ile, Val, Ala, Met, or Leu

<400> 28

Arg Ser Ser Gln Xaa Leu Leu Xaa Ser Xaa Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 29

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

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<400> 29

Leu Gly Ser Asn Arg Ala Ser
1 5

<210> 30

<211> 7

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 30

Leu Gly Ser Asn Arg Val Ser
1 5

<210> 31

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<213> Artificial Sequence

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<221> VARIANT

<222> 6

<223> Xaa = Ala or Val

<400> 31

Leu Gly Ser Asn Arg Xaa Ser
1 5

<210> 32

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<213> Artificial Sequence

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<223> Synthetic Construct

<400> 32

Met Gln Gln Gln Glu Ala Pro Leu Thr
1 5

<210> 33

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<220>

<223> Synthetic Construct

<400> 33

Met Gln Gln Gln Glu Thr Pro Leu Thr
1 5

<210> 34

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<221> VARIANT

<222> 6

<223> Xaa = Ala or Thr

<400> 34

Met Gln Gln Gln Glu Xaa Pro Leu Thr
1 5

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<400> 35

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Val Ser Gly
20 25

<210> 36

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<400> 36

Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> 37

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<400> 37

Gln Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Glu
1 5 10 15
Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
20 25 30

<210> 38
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 <212> PRT
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<400> 38
 Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Lys
 1 5 10 15
 Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 20 25 30

<210> 39
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<220>
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 <222> 1
 <223> Xaa = Gln or Arg

<220>
 <221> VARIANT
 <222> 16
 <223> Xaa = Glu or Lys

<400> 39
 Xaa Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu Xaa
 1 5 10 15
 Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 20 25 30

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<400> 40
 Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 1 5 10

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<400> 41
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys
 20

<210> 42
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 <212> PRT
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<220>
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<400> 42
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Gly Pro Ala Ser Ile Ser Cys
 20

<210> 43
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 43
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Ser Ala Ser Ile Ser Cys
 20

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 <222> 17
 <223> Xaa = Glu or Gly

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 <221> VARIANT
 <222> 18
 <223> Xaa = Pro or Ser

<400> 44
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Xaa Xaa Ala Ser Ile Ser Cys
 20

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<400> 45
 Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr
 1 5 10 15

<210> 46
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<400> 46
 Trp Tyr Leu Gln Lys Pro Gly Gln Pro Pro Gln Leu Leu Ile Tyr
 1 5 10 15

<210> 47
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 <223> Synthetic Construct

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa = Ser or Pro

<400> 47
 Trp Tyr Leu Gln Lys Pro Gly Gln Xaa Pro Gln Leu Leu Ile Tyr
 1 5 10 15

<210> 48
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<400> 48
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Lys Ile Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
 20 25 30

<210> 49
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<220>
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<400> 49
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 1 5 10 15
 Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
 20 25 30

<210> 50
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 <212> PRT
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<223> Synthetic Construct

<400> 50

Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
1				5				10					15		
Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Ala	Tyr	Tyr	Cys
			20					25					30		

<210> 51

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<220>

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<400> 51

Gly	Val	Pro	Asp	Arg	Leu	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
1				5				10					15		
Leu	Lys	Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys
			20					25					30		

<210> 52

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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 6

<223> Xaa = Phe or Leu

<220>

<221> VARIANT

<222> 22

<223> Xaa = Ala or Val

<220>

<221> VARIANT

<222> 29

<223> Xaa = Val or Ala

<400> 52

Gly	Val	Pro	Asp	Arg	Xaa	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr
1				5				10					15		
Leu	Lys	Ile	Ser	Arg	Xaa	Glu	Ala	Glu	Asp	Val	Gly	Xaa	Tyr	Tyr	Cys
			20					25					30		

<210> 53

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 53

Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
1				5					10

<210> 54
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 54
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Tyr Ser Ile Ser Ser Gly
 20 25 30
 Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Thr Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Gln Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Glu Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gln Gly Ser Ile Gln Gln Gly Tyr Tyr Gly Met Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 55
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 55
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Tyr Ser Ile Ser Ser Gly
 20 25 30
 Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Thr Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu
 50 55 60
 Glu Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gln Gly Ser Ile Gln Gln Gly Tyr Tyr Gly Met Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 56
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 56
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Tyr Ser Ile Ser Ser Gly
 20 25 30
 Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp

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

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<210> 57
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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<400> 57
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1      5      10      15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg 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 Gly 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 Lys Ile
 65      70      75      80
Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
      85      90      95
Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
      100      105      110

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<210> 58
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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<400> 58
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1      5      10      15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg 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 Gly 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 Lys Ile
 65      70      75      80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
      85      90      95
Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
      100      105      110

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<210> 59
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 59

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

<210> 60

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 60

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20					25					30		
Thr	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	Gly	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	Lys	Ile
65					70					75					80
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 61

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 61

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20					25					30		
Ser	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	Gly	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	Lys	Ile
65					70					75					80
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 62
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 62
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Gly 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 63
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 63
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Arg 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 64
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 64
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Asp 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 Gly Ser Asn Arg Ala Ser Gly Val Pro

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50	Asp	Arg	Phe	Ser	Gly	55	Ser	Gly	Thr	Asp	60	Phe	Thr	Leu	Lys	Ile		
65	Ser	Arg	Ala	Glu	Ala	70	Glu	Asp	Val	Gly	75	Tyr	Tyr	Cys	Met	80	Gln	Gln
				85	Leu	Thr	Phe	Gly		90	Gly	Thr	Lys	Val	95	Glu	Ile	Lys
			100					105						110				

<210> 65

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 65

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

<210> 66

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 66

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

<210> 67

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 67

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Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20					25					30		
Gln	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	Gly	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	Lys	Ile
65				70					75						80
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 68

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 68

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20					25					30		
Tyr	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	Gly	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	Lys	Ile
65				70					75						80
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 69

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 69

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20					25					30		
Glu	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	Gly	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	Lys	Ile
65				70					75						80
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 70

<211> 112

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 70
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Trp 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 71
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 71
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Phe 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 72
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 72
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Ile 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln

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Gln Glu Ala Pro⁸⁵ Leu Thr Phe Gly Gly⁹⁰ Gly Thr Lys Val Glu⁹⁵ Ile Lys
100 105 110

<210> 73
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 73
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
20 25 30
Val 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 Gly 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 Lys Ile
65 70 75 80
Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
85 90 95
Gln Glu Ala Pro¹⁰⁰ Leu Thr Phe Gly Gly¹⁰⁵ Gly Thr Lys Val Glu¹¹⁰ Ile Lys

<210> 74
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 74
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
20 25 30
Ala 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 Gly 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 Lys Ile
65 70 75 80
Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
85 90 95
Gln Glu Ala Pro¹⁰⁰ Leu Thr Phe Gly Gly¹⁰⁵ Gly Thr Lys Val Glu¹¹⁰ Ile Lys

<210> 75
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 75
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
1 5 10 15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
20 25 30

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Met 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 Gly 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 Lys Ile
   65   70   75   80
Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
   85   90   95
Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
   100  105  110

```

<210> 76
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```

<400> 76
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
   1   5  10  15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
   20  25  30
Leu 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 Gly 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 Lys Ile
   65  70  75  80
Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
   85  90  95
Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
   100 105 110

```

<210> 77
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

```

<400> 77
Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
   1   5  10  15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg 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 Gly 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 Lys Ile
   65  70  75  80
Ser Arg Val Glu Ala Glu Asp Val Gly Ala Tyr Tyr Cys Met Gln Gln
   85  90  95
Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
   100 105 110

```

<210> 78
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 78

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

<210> 79

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 79

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	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	Gly	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	Lys	Ile
65					70					75					80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Thr	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 80

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 80

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Ser	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Gly	Leu	Leu	Arg	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	Gly	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	Lys	Ile
65					70					75					80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 81
 <211> 831
 <212> PRT
 <213> Homo sapiens

<400> 81

Met	Glu	Arg	Pro	Trp	Gly	Ala	Ala	Asp	Gly	Leu	Ser	Arg	Trp	Pro	His
1				5					10					15	
Gly	Leu	Gly	Leu	Leu	Leu	Leu	Leu	Gln	Leu	Leu	Pro	Pro	Ser	Thr	Leu
			20					25					30		
Ser	Gln	Asp	Arg	Leu	Asp	Ala	Pro	Pro	Pro	Pro	Ala	Ala	Pro	Leu	Pro
		35					40					45			
Arg	Trp	Ser	Gly	Pro	Ile	Gly	Val	Ser	Trp	Gly	Leu	Arg	Ala	Ala	Ala
	50					55					60				
Ala	Gly	Gly	Ala	Phe	Pro	Arg	Gly	Gly	Arg	Trp	Arg	Arg	Ser	Ala	Pro
65					70				75						80
Gly	Glu	Asp	Glu	Glu	Cys	Gly	Arg	Val	Arg	Asp	Phe	Val	Ala	Lys	Leu
			85						90					95	
Ala	Asn	Asn	Thr	His	Gln	His	Val	Phe	Asp	Asp	Leu	Arg	Gly	Ser	Val
			100					105					110		
Ser	Leu	Ser	Trp	Val	Gly	Asp	Ser	Thr	Gly	Val	Ile	Leu	Val	Leu	Thr
		115					120					125			
Thr	Phe	His	Val	Pro	Leu	Val	Ile	Met	Thr	Phe	Gly	Gln	Ser	Lys	Leu
	130					135					140				
Tyr	Arg	Ser	Glu	Asp	Tyr	Gly	Lys	Asn	Phe	Lys	Asp	Ile	Thr	Asp	Leu
145					150					155					160
Ile	Asn	Asn	Thr	Phe	Ile	Arg	Thr	Glu	Phe	Gly	Met	Ala	Ile	Gly	Pro
			165						170					175	
Glu	Asn	Ser	Gly	Lys	Val	Val	Leu	Thr	Ala	Glu	Val	Ser	Gly	Gly	Ser
			180					185					190		
Arg	Gly	Gly	Arg	Ile	Phe	Arg	Ser	Asp	Phe	Ala	Lys	Asn	Phe	Val	
		195					200				205				
Gln	Thr	Asp	Leu	Pro	Phe	His	Pro	Leu	Thr	Gln	Met	Met	Tyr	Ser	Pro
	210					215					220				
Gln	Asn	Ser	Asp	Tyr	Leu	Leu	Ala	Leu	Ser	Thr	Glu	Asn	Gly	Leu	Trp
225					230					235					240
Val	Ser	Lys	Asn	Phe	Gly	Gly	Lys	Trp	Glu	Glu	Ile	His	Lys	Ala	Val
			245						250					255	
Cys	Leu	Ala	Lys	Trp	Gly	Ser	Asp	Asn	Thr	Ile	Phe	Phe	Thr	Thr	Tyr
			260					265					270		
Ala	Asn	Gly	Ser	Cys	Lys	Ala	Asp	Leu	Gly	Ala	Leu	Glu	Leu	Trp	Arg
		275					280					285			
Thr	Ser	Asp	Leu	Gly	Lys	Ser	Phe	Lys	Thr	Ile	Gly	Val	Lys	Ile	Tyr
	290					295					300				
Ser	Phe	Gly	Leu	Gly	Gly	Arg	Phe	Leu	Phe	Ala	Ser	Val	Met	Ala	Asp
305					310					315					320
Lys	Asp	Thr	Thr	Arg	Arg	Ile	His	Val	Ser	Thr	Asp	Gln	Gly	Asp	Thr
				325					330					335	
Trp	Ser	Met	Ala	Gln	Leu	Pro	Ser	Val	Gly	Gln	Glu	Gln	Phe	Tyr	Ser
			340					345					350		
Ile	Leu	Ala	Ala	Asn	Asp	Asp	Met	Val	Phe	Met	His	Val	Asp	Glu	Pro
		355					360					365			
Gly	Asp	Thr	Gly	Phe	Gly	Thr	Ile	Phe	Thr	Ser	Asp	Asp	Arg	Gly	Ile
	370					375					380				
Val	Tyr	Ser	Lys	Ser	Leu	Asp	Arg	His	Leu	Tyr	Thr	Thr	Thr	Gly	Gly
385					390					395					400
Glu	Thr	Asp	Phe	Thr	Asn	Val	Thr	Ser	Leu	Arg	Gly	Val	Tyr	Ile	Thr
				405					410					415	
Ser	Val	Leu	Ser	Glu	Asp	Asn	Ser	Ile	Gln	Thr	Met	Ile	Thr	Phe	Asp
			420					425					430		
Gln	Gly	Gly	Arg	Trp	Thr	His	Leu	Arg	Lys	Pro	Glu	Asn	Ser	Glu	Cys
		435					440					445			
Asp	Ala	Thr	Ala	Lys	Asn	Lys	Asn	Glu	Cys	Ser	Leu	His	Ile	His	Ala
	450					455					460				
Ser	Tyr	Ser	Ile	Ser	Gln	Lys	Leu	Asn	Val	Pro	Met	Ala	Pro	Leu	Ser
465					470					475					480
Glu	Pro	Asn	Ala	Val	Gly	Ile	Val	Ile	Ala	His	Gly	Ser	Val	Gly	Asp

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Ala	Ile	Ser	Val	485 Met	Val	Pro	Asp	Val	490 Tyr	Ile	Ser	Asp	Asp	495 Gly	Gly
Tyr	Ser	Trp	Thr	500 Lys	Met	Leu	Glu	505 Gly	Pro	His	Tyr	Tyr	510 Thr	Ile	Leu
Asp	Ser	Gly	Gly	515 Ile	Ile	Val	520 Ala	Ile	Glu	His	Ser	Ser	525 Arg	Pro	Ile
Asn	Val	Ile	Lys	Phe	Ser	Thr	Asp	Glu	Gly	Gln	Cys	Trp	Gln	Thr	Tyr
545	Thr	Phe	Thr	Arg	550 Asp	Pro	Ile	Tyr	Phe	Thr	Gly	Leu	Ala	Ser	Glu
				565 Met	Asn	Ile	Ser	Ile	Trp	Gly	Phe	Thr	Glu	Ser	Phe
Gly	Ala	Arg	Ser	580 Gln	Trp	Val	Ser	Tyr	Thr	Ile	Asp	Phe	Lys	Asp	Ile
Leu	Thr	Ser	595 Asn	Cys	Glu	Glu	Lys	Asp	Tyr	Thr	Ile	Trp	Leu	Ala	His
Glu	Arg	610 Asp	Pro	Glu	Asp	Tyr	615 Glu	Asp	Gly	Cys	Ile	Leu	Gly	Tyr	Lys
Thr	625 Gln	Phe	Leu	Arg	Leu	Arg	Lys	Ser	Ser	Val	Cys	Gln	Asn	Gly	Arg
				645 Lys	Gln	Pro	Ser	Ile	Cys	Leu	Cys	Ser	Leu	Glu	Asp
Tyr	Val	Val	Thr	660 Phe	Gly	Tyr	Tyr	Arg	Pro	Glu	Asn	Asp	Ser	Lys	Cys
Phe	Leu	Cys	Asp	675 Gln	Pro	Glu	Leu	Lys	680 Gly	His	Asp	Leu	Glu	Phe	Cys
Val	Glu	690 Arg	Glu	Glu	His	Leu	Thr	Thr	Asn	Gly	Tyr	Arg	Lys	Ile	Pro
Gly	705 Asp	Lys	Cys	Gln	Gly	Gly	Val	Asn	Pro	Val	Arg	Glu	Val	Lys	Asp
				725 Cys	Thr	Ser	Asn	Phe	Leu	730 Ser	Pro	Glu	Lys	Gln	Asn
Lys	Lys	Lys	740 Ser	Val	Pro	Ile	Ile	Leu	Ala	Ile	Val	Gly	Leu	Met	Leu
Lys	Ser	755 Thr	Val	Val	Ala	Gly	Val	Leu	Ile	Val	Lys	Lys	Tyr	Val	Cys
Val	770 Arg	Phe	Leu	Val	His	Arg	Tyr	Ser	Val	Leu	Gln	Gln	His	Ala	Glu
Gly	785 Ala	Asn	Gly	Val	Asp	Gly	Val	Asp	Ala	Leu	Asp	Thr	Ala	Ser	His
				805 Tyr	His	Asp	Asp	Ser	810 Asp	Glu	Asp	Leu	Leu	Glu	
Asn	Lys	Ser	Gly	820 Thr					825 Ser						

<210> 82

<211> 825

<212> PRT

<213> Mus musculus

<400> 82

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

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	130					135					140				
Ser 145	Glu	Asp	Tyr	Gly	Lys 150	Asn	Phe	Lys	Asp	Ile 155	Thr	Asn	Leu	Ile	Asn 160
Asn	Thr	Phe	Ile	Arg 165	Thr	Glu	Phe	Gly	Met 170	Ala	Ile	Gly	Pro	Glu	Asn 175
Ser	Gly	Lys	Val 180	Ile	Leu	Thr	Ala	Glu 185	Val	Ser	Gly	Gly	Ser 190	Arg	Gly
Gly	Arg	Val 195	Phe	Arg	Ser	Ser	Asp 200	Phe	Ala	Lys	Asn	Phe 205	Val	Gln	Thr
Asp	Leu 210	Pro	Phe	His	Pro	Leu 215	Thr	Gln	Met	Met	Tyr 220	Ser	Pro	Gln	Asn
Ser 225	Asp	Tyr	Leu	Leu	Ala 230	Leu	Ser	Thr	Glu	Asn 235	Gly	Leu	Trp	Val	Ser 240
Lys	Asn	Phe	Gly	Glu 245	Lys	Trp	Glu	Glu	Ile 250	His	Lys	Ala	Val	Cys 255	Leu
Ala	Lys	Trp	Gly 260	Pro	Asn	Asn	Ile	Ile 265	Phe	Phe	Thr	Thr	His 270	Val	Asn
Gly	Ser	Cys 275	Lys	Ala	Asp	Leu	Gly 280	Ala	Leu	Glu	Leu	Trp 285	Arg	Thr	Ser
Asp	Leu 290	Gly	Lys	Thr	Phe	Lys 295	Thr	Ile	Gly	Val	Lys 300	Ile	Tyr	Ser	Phe
Gly 305	Leu	Gly	Gly	Arg	Phe 310	Leu	Phe	Ala	Ser	Val 315	Met	Ala	Asp	Lys	Asp 320
Thr	Thr	Arg	Arg	Ile 325	His	Val	Ser	Thr	Asp 330	Gln	Gly	Asp	Thr	Trp 335	Ser
Met	Ala	Gln	Leu 340	Pro	Ser	Val	Gly	Gln 345	Glu	Gln	Phe	Tyr	Ser 350	Ile	Leu
Ala	Ala	Asn 355	Glu	Asp	Met	Val	Phe 360	Met	His	Val	Asp	Glu 365	Pro	Gly	Asp
Thr	Gly 370	Phe	Gly	Thr	Ile	Phe 375	Thr	Ser	Asp	Asp	Arg 380	Gly	Ile	Val	Tyr
Ser 385	Lys	Ser	Leu	Asp	Arg 390	His	Leu	Tyr	Thr	Thr 395	Thr	Gly	Gly	Glu	Thr 400
Asp	Phe	Thr	Asn	Val 405	Thr	Ser	Leu	Arg	Gly 410	Val	Tyr	Ile	Thr	Ser 415	Thr
Leu	Ser	Glu	Asp 420	Asn	Ser	Ile	Gln	Ser 425	Met	Ile	Thr	Phe	Asp 430	Gln	Gly
Gly	Arg	Trp 435	Glu	His	Leu	Arg	Lys 440	Pro	Glu	Asn	Ser	Lys 445	Cys	Asp	Ala
Thr	Ala 450	Lys	Asn	Lys	Asn	Glu 455	Cys	Ser	Leu	His	Ile 460	His	Ala	Ser	Tyr
Ser 465	Ile	Ser	Gln	Lys	Leu 470	Asn	Val	Pro	Met	Ala 475	Pro	Leu	Ser	Glu	Pro 480
Asn	Ala	Val	Gly	Ile 485	Val	Ile	Ala	His	Gly 490	Ser	Val	Gly	Asp	Ala 495	Ile
Ser	Val	Met	Val 500	Pro	Asp	Val	Tyr	Ile 505	Ser	Asp	Asp	Gly	Gly 510	Tyr	Ser
Trp	Ala	Lys 515	Met	Leu	Glu	Gly	Pro 520	His	Tyr	Tyr	Thr	Ile 525	Leu	Asp	Ser
Gly	Gly 530	Ile	Ile	Val	Ala	Ile 535	Glu	His	Ser	Asn	Arg 540	Pro	Ile	Asn	Val
Ile 545	Lys	Phe	Ser	Thr	Asp 550	Glu	Gly	Gln	Cys	Trp 555	Gln	Ser	Tyr	Val	Phe 560
Thr	Gln	Glu	Pro	Ile 565	Tyr	Phe	Thr	Gly	Leu 570	Ala	Ser	Glu	Pro	Gly 575	Ala
Arg	Ser	Met	Asn 580	Ile	Ser	Ile	Trp	Gly 585	Phe	Thr	Glu	Ser	Phe 590	Ile	Thr
Arg	Gln	Trp 595	Val	Ser	Tyr	Thr	Val 600	Asp	Phe	Lys	Asp	Ile 605	Leu	Glu	Arg
Asn	Cys 610	Glu	Glu	Asp	Asp	Tyr 615	Thr	Thr	Trp	Leu	Ala 620	His	Ser	Thr	Asp
Pro 625	Gly	Asp	Tyr	Lys	Asp 630	Gly	Cys	Ile	Leu	Gly 635	Tyr	Lys	Glu	Gln	Phe 640
Leu	Arg	Leu	Arg	Lys 645	Ser	Ser	Val	Cys	Gln 650	Asn	Gly	Arg	Asp	Tyr 655	Val
Val	Ala	Lys	Gln 660	Pro	Ser	Val	Cys	Pro 665	Cys	Ser	Leu	Glu	Asp 670	Phe	Leu
Cys	Asp	Phe	Gly	Tyr	Phe	Arg	Pro	Glu	Asn	Ala	Ser	Glu	Cys	Val	Glu

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Gln	Pro	675	Glu	Leu	Lys	Gly	His	680	Glu	Leu	Glu	Phe	Cys	685	Leu	Tyr	Gly	Lys
	690						695						700					
Glu	Glu	His	Leu	Thr	Thr	Asn	Gly	Tyr	Arg	Lys	Ile	Pro	Gly	Asp	Lys			
705					710					715								720
Cys	Gln	Gly	Gly	Met	Asn	Pro	Ala	Arg	Glu	Val	Lys	Asp	Leu	Lys	Lys			
				725					730									735
Lys	Cys	Thr	Ser	Asn	Phe	Leu	Asn	Pro	Thr	Lys	Gln	Asn	Ser	Lys	Ser			
			740					745										
Asn	Ser	Val	Pro	Ile	Ile	Leu	Ala	Ile	Val	Gly	Leu	Met	Leu	Val	Thr			
		755					760					765						
Val	Val	Ala	Gly	Val	Leu	Ile	Val	Lys	Lys	Tyr	Val	Cys	Gly	Gly	Arg			
	770					775					780							
Phe	Leu	Val	His	Arg	Tyr	Ser	Val	Leu	Gln	Gln	His	Ala	Glu	Ala	Asp			
785					790					795								800
Gly	Val	Glu	Ala	Leu	Asp	Ser	Thr	Ser	His	Ala	Lys	Ser	Gly	Tyr	His			
				805					810									
Asp	Asp	Ser	Asp	Glu	Asp	Leu	Leu	Glu										
			820					825										

<210> 83

<211> 825

<212> PRT

<213> Rattus norvegicus

<400> 83

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Gly	Leu	Leu	Leu	Leu	Leu	Gln	Leu	Leu	Pro	Pro	Ala	Ala	Val	Gly	Gln
			20					25					30		
Asp	Arg	Leu	Asp	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Leu	Leu	Arg	Trp	
		35					40					45			
Ala	Gly	Pro	Val	Gly	Val	Ser	Trp	Gly	Leu	Arg	Ala	Ala	Ala	Pro	Gly
	50					55					60				
Gly	Pro	Val	Pro	Arg	Ala	Gly	Arg	Trp	Arg	Arg	Gly	Ala	Pro	Ala	Glu
65					70					75					80
Asp	Gln	Asp	Cys	Gly	Arg	Leu	Pro	Asp	Phe	Ile	Ala	Lys	Leu	Thr	Asn
				85					90					95	
Asn	Thr	His	Gln	His	Val	Phe	Asp	Asp	Leu	Ser	Gly	Ser	Val	Ser	Leu
			100					105					110		
Ser	Trp	Val	Gly	Asp	Ser	Thr	Gly	Val	Ile	Leu	Val	Leu	Thr	Thr	Phe
		115					120					125			
Gln	Val	Pro	Leu	Val	Ile	Val	Ser	Phe	Gly	Gln	Ser	Lys	Leu	Tyr	Arg
	130					135					140				
Ser	Glu	Asp	Tyr	Gly	Lys	Asn	Phe	Lys	Asp	Ile	Thr	Asn	Leu	Ile	Asn
145					150					155					160
Asn	Thr	Phe	Ile	Arg	Thr	Glu	Phe	Gly	Met	Ala	Ile	Gly	Pro	Glu	Asn
				165					170					175	
Ser	Gly	Lys	Val	Ile	Leu	Thr	Ala	Glu	Val	Ser	Gly	Gly	Ser	Arg	Gly
			180					185					190		
Gly	Arg	Val	Phe	Arg	Ser	Ser	Asp	Phe	Ala	Lys	Asn	Phe	Val	Gln	Thr
		195					200					205			
Asp	Leu	Pro	Phe	His	Pro	Leu	Thr	Gln	Met	Met	Tyr	Ser	Pro	Gln	Asn
	210					215					220				
Ser	Asp	Tyr	Leu	Leu	Ala	Leu	Ser	Thr	Glu	Asn	Gly	Leu	Trp	Val	Ser
225					230					235					240
Lys	Asn	Phe	Gly	Glu	Lys	Trp	Glu	Glu	Ile	His	Lys	Ala	Val	Cys	Leu
				245					250					255	
Ala	Lys	Trp	Gly	Pro	Asn	Asn	Ile	Ile	Phe	Phe	Thr	Thr	His	Val	Asn
			260					265					270		
Gly	Ser	Cys	Lys	Ala	Asp	Leu	Gly	Ala	Leu	Glu	Leu	Trp	Arg	Thr	Ser
		275					280					285			
Asp	Leu	Gly	Lys	Thr	Phe	Lys	Thr	Ile	Gly	Val	Lys	Ile	Tyr	Ser	Phe
	290					295					300				
Gly	Leu	Gly	Gly	Arg	Phe	Leu	Phe	Ala	Ser	Val	Met	Ala	Asp	Lys	Asp
305					310					315					320
Thr	Thr	Arg	Arg	Ile	His	Val	Ser	Thr	Asp	Gln	Gly	Asp	Thr	Trp	Ser

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Met	Ala	Gln	Leu	325 Pro	Ser	Val	Gly	Gln	330 Glu	Gln	Phe	Tyr	Ser	335 Ile	Leu
Ala	Ala	Asn	Asp	340 Asp	Met	Val	Phe	Met	345 His	Val	Asp	Glu	Pro	350 Gly	Asp
Thr	Gly	Phe	Gly	355 Thr	Ile	Phe	Thr	Ser	360 Asp	Asp	Arg	Gly	Ile	365 Val	Tyr
Ser	Lys	Ser	Leu	370 Asp	Arg	His	Leu	Tyr	375 Thr	Thr	Thr	Gly	Gly	380 Glu	Thr
385	Asp	Phe	Thr	390 Val	Thr	Ser	Leu	Arg	395 Gly	Val	Tyr	Ile	Thr	400 Ser	Thr
Leu	Ser	Glu	Asp	405 Asn	Ser	Ile	Gln	Ser	410 Met	Ile	Thr	Phe	Asp	415 Gln	Gly
Gly	Arg	Trp	Glu	420 His	Leu	Gln	Lys	Pro	425 Glu	Asn	Ser	Lys	Cys	430 Asp	Ala
Thr	Ala	Lys	Asn	435 Lys	Asn	Glu	Cys	Ser	440 Leu	His	Ile	His	Ala	445 Ser	Tyr
Ser	Ile	Ser	Gln	450 Lys	Leu	Asn	Val	Pro	455 Met	Ala	Pro	Leu	Ser	460 Glu	Pro
465	Asn	Ala	Val	470 Gly	Ile	Val	Ile	Ala	475 His	Gly	Ser	Val	Gly	480 Asp	Ile
Ser	Val	Met	Val	485 Pro	Asp	Val	Tyr	Ile	490 Ser	Asp	Asp	Gly	Gly	495 Tyr	Ser
Trp	Ala	Lys	Met	500 Leu	Glu	Gly	Pro	His	505 Tyr	Tyr	Thr	Ile	Leu	510 Asp	Ser
Gly	Gly	Ile	Ile	515 Val	Ala	Ile	Glu	His	520 Ser	Asn	Arg	Pro	Ile	525 Asn	Val
Ile	Lys	Phe	Ser	530 Thr	Asp	Glu	Gly	Gln	535 Cys	Trp	Gln	Ser	Tyr	540 Val	Phe
545	Ser	Gln	Glu	550 Pro	Val	Tyr	Phe	Thr	555 Gly	Leu	Ala	Ser	Glu	560 Pro	Ala
Arg	Ser	Met	Asn	565 Ile	Ser	Ile	Trp	Gly	570 Phe	Thr	Glu	Ser	Phe	575 Leu	Thr
Arg	Gln	Trp	Val	580 Ser	Tyr	Thr	Ile	Asp	585 Phe	Lys	Asp	Ile	Leu	590 Glu	Arg
Asn	Cys	Glu	Glu	595 Asn	Asp	Tyr	Thr	Thr	600 Trp	Leu	Ala	His	Ser	605 Thr	Asp
Pro	Gly	Asp	Tyr	610 Lys	Asp	Gly	Cys	Ile	615 Leu	Gly	Tyr	Lys	Glu	620 Gln	Phe
625	Leu	Arg	Leu	630 Lys	Ser	Ser	Val	Cys	635 Gln	Asn	Gly	Arg	Asp	640 Tyr	Val
Val	Ala	Lys	Gln	645 Pro	Ser	Ile	Cys	Pro	650 Cys	Ser	Leu	Glu	Asp	655 Phe	Leu
Cys	Asp	Phe	Gly	660 Tyr	Phe	Arg	Pro	Glu	665 Asn	Ala	Ser	Glu	Cys	670 Val	Glu
Gln	Pro	Glu	Leu	675 Lys	Gly	His	Glu	Leu	680 Glu	Phe	Cys	Leu	Tyr	685 Gly	Lys
Glu	Glu	His	Leu	690 Thr	Thr	Asn	Gly	Tyr	695 Arg	Lys	Ile	Pro	Gly	700 Asp	Arg
705	Cys	Gln	Gly	710 Met	Asn	Pro	Ala	Arg	715 Glu	Val	Lys	Asp	Leu	720 Lys	Lys
Lys	Cys	Thr	Ser	725 Asn	Phe	Leu	Asn	Pro	730 Lys	Lys	Gln	Asn	Ser	735 Lys	Ser
Ser	Ser	Val	Pro	740 Ile	Ile	Leu	Ala	Ile	745 Val	Gly	Leu	Met	Leu	750 Val	Thr
Val	Val	Ala	Gly	755 Val	Leu	Ile	Val	Lys	760 Lys	Tyr	Val	Cys	Gly	765 Gly	Arg
Phe	Leu	Val	His	770 Arg	Tyr	Ser	Val	Leu	775 Gln	Gln	His	Ala	Glu	780 Ala	Asp
785	Gly	Val	Glu	790 Ala	Leu	Asp	Thr	Ala	795 Ser	His	Ala	Lys	Ser	800 Gly	His
Asp	Asp	Ser	Asp	805 Glu	Asp	Leu	Leu	Glu	810 His					815 Tyr	
			820					825							

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 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1

<223> Xaa = Ser or Thr

<220>

<221> VARIANT

<222> 2

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 3

<223> Xaa = Asp or Asn

<220>

<221> VARIANT

<222> 4, 5, 6, 7

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 8

<223> Xaa = Trp, Phe, or Tyr

<400> 84

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 85

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>

<221> VARIANT

<222> 1, 2

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 3

<223> Xaa = Ser or Thr

<220>

<221> VARIANT

<222> 4

<223> Xaa = Any Amino Acid

<220>

<221> VARIANT

<222> 5

<223> Xaa = Asp or Asn

<220>

<221> VARIANT

<222> 6, 8

<223> Xaa = Any Amino Acid

<220>
 <221> VARIANT
 <222> 9
 <223> Xaa = Thr or Ser

<220>
 <221> VARIANT
 <222> 10
 <223> Xaa = Trp, Phe, or Tyr

<220>
 <221> VARIANT
 <222> 11
 <223> Xaa = Any Amino Acid

<400> 85
 Xaa Xaa Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa
 1 5 10

<210> 86
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 86
 Ser Ser Asp Phe Ala Lys Asn Phe
 1 5

<210> 87
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 87
 Asn Gln Phe Ser Leu Lys
 1 5

<210> 88
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 88
 Gln Gly Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr
 1 5 10 15
 Val Ser Ser Ala Ser Thr Lys
 20

<210> 89
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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<400> 89

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 1 5 10 15
 Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 20 25 30
 Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 35 40 45
 Lys

<210> 90

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 90

Asp Thr Leu Met Ile Ser Arg
 1 5

<210> 91

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 91

Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro
 1 5 10 15
 Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
 20 25 30
 Lys

<210> 92

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 92

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 1 5 10 15

<210> 93

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 93

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
 1 5 10 15

<210> 94
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 94
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys
 1 5 10

<210> 95
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 95
 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
 1 5 10 15
 Pro Glu Asn Asn Tyr Lys
 20

<210> 96
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 96
 Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
 1 5 10 15
 His Asn His Tyr Thr Gln Lys
 20

<210> 97
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 97
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg
 20

<210> 98
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 98
 Ser Ser Gln Ser Leu Leu Arg

1

5

<210> 99
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 99
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln
 1 5 10 15
 Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg
 20 25

<210> 100
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 100
 Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln Gln Glu
 1 5 10 15
 Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys
 20 25

<210> 101
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 101
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 1 5 10 15

<210> 102
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 102
 Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu
 1 5 10 15
 Gln Asp Ser Lys
 20

<210> 103
 <211> 330
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 103

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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1      5      10      15
Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 20      25      30
Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35      40      45
Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50      55      60
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65      70      75      80
Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85      90      95
Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100      105      110
Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro
115      120      125
Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130      135      140
Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145      150      155      160
Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165      170      175
Glu Gln Tyr Asn Ser Thr Tyr Arg Val Ser Val Leu Thr Val Leu
180      185      190
His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
195      200      205
Lys Ala Leu Pro Ala Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
210      215      220
Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225      230      235      240
Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
245      250      255
Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
260      265      270
Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
275      280      285
Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290      295      300
Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305      310      315      320
Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325      330

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<210> 104

<211> 329

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 104

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

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			100					105			110			
Pro	Ala	Pro	Glu	Ala	Ala	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
		115					120					125		Pro
Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
	130					135					140			Cys
Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
145					150					155				Trp
Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
			165						170					175
Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
			180					185					190	Leu
His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
		195					200					205		Asn
Lys	Ala	Leu	Pro	Ala	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
	210					215					220			Gly
Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp
225					230					235				Glu
Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
			245						250					255
Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
			260					265					270	Asn
Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
		275					280					285		Phe
Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
	290					295					300			Asn
Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
305					310					315				Thr
Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly						320
				325										

<210> 105

<211> 452

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 105

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

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Cys 225 Asp Lys Thr His Thr 230 Cys Pro Pro Cys 235 Pro Ala Pro Glu Ala Ala
 Gly Gly Pro Ser Val 245 Phe Leu Phe Pro Pro 250 Lys Pro Lys Asp Thr Leu
 Met Ile Ser Arg 260 Thr Pro Glu Val Thr 265 Cys Val Val Val Asp Val Ser
 His Glu Asp 275 Pro Glu Val Lys Phe 280 Asn Trp Tyr Val Asp 285 Gly Val Glu
 Val His 290 Asn Ala Lys Thr Lys 295 Pro Arg Glu Glu Gln 300 Tyr Asn Ser Thr
 Tyr Arg Val Val Ser Val 310 Leu Thr Val Leu His 315 Gln Asp Trp Leu Asn
 Gly Lys Glu Tyr Lys 325 Cys Lys Val Ser Asn 330 Lys Ala Leu Pro Ala Ser
 Ile Glu Lys Thr 340 Ile Ser Lys Ala Lys 345 Gly Gln Pro Arg Glu Pro Gln
 Val Tyr Thr 355 Leu Pro Pro Ser Arg 360 Asp Glu Leu Thr Lys 365 Asn Gln Val
 Ser Leu Thr 370 Cys Leu Val Lys 375 Gly Phe Tyr Pro Ser 380 Asp Ile Ala Val
 Glu Trp Glu Ser Asn Gly 390 Gln Pro Glu Asn Asn 395 Tyr Lys Thr Thr Pro
 Pro Val Leu Asp Ser 405 Asp Gly Ser Phe Phe 410 Leu Tyr Ser Lys Leu Thr
 Val Asp Lys Ser 420 Arg Trp Gln Gln Gly 425 Asn Val Phe Ser Cys Ser Val
 Met His Glu Ala Leu His Asn His 440 Tyr Thr Gln Lys Ser 445 Leu Ser Leu
 Ser Pro Gly Lys 450

<210> 106

<211> 451

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 106

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly 10 Leu Val Lys Pro Ser Glu
 1 Thr Leu Ser Leu 20 Thr Cys Ala Val Ser 25 Gly Tyr Ser Ile Ser Ser Gly
 Tyr Tyr Trp Gly 35 Trp Ile Arg Gln 40 Pro Pro Gly Lys Gly 45 Leu Glu Trp
 Ile Gly Thr Ile Tyr His Ser 55 Gly Ser Thr Tyr Tyr 60 Asn Pro Ser Leu
 Lys Ser Gln Val Thr Ile 70 Ser Val Asp Thr Ser 75 Lys Asn Gln Phe Ser
 65 Leu Glu Leu Ser Ser 85 Val Thr Ala Ala Asp 90 Thr Ala Val Tyr Tyr Cys
 Ala Arg Gln Gly 100 Ser Ile Gln Gln Gly 105 Tyr Tyr Gly Met Asp Val Trp
 Gly Gln Gly Thr Thr Val Thr Val 120 Ser Ser Ala Ser Thr 125 Lys Gly Pro
 Ser Val Phe Pro Leu Ala Pro 135 Ser Ser Lys Ser Thr 140 Ser Gly Gly Thr
 Ala Ala Leu Gly Cys Leu 150 Val Lys Asp Tyr Phe 155 Pro Glu Pro Val Thr
 145 Val Ser Trp Asn Ser 165 Gly Ala Leu Thr Ser 170 Gly Val His Thr Phe Pro
 Ala Val Leu Gln Ser Ser Gly Leu Tyr 185 Ser Leu Ser Ser Val Val Thr
 Val Pro Ser Ser 195 Ser Leu Gly Thr 200 Gln Thr Tyr Ile Cys 205 Asn Val Asn
 His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser

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210		215		220													
Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Ala	Ala		
225					230					235							240
Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu		
				245					250						255		
Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser		
				260				265						270			
His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu		
		275					280					285					
Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr		
	290					295					300						
Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn		
305					310					315					320		
Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Ser		
				325					330					335			
Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln		
			340					345					350				
Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val		
		355					360					365					
Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val		
	370					375					380						
Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro		
385				390					395						400		
Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr		
				405				410						415			
Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val		
			420					425					430				
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu		
	435					440						445					
Ser	Pro	Gly															
	450																

<210> 107
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 107																	
Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu		
1				5					10					15			
Thr	Leu	Ser	Leu	Thr	Cys	Ala	Val	Ser	Gly	Tyr	Ser	Ile	Ser	Ser	Val		
			20					25					30				
Arg	Tyr	Trp	Gly	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp		
		35				40						45					
Ile	Gly	Ser	Ile	Tyr	His	Ser	Gly	Ser	Thr	Tyr	Tyr	Asn	Pro	Ser	Leu		
	50				55					60							
Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser		
65				70				75						80			
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys		
				85				90					95				
Ala	Arg	Gln	Gly	Ser	Ile	Lys	Gln	Gly	Tyr	Tyr	Gly	Met	Asp	Val	Trp		
		100						105					110				
Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser								
	115						120										

<210> 108
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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<400> 108

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

<210> 109

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 109

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

<210> 110

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 110

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

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Gly Gln Gly Thr Thr Val Thr Val Ser Ser 110
 115 120 105

<210> 111
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 111
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Tyr Ser Ile Ser Ser Gly
 20 25 30
 Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Thr Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gln Gly Ser Ile Lys Gln Gly Tyr Tyr Gly Met Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 112
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 112
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Tyr Ser Ile Ser Ser Gly
 20 25 30
 Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Thr Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gln Gly Ser Ile Lys Gln Gly Tyr Tyr Gly Met Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 115 120

<210> 113
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 113

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Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	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	Gly	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	Lys	Ile
65				70					75						80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Thr	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 114

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 114

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	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	Gly	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	Lys	Ile
65				70					75						80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Thr	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		

<210> 115

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 115

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

<210> 116

<211> 112

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 116
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Ser Ala Ser Ile Ser Cys Arg Ser Ser Gln Gly Leu Leu Arg 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Thr Pro Leu Thr Phe Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 117
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 117
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Thr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 118
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 118
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Gly Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln

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Gln Glu Thr Pro⁸⁵ Leu Thr Phe Gly Gly⁹⁰ Thr Lys Val Glu⁹⁵ Ile Lys
 100 105 110

<210> 119
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 119
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 His 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 120
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 120
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Lys 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu

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Gln	Leu	115	Ser	Gly	Thr	Ala	120	Ser	Val	Val	Cys	Leu	125	Leu	Asn	Asn	Phe
	130	Lys				135						140					
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln		
145					150					155					160		
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser		
				165					170					175			
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu		
			180					185					190				
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser		
		195					200					205					
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys							
	210					215											

<210> 121

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 121

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5				10					15		
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20				25					30			
Gln	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	Gly	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	Lys	Ile
65				70					75					80	
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
			85					90					95		
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	
		100					105					110			
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
	115					120					125				
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
	130					135				140					
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145					150				155					160	
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
				165					170				175		
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
			180				185						190		
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
		195					200				205				
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
	210					215									

<210> 122

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 122

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5				10					15		
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20				25					30			
Tyr	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser

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      35      40      45
Pro  Gln  Leu  Leu  Ile  Tyr  Leu  Gly  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  Lys  Ile
   65      70      75      80
Ser  Arg  Ala  Glu  Ala  Glu  Asp  Val  Gly  Val  Tyr  Tyr  Cys  Met  Gln  Gln
      85      90      95
Gln  Glu  Ala  Pro  Leu  Thr  Phe  Gly  Gly  Gly  Thr  Lys  Val  Glu  Ile  Lys
      100      105      110
Arg  Thr  Val  Ala  Ala  Pro  Ser  Val  Phe  Ile  Phe  Pro  Pro  Ser  Asp  Glu
      115      120      125
Gln  Leu  Lys  Ser  Gly  Thr  Ala  Ser  Val  Val  Cys  Leu  Leu  Asn  Asn  Phe
      130      135      140
Tyr  Pro  Arg  Glu  Ala  Lys  Val  Gln  Trp  Lys  Val  Asp  Asn  Ala  Leu  Gln
      145      150      155      160
Ser  Gly  Asn  Ser  Gln  Glu  Ser  Val  Thr  Glu  Gln  Asp  Ser  Lys  Asp  Ser
      165      170      175
Thr  Tyr  Ser  Leu  Ser  Ser  Thr  Leu  Thr  Leu  Ser  Lys  Ala  Asp  Tyr  Glu
      180      185      190
Lys  His  Lys  Val  Tyr  Ala  Cys  Glu  Val  Thr  His  Gln  Gly  Leu  Ser  Ser
      195      200      205
Pro  Val  Thr  Lys  Ser  Phe  Asn  Arg  Gly  Glu  Cys
      210      215

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<210> 123

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 123

```

Asp  Ile  Val  Met  Thr  Gln  Ser  Pro  Leu  Ser  Leu  Pro  Val  Thr  Pro  Gly
   1      5      10      15
Glu  Pro  Ala  Ser  Ile  Ser  Cys  Arg  Ser  Ser  Gln  Ser  Leu  Leu  Arg  Ser
      20      25      30
Glu  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  Gly  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  Lys  Ile
      65      70      75      80
Ser  Arg  Ala  Glu  Ala  Glu  Asp  Val  Gly  Val  Tyr  Tyr  Cys  Met  Gln  Gln
      85      90      95
Gln  Glu  Ala  Pro  Leu  Thr  Phe  Gly  Gly  Gly  Thr  Lys  Val  Glu  Ile  Lys
      100      105      110
Arg  Thr  Val  Ala  Ala  Pro  Ser  Val  Phe  Ile  Phe  Pro  Pro  Ser  Asp  Glu
      115      120      125
Gln  Leu  Lys  Ser  Gly  Thr  Ala  Ser  Val  Val  Cys  Leu  Leu  Asn  Asn  Phe
      130      135      140
Tyr  Pro  Arg  Glu  Ala  Lys  Val  Gln  Trp  Lys  Val  Asp  Asn  Ala  Leu  Gln
      145      150      155      160
Ser  Gly  Asn  Ser  Gln  Glu  Ser  Val  Thr  Glu  Gln  Asp  Ser  Lys  Asp  Ser
      165      170      175
Thr  Tyr  Ser  Leu  Ser  Ser  Thr  Leu  Thr  Leu  Ser  Lys  Ala  Asp  Tyr  Glu
      180      185      190
Lys  His  Lys  Val  Tyr  Ala  Cys  Glu  Val  Thr  His  Gln  Gly  Leu  Ser  Ser
      195      200      205
Pro  Val  Thr  Lys  Ser  Phe  Asn  Arg  Gly  Glu  Cys
      210      215

```

<210> 124

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 124

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20					25					30		
Trp	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	Gly	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	Lys	Ile
65				70						75					80
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
		115					120					125			
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
	130					135					140				
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145					150					155					160
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
				165					170					175	
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
			180					185					190		
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
		195					200					205			
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
	210					215									

<210> 125

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 125

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	Ser
			20					25					30		
Phe	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	Gly	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	Lys	Ile
65				70						75					80
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
		115					120					125			
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
	130					135					140				
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145					150					155					160
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
				165					170					175	
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
			180					185					190		

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Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 126
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 126
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Ile 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 127
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 127
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Val 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110

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Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 128

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 128

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Ala 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 129

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 129

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30

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Met 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 130

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 130

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Leu 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 131

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 131

```

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1      5      10      15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Gln Ser Leu Leu Arg 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 Gly 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 Lys Ile
 65      70      75      80
Ser Arg Val Glu Ala Glu Asp Val Gly Ala Tyr Tyr Cys Met Gln Gln
 85      90      95
Gln Glu Ala Pro Leu Thr Phe Gly Gly Thr Lys Val Glu Ile Lys
100      105      110
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115      120      125
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130      135      140
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
145      150      155      160
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
165      170      175
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180      185      190
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195      200      205
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210      215

```

<210> 132

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 132

```

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1      5      10      15
Gly Pro Ala Ser Ile Ser Cys Arg Ser Gln Ser Leu Leu Arg 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 Gly Ser Asn Arg Ala Ser Gly Val Pro
 50      55      60
Asp Arg Leu Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65      70      75      80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85      90      95
Gln Glu Thr Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
100      105      110
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
115      120      125
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130      135      140
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
145      150      155      160
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
165      170      175
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
180      185      190

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Lys	His	Lys	180	Val	Tyr	Ala	Cys	Glu	185	Val	Thr	His	Gln	Gly	190	Leu	Ser	Ser
		195						200						205				
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys								
	210					215												

<210> 133
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	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	Gly	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	Lys	Ile
65				70					75						80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Thr	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105					110		
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
		115					120					125			
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
	130					135					140				
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145					150					155					160
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
				165					170					175	
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
			180					185					190		
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
		195					200					205			
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
	210					215									

<210> 134
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Ser	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Gly	Leu	Leu	Arg	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	Gly	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	Lys	Ile
65				70					75						80
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
				85					90					95	
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys

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Arg	Thr	Val	100	Ala	Ala	Pro	Ser	Val	105	Phe	Ile	Phe	Pro	Pro	110	Ser	Asp	Glu
Gln	Leu	Lys	115	Ser	Gly	Thr	Ala	Ser	120	Val	Val	Cys	Leu	Leu	125	Asn	Asn	Phe
Tyr	Pro	Arg	130	Glu	Ala	Lys	135	Val	Gln	Trp	Lys	Val	Asp	Asn	140	Ala	Leu	Gln
145	Ser	Gly	Asn	Ser	Gln	150	Glu	Ser	155	Val	Thr	Glu	Gln	Asp	160	Ser	Lys	Asp
165	Thr	Tyr	Ser	Leu	Ser	Ser	170	Thr	Leu	Thr	Leu	Ser	Lys	Ala	175	Asp	Tyr	Glu
180	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	185	Val	Thr	His	Gln	Gly	190	Leu	Ser	Ser
195	Pro	Val	Thr	Lys	Ser	Phe	Asn	200	Arg	Gly	Glu	Cys		205				
210							215											

<210> 135

<211> 452

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 135

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1	Thr	Leu	Ser	Leu	Thr	Cys	Ala	Val	Ser	Gly	Tyr	Ser	Ile	Ser	Gly
20	Tyr	Tyr	Trp	Gly	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Trp
35	Ile	Gly	Thr	Ile	Tyr	His	Ser	Gly	Ser	Thr	Tyr	Tyr	Asn	Pro	Ser
50	Glu	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe
65	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Ser
80	Ala	Arg	Gln	Gly	Ser	Ile	Gln	Gln	Gly	Tyr	Tyr	Gly	Met	Asp	Val
95	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly
110	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly
125	130	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro
140	145	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr
155	160	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val
170	175	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn
185	190	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro
200	205	210	Cys	Asp	Lys	Thr	His	Thr	215	Cys	Pro	Pro	Cys	Pro	Ala
220	225	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp
235	240	245	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
250	255	260	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
265	270	275	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
280	285	290	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
295	300	305	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
310	315	320													
325	330	335													

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Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln
			340					345					350		
Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val
		355					360					365			
Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val
	370					375					380				
Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro
385					390					395					400
Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr
				405					410					415	
Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val
			420					425					430		
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu
		435					440					445			
Ser	Pro	Gly	Lys												
		450													

<210> 136

<211> 451

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 136

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Ala	Val	Ser	Gly	Tyr	Ser	Ile	Ser	Ser	Gly
			20					25					30		
Tyr	Tyr	Trp	Gly	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp
		35					40					45			
Ile	Gly	Thr	Ile	Tyr	His	Ser	Gly	Ser	Thr	Tyr	Tyr	Asn	Pro	Ser	Leu
	50				55					60					
Glu	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser
65					70					75					80
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Gln	Gly	Ser	Ile	Gln	Gln	Gly	Tyr	Tyr	Gly	Met	Asp	Val	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro
		115					120						125		
Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr
	130					135					140				
Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr
145					150					155					160
Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro
			165						170					175	
Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr
			180					185						190	
Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn
		195					200					205			
His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser
	210					215					220				
Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Ala	Ala
225					230					235					240
Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu
				245					250					255	
Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser
			260					265					270		
His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu
		275					280					285			
Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr
	290					295					300				
Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn
305					310					315					320
Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Ser

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Ile	Glu	Lys	Thr	325	Ile	Ser	Lys	Ala	Lys	330	Gly	Gln	Pro	Arg	Glu	335	Pro	Gln
Val	Tyr	Thr	Leu	340	Pro	Pro	Ser	Arg	Asp	345	Glu	Leu	Thr	Lys	Asn	350	Gln	Val
Ser	Leu	Thr	Cys	355	Leu	Val	Lys	Gly	Phe	360	Tyr	Pro	Ser	Asp	Ile	Ala	Val	
Glu	Trp	Glu	Ser	370	Asn	Gly	Gln	Pro	Glu	375	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	
385	Pro	Val	Leu	Asp	390	Ser	Asp	Gly	Ser	395	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr
Val	Asp	Lys	Ser	405	Arg	Trp	Gln	Gln	Gly	410	Asn	Val	Phe	Ser	Cys	415	Ser	Val
Met	His	Glu	Ala	420	Leu	His	Asn	His	425	Tyr	Thr	Gln	Lys	Ser	Leu	430	Ser	Leu
Ser	Pro	Gly		435				440						445				
				450														

<210> 137

<211> 452

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 137

Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Glu			
1				5					10					15				
Thr	Leu	Ser	Leu	Thr	Cys	Ala	Val	Ser	Gly	Tyr	Ser	Ile	Ser	Ser	Gly			
			20					25					30					
Tyr	Tyr	Trp	Gly	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp			
		35					40					45						
Ile	Gly	Thr	Ile	Tyr	His	Ser	Gly	Ser	Thr	Tyr	Tyr	Asn	Pro	Ser	Leu			
	50				55					60								
Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser			
65				70					75					80				
Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys			
			85					90					95					
Ala	Arg	Gln	Gly	Ser	Ile	Lys	Gln	Gly	Tyr	Tyr	Gly	Met	Asp	Val	Trp			
		100						105				110						
Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro			
		115					120					125						
Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr			
	130				135					140								
Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr			
145				150					155					160				
Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro			
			165					170				175						
Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr			
		180					185					190						
Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn			
	195						200					205						
His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser			
	210				215					220								
Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Ala	Ala			
225				230					235					240				
Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu			
			245					250				255						
Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser			
			260				265					270						
His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu			
	275						280					285						
Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr			
	290				295						300							
Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn			
305				310				315						320				

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Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Ser
 325 330 335
 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 340 345 350
 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val
 355 360 365
 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 370 375 380
 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 385 390 395 400
 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 405 410 415
 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 420 425 430
 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 435 440 445
 Ser Pro Gly Lys
 450

<210> 138

<211> 451

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 138

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Tyr Ser Ile Ser Ser Gly
 20 25 30
 Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Ile Gly Thr Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu
 50 55 60
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Gln Gly Ser Ile Lys Gln Gly Tyr Tyr Gly Met Asp Val Trp
 100 105 110
 Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
 115 120 125
 Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
 130 135 140
 Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
 145 150 155 160
 Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
 165 170 175
 Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
 180 185 190
 Val Pro Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
 195 200 205
 His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser
 210 215 220
 Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala
 225 230 235 240
 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 245 250 255
 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 260 265 270
 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 275 280 285
 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 290 295 300
 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn

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305	Gly	Lys	Glu	Tyr	Lys	310	Cys	Lys	Val	Ser	Asn	315	Lys	Ala	Leu	Pro	Ala	320	Ser
					325							330	Gly	Gln	Pro	Arg	Glu	335	Pro
	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	345	Asp	Glu	Leu	Thr	Lys	Asn	Gln	350	Val
	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	360						365				
	Ser	Leu	Thr	Cys	Leu	Val	Lys	375	Gly	Phe	Tyr	Pro	Ser	380	Asp	Ile	Ala	Val	
	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	395	Thr	Thr	Pro	400	
	Pro	Val	Leu	Asp	Ser	405	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	415	
	Val	Asp	Lys	Ser	420	Arg	Trp	Gln	Gln	Gly	425	Asn	Val	Phe	Ser	Cys	Ser	430	Val
	Met	His	Glu	Ala	Leu	His	Asn	His	440	Tyr	Thr	Gln	Lys	Ser	445	Leu	Ser	Leu	
	Ser	Pro	Gly																

<210> 139
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 139

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10				15		
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	Arg	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	Gly	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	Lys	Ile
65				70					75					80	
Ser	Arg	Ala	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Gln
			85					90					95		
Gln	Glu	Ala	Pro	Leu	Thr	Phe	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	
			100					105				110			
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
		115					120					125			
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
	130					135					140				
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
145					150					155				160	
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
			165						170					175	
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
			180					185					190		
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
		195					200					205			
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
			210			215									

<210> 140
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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<400> 140

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Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1      5      10      15
Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg 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 Gly 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 Lys Ile
65      70      75      80
Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
      85      90      95
Gln Glu Ala Pro Leu Thr Phe Gly Gly Thr Lys Val Glu Ile Lys
      100      105      110
Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
      115      120      125
Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
130      135      140
Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
145      150      155      160
Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
      165      170      175
Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
      180      185      190
Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
195      200      205
Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
210      215

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<210> 141

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 141

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

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<210> 142
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 142
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Thr 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 143
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 143
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Ser 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140

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Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 144

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 144

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Gly 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 Gly 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 Lys Ile
 65 70 75 80
 Ser Arg Ala Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gln
 85 90 95
 Gln Glu Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 145

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 145

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Arg Ser
 20 25 30
 Arg 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 Gly Ser Asn Arg Ala Ser Gly Val Pro
 50 55 60

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Asp 65	Arg	Phe	Ser	Gly	Ser 70	Gly	Ser	Gly	Thr	Asp 75	Phe	Thr	Leu	Lys	Ile 80
Ser	Arg	Ala	Glu	Ala 85	Glu	Asp	Val	Gly	Val 90	Tyr	Tyr	Cys	Met	Gln 95	Gln
Gln	Glu	Ala	Pro 100	Leu	Thr	Phe	Gly	Gly 105	Gly	Thr	Lys	Val	Glu 110	Ile	Lys
Arg	Thr	Val 115	Ala	Ala	Pro	Ser	Val 120	Phe	Ile	Phe	Pro	Pro 125	Ser	Asp	Glu
Gln	Leu 130	Lys	Ser	Gly	Thr	Ala 135	Ser	Val	Val	Cys	Leu 140	Leu	Asn	Asn	Phe
Tyr 145	Pro	Arg	Glu	Ala	Lys 150	Val	Gln	Trp	Lys	Val 155	Asp	Asn	Ala	Leu	Gln 160
Ser	Gly	Asn	Ser	Gln 165	Glu	Ser	Val	Thr	Glu 170	Gln	Asp	Ser	Lys	Asp 175	Ser
Thr	Tyr	Ser	Leu 180	Ser	Ser	Thr	Leu	Thr 185	Leu	Ser	Lys	Ala	Asp 190	Tyr	Glu
Lys	His	Lys 195	Val	Tyr	Ala	Cys	Glu 200	Val	Thr	His	Gln	Gly 205	Leu	Ser	Ser
Pro	Val 210	Thr	Lys	Ser	Phe	Asn 215	Arg	Gly	Glu	Cys					

<210> 146

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 146

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