

SEQUENCE LISTING

<110> Nanjing Legend Biotech Co., Ltd.

<120> SINGLE-DOMAIN ANTIBODIES AND VARIANTS
THEREOF AGAINST PD-1

<130> 761422000840

<140> Not Yet Assigned

<141> Concurrently Herewith

<160> 386

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 1

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

<210> 2

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 2

Gln	Val	His	Leu	Val	Asp	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser							
			20					25							

<210> 3

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 3

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser							
			20					25							

<210> 4

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<400> 4

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

<210> 5

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<223> Synthetic Construct

<400> 5

Gln	Met	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser							
			20					25							

<210> 6

<211> 25

<212> PRT

<213> Artificial Sequence

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<400> 6

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Ala Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser
20 25

<210> 7

<211> 25

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<213> Artificial Sequence

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<223> Synthetic Construct

<400> 7

Gln Ile Gln Leu Val Glu Ser Gly Gly Gly Ser Ala Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Val Ser
20 25

<210> 8

<211> 25

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 8

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

<210> 9

<211> 25

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<213> Artificial Sequence

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<223> Synthetic Construct

<400> 9

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 10
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<400> 10
Gln Val His Leu Met Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Thr Leu Ser Cys Ala Ala Ser
20 25

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<400> 11
Gln Ile Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

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<400> 12
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 13
<211> 25
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<213> Artificial Sequence

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<223> Synthetic Construct

<400> 13

Gln	Val	Lys	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5				10						15	
Tyr	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser							
			20					25							

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<223> Synthetic Construct

<400> 14

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Gly	Ser							
			20					25							

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<223> Synthetic Construct

<400> 15

Gln	Val	His	Leu	Met	Glu	Ser	Gly	Gly	Gly	Ser	Val	Pro	Ser	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser							
			20					25							

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<400> 16

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

<210> 17

<211> 25

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<400> 17

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

<210> 18

<211> 25

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 18

Gln Val His Leu Met Glu Ser Gly Gly Gly Ala Val Gln Thr Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser
20 25

<210> 19

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<400> 19

Glu Val Gln Leu Ala Glu Ser Gly Gly Gly Ser Val Gln Ser Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser
20 25

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<400> 20
Gln Val His Leu Val Glu Ser Gly Gly Ala Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Thr
20 25

<210> 21
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<400> 21
Glu Val Gln Leu Ala Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Ile Ser
20 25

<210> 22
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<400> 22
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Pro Leu Arg Leu Thr Cys Ala Ala Thr
20 25

<210> 23
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<400> 23

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

<210> 24

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<400> 24

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ser	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser							
			20					25							

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<400> 25

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ser	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser							
			20					25							

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<400> 26

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

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<400> 27

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

<210> 28

<211> 25

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<400> 28

Gln Val His Leu Met Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Val Ser
20 25

<210> 29

<211> 25

<212> PRT

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<400> 29

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser
20 25

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

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<400> 31
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Met Gln Pro Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

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<400> 32
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Thr
20 25

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<400> 33

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

<210> 34

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<400> 34

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

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<400> 35

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

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<400> 36

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

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<400> 37

Gly	Gly	Thr	Leu	Asp	Tyr	Tyr	Ala	Ile	Gly
1				5					10

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<400> 38

Gly	Ser	Ile	Thr	Ser	Arg	Asn	Thr	Met	Gly
1				5					10

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<400> 39

Gly	Tyr	Thr	Tyr	Ile	Pro	Asn	Cys	Met	Ala
1				5					10

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<400> 40

Ala	Tyr	Thr	Tyr	Ser	Asn	Ile	Cys	Leu	Gly
1				5					10

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<400> 41

Gly	Tyr	Ile	Tyr	Asn	Arg	Asn	Phe	Met	Gly
1				5					10

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<400> 42

Gly	Tyr	Ile	Tyr	Asn	Arg	Asn	Phe	Met	Gly
1				5					10

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<400> 43

Gly	Asn	Ile	Tyr	Asn	Arg	Asn	Phe	Met	Gly
1				5					10

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<400> 44
Gly Phe Thr Phe Ser Thr Ala Ala Met Ser
1 5 10

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<400> 45
Gly Phe Thr Asp Ser Ser Tyr Cys Gly Ala
1 5 10

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<211> 10
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<223> Synthetic Construct

<400> 46
Val Phe Thr Asp Ser Asn Tyr Cys Met Ala
1 5 10

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<400> 47
Gly Phe Thr Asp Ser Ser Tyr Cys Gly Ala
1 5 10

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<223> Synthetic Construct

<400> 48
Gly Tyr Thr Ala Gly Ser Leu Cys Met Gly
1 5 10

<210> 49
<211> 10
<212> PRT
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<400> 49
Gly Asp Thr Asn Asn Leu Asn Phe Arg Gly
1 5 10

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

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<223> Synthetic Construct

<400> 50
Gly Phe Thr Phe Asn Asn Tyr Ala Met Gly
1 5 10

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<400> 51
Gly Ser Gly Tyr Ser Tyr Ser Arg Gly Cys Phe Ala
1 5 10

<210> 52
<211> 10
<212> PRT
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<400> 52
Gln Trp Ile Ser Ser Asp Cys Gly Met Ala
1 5 10

<210> 53
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<213> Artificial Sequence

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<400> 53
Gly Tyr Ser Trp Arg Pro Asp Cys Met Gly
1 5 10

<210> 54
<211> 10
<212> PRT
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<223> Synthetic Construct

<400> 54
Gly Ile Ser Ile Ser Pro Asp Cys Met Gly
1 5 10

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<400> 55

Gly Ser Gly Tyr Ser Tyr Ser Arg Gly Cys Phe Ala
1 5 10

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<400> 56
Ala Tyr Thr Ala Ser Asn Tyr Cys Met Gly
1 5 10

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<400> 57
Gly Thr Ser Ile Ser Pro Asp Cys Met Gly
1 5 10

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<400> 58
Gly Tyr Ser Trp Arg Pro Asp Cys Met Gly
1 5 10

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<400> 59

Gly Ser Gly Tyr Ser Tyr Ser Arg Gly Cys Phe Ala
1 5 10

<210> 60

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<400> 60

Gly Ser Gly Tyr Ser Tyr Ser Arg Gly Cys Phe Ala
1 5 10

<210> 61

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<212> PRT

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<400> 61

Gly Ser Gly Tyr Ser Tyr Asn Arg Gly Cys Phe Ala
1 5 10

<210> 62

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 62

Gly Ser Gly Tyr Ser Tyr Ser Arg Gly Cys Phe Ala
1 5 10

<210> 63

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Synthetic Construct

<400> 63

Gly	Ile	Ser	Ile	Ser	Pro	Asp	Cys	Met	Gly
1				5					10

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<211> 10

<212> PRT

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<400> 64

Gly	Ile	Ser	Ile	Ser	Pro	Asp	Cys	Met	Gly
1				5					10

<210> 65

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<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 65

Gly	Ile	Ser	Ile	Ser	Pro	Asp	Cys	Met	Gly
1				5					10

<210> 66

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<400> 66

Gly	Phe	Thr	Phe	Ser	Val	Trp	Ser	Met	Ser
1				5					10

<210> 67

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<400> 67

Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Trp	Met	Tyr
1				5					10

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<400> 68

Ala	Tyr	Thr	Ala	Ser	Phe	Tyr	Cys	Met	Gly
1				5					10

<210> 69

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<400> 69

Gly	Asn	Ile	Tyr	Asn	Arg	Asn	Phe	Met	Gly
1				5					10

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<400> 70

Gly	Asn	Ile	Tyr	Asn	Arg	Asn	Phe	Met	Gly
1				5					10

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<212> PRT
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<400> 71
Gly Asn Ile Tyr Asn Arg Asn Phe Met Gly
1 5 10

<210> 72
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 72
Gly Asn Ile Tyr Asn Arg Asn Phe Met Gly
1 5 10

<210> 73
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<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 73
Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Ala Val Ser
1 5 10

<210> 74
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<213> Artificial Sequence

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<223> Synthetic Construct

<400> 74
Trp Tyr Arg Gln Val Pro Gly Lys Gln Arg Glu Leu Val Ala
1 5 10

<210> 75
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<213> Artificial Sequence

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<223> Synthetic Construct

<400> 75
Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val Thr
1 5 10

<210> 76
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<400> 76
Trp Leu Arg Gln Ala Pro Gly Gly Gly Leu Glu Ala Val Ala
1 5 10

<210> 77
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<400> 77
Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

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<400> 78
Trp Phe Arg Gln Val Pro Gly Lys Val Arg Glu Gly Val Ala

1 5 10

<210> 79
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<400> 79
Trp Phe Arg Gln Ala Pro Gly Lys Val Arg Glu Gly Val Ala
1 5 10

<210> 80
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<223> Synthetic Construct

<400> 80
Trp Val Arg Gln Val Pro Glu Glu Gly Leu Glu Trp Val Ala
1 5 10

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<400> 81
Trp Phe Arg Gln Val Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

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<223> Synthetic Construct

<400> 82

Trp Phe Arg Gln Val Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 83

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<223> Synthetic Construct

<400> 83

Trp Phe Arg Gln Val Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 84

<211> 14

<212> PRT

<213> Artificial Sequence

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<400> 84

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 85

<211> 14

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<400> 85

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 86

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<400> 86

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Ile Ala
1 5 10

<210> 87

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<400> 87

Trp Phe Gln Gln Arg Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 88

<211> 14

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<400> 88

Trp Tyr Arg Gln Ala Pro Gly Lys Glu Arg Glu Leu Val Ser
1 5 10

<210> 89

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<400> 89

Trp Tyr Arg Gln Ala Ala Glu Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 90

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<400> 90

Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Lys	Arg	Glu	Ala	Val	Thr
1				5					10				

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<400> 91

Trp	Phe	Gln	Gln	Arg	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val	Ala
1				5					10				

<210> 92

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<400> 92

Trp	Phe	Arg	Gln	Ser	Pro	Gly	Lys	Glu	Arg	Glu	Ala	Val	Ala
1				5					10				

<210> 93

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<223> Synthetic Construct

<400> 93

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

<210> 94

<211> 14

<212> PRT
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<220>
<223> Synthetic Construct

<400> 94
Trp Tyr Arg Gln Ala Ala Glu Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 95
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 95
Trp Phe Gln Gln Arg Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 96
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 96
Trp Phe Gln Gln Arg Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 97
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 97
Trp Phe Gln Gln Arg Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 98
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 98
Trp Phe Gln Gln Arg Pro Gly Lys Glu Arg Glu Gly Val Ala
1 5 10

<210> 99
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 99
Trp Phe Arg Gln Ala Pro Gly Lys Lys Arg Glu Ala Val Ala
1 5 10

<210> 100
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 100
Trp Phe Arg Gln Ala Pro Gly Lys Lys Arg Glu Ala Val Ala
1 5 10

<210> 101
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 101
Trp Phe Arg Gln Ala Pro Gly Lys Lys Arg Glu Ala Val Ala
1 5 10

<210> 102
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 102
Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Val Ser
1 5 10

<210> 103
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 103
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
1 5 10

<210> 104
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 104
Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Ala Val Ala
1 5 10

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

<220>
<223> Synthetic Construct

<400> 105

Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Gly Val Ser
1 5 10

<210> 106

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 106

Trp Phe Arg Gln Ala Pro Gly Lys Gly Leu Glu Gly Val Ser
1 5 10

<210> 107

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 107

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val Ser
1 5 10

<210> 108

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 108

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val Ser
1 5 10

<210> 109

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 109

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

1 5 10 15

Gly

<210> 110

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 110

Leu Ile Ala Thr Phe Val Thr His Tyr Ala Asp Ser Val Lys Gly

1 5 10 15

<210> 111

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 111

Leu Ile Phe Thr Gly Asp Gly Thr Ser Thr Tyr Val Asp Ser Val Lys

1 5 10 15

Gly

<210> 112

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 112

Thr Ile Tyr Ile Ala Asp Gln Thr Ser Tyr Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 113
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 113
Ala Ile Tyr Thr Gly Gly Pro Tyr Thr Tyr Tyr Thr Asp Ser Val Gln
1 5 10 15
Gly

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

<220>
<223> Synthetic Construct

<400> 114
Ala Ile Tyr Thr Gly Thr Glu Arg Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 115
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 115
Ala Ile Tyr Thr Gly Thr Ser Arg Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 116
<211> 17
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 116

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

Gly

<210> 117

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 117

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

<210> 118

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 118

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

<210> 119

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 119

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

<210> 120
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 120
Ala Ile Tyr Thr Gly Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 121
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 121
Val Ile Thr His Ser Gly Ser Thr Tyr Tyr Ala Glu Ser Val Lys Gly
1 5 10 15

<210> 122
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 122
Gly Ile Trp Thr Gly Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 123
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 123

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

<210> 124

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 124

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

<210> 125

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 125

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

<210> 126

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 126

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

<210> 127

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 127

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

<210> 128

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 128

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

<210> 129

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 129

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

Gly

<210> 130

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 130

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

<210> 131
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 131
Ile Ile Asn Ser Asp Gly His Thr Arg Tyr Ser Asp Ser Val Gln Gly
1 5 10 15

<210> 132
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 132
Ile Ile Asn Ser Asp Gly His Thr Arg Tyr Ser Asp Ser Val Gln Gly
1 5 10 15

<210> 133
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 133
Ile Ile Asn Ser Asp Gly His Thr Thr Tyr Gly Asp Ser Val Gln Gly
1 5 10 15

<210> 134
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 134
Ile Ile Asn Met Asp Gly His Thr Met Tyr Ser Asp Leu Ala Gln Gly

1 5 10 15

<210> 135
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 135
Thr Ile Phe Thr Asn Thr Ala Ser Thr Arg Tyr Gly Asp Ser Val Lys
1 5 10 15
Gly

<210> 136
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 136
Thr Ile Phe Thr Asn Thr Arg Arg Thr Arg Tyr Gly Asp Ser Val Lys
1 5 10 15
Gly

<210> 137
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 137
Thr Ile Phe Thr Asn Thr Arg Ser Thr Arg Tyr Gly Asp Ser Val Lys
1 5 10 15
Gly

<210> 138
<211> 17

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 138
Thr Ile Thr Gly Ser Gly Ala Gln Thr Tyr Tyr Ala Ser Ser Val Arg
1 5 10 15
Gly

<210> 139
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 139
Val Ile Asn Arg Ala Gly Asp Ser Ala Trp Tyr Ala Asp Ser Val Thr
1 5 10 15
Gly

<210> 140
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 140
Ser Ile Asn Asp Asp Gly Val Thr Met Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 141
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 141

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

<210> 142
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 142
Ala Ile Tyr Thr Gly Thr Ser Arg Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 143
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 143
Ala Ile Tyr Thr Gly Thr Ser Arg Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 144
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 144
Ala Ile Tyr Thr Gly Thr Ser Arg Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 145
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 145
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Lys Pro Gly Asp Thr Ala Val Tyr His Cys Ala Thr
20 25 30

<210> 146
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 146
Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Lys Met Val Phe Leu Glu
1 5 10 15
Met Asn Ser Leu Gln Pro Glu Asp Thr Gly Ala Tyr Tyr Cys Tyr Val
20 25 30

<210> 147
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 147
Arg Phe Thr Ile Ser Gln Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
20 25 30

<210> 148
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 148

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

<210> 149

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 149

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

<210> 150

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 150

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

<210> 151

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 151

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

<210> 152

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 152

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

<210> 153

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 153

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

<210> 154

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 154

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

<210> 155
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 155
Arg Phe Thr Ile Ser Lys Asp Thr Ala Lys Asn Ile Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Lys Leu Glu Asp Thr Ala Met Tyr Tyr Cys Ala Ala
20 25 30

<210> 156
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 156
Arg Phe Thr Ile Ser Gln Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Gln Tyr Tyr Cys Gly Ala
20 25 30

<210> 157
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 157
Arg Phe Thr Ile Ser Gln Asp Leu Ala Lys Asn Thr Met Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys Ala Ala
20 25 30

<210> 158
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 158

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

<210> 159

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 159

Arg	Phe	Ile	Ile	Ser	Gln	Asp	Lys	Ala	Lys	Asn	Thr	Leu	His	Leu	Gln
1				5					10					15	
Met	Asn	Thr	Leu	Arg	Pro	Asp	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ala	Tyr
			20					25					30		

<210> 160

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 160

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

<210> 161

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 161

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

<210> 162

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 162

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

<210> 163

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 163

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

<210> 164

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 164

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

<210> 165
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 165
Arg Phe Thr Ser Ser Gln Gly Asn Ala Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15
Met Asp Ser Leu Lys Leu Asp Asp Thr Ala Thr Tyr Tyr Cys Ala Ala
20 25 30

<210> 166
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 166
Arg Phe Thr Ile Ser Arg Asp Asn Asn Asn Ile Thr Leu Tyr Leu Gln
1 5 10 15
Met Leu Lys Pro Asp Asp Thr Gly Met Tyr Val Cys Val Ile
20 25 30

<210> 167
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 167
Arg Phe Ile Ile Ser Gln Asp Lys Ala Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Lys Pro Asp Asp Ala Ala Met Tyr Tyr Cys Ala Tyr
20 25 30

<210> 168
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 168

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

<210> 169

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 169

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

<210> 170

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 170

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

<210> 171

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 171

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

<210> 172
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 173
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Arg	Phe	Thr	Ser	Ser	Gln	Gly	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	Leu	Gln
1				5					10					15	
Met	Asp	Ser	Leu	Lys	Leu	Asp	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Ala	Ala
			20					25					30		

<210> 174
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 175
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 175
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
1 5 10 15
Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys Ala Ala
20 25 30

<210> 176
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 176
Gln Phe Thr Ile Ser Gln Asp Ser Ala Thr Lys Thr Leu Tyr Leu Gln
1 5 10 15
Met Asn Arg Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys Ala Ala
20 25 30

<210> 177
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 177
Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln
1 5 10 15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
20 25 30

<210> 178
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 178

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

<210> 179

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 179

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

<210> 180

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 180

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

<210> 181

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 181

Asp Arg Ala Cys Gly Ser Ser Trp Leu Gly Ala Glu Ser
1 5 10

<210> 182

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 182

Asp Val Ser Pro Tyr
1 5

<210> 183

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 183

Ala Glu Arg Cys Ser Gly Ser Asn Asp Arg Ile Ser Phe Trp Gly Ile
1 5 10 15
Ser Tyr

<210> 184

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 184

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

<210> 185

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 185

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

<210> 186

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 186

Asp Leu Arg Asp Gly Thr Trp Asp Thr Gly Val Trp Asn Thr
1 5 10

<210> 187

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 187

Asp Leu Arg Asp Gly Phe Trp Asp Thr Gly Val Trp Asn Thr
1 5 10

<210> 188

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 188

Asp His Met Ser Trp Leu Pro
1 5

<210> 189

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 189

Ala	Glu	Tyr	Arg	Gly	Ser	Ser	Cys	Asp	Ala	Glu	Ser	Gly	Tyr
1				5					10				

<210> 190

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 190

Ala	Gly	Tyr	Arg	Gly	Ser	Ser	Cys	Asp	Ala	Asp	Ser	Gly	Tyr
1				5					10				

<210> 191

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 191

Ala	Glu	Tyr	Arg	Gly	Ser	Ser	Cys	Asp	Ala	Glu	Ser	Gly	Tyr
1				5					10				

<210> 192

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 192

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

<210> 193

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

<220>
<223> Synthetic Construct

<400> 193
Ala Asp Val Trp Arg Ile Ser Trp Ser Phe Val Pro Glu Leu Phe Ser
1 5 10 15
Tyr

<210> 194
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 194
Glu Arg Trp Asp Tyr Ser Asp Trp Arg Arg Leu Lys Arg Gly Asp Tyr
1 5 10 15
Asn Tyr

<210> 195
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 195
Asp Arg Ser Gln Cys Tyr Val Leu Ser Asp Arg Leu Arg Leu Pro Gly
1 5 10 15
Thr Phe Ser Asp
20

<210> 196
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 196

Glu	Ala	Lys	Ser	Thr	Ile	Thr	Ser	Leu	Cys	Tyr	Pro	Leu	Asn	Tyr
1				5				10					15	

<210> 197

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 197

Gly	Trp	Arg	Val	Ser	Ser	Gly	Gly	Asn	Cys	Gln	Phe	Asn	Asp	Tyr
1				5				10					15	

<210> 198

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 198

Arg	Phe	Thr	Gly	Gly	Asp	Cys	Phe	Asp	His	Gln	Pro	Leu	Ala
1				5				10					

<210> 199

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 199

Asp	Arg	Ser	Gln	Cys	Tyr	Val	Leu	Arg	Asp	Arg	Leu	Arg	Leu	Pro	Asp
1				5				10						15	
Thr	Phe	Thr	Asp												
			20												

<210> 200

<211> 18

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 200
Thr Pro Asp Gly Tyr Cys Tyr Ala Glu Arg Leu Ser Arg Trp Arg Tyr
1 5 10 15
Glu Phe

<210> 201
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 201
Arg Tyr Thr Gly Gly Asp Cys Phe Asn Leu Glu Pro Leu Ala Trp Arg
1 5 10 15
Phe

<210> 202
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 202
Gly Trp Arg Val Ser Ser Gly Gly Asn Cys Gln Phe Asn Asp Tyr
1 5 10 15

<210> 203
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 203

Asp Arg Asn Gln Cys Tyr Val Leu Leu Asp Arg Leu Arg Leu Pro Gly
1 5 10 15
Thr Phe Ser Asp
20

<210> 204
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 204
Asp Cys Ser Gln Cys Tyr Val Leu Arg Asp Arg Leu Arg Leu Pro Asp
1 5 10 15
Thr Phe Thr Asp
20

<210> 205
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 205
Asp Arg Asn Gln Cys Tyr Val Leu Arg Asp Arg Leu Arg Leu Pro Asp
1 5 10 15
Thr Phe Thr Asp
20

<210> 206
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 206
Asp Arg Asp Gln Cys Tyr Val Leu Arg Asp Arg Leu Arg Leu Pro Asp
1 5 10 15
Thr Phe Asn Asp
20

<210> 207
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 207
Arg Tyr Thr Gly Gly Asn Cys Phe Asn Leu Glu Pro Leu Ala Trp His
1 5 10 15
Phe

<210> 208
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 208
Arg Tyr Thr Gly Gly Asp Cys Phe Asn Leu Asp Pro Leu Ser Trp Arg
1 5 10 15
Phe

<210> 209
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 209
Arg Tyr Thr Gly Gly Asp Cys Phe Asn Leu Glu Pro Val Ala Trp Arg
1 5 10 15
Phe

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

<220>

<223> Synthetic Construct

<400> 210

Gly Asn Gly Gln Thr Ala Met Glu Ala Leu Ile Asn Pro Pro

1

5

10

<210> 211

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 211

Asp Ser Arg Gly Tyr Gly Gly Asp Trp Tyr Lys Leu Leu Ser Asp Phe

1

5

10

15

Asn Tyr

<210> 212

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 212

Thr Pro Glu Gly Tyr Cys Tyr Ala Glu Arg Leu Ser Thr Trp Arg Tyr

1

5

10

15

Thr Phe

<210> 213

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 213

Asp Leu Arg Asp Gly Phe Trp Asp Thr Gly Val Trp Asn Thr

1

5

10

<210> 214
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 214
Asp Leu Arg Glu Gly Phe Trp Asp Thr Gly Val Trp Asn Thr
1 5 10

<210> 215
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 215
Asp Leu Arg Asp Gly Phe Trp Asp Thr Gly Val Trp Asn Thr
1 5 10

<210> 216
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 216
Asp Leu Arg Glu Gly Phe Trp Asp Thr Gly Val Trp Asn Thr
1 5 10

<210> 217
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 217

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

<210> 218

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 218

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

<210> 219

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 219

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

<210> 220

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 220

Arg Ala Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 221

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 221
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 222
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 222
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 223
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 223
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 224
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 224
Arg Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 225
<211> 11
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<220>

<223> Synthetic Construct

<400> 225

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

<210> 226

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 226

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

<210> 227

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 227

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

<210> 228

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 228

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

<210> 229

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 229

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

<210> 230

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 230

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

<210> 231

<211> 11

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<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 231

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

<210> 232

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 232

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

<210> 233

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

<220>
<223> Synthetic Construct

<400> 233
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 234
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
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<400> 234
Trp Arg Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 235
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 235
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 236
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 236
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 237
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 237
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 238
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 238
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 239
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 239
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 240
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 240
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser

1 5 10

<210> 241
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 241
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 242
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 242
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 243
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 243
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 244
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 244
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 245
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 245
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 246
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 246
Glu Arg Pro Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 247
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
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<400> 247
Cys Gly Gln Gly Thr Gln Val Thr Val Ser Ser
1 5 10

<210> 248
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 248

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

<210> 249

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 249

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

<210> 250

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 250

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

<210> 251

<211> 11

<212> PRT

<213> Artificial Sequence

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<400> 251

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

<210> 252

<211> 11

<212> PRT

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<400> 252

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

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<210> 253

<211> 366

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<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 253

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tcctgtgcag	cctctggagg	cactttggat	tattatgcca	taggctgggt	ccgccaggcc	120
ccagggaagg	agcgcgaggc	cgtgtcatgt	attagtagta	gcgatggtag	cacatactat	180
gcagactccg	tgaagggccg	attcaccatc	tccagagaca	atgccaagaa	cacggtgtat	240
cttcaaatga	acagcctgaa	acctggggac	acggccgttt	atcactgtgc	gacagatcgg	300
gcgtgcggta	gtagctgggt	agggggccgaa	tcattgggccc	aggggaccca	ggtcaccgtc	360
tcctca						366

<210> 254

<211> 336

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 254

caggtgcacc	tggtggattc	tgggggaggc	ttggtgcagc	ctgggggggtc	tctgagactc	60
tcctgtgcag	cctctggaag	catcaccagt	agaaatacca	tgggctggta	ccggcagggt	120
ccagggaagc	agcgcgaatt	ggtcgcgcta	attgcgactt	ttgtcacaca	ttatgcggac	180
tccgtgaagg	gccgattcac	catctccaga	gataacgcca	ggaagatggg	gtttctagag	240
atgaacagcc	tgcaacctga	ggacacgggc	gcgtattatt	gttatgtcga	tgtctcgccc	300
tattggggcc	gggggaccca	ggtcaccgtc	tcctca			336

<210> 255

<211> 381

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 255
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ccagggaagg agcgcgaggg ggtcacactt atttttactg gtgatgggtac ctcaacctat 180
gtcgactccg tgaaggggccg attcaccatc tcccaagaca acgccaagaa cacggtgtat 240
ctgcaaatga acagcctgaa acccgaggac actgccttgt actactgtgc ggcagccgaa 300
cgttgtagtg gttcaaacga cagaatatcc ttttggggaa ttagctactg gggccagggg 360
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<210> 256
<211> 372
<212> DNA
<213> Artificial Sequence

<220>
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<400> 256
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ccagggggggg ggctcgaggc tgtcgcaacg atttatattg cggatcagac atcatactat 180
gccgactccg tgaaggggccg attccgcacg tctaaagacg ccgccaagaa cgcggtgtat 240
ctgcaaatga gcagcctgag acctgaggac actgccatgt actactgtgc gtcccgggtac 300
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accgtctcct ca 372

<210> 257
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 257
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tcttgtgcag tctctggata catctacaat cgcaacttca tgggctgggt ccgccaggct 120
cccgggaagg agcgcgaggg ggtcgcggct atttatactg gtggcccata cacatactat 180
accgactccg tgcaggggccg attcaccatc tcccaagaca acaccaagaa cacggtgtat 240
ctgcaaatga acagcctgaa acctgaggac actgccatgt attacttgtt gtcagatctt 300
tcggacggta cttggggacca gggccgatgg aactactggg gccaggggac ccaggtcacc 360
gtctcctca 369

<210> 258
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 258

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ccaggaaagg tgcgcgagggg ggtcgcagca atttatactg gtactgaacg cacgtactat 180
gccgactccg tgaagggccg attcaccatc tcccaagaca acgccaagaa cacgggtgtat 240
ctgcagatga atagtctgaa acctgaggac actgccatgt actactgtgt ggcggatttg 300
cgggatggta cttgggatac gggcgtatgg aacacctggg gccaggggac ccaggtcacc 360
gtctcctca 369
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<210> 259

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 259

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ccagggaagg tgcgcgagggg ggtcgcagca atttatactg gtactagtcg cacgtactat 180
gccgactccg tgaagggccg attcaccatc tcccaagaca acgccaagaa tacgggtgtat 240
ctgcaaatga atagtctgaa acctgaggac actgccatgt actactgtgc ggcggatttg 300
cgggatgggt tctgggatac gggcgtatgg aacacctggg gccaggggac ccaggtcacc 360
gtctcctca 369
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<210> 260

<211> 348

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 260

```
caggtgcaac tgggtggagtc tggggggaggc ttggtgcagc ctgggggggtc tctgacactc 60
tcctgtgcag cctctggatt cacgttcagt accgccgcca tgagctgggt ccgccagggtt 120
ccagaggagg gactcgagtg ggtcgcacatc attgatagta gtggtagtcg cacatactat 180
gcgggctccg tgaagggccg attcaccatc tccagagaca acgccaagaa cacgctgtat 240
ttgcaattga acagcctgaa agctgaggac acggccatgt attactgtgc aaaagatcac 300
atgagctggt tgccgcgggg ccaggggacc caggtcaccg tctcctca 348
```

<210> 261

<211> 366

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

```

<400> 261
caggtgcaac tgggtggagtc tggggggagga tcggtgcagg ctggagggtc tctgagactc 60
tcctgtgcag cctctggatt caccgacagt tcgtactgcg gggcctgggtt tcgccagggtt 120
ccagggaagg agcgcgaggg ggtcgcgatt atcgatagat atggtgggac aatgtacaaa 180
gactccgtga agggccgatt caccatctcc aaagacactg ccaagaatat tctgtatctg 240
caaatgaaca gcctgaaact tgaggacact gccatgtact actgtgcggc agccgaatat 300
cgaggctctt cgtgtgacgc ggagagtggc tactggggcc aggggaccca ggtcaccgtc 360
tcctca 366

```

```

<210> 262
<211> 366
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> Synthetic Construct

```

```

<400> 262
caggtgcacc tgatggagtc tggggggaggt tcggtgcagg ctggagggtc cctgactctc 60
tcctgtgcag cctctgtatt caccgacagt aactactgca tggcctgggtt ccgccagggtt 120
ccagggaagg agcgcgaggg ggtcgcgaatt atcgatagat atggtgggtac gatgtacaaa 180
gactccgtga agggccgatt caccatctcc aaagacactg ccaagaatat tctgtatctg 240
caaatgaaca gcctgaaact tgaggacact gccatgtact actgtgcggc agccgggtat 300
cgaggctctt cgtgtgacgc ggatagtggc tactggggcc aggggaccca ggtcaccgtc 360
tcctca 366

```

```

<210> 263
<211> 366
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> Synthetic Construct

```

```

<400> 263
cagattcagc tgggtggagtc tggggggagga tcggtgcagg ctggagggtc tctgagactc 60
tcctgtgcag cctctggatt caccgacagt tcgtactgcg gggcctgggtt tcgccagggtt 120
ccagggaagg agcgcgaggg ggtcgcgatt atcgatagat atggtgggac aatgtacaaa 180
gactccgtga agggccgatt caccatctcc aaagacactg ccaagaatat tctgtatctg 240
caaatgaaca gcctgaaact tgaggacact gccatgtact actgtgcggc agccgaatat 300
cgaggctctt cgtgtgacgc ggagagtggc tactggggcc aggggaccca ggtcaccgtc 360
tcctca 366

```

```

<210> 264
<211> 372
<212> DNA
<213> Artificial Sequence

```

```

<220>

```

<223> Synthetic Construct

<400> 264

```
cagggtgcaac tgggtggagtc tggggggaggc tcggtgcagg ctggagggtc tctgagactc 60
tcctgtgcag cctctggata caccgccggt agcctctgca tgggctgggt ccgccaggct 120
ccagggaagg agcgcgaggg ggtcgcagct atttatactg gtggtaggtg cacatactat 180
gccgactccg tgaagggccg attcaccatc tccaagaca acgccaagaa cacggtgtat 240
ctgcaaatga acagcctgaa acctgaggac actgcccagt actactgcgg ggcgggtagt 300
agggaagact actgcgacag gggttacatc tatgatcact ggggccaggg gaccaggtc 360
accgtctcct ca 372
```

<210> 265

<211> 375

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 265

```
cagggtgaagt tagtggagtc tggggggaggc tcggtgcagg ctggagggtc cctgagactc 60
tcctgtgcag cctctggaga caccaacaac ttgaacttca ggggctgggt ccgccaggct 120
ccagggaagg agcgcgaggg ggtcgcagtt atcactcact ctggtagcac atactatgcc 180
gaatccgtga agggccgatt caccatctcc caagacctcg ccaagaacac gatgtatctg 240
caaatgaaca gtctgaaacc tgaggacact gctatgtact actgtgcggc agcagatgtg 300
tggcgattat gctggctcct tgttccggaa ctcttttagt actggggcca ggggacccag 360
gtcaccgtct cctca 375
```

<210> 266

<211> 381

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 266

```
cagggtgcagc tgggtggagtc tggggggaggc tcggtgcagg ctggagggtc tctgagactc 60
tcttgtgcag gctctggatt taccttcaat aactaccca tgggctgggt ccgccaggct 120
ccagggaagg agcgcgaggg aatcgcgagg atttggactg gtggtaggtg tacatactat 180
gccgactccg tgaagggccg attcaccatc tccgaagacg tcgccaagaa cacggtgtat 240
ctgcaaatgg acagcctgaa acctgaggac actgccatgt actactgtgc ggccgagcgc 300
tgggactata gcgactggcg acgcctaaag agggggggact ataactactg gggccagggg 360
accaggtca cgtctcctc a 381
```

<210> 267

<211> 390

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 267

```
caggtgcacc tgatggagtc tgggggaggg tcggtgccgt ctggagggtc tctgagactc 60
tcctgtgcag tctctggatc tggatacagc tatagtcgcg gctgcttcgc atggttccag 120
cagcgtccag ggaaggagcg cgaggggggtc gcaattatta atatggatgg gcacacaaga 180
tactcagact ccgtgcaggg ccgattcatc atctccaag acaaggccaa gaacacacta 240
catctgcaaa tgaacaccct gagacctgac gacacggcca tgtattactg tgcgtacgat 300
cgcagtcagt gttacgtgct aagcgaccgc ttacgcctcc caggtacctt tagtgactgg 360
ggccaggggga cccaggtcac cgtctcctca 390
```

<210> 268

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 268

```
gaggtgcaac tggcggagtc tgggggaggg tcggtgcagg ctggagggtc tctgaaactc 60
tcctgtttag cctcgcaatg gatcagtagt gattgcggaa tggcctggta ccgccaggct 120
ccagggaagg agcgcgaatt ggtctcacgc attagtagtg atgataccac aacctatgca 180
gactccgtga agggccgatt caccatctcc caagacagtg ccaagaacac gctgtatctg 240
caaatgaaca agctgaaaac tgaagacacg ggcgtgtatt attgtgcggc agaagccaag 300
agcactataa cgagcctgtg ctacccttg aactactggg gccaggggac ccaggtcacc 360
gtctcctca 369
```

<210> 269

<211> 363

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 269

```
caggtgcagc tgggtggagtc tgggggaggg tccgtgcagg ctggagggtc tctgagactc 60
acctgtgcag ccactggata ctcttgagga cccgactgca tgggctggta ccgccaggct 120
gcagagaagg agcgcgaggg ggtcgcagtt attgatgctg atggatcac aagctacgca 180
gacgccgcga agggccgatt caccatctcc cgagacaaca acaagatcac tctatatctg 240
caaatgctga aacctgacga cactggcatg tacgtctgtg tggtaggatg gagagtaagc 300
agtggtggtg actgccaatt caatgactac tggggtcagg ggaccaggt caccgtctcc 360
tca 363
```

<210> 270

<211> 378

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 270

```
caggtgcacc tgatggagtc tgggggaggc gcggtgcaga ccggagggtc tctgaggctc 60
tcctgtgcag tatcgggaat ctccatcagt ccagactgca tgggctgggtt ccgccaggct 120
ccagggaaga agcgcgaggc ggtcacgaca atttttgcta atactggtag cgcgcgctat 180
ggcgactccg tgaagggccg attcaccagc tccaaggca acgccaagaa tacgtgttat 240
ctgcaaatgg acagcgtgaa acttgatgac actggcacgt actactgtgc ggcacggttt 300
acgggggggtg actgctttga tcatcagcca ttggcgtggc gcttctgggg ccaggggacc 360
caggtcaccg tctcctca                                     378
```

<210> 271

<211> 390

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 271

```
gaggtgcaac tggcggagtc tgggggaggc tcggtgcagt ctggagggtc tctgagactc 60
tcctgtgcag tctctggatc tggatacagc tatagtcgcg gctgcttcgc gtggttccag 120
cagcgtccag gaaaggagcg cgaggggggtc gcaattatta atagtgatgg gcacacagca 180
tactcagact ccgtgcaggc ccgattcatc atctcccaag acaaggccaa gaacacacta 240
tatctgcaaa tgaacagcct gaaacctgac gacacggcca tgtattactg tgcgtacgat 300
cgcagtcagt gttacgtgct tcgcgaccgc ttacgcctcc cagatacctt tactgactgg 360
ggccagggga cccaggtcac cgtctcctca                                     390
```

<210> 272

<211> 378

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 272

```
caggtgcacc tgggtggagtc tgggggagcc tcggtgcagg ctggagggtc tctgagactc 60
tcctgtgcag ccactgcgta caccgccagt aattattgca tgggctgggtt ccgccagtct 120
ccagggaagg agcgcgaggc agtcgcaagt attaattgatg acggcgtcac aagctacgca 180
gactccgtga agggccgatt caccatctcc caagacagcg ccaagaagac tctgtatctc 240
caaatgaacc gcctgaaacc tgaggacact gccatgtact actgtgcggc caccgggat 300
ggttactgct acgccgagag actttcccgg tggagatatg agttctgggg ccaggggacc 360
caggtcaccg tctcctca                                     378
```

<210> 273

<211> 378

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 273

```
gaggtgcagc tggcggagtc tgggggaggc tcggtgcagg ctggagggtc tctgaggctc 60
tcctgtgtaa tatcaggaac ctccatcagt ccagactgca tgggctgggt ccgccaggct 120
ccagggaaga agcgcgaggc agtcatgagt atttttacaa atactggtag cacgcgctat 180
ggcgactccg tgaagggccg attcaccagc tcccaaggca acgccaagaa tacgctgtat 240
ctgcaaatgg acagcttgaa acttgatgac actgccacgt actactgtgc ggcccgggat 300
acgggggggtg actgctttta tcttgaacca ttggcgtggc gcttctgggg ccaggggacc 360
caggtcaccg tctcctca                                     378
```

<210> 274

<211> 363

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 274

```
caggttcagc tgggtggagtc tgggggaggc tccgtgcagg ctggagggcc tctgagactc 60
acctgtgcag ccactggata ctcttggaga cccgactgca tgggctggta ccgccaggct 120
gcagagaagg agcgcgaggc ggtcgcagtt attgatgctg atggtatcac aagttacgca 180
gacgccgcga agggccgatt caccatctcc cgagacaaca acaacatcac tctatatctg 240
caaatgctga aacctgacga cactggcatg tacgtctgtg tgataggatg gagagtaagc 300
agtggtggtg actgccaatt caatgactac tggggtcagg ggaccagggt caccgtctcc 360
tca                                     363
```

<210> 275

<211> 390

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 275

```
caggttcagc tgggtggagtc tgggggaggc tcggtgcagt ctggagggtc tctgaaactc 60
tcctgtgcag tctctggatc tggatacagc tatagtcgcg gctgcttcgc atggttccaa 120
cagcgtccag ggaaggagcg cgaggggggtc gcaattatta atagcgatgg acacacaaga 180
tactcagact ccgtgcaggc ccgattcatc atctcccaag acaaggccaa gaacacacta 240
tatctccaaa tgaacagcct gaaacctgac gacgcggcca tgtattactg tgcgtacgat 300
cgcaatcagt gttacgttct tctcgaccgc ttacgcctcc caggtacctt tagtgactgg 360
ggccagggga cccaggtcac cgtctcctca                                     390
```

<210> 276

<211> 390

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 276
gaggtgcagc tgggtggagtc tggggggaggg tcggtgcagt ctggagggtc tctgagactc 60
tcctgtgcag tctctggatc tggatacagc tataatcgcg gctgcttcgc gtggttccag 120
cagcgtccag ggaaggagcg cgaggggggtc gcaattatta atagcgatgg gcacacaacg 180
tacggagact ccgtgcaggg ccgattcatc atctcccaag acaaggccaa gaacacacta 240
gatctgcaaa tgaacagcct gaaacctgac gacacggcca tgtattactg tgcgtacgat 300
cgcaatcagt gttacgtgct tcgcgaccgc ttacgcctcc cagatacctt tactgactgg 360
ggccaggggga cccaggtcac cgtctcctca 390

<210> 277
<211> 390
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 277
caggtgaagt tgggtggagtc tggggggaggg ttggtgcagt ctggagggtc tctgagactc 60
tcctgtgcag tctctggatc tggatacagc tatagtcgcg gctgcttcgc atggttccag 120
cagcgtccag ggaaggagcg cgaggggggtc gcaattatta atatggatgg gcacacaatg 180
tactcagact tggcgcaggg ccgattcatc atctcccaag acaaggccaa gaacacacta 240
tatctgcaaa tgaacagcct gaaacctgac gacacggcca tgtattactg tgcgtacgat 300
cgcgatcagt gttacgtact tcgggaccgc ttacgcctcc cagatacctt taatgactgg 360
ggccaggggga cccaggtcac cgtctcctca 390

<210> 278
<211> 378
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 278
cagattcagc tgggtggagtc tggggggaggg tcggtgcagg ctggagggtc tctgaggctc 60
tcctgtgcag tgacaggaat ctccatcagt ccagactgca tgggctgggt ccgccaggct 120
ccagggaaga agcgcgaggc agtcgcgact atttttacta atactgcgag cacgcgctat 180
ggcgactccg tgaagggccg attcaccagc tcccaaggga acggcaagaa tacgctgtat 240
ctgcaaatgg acagcttgaa cgttgatgac actgccacgt actactgtgc ggcccgtat 300
acgggggggta actgctttaa tcttgagcca ttggcgtggc acttctgggg ccagggggacc 360
caggtcaccg tctcctca 378

<210> 279

<211> 378
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 279
caggtgcacc tgatggagtc tgggggaggc tcggtgcagg ctggagggtc tctgaggctc 60
tcctgtgtag tatcaggaat ctccatcagt ccagactgta tggggtgggt ccgccaggct 120
ccagggaaga agcgcgaggc agtcgcgact atttttacta atactcgtag gacgcgctat 180
ggcgactccg tgaagggccg agtcaccagc tcccaaggca acgccaagaa tacgctgtat 240
ctaaaaatgg acaacttgag gcacgatgac actgccacgt actactgtgc ggcccgggtat 300
acgggggggtg actgctttaa tcttgaccca ttgtcctggc gcttctgggg ccaggggacc 360
caggtcaccg tctcctca 378

<210> 280
<211> 378
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 280
caggtgcagc tgggtggagtc tgggggaggc tcggtgcagg ctggagggtc tctgaggctc 60
tcctgtgcag tatcaggaat ctccatcagt ccagactgca tgggctgggt ccgccaggct 120
ccagggaaga agcgcgaggc agtcgcgact atttttacta atactcgtag cacgcgctat 180
ggcgactccg tgaagggccg attcaccagc tcccaaggca acgccaagaa tacgctgtat 240
ctgcaaatgg acagcttgaa acttgatgac actgccacgt actactgtgc ggcccgggtat 300
acgggggggtg actgctttaa tcttgagcct gtggcgtggc gcttctgggg ccaggggacc 360
caggtcaccg tctcctca 378

<210> 281
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 281
gaggtgcagc tgggtggagtc tgggggaggc ttggtgcagc ctgggggggtc tctgagactc 60
tcctgtgcag cctctggctt caccttcagt gtttggtcga tgtcctgggt ccgccaggct 120
ccaggggagg gactcgagtg ggtctcaact atcactggga gtggcgcaca aacatattat 180
gcaagctcag tgaggggccg attcaccacc tccagagaca acgccaagaa cacggtatat 240
ctgcaaatga acagcctgaa atctgacgac acggccgtgt attattgtga gagaggaaat 300
ggtcagactg ctatggaggc tctcattaac ccgcccagac gtccggggac ccaggtcacc 360
gtctcctca 369

<210> 282
<211> 381
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 282
caggtgcagc tgggtggagtc tggggggaggc ttgatgcagc ctgggggggtc tttgagactc 60
tcctgtgcag cctctggatt caccttcagt agttactgga tgtactgggt ccgccaggct 120
ccagggaagg ggcttgagtg ggtctcgggtt attaatagag ctggtgattc cgcctgggat 180
gcagactcag tgacgggccg attcaccatc tccagagaca acgccaagaa cacggtgtat 240
ctgcaaatgg acagcctgaa acctgaggac acggccatgt actactgtgc ggcagactcg 300
aggggggtacg gtgggtgactg gtacaagctc ctctcagact ttaattattg cggccagggg 360
accaggtca ccgtctcctc a 381

<210> 283
<211> 378
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 283
caggtgcagc tgggtggagtc tggggggaggc tcggtgcagg ctggagggtc tctgagactc 60
tcctgtgcag ccactgcgta caccgccagt ttctactgca tgggctgggt ccgccaggct 120
ccagggaagg agcgcgaggc ggtcgcaagt attaatgatg acggcgtcac aatgtacgca 180
gactccgtga agggccaatt caccatctcc caagacagcg ccacgaagac tctgtatctg 240
caaatgaacc gcctgaaacc tgaggacacc gccatgtact actgtgcggc caccgccgaa 300
ggttactgct acgccgagag actttccacg tggagatata cgttctgggg ccaggggacc 360
caggtcaccg tctcctca 378

<210> 284
<211> 390
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 284
gaggtgcagc tgggtggagtc tggggggaggg tcggtgcagt ctggagggtc tctgagactc 60
tcctgtgcag tctctggatc tggatacagc tatagtcgcg gctgcttcgc gtggttccag 120
cagcgctccag gaaaaggagcg cgaggggggtc gcaattatta atagcgatgg gcacacaaga 180
tactcagact ccgtgcaggg ccgattcatc atctcccaag acaaggccaa gaacacacta 240
tatctgcaaa tgaacagcct gaaacctgac gagacggcca tgtattactg tgcgtacgat 300
tgcagtcagt gttacgtgct tcgcgaccgc ttacgcctcc cagatacctt tactgactgg 360
ggccagggga cccaggtcac cgtctcctca 390

<210> 285
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 285
gaggtgcagc tgggtggagag cggaggagga ctggtgcagc caggaggctc tctgagactg 60
tcctgcgccg tgagcggcaa catctacaac agaaatttca tgggatgggt taggcaggct 120
cctggcaagg gactggaggg cgtgtccgcc atctataccg gcacatctcg cacctactat 180
gctgactccg tgaagggcag gttcaccatc tctcgggata actccaagaa tacagtgtac 240
ctgcagatga actctctgag ggccgaggac acagccgtgt actattgtgc cgctgacctg 300
cgggatggct tttgggatac cggcgtgtgg aatacatggg gccagggcac cctggtgaca 360
gtgtccagc 369

<210> 286
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 286
gaggtgcagc tgggtggagag cggaggagga ctggtgcagc caggaggctc tctgagactg 60
tcctgcgccg tgagcggcaa catctacaac agaaatttca tgggatgggt taggcaggct 120
cctggcaagg gactggaggg cgtgtccgcc atctataccg gcacatctcg cacctactat 180
gctgactccg tgaagggcag gttcaccatc tctcgggata actccaagaa tacagtgtac 240
ctgcagatga actctctgag ggccgaggac acagccgtgt actattgtgc cgctgacctg 300
cgggagggct tttgggatac cggcgtgtgg aatacatggg gccagggcac cctggtgaca 360
gtgtccagc 369

<210> 287
<211> 369
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 287
gaggtgcagc tgggtggagtc cggaggagga ctggtgcagc caggaggctc tctgaggctg 60
tcctgcgccg tgagcggaaa catctacaac agaaatttca tgggatgggt taggcaggct 120
cctggcaagg gaagggaggg cgtgtctgct atctataccg gcacatccag gacctactat 180
gccgacagcg tgaagggcag gttcaccatc tctcgggata acgctaagaa tacagtgtac 240
ctgcagatga actccctgcg gccagaggac acagccgtgt actattgtgc cgctgacctg 300
agagatggct tttgggatac cggcgtgtgg aatacatggg gccagggcac cctggtgaca 360

gtgtccagc

369

<210> 288

<211> 369

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 288

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gaggtgcagc tgggtggagtc cggaggagga ctggtgcagc caggaggctc tctgaggctg 60
tcctgcgccg tgagcggaaa catctacaac agaaatttca tgggatgggt taggcaggct 120
cctggcaagg gaagggaggg cgtgtctgct atctataccg gcacatccag gacctactat 180
gccgacagcg tgaagggcag gttcaccatc tctcgggata acgctaagaa tacagtgtac 240
ctgcagatga actccctgcg gccagaggac acagccgtgt actattgtgc cgctgacctg 300
agagagggct tttgggatac cggcgtgtgg aatacatggg gccagggcac cctggtgaca 360
gtgtccagc                                     369
```

<210> 289

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 289

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

<210> 290

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 290

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

<210> 291

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 291

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

<210> 292

<211> 124

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 292
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Thr Ala Ser Ala Tyr Thr Tyr Ser Asn Ile
20 25 30
Cys Leu Gly Trp Leu Arg Gln Ala Pro Gly Gly Gly Leu Glu Ala Val
35 40 45
Ala Thr Ile Tyr Ile Ala Asp Gln Thr Ser Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Arg Ile Ser Lys Asp Ala Ala Lys Asn Ala Val Tyr
65 70 75 80
Leu Gln Met Ser Ser Leu Arg Pro Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Ser Arg Tyr Gly Ser Thr Cys Gly Glu Tyr Leu Ala Asp Tyr Thr
100 105 110
Ser Arg Ala Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 293
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 293
Gln Met Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Tyr Ile Tyr Asn Arg Asn
20 25 30
Phe Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45
Ala Ala Ile Tyr Thr Gly Gly Pro Tyr Thr Tyr Tyr Thr Asp Ser Val
50 55 60
Gln Gly Arg Phe Thr Ile Ser Gln Asp Asn Thr Lys Asn Thr Val Tyr
65 70 75 80
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Val Ser Asp Leu Ser Asp Gly Thr Trp Asp Gln Gly Arg Trp Asn Tyr
100 105 110
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 294
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 294
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Ala Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Tyr Ile Tyr Asn Arg Asn
 20 25 30
 Phe Met Gly Trp Phe Arg Gln Val Pro Gly Lys Val Arg Glu Gly Val
 35 40 45
 Ala Ala Ile Tyr Thr Gly Thr Glu Arg Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Gln Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Val Ala Asp Leu Arg Asp Gly Thr Trp Asp Thr Gly Val Trp Asn Thr
 100 105 110
 Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 295
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 295
 Gln Ile Gln Leu Val Glu Ser Gly Gly Gly Ser Ala Gln Ala Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Val Val Ser Gly Asn Ile Tyr Asn Arg Asn
 20 25 30
 Phe Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Val Arg Glu Gly Val
 35 40 45
 Ala Ala Ile Tyr Thr Gly Thr Ser Arg Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Gln Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

Ala	Ala	Asp	Leu	Arg	Asp	Gly	Phe	Trp	Asp	Thr	Gly	Val	Trp	Asn	Thr
			100					105					110		
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser					
		115					120								

<210> 296
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 297
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Asp	Ser	Ser	Tyr
			20					25					30		
Cys	Gly	Ala	Trp	Phe	Arg	Gln	Val	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val
		35					40					45			
Ala	Ile	Ile	Asp	Arg	Tyr	Gly	Gly	Thr	Met	Tyr	Lys	Asp	Ser	Val	Lys
	50					55					60				

Gly	Arg	Phe	Thr	Ile	Ser	Lys	Asp	Thr	Ala	Lys	Asn	Ile	Leu	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Leu	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ala
				85					90					95	
Ala	Ala	Glu	Tyr	Arg	Gly	Ser	Ser	Cys	Asp	Ala	Glu	Ser	Gly	Tyr	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
		115					120								

<210> 298
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 299
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 300

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 300

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

<210> 301

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 301

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

<210> 302
 <211> 127
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 303
 <211> 130
 <212> PRT
 <213> Artificial Sequence

$\langle 220 \rangle$

<223> Synthetic Construct

$\langle 400 \rangle$ 303

[illegible]

<210> 304

<211> 123

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 304

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

<210> 305
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 305
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Thr Cys Ala Ala Thr Gly Tyr Ser Trp Arg Pro Asp
20 25 30
Cys Met Gly Trp Tyr Arg Gln Ala Ala Glu Lys Glu Arg Glu Gly Val
35 40 45
Ala Val Ile Asp Ala Asp Gly Ile Thr Ser Tyr Ala Asp Ala Ala Lys
50 55 60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Asn Lys Ile Thr Leu Tyr Leu
65 70 75 80
Gln Met Leu Lys Pro Asp Asp Thr Gly Met Tyr Val Cys Val Val Gly
85 90 95
Trp Arg Val Ser Ser Gly Gly Asn Cys Gln Phe Asn Asp Tyr Trp Gly
100 105 110
Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 306
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 306
Gln Val His Leu Met Glu Ser Gly Gly Gly Ala Val Gln Thr Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ile Ser Ile Ser Pro Asp
20 25 30
Cys Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Lys Arg Glu Ala Val
35 40 45
Thr Thr Ile Phe Ala Asn Thr Gly Ser Ala Arg Tyr Gly Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ser Ser Gln Gly Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asp Ser Val Lys Leu Asp Asp Thr Gly Thr Tyr Tyr Cys
85 90 95
Ala Ala Arg Phe Thr Gly Gly Asp Cys Phe Asp His Gln Pro Leu Ala

			100					105					110		
Trp	Arg	Phe	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser		
		115					120					125			

<210> 307
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 307

Glu	Val	Gln	Leu	Ala	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ser	Gly	Gly
1				5				10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly	Ser	Gly	Tyr	Ser	Tyr	Ser
			20					25					30		
Arg	Gly	Cys	Phe	Ala	Trp	Phe	Gln	Gln	Arg	Pro	Gly	Lys	Glu	Arg	Glu
		35					40					45			
Gly	Val	Ala	Ile	Ile	Asn	Ser	Asp	Gly	His	Thr	Ala	Tyr	Ser	Asp	Ser
	50				55					60					
Val	Gln	Gly	Arg	Phe	Ile	Ile	Ser	Gln	Asp	Lys	Ala	Lys	Asn	Thr	Leu
65					70				75					80	
Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Asp	Asp	Thr	Ala	Met	Tyr	Tyr
			85					90					95		
Cys	Ala	Tyr	Asp	Arg	Ser	Gln	Cys	Tyr	Val	Leu	Arg	Asp	Arg	Leu	Arg
			100					105					110		
Leu	Pro	Asp	Thr	Phe	Thr	Asp	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val
		115					120					125			
Ser	Ser														
		130													

<210> 308
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 308

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

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

<210> 309
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 309
Glu Val Gln Leu Ala Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Val Ile Ser Gly Thr Ser Ile Ser Pro Asp
20 25 30
Cys Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Lys Arg Glu Ala Val
35 40 45
Met Ser Ile Phe Thr Asn Thr Gly Ser Thr Arg Tyr Gly Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ser Ser Gln Gly Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Asp Ser Leu Lys Leu Asp Asp Thr Ala Thr Tyr Tyr Cys
85 90 95
Ala Ala Arg Tyr Thr Gly Gly Asp Cys Phe Asn Leu Glu Pro Leu Ala
100 105 110
Trp Arg Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

<210> 310
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 310
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Pro Leu Arg Leu Thr Cys Ala Ala Thr Gly Tyr Ser Trp Arg Pro Asp

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

<210> 311

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 311

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ser	Gly	Gly	
1				5				10					15			
Ser	Leu	Lys	Leu	Ser	Cys	Ala	Val	Ser	Gly	Ser	Gly	Tyr	Ser	Tyr	Ser	
			20					25				30				
Arg	Gly	Cys	Phe	Ala	Trp	Phe	Gln	Gln	Arg	Pro	Gly	Lys	Glu	Arg	Glu	
	35					40					45					
Gly	Val	Ala	Ile	Ile	Asn	Ser	Asp	Gly	His	Thr	Arg	Tyr	Ser	Asp	Ser	
	50				55			60								
Val	Gln	Gly	Arg	Phe	Ile	Ile	Ser	Gln	Asp	Lys	Ala	Lys	Asn	Thr	Leu	
65				70				75						80		
Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Asp	Asp	Ala	Ala	Met	Tyr	Tyr	
			85					90					95			
Cys	Ala	Tyr	Asp	Arg	Asn	Gln	Cys	Tyr	Val	Leu	Leu	Asp	Arg	Leu	Arg	
		100					105					110				
Leu	Pro	Gly	Thr	Phe	Ser	Asp	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	
		115					120					125				
Ser	Ser															
		130														

<210> 312

<211> 130

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

$\langle 400 \rangle$ 312

[illegible]

<210> 313

$\langle 211 \rangle$ 130

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> Synthetic Construct

<400> 313

[illegible]

<210> 314
<211> 130
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 314
Gln Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ser Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ser Gly Tyr Ser Tyr Ser
20 25 30
Arg Gly Cys Phe Ala Trp Phe Gln Gln Arg Pro Gly Lys Glu Arg Glu
35 40 45
Gly Val Ala Ile Ile Asn Met Asp Gly His Thr Met Tyr Ser Asp Leu
50 55 60
Ala Gln Gly Arg Phe Ile Ile Ser Gln Asp Lys Ala Lys Asn Thr Leu
65 70 75 80
Tyr Leu Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Met Tyr Tyr
85 90 95
Cys Ala Tyr Asp Arg Asp Gln Cys Tyr Val Leu Arg Asp Arg Leu Arg
100 105 110
Leu Pro Asp Thr Phe Asn Asp Trp Gly Gln Gly Thr Gln Val Thr Val
115 120 125
Ser Ser
130

<210> 315
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 315
Gln Ile Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Val Thr Gly Ile Ser Ile Ser Pro Asp
20 25 30
Cys Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Lys Arg Glu Ala Val
35 40 45
Ala Thr Ile Phe Thr Asn Thr Ala Ser Thr Arg Tyr Gly Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ser Ser Gln Gly Asn Gly Lys Asn Thr Leu Tyr
65 70 75 80

Leu	Gln	Met	Asp	Ser	Leu	Asn	Val	Asp	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys
				85					90					95	
Ala	Ala	Arg	Tyr	Thr	Gly	Gly	Asn	Cys	Phe	Asn	Leu	Glu	Pro	Leu	Ala
			100					105					110		
Trp	His	Phe	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser		
		115					120					125			

<210> 316

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 316

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

<210> 317

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 317

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly	Ile	Ser	Ile	Ser	Pro	Asp
			20					25					30		
Cys	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Lys	Arg	Glu	Ala	Val
		35					40					45			

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

<210> 318
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 319
 <211> 127
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 320
 <211> 126
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

<210> 321
 <211> 123
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 321

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

<210> 322

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 322

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

<210> 323

<211> 123

<212> PRT

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

<210> 325
 <211> 351
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 325
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Lys Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Thr Leu Asp Tyr Tyr
 20 25 30
 Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Ala Val
 35 40 45
 Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Lys Pro Gly Asp Thr Ala Val Tyr His Cys
 85 90 95
 Ala Thr Asp Arg Ala Cys Gly Ser Ser Trp Leu Gly Ala Glu Ser Trp
 100 105 110
 Ala Gln Gly Thr Gln Val Thr Val Ser Ser Glu Ser Lys Tyr Gly Pro
 115 120 125
 Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val
 130 135 140
 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 145 150 155 160
 Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu
 165 170 175
 Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 180 185 190
 Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser
 195 200 205
 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 210 215 220
 Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile
 225 230 235 240
 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 245 250 255
 Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 260 265 270
 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 275 280 285
 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 290 295 300
 Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg
 305 310 315 320

Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu
				325					330					335	
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys	
			340					345					350		

<210> 326

<211> 341

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 326

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

		275					280				285				
Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu
	290					295					300				
Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser
305					310					315					320
Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser
				325					330					335	
Leu	Ser	Leu	Gly	Lys											
			340												

<210> 327

<211> 356

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 327

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

Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln
				245					250					255	
Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val
			260					265					270		
Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val
		275					280					285			
Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro
	290				295						300				
Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr
305					310					315					320
Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val
				325					330					335	
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu
			340					345					350		
Ser	Leu	Gly	Lys												
		355													

<210> 328

<211> 353

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 328

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

			180					185				190				
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	
			195					200				205				
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	
			210					215				220				
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	
225						230				235					240	
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	
				245					250						255	
Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	
			260					265					270			
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	
		275					280					285				
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	
		290				295					300					
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	
305					310					315					320	
Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	
				325					330					335		
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	
			340					345					350			

Lys

<210> 329

<211> 352

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 329

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

Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser
130						135					140				
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg
145					150				155						160
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro
				165					170					175	
Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala
			180					185					190		
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val
	195						200					205			
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr
	210					215					220				
Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr
225					230					235					240
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu
			245						250					255	
Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys
			260					265					270		
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser
		275					280					285			
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp
	290					295					300				
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser
305					310					315					320
Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala
				325					330					335	
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys
		340						345					350		

<210> 330
 <211> 352
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 330

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

				85				90					95				
Val	Ala	Asp	Leu	Arg	Asp	Gly	Thr	Trp	Asp	Thr	Gly	Val	Trp	Asn	Thr		
			100					105					110				
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly		
		115					120					125					
Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser		
		130				135					140						
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg		
145					150				155						160		
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro		
				165					170					175			
Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala		
			180					185					190				
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val		
		195					200					205					
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr		
		210				215					220						
Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr		
225					230					235					240		
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu		
				245					250					255			
Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys		
			260					265					270				
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser		
		275					280					285					
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp		
		290				295					300						
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser		
305					310					315					320		
Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala		
				325					330					335			
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys		
			340					345					350				

<210> 331

<211> 352

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 331

Gln	Ile	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Ala	Gln	Ala	Gly	Gly		
1				5				10					15				
Ser	Leu	Arg	Leu	Ser	Cys	Val	Val	Ser	Gly	Asn	Ile	Tyr	Asn	Arg	Asn		
			20					25					30				
Phe	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Val	Arg	Glu	Gly	Val		
		35					40					45					

Ala	Ala	Ile	Tyr	Thr	Gly	Thr	Ser	Arg	Thr	Tyr	Tyr	Ala	Asp	Ser	Val
50						55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Gln	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85						90					95	
Ala	Ala	Asp	Leu	Arg	Asp	Gly	Phe	Trp	Asp	Thr	Gly	Val	Trp	Asn	Thr
		100						105					110		
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly
	115						120					125			
Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser
	130					135					140				
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg
145					150				155						160
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro
			165						170					175	
Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala
			180					185					190		
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val
		195					200					205			
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr
	210				215						220				
Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr
225					230				235						240
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu
			245						250					255	
Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys
			260					265					270		
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser
		275					280					285			
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp
	290				295						300				
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser
305					310					315					320
Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala
			325						330					335	
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys
		340						345					350		

<210> 332

<211> 345

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 332

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

1				5				10					15				
Ser	Leu	Thr	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Thr	Ala		
			20					25					30				
Ala	Met	Ser	Trp	Val	Arg	Gln	Val	Pro	Glu	Glu	Gly	Leu	Glu	Trp	Val		
		35					40					45					
Ala	Ser	Ile	Asp	Ser	Ser	Gly	Ser	Arg	Thr	Tyr	Tyr	Ala	Gly	Ser	Val		
	50					55					60						
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr		
65					70				75						80		
Leu	Gln	Leu	Asn	Ser	Leu	Lys	Ala	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys		
			85						90					95			
Ala	Lys	Asp	His	Met	Ser	Trp	Leu	Pro	Arg	Gly	Gln	Gly	Thr	Gln	Val		
			100					105						110			
Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro		
		115					120					125					
Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys		
	130				135						140						
Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val		
145					150					155					160		
Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr		
			165						170						175		
Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu		
		180						185					190				
Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His		
		195					200					205					
Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys		
	210				215						220						
Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln		
225					230					235					240		
Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met		
			245						250						255		
Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro		
		260						265						270			
Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn		
	275						280						285				
Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu		
	290					295					300						
Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val		
305					310					315					320		
Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln		
			325						330						335		
Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys									
		340						345									

<210> 333

<211> 351

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 333

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Asp	Ser	Ser	Tyr
			20					25					30		
Cys	Gly	Ala	Trp	Phe	Arg	Gln	Val	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val
		35					40					45			
Ala	Ile	Ile	Asp	Arg	Tyr	Gly	Gly	Thr	Met	Tyr	Lys	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Lys	Asp	Thr	Ala	Lys	Asn	Ile	Leu	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Leu	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ala
				85					90					95	
Ala	Ala	Glu	Tyr	Arg	Gly	Ser	Ser	Cys	Asp	Ala	Glu	Ser	Gly	Tyr	Trp
			100					105					110		
Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly	Pro
		115					120					125			
Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val
	130					135					140				
Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr
145					150					155					160
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu
				165				170						175	
Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys
			180					185					190		
Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser
	195						200					205			
Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys
	210					215					220				
Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile
225					230					235					240
Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro
				245				250						255	
Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu
			260					265					270		
Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn
		275					280					285			
Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser
	290					295					300				
Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg
305					310					315					320
Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu
				325					330					335	
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys	
			340					345					350		

<210> 334
<211> 351
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 334
Gln Val His Leu Met Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1 5 10 15
Ser Leu Thr Leu Ser Cys Ala Ala Ser Val Phe Thr Asp Ser Asn Tyr
20 25 30
Cys Met Ala Trp Phe Arg Gln Val Pro Gly Lys Glu Arg Glu Gly Val
35 40 45
Ala Ile Ile Asp Arg Tyr Gly Gly Thr Met Tyr Lys Asp Ser Val Lys
50 55 60
Gly Arg Phe Thr Ile Ser Lys Asp Thr Ala Lys Asn Ile Leu Tyr Leu
65 70 75 80
Gln Met Asn Ser Leu Lys Leu Glu Asp Thr Ala Met Tyr Tyr Cys Ala
85 90 95
Ala Ala Gly Tyr Arg Gly Ser Ser Cys Asp Ala Asp Ser Gly Tyr Trp
100 105 110
Gly Gln Gly Thr Gln Val Thr Val Ser Ser Glu Ser Lys Tyr Gly Pro
115 120 125
Pro Cys Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val
130 135 140
Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
145 150 155 160
Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu
165 170 175
Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
180 185 190
Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser
195 200 205
Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
210 215 220
Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile
225 230 235 240
Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
245 250 255
Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
260 265 270
Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
275 280 285
Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
290 295 300
Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg
305 310 315 320
Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu

				325					330				335			
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys		
			340					345					350			

<210> 335
 <211> 351
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 335

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

Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser
290						295				300					
Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg
305					310				315						320
Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu
				325					330					335	
His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys	
			340					345					350		

<210> 336

<211> 353

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 336

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

				245					250				255			
Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	
			260					265					270			
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	
		275					280						285			
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	
	290					295					300					
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	
305					310					315					320	
Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	
			325					330						335		
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	
			340					345						350		

Lys

<210> 337
 <211> 354
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 337

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

Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg
	195						200				205				
Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys
	210					215					220				
Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu
225					230					235					240
Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr
				245					250					255	
Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu
			260					265					270		
Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp
	275						280					285			
Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val
	290					295					300				
Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp
305					310					315					320
Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His
				325					330					335	
Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu
			340					345					350		

Gly Lys

<210> 338

<211> 356

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 338

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

130		135		140
Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu				
145		150		155
Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser				
	165		170	175
Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu				
	180		185	190
Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr				
	195		200	205
Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn				
	210		215	220
Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser				
225		230		235
Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln				
	245		250	255
Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val				
	260		265	270
Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val				
	275		280	285
Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro				
	290		295	300
Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr				
305		310		315
Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val				
	325		330	335
Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu				
	340		345	350
Ser Leu Gly Lys				
	355			

<210> 339

<211> 359

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 339

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

His	Leu	Gln	Met	Asn	Thr	Leu	Arg	Pro	Asp	Asp	Thr	Ala	Met	Tyr	Tyr
				85					90					95	
Cys	Ala	Tyr	Asp	Arg	Ser	Gln	Cys	Tyr	Val	Leu	Ser	Asp	Arg	Leu	Arg
			100					105					110		
Leu	Pro	Gly	Thr	Phe	Ser	Asp	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val
		115					120					125			
Ser	Ser	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro
	130					135					140				
Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
145					150				155						160
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			165						170					175	
Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp
			180					185					190		
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe
	195						200					205			
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
	210					215					220				
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu
225					230					235					240
Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			245						250					255	
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys
			260					265					270		
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
		275					280					285			
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
	290					295					300				
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
305					310					315					320
Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser
			325						330					335	
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
			340					345					350		
Leu	Ser	Leu	Ser	Leu	Gly	Lys									
			355												

<210> 340

<211> 352

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 340

Glu	Val	Gln	Leu	Ala	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5				10					15		
Ser	Leu	Lys	Leu	Ser	Cys	Leu	Ala	Ser	Gln	Trp	Ile	Ser	Ser	Asp	Cys

			20					25					30			
Gly	Met	Ala	Trp	Tyr	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Leu	Val	
		35					40					45				
Ser	Arg	Ile	Ser	Ser	Asp	Asp	Thr	Thr	Thr	Tyr	Ala	Asp	Ser	Val	Lys	
	50					55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Gln	Asp	Ser	Ala	Lys	Asn	Thr	Leu	Tyr	Leu	
65					70					75					80	
Gln	Met	Asn	Lys	Leu	Lys	Thr	Glu	Asp	Thr	Gly	Val	Tyr	Tyr	Cys	Ala	
			85						90					95		
Ala	Glu	Ala	Lys	Ser	Thr	Ile	Thr	Ser	Leu	Cys	Tyr	Pro	Leu	Asn	Tyr	
			100					105					110			
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly	
		115					120					125				
Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	
	130					135					140					
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	
145					150					155					160	
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	
				165					170					175		
Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	
		180						185					190			
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	
	195						200					205				
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	
	210				215						220					
Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	
225					230					235					240	
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	
			245						250					255		
Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	
		260						265					270			
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	
		275				280						285				
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	
	290					295					300					
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	
305				310					315						320	
Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	
			325					330					335			
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys	
		340						345					350			

<210> 341

<211> 350

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 341

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5				10					15		
Ser	Leu	Arg	Leu	Thr	Cys	Ala	Ala	Thr	Gly	Tyr	Ser	Trp	Arg	Pro	Asp
			20					25					30		
Cys	Met	Gly	Trp	Tyr	Arg	Gln	Ala	Glu	Lys	Glu	Arg	Glu	Gly	Val	
		35				40					45				
Ala	Val	Ile	Asp	Ala	Asp	Gly	Ile	Thr	Ser	Tyr	Ala	Asp	Ala	Ala	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Asn	Lys	Ile	Thr	Leu	Tyr	Leu
65				70				75						80	
Gln	Met	Leu	Lys	Pro	Asp	Asp	Thr	Gly	Met	Tyr	Val	Cys	Val	Val	Gly
				85				90					95		
Trp	Arg	Val	Ser	Ser	Gly	Gly	Asn	Cys	Gln	Phe	Asn	Asp	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly	Pro	Pro
		115					120					125			
Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe
	130					135					140				
Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro
145				150						155					160
Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val
				165				170						175	
Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr
		180						185					190		
Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val
		195					200					205			
Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys
	210				215						220				
Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser
225				230						235					240
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro
				245					250					255	
Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val
		260						265					270		
Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly
		275					280					285			
Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp
	290					295					300				
Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp
305				310						315					320
Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His
				325					330					335	
Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys		
			340					345					350		

<210> 342

<211> 355

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 342

Gln	Val	His	Leu	Met	Glu	Ser	Gly	Gly	Gly	Ala	Val	Gln	Thr	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly	Ile	Ser	Ile	Ser	Pro	Asp
			20					25					30		
Cys	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Lys	Arg	Glu	Ala	Val
		35					40					45			
Thr	Thr	Ile	Phe	Ala	Asn	Thr	Gly	Ser	Ala	Arg	Tyr	Gly	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ser	Ser	Gln	Gly	Asn	Ala	Lys	Asn	Thr	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asp	Ser	Val	Lys	Leu	Asp	Asp	Thr	Gly	Thr	Tyr	Tyr	Cys
				85					90					95	
Ala	Ala	Arg	Phe	Thr	Gly	Gly	Asp	Cys	Phe	Asp	His	Gln	Pro	Leu	Ala
			100					105					110		
Trp	Arg	Phe	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser
		115					120					125			
Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly
	130					135					140				
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
145					150					155					160
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln
				165					170					175	
Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
			180					185					190		
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr
		195					200					205			
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
	210					215					220				
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile
225					230					235					240
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			245						250					255	
Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser
		260						265					270		
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
		275					280					285			
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
	290					295					300				
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val
305					310					315					320
Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
				325					330					335	
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser

	340	345	350
Leu Gly Lys			
355			

<210> 343
 <211> 359
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 343
 Glu Val Gln Leu Ala Glu Ser Gly Gly Gly Ser Val Gln Ser Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ser Gly Tyr Ser Tyr Ser
 20 25 30
 Arg Gly Cys Phe Ala Trp Phe Gln Gln Arg Pro Gly Lys Glu Arg Glu
 35 40 45
 Gly Val Ala Ile Ile Asn Ser Asp Gly His Thr Ala Tyr Ser Asp Ser
 50 55 60
 Val Gln Gly Arg Phe Ile Ile Ser Gln Asp Lys Ala Lys Asn Thr Leu
 65 70 75 80
 Tyr Leu Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Met Tyr Tyr
 85 90 95
 Cys Ala Tyr Asp Arg Ser Gln Cys Tyr Val Leu Arg Asp Arg Leu Arg
 100 105 110
 Leu Pro Asp Thr Phe Thr Asp Trp Gly Gln Gly Thr Gln Val Thr Val
 115 120 125
 Ser Ser Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
 130 135 140
 Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 145 150 155 160
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 165 170 175
 Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
 180 185 190
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
 195 200 205
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 210 215 220
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
 225 230 235 240
 Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 245 250 255
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
 260 265 270
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 275 280 285

Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
290						295					300				
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
305					310					315					320
Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser
				325					330						335
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
			340					345					350		
Leu	Ser	Leu	Ser	Leu	Gly	Lys									
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<210> 344

<211> 355

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 344

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

225					230					235				240	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
				245					250					255	
Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser
			260					265					270		
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
		275				280					285				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
	290				295					300					
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val
305					310					315					320
Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			325					330						335	
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
			340					345					350		
Leu	Gly	Lys													
		355													

<210> 345
 <211> 355
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 345

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

Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
			180					185					190		
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr
		195					200					205			
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
	210					215					220				
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile
225					230					235					240
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			245						250					255	
Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser
		260						265					270		
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
		275					280					285			
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
	290					295					300				
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val
305					310					315					320
Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			325						330					335	
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		340						345					350		
Leu	Gly	Lys													
		355													

<210> 346
 <211> 350
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 346															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Pro	Leu	Arg	Leu	Thr	Cys	Ala	Ala	Thr	Gly	Tyr	Ser	Trp	Arg	Pro	Asp
		20						25				30			
Cys	Met	Gly	Trp	Tyr	Arg	Gln	Ala	Ala	Glu	Lys	Glu	Arg	Glu	Gly	Val
		35				40						45			
Ala	Val	Ile	Asp	Ala	Asp	Gly	Ile	Thr	Ser	Tyr	Ala	Asp	Ala	Ala	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Asn	Asn	Ile	Thr	Leu	Tyr	Leu
65				70						75					80
Gln	Met	Leu	Lys	Pro	Asp	Asp	Thr	Gly	Met	Tyr	Val	Cys	Val	Ile	Gly
			85						90					95	
Trp	Arg	Val	Ser	Ser	Gly	Gly	Asn	Cys	Gln	Phe	Asn	Asp	Tyr	Trp	Gly
		100						105					110		
Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly	Pro	Pro

	115		120		125										
Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe
	130					135					140				
Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro
145				150						155					160
Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val
			165						170					175	
Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr
		180					185						190		
Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val
	195						200					205			
Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys
	210					215					220				
Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser
225					230					235					240
Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro
			245						250					255	
Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val
			260					265					270		
Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly
	275						280					285			
Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp
	290					295					300				
Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp
305					310					315					320
Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His
			325						330					335	
Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys		
		340					345					350			

<210> 347

<211> 359

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 347

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

Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Asp	Asp	Ala	Ala	Met	Tyr	Tyr
				85					90					95	
Cys	Ala	Tyr	Asp	Arg	Asn	Gln	Cys	Tyr	Val	Leu	Leu	Asp	Arg	Leu	Arg
			100					105					110		
Leu	Pro	Gly	Thr	Phe	Ser	Asp	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val
		115					120					125			
Ser	Ser	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro
	130					135					140				
Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
145					150				155						160
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			165						170					175	
Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp
			180					185					190		
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe
	195						200					205			
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
	210					215					220				
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu
225					230					235					240
Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			245						250					255	
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys
			260					265					270		
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
		275					280					285			
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
	290					295					300				
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
305					310					315					320
Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser
			325						330					335	
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
			340					345					350		
Leu	Ser	Leu	Ser	Leu	Gly	Lys									
			355												

<210> 348

<211> 359

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 348

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

			20					25				30			
Arg	Gly	Cys	Phe	Ala	Trp	Phe	Gln	Gln	Arg	Pro	Gly	Lys	Glu	Arg	Glu
		35					40					45			
Gly	Val	Ala	Ile	Ile	Asn	Ser	Asp	Gly	His	Thr	Arg	Tyr	Ser	Asp	Ser
	50					55					60				
Val	Gln	Gly	Arg	Phe	Ile	Ile	Ser	Gln	Asp	Lys	Ala	Lys	Asn	Thr	Leu
65					70					75					80
Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Asp	Asp	Thr	Ala	Met	Tyr	Tyr
			85						90					95	
Cys	Ala	Tyr	Asp	Cys	Ser	Gln	Cys	Tyr	Val	Leu	Arg	Asp	Arg	Leu	Arg
			100					105					110		
Leu	Pro	Asp	Thr	Phe	Thr	Asp	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val
		115					120					125			
Ser	Ser	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro
	130					135					140				
Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
145					150					155					160
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
				165					170					175	
Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp
		180					185					190			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe
	195						200					205			
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
	210					215					220				
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu
225					230					235					240
Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			245						250					255	
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys
		260					265						270		
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
		275					280					285			
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
	290					295					300				
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
305					310					315					320
Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser
			325						330					335	
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
			340					345					350		
Leu	Ser	Leu	Ser	Leu	Gly	Lys									
		355													

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<212> PRT

<213> Artificial Sequence

<210> 350
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 350

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

305		310		315		320									
Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser
				325					330					335	
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
			340					345					350		
Leu	Ser	Leu	Ser	Leu	Gly	Lys									
			355												

<210> 351
 <211> 355
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 351

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

Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser
			260					265					270		
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
		275					280					285			
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
	290					295					300				
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val
305					310					315					320
Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			325					330						335	
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
			340					345					350		
Leu	Gly	Lys													
		355													

<210> 352

<211> 355

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 352

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

		195					200				205				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
	210						215				220				
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile
225					230					235					240
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
				245					250					255	
Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser
			260					265					270		
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
		275					280					285			
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
	290					295					300				
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val
305					310					315					320
Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
				325				330						335	
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
			340					345					350		
Leu	Gly	Lys													
		355													

<210> 353

<211> 355

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 353

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly	Ile	Ser	Ile	Ser	Pro	Asp
			20					25					30		
Cys	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Lys	Arg	Glu	Ala	Val
		35				40						45			
Ala	Thr	Ile	Phe	Thr	Asn	Thr	Arg	Ser	Thr	Arg	Tyr	Gly	Asp	Ser	Val
	50				55					60					
Lys	Gly	Arg	Phe	Thr	Ser	Ser	Gln	Gly	Asn	Ala	Lys	Asn	Thr	Leu	Tyr
65					70				75					80	
Leu	Gln	Met	Asp	Ser	Leu	Lys	Leu	Asp	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys
				85				90					95		
Ala	Ala	Arg	Tyr	Thr	Gly	Gly	Asp	Cys	Phe	Asn	Leu	Glu	Pro	Val	Ala
			100				105						110		
Trp	Arg	Phe	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser
		115				120						125			
Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly
	130					135					140				

Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
145					150					155					160
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln
				165					170						175
Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
			180					185					190		
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr
	195						200					205			
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
	210					215					220				
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile
225					230					235					240
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
				245					250					255	
Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser
			260					265					270		
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
		275					280					285			
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
	290					295					300				
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val
305					310					315					320
Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
				325					330					335	
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
			340					345					350		
Leu	Gly	Lys													
		355													

<210> 354

<211> 352

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 354

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

				85				90					95			
Glu	Arg	Gly	Asn	Gly	Gln	Thr	Ala	Met	Glu	Ala	Leu	Ile	Asn	Pro	Pro	
			100					105					110			
Glu	Arg	Pro	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly	
		115					120						125			
Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	
		130				135					140					
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	
145					150					155					160	
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	
				165					170					175		
Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	
			180					185					190			
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	
		195					200					205				
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	
		210				215					220					
Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	
225					230					235					240	
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	
				245					250					255		
Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	
		260						265					270			
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	
		275					280					285				
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	
		290				295					300					
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	
305					310					315					320	
Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	
				325					330					335		
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys	
			340					345					350			

<210> 355

<211> 356

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 355

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Met	Gln	Pro	Gly	Gly	
1				5				10					15			
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	
			20					25					30			
Trp	Met	Tyr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				

Ser	Val	Ile	Asn	Arg	Ala	Gly	Asp	Ser	Ala	Trp	Tyr	Ala	Asp	Ser	Val
50						55					60				
Thr	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr
65					70					75					80
Leu	Gln	Met	Asp	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
				85					90					95	
Ala	Ala	Asp	Ser	Arg	Gly	Tyr	Gly	Gly	Asp	Trp	Tyr	Lys	Leu	Leu	Ser
			100					105					110		
Asp	Phe	Asn	Tyr	Cys	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu
		115					120					125			
Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu
	130					135					140				
Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu
145					150					155					160
Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser
				165					170					175	
Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu
			180					185					190		
Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr
		195					200					205			
Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn
	210					215					220				
Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser
225					230					235					240
Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln
				245					250					255	
Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val
			260					265					270		
Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val
		275					280					285			
Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro
	290					295					300				
Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr
305					310					315					320
Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val
				325					330					335	
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu
			340					345					350		
Ser	Leu	Gly	Lys												
		355													

<210> 356

<211> 355

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 356

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Ser	Val	Gln	Ala	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Thr	Ala	Tyr	Thr	Ala	Ser	Phe	Tyr
			20					25						30	
Cys	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Ala	Val
		35					40					45			
Ala	Ser	Ile	Asn	Asp	Asp	Gly	Val	Thr	Met	Tyr	Ala	Asp	Ser	Val	Lys
	50					55					60				
Gly	Gln	Phe	Thr	Ile	Ser	Gln	Asp	Ser	Ala	Thr	Lys	Thr	Leu	Tyr	Leu
65					70					75					80
Gln	Met	Asn	Arg	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	Cys	Ala
				85					90					95	
Ala	Thr	Pro	Glu	Gly	Tyr	Cys	Tyr	Ala	Glu	Arg	Leu	Ser	Thr	Trp	Arg
			100					105						110	
Tyr	Thr	Phe	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Ser
		115					120						125		
Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly
	130					135					140				
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
145					150					155					160
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln
				165					170						175
Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
			180					185					190		
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr
		195					200						205		
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
	210					215					220				
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile
225					230					235					240
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
				245					250					255	
Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser
		260						265						270	
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
		275					280					285			
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
	290					295					300				
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val
305					310					315					320
Asp	Lys	Ser	Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
				325					330					335	
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
			340					345						350	
Leu	Gly	Lys													
		355													

<210> 357

<211> 352
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 357

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1				5					10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly	Asn	Ile	Tyr	Asn	Arg	Asn	
			20					25					30			
Phe	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Gly	Val	
		35					40					45				
Ser	Ala	Ile	Tyr	Thr	Gly	Thr	Ser	Arg	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Val	Tyr	
65					70					75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85						90					95		
Ala	Ala	Asp	Leu	Arg	Asp	Gly	Phe	Trp	Asp	Thr	Gly	Val	Trp	Asn	Thr	
		100						105					110			
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Glu	Ser	Lys	Tyr	Gly	
		115					120					125				
Pro	Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	
	130					135					140					
Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	
145					150					155					160	
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	
			165						170					175		
Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	
		180						185					190			
Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	
		195					200					205				
Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	
	210					215					220					
Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	
225					230					235					240	
Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	
			245						250					255		
Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	
		260						265					270			
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	
		275					280					285				
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	
	290					295					300					
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	
305					310					315					320	
Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	
			325						330					335		

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
340 345 350

<210> 358

<211> 352

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 358

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

290		295		300
Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser				
305		310		320
Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala				
	325		330	335
Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys				
	340		345	350

<210> 359

<211> 352

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 359

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

Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys
			260					265					270		
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser
		275					280					285			
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp
	290					295					300				
Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser
305				310					315					320	
Arg	Trp	Gln	Glu	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala
			325					330					335		
Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys
		340						345					350		

<210> 360

<211> 352

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 360

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

210		215		220
Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr				
225		230		240
Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu				
	245		250	255
Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys				
	260		265	270
Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser				
	275		280	285
Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp				
	290		295	300
Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser				
305		310		320
Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala				
	325		330	335
Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys				
	340		345	350

<210> 361
 <211> 268
 <212> PRT
 <213> Homo sapiens

<400> 361

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

	195					200					205				
Gln	Trp	Arg	Glu	Lys	Thr	Pro	Glu	Pro	Pro	Val	Pro	Cys	Val	Pro	Glu
	210						215					220			
Gln	Thr	Glu	Tyr	Ala	Thr	Ile	Val	Phe	Pro	Ser	Gly	Met	Gly	Thr	Ser
225						230					235				240
Ser	Pro	Ala	Arg	Arg	Gly	Ser	Ala	Asp	Gly	Pro	Arg	Ser	Ala	Gln	Pro
				245						250				255	
Leu	Arg	Pro	Glu	Asp	Gly	His	Cys	Ser	Trp	Pro	Leu				
			260					265							

<210> 362
 <211> 150
 <212> PRT
 <213> Homo sapiens

Pro	Gly	Trp	Phe	Leu	Asp	Ser	Pro	Asp	Arg	Pro	Trp	Asn	Pro	Pro	Thr
1				5					10					15	
Phe	Ser	Pro	Ala	Leu	Leu	Val	Val	Thr	Glu	Gly	Asp	Asn	Ala	Thr	Phe
			20					25					30		
Thr	Cys	Ser	Phe	Ser	Asn	Thr	Ser	Glu	Ser	Phe	Val	Leu	Asn	Trp	Tyr
	35						40					45			
Arg	Met	Ser	Pro	Ser	Asn	Gln	Thr	Asp	Lys	Leu	Ala	Ala	Phe	Pro	Glu
	50				55						60				
Asp	Arg	Ser	Gln	Pro	Gly	Gln	Asp	Cys	Arg	Phe	Arg	Val	Thr	Gln	Leu
65					70					75				80	
Pro	Asn	Gly	Arg	Asp	Phe	His	Met	Ser	Val	Val	Arg	Ala	Arg	Arg	Asn
				85					90				95		
Asp	Ser	Gly	Thr	Tyr	Leu	Cys	Gly	Ala	Ile	Ser	Leu	Ala	Pro	Lys	Ala
			100					105					110		
Gln	Ile	Lys	Glu	Ser	Leu	Arg	Ala	Glu	Leu	Arg	Val	Thr	Glu	Arg	Arg
		115					120					125			
Ala	Glu	Val	Pro	Thr	Ala	His	Pro	Ser	Pro	Ser	Pro	Arg	Pro	Ala	Gly
	130					135					140				
Gln	Phe	Gln	Thr	Leu	Val										
145					150										

<210> 363
 <211> 217
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

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

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

<210> 364

<211> 217

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 364

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

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

<210> 365

<211> 217

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 365

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

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

<210> 366
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 366

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

Ala Lys

<210> 367
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 367

Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Pro	Cys	Pro
1				5				10			

<210> 368
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 368

Glu Pro Lys Ser Ser Asp Lys Thr His Thr Ser Pro Pro Ser Pro
1 5 10 15

<210> 369

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 369

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10 15

<210> 370

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 370

Gly Gly Gly Gly Ser Gly Gly Gly Ser
1 5

<210> 371

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 371

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 372

<211> 1

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<220>
<221> VARIANT
<222> 1
<223> Can be present in repeats
of at least one

<400> 372
Gly
1

<210> 373
<211> 2
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)...(2)
<223> Can be present in repeats
of at least one

<400> 373
Gly Ser
1

<210> 374
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)...(5)
<223> Can be present in repeats
of at least one

<400> 374
Gly Ser Gly Gly Ser
1 5

<210> 375
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)...(4)
<223> Can be present in repeats
of at least one

<400> 375
Gly Gly Gly Ser
1

<210> 376
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> VARIANT
<222> (1)...(5)
<223> Can be present in repeats
of at least one

<400> 376
Gly Gly Gly Gly Ser
1 5

<210> 377
<211> 456
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 377
Glu Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn

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

<220>

<223> Synthetic Construct

<400> 379

Gln	Val	Gln	Leu	Gln	Gln	Trp	Gly	Ala	Gly	Leu	Leu	Lys	Pro	Ser	Glu
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Ala	Val	Tyr	Gly	Gly	Ser	Phe	Ser	Asp	Tyr
		20						25					30		
Tyr	Trp	Asn	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Glu	Ile	Asn	His	Arg	Gly	Ser	Thr	Asn	Ser	Asn	Pro	Ser	Leu	Lys
	50					55					60				
Ser	Arg	Val	Thr	Leu	Ser	Leu	Asp	Thr	Ser	Lys	Asn	Gln	Phe	Ser	Leu
65					70					75					80
Lys	Leu	Arg	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
				85					90					95	
Phe	Gly	Tyr	Ser	Asp	Tyr	Glu	Tyr	Asn	Trp	Phe	Asp	Pro	Trp	Gly	Gln
			100					105					110		
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val
		115					120					125			
Phe	Pro	Leu	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala
	130					135					140				
Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser
145					150					155					160
Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val
				165					170					175	
Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro
			180					185					190		
Ser	Ser	Ser	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys
	195					200						205			
Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro
	210					215						220			
Pro	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val
225					230					235					240
Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr
				245					250					255	
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu
			260					265					270		
Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys
		275					280					285			
Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser
	290					295					300				
Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys
305					310					315					320
Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile
				325					330					335	
Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro
			340					345					350		
Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu

<210> 381
 <211> 445
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 381
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Asn Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Asp Ile Tyr Pro Gly Gln Gly Asp Thr Ser Tyr Asn Gln Lys Phe
 50 55 60
 Lys Gly Arg Ala Thr Met Thr Ala Asp Lys Ser Thr Ser Thr Val Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Val Gly Gly Ala Phe Pro Met Asp Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
 115 120 125
 Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
 130 135 140
 Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
 145 150 155 160
 Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
 165 170 175
 Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
 180 185 190
 Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
 195 200 205
 Asn Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys
 210 215 220
 Pro Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu
 225 230 235 240
 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
 245 250 255
 Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln
 260 265 270
 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
 275 280 285
 Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu
 290 295 300
 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys

305		310		315		320
Val Ser Asn Lys Gly	Leu Pro Ser Ser Ile	Glu Lys Thr Ile Ser Lys				
	325	330	335			
Ala Lys Gly Gln Pro Arg Glu Pro Gln	Val Tyr Thr Leu Pro Pro Ser					
	340	345	350			
Gln Glu Glu Met Thr Lys Asn Gln	Val Ser Leu Thr Cys Leu Val Lys					
	355	360	365			
Gly Phe Tyr Pro Ser Asp Ile Ala	Val Glu Trp Glu Ser Asn Gly Gln					
	370	375	380			
Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro	Val Leu Asp Ser Asp Gly					
385	390	395	400			
Ser Phe Phe Leu Tyr Ser Arg Leu Thr	Val Asp Lys Ser Arg Trp Gln					
	405	410	415			
Glu Gly Asn Val Phe Ser Cys Ser	Val Met His Glu Ala Leu His Asn					
	420	425	430			
His Tyr Thr Gln Lys Ser Leu Ser	Leu Ser Leu Gly Lys					
	435	440	445			

<210> 382

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 382

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

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

<210> 383

<211> 448

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 383

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

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

<210> 384

<211> 215

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 384

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

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

<210> 385

<211> 447

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Construct

<400> 385

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

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

<210> 386
 <211> 218
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 386
 Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Gly Val Ser Thr Ser
 20 25 30
 Gly Tyr Ser Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
 35 40 45
 Arg Leu Leu Ile Tyr Leu Ala Ser Tyr Leu Glu Ser Gly Val Pro Ala
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
 65 70 75 80

