

SEQUENCE LISTING

<110> MYELOID THERAPEUTICS, INC.

<120> MACROPHAGE SPECIFIC ENGAGER COMPOSITIONS AND METHODS OF USE
THEREOF

<130> 56371-703.601

<140> PCT/US2020/037312

<141> 2020-06-11

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<160> 160

<170> PatentIn version 3.5

<210> 1

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<220>

<221> MOD_RES

<222> (81)..(81)

<223> Any amino acid

<400> 1

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

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

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

Ala Ala Met Ile Ser Ser Leu Ser Ser Lys Ser Tyr Ala Asp Thr Val
50 55 60

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

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

Ala	Ala	Asp	Leu	Leu	Pro	Tyr	Ser	Ser	Ser	Arg	Ser	Leu	Pro	Met	Gly
			100					105					110		

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

<210> 2

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 2

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

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

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

Ala	Ala	Met	Ile	Ser	Ser	Leu	Ser	Ser	Lys	Ser	Tyr	Ala	Asp	Ser	Val
		50				55					60				

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

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

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

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

<210> 3

<211> 127

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic polypeptide

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

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

Met Gly Trp Phe Ser Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala

35 40 45

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

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

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

Ala Lys Pro Ala Lys Tyr His Phe Gly Ser Gly Tyr Arg Asp Phe Ala
100 105 110

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

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic polypeptide

<223> Any amino acid

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

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

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

Ala	Ala	Val	Ser	Gln	Ser	Gly	Leu	Leu	Thr	Phe	Tyr	Ala	Asp	Ser	Val
50				55				60							

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

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

Ala	Ala	Xaa	Ser	Arg	Phe	Pro	Leu	Val	Val	Pro	Val	Ala	Tyr	Glu	Asn
100				105				110							

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

<210> 5

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 5

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

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

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

Ala	Ala	Val	Ser	Gln	Ser	Gly	Leu	Leu	Thr	Phe	Tyr	Ala	Asp	Ser	Val
50				55				60							

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

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

Ala Ala Asp Ser Arg Phe Pro Leu Val Val Pro Val Ala Tyr Glu Asn
100 105 110

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

<210> 6

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 6

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

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

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

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

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

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

Tyr Cys Lys Leu Leu Gly Phe Asp Tyr Arg Gly Gln Gly Thr Gln Val
100 105 110

Thr Val Ser Ser
115

<210> 7

<211> 118

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic polypeptide

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 Ser Ile Gly Arg Phe Val
20 25 30

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

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

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

Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr

Tyr	Cys	Asn	Val	Val	Pro	Tyr	Val	Asn	Asp	Tyr	Trp	Gly	Gln	Gly	Thr
			100					105					110		

Gln Val Thr Val Ser Ser
115

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic polypeptide

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

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

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile

35 40 45

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

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

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

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

Cys Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 9

<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 9

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

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

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

Ala Cys Ser Ala Asn Asn Asp Asn Arg Ala Phe Tyr Glu Asp Ser Val
50 55 60

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

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

Ala Thr Arg Cys Ala Ala Gly Arg Val Asn Leu Tyr Tyr Gly Met Asp
100 105 110

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser
115 120

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

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 10
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 Leu Gly Asn Tyr
20 25 30

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

Ser Cys Val Asp Arg Asp Gly Gly Ser Thr Tyr Tyr Leu Asp Ser Val
50 55 60

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

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

Ala Thr Arg Leu Tyr Gly Cys Ser Gly Tyr Gly Arg Asp Tyr Ala Asp
100 105 110

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

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

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 11

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

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

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

Ser Ala Met Arg Trp Asn Gly Ser Ser Ser Tyr Tyr Ala Asp Leu 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 Leu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Thr Ala Gly Lys Arg Tyr Gly Tyr Tyr Asp Tyr Trp Gly Gln Gly Thr

Gln Val Thr Val Ser Ser
115

<u><210> 12</u>
<u><211> 120</u>
<u><212> PRT</u>
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 12
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Asn Tyr

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

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

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

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

Ala Ala Ser Asp Ser Asp Tyr Gly Asn Lys Tyr Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 13
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 13
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Val Ser Asp Met
20 25 30

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

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

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

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

Ala Ala Arg Ser Gly Trp Ser Gly Gln Tyr Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 14
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 14
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

Lys 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 Pro Glu Asp Thr Ala Asn Tyr Tyr Cys
85 90 95

Ala Glu Lys Gln Gly Ala Asp Trp Ala Pro Tyr Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 15
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

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

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

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

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

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

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

Val Ala Gly Val Arg Phe Gly Val Tyr Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 16
<211> 129
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 16
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 Leu Asp Asp Tyr
20 25 30

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

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

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

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

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

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

Ser

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

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 17
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 Ser Ile Phe Thr Ile Asn
20 25 30

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

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

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

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

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

Ser Ser

<210> 18
<211> 124

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 18

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

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

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

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

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

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

Ala Ala Arg Ser Gly Glu Arg Tyr Asp Tyr Tyr Lys Ala Gln Tyr Glu
100 105 110

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

<210> 19

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 19

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 Tyr Gly Ser Phe Phe Ser Ile Gly
20 25 30

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

Ala Val Thr Tyr Gly Leu Gly Ser Thr Asn Tyr Ala Glu Ser Val Lys
50 55 60

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

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

Ala Glu Ile Asp Thr Asp Pro Arg Ser Gly Glu Trp Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 20
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 20
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 Leu Pro Ser Thr Ser Thr Ser Ser Leu Arg
20 25 30

Thr Val Gly Trp Tyr Arg Gln Gly Pro Gly Lys Gln Arg Asp Leu Val
35 40 45

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

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

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

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

Thr Val Ser Ser
115

<210> 21
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 21
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Ser Cys Val Ser Arg Asp Gly Gly Ser Thr Tyr Tyr Leu Asp Ser Val
50 55 60

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

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

Ala Ala Ser Arg Tyr Asp Cys Ser Lys Tyr Leu Ile Asp Tyr Asn Tyr
100 105 110

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

<210> 22
<211> 125
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<220>
<221> MOD_RES
<222> (49)..(49)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (52)..(52)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (57)..(57)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (104)..(104)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (116)..(116)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (119)..(119)
<223> Any amino acid

<400> 22
Glu Val Gln Leu Val Lys Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

Xaa Gly Ile Xaa Trp Asn Ser Arg Xaa Thr Tyr Tyr Ala Glu 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 Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Thr Asn Tyr Tyr Gly Ser Xaa Trp Ser Val Asn Ser Asp Asp Tyr

100 105 110

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

<210> 23
<211> 126
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 23
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

Ala Ala Ala Gln Arg Gly Arg Tyr Tyr Tyr Leu Asp Arg Asn Val Glu
100 105 110

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

<210> 24
<211> 129
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 24

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 Leu Asp Asp Tyr
 20 25 30

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

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

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

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

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

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

Ser

<210> 25

<211> 125

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 25

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

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

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

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

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

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

Ala Ala Gly Thr Trp Leu Asp Cys Ser Gly Tyr Gly Ser Tyr Asp Met
100 105 110

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

<210> 26
<211> 123
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 26
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

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

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

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

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

<210> 27
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 27
Glu Ile Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Trp Ile Asn Thr His Thr Gly Glu Pro Thr Tyr Ala Asp Ser Phe
50 55 60

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

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

Thr Arg Arg Gly Tyr Asp Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr
100 105 110

Thr Val Thr Val
115

<210> 28
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 28
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly

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

<210> 29
 <211> 130
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polypeptide

<400> 29
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
<hr/>

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Val Asn Thr Ala
20 25 30
<hr/>

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
<hr/>

Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
<hr/>

Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
<hr/>

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln His Tyr Thr Thr Pro Pro

85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Gly Ser Thr

100 105 110

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

115 120 125

Val Glu

130

<210> 30
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 30

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly

1 5 10 15

Phe Asn Ile Lys Asp Thr Tyr Ile His Trp Val Arg Gln Ala Pro Gly

20 25 30

Lys Gly Leu Glu Trp Val Ala Arg Ile Tyr Pro Thr Asn Gly Tyr Thr

35 40 45

Arg Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Ala Asp Thr

50 55 60

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp

65 70 75 80

Thr Ala Val Tyr Tyr Cys Ser Arg Trp Gly Gly Asp Gly Phe Tyr Ala

85 90 95

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val

100 105

<210> 31
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 31
Thr Tyr Ala Met Gly
1 5

<210> 32
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 32
Tyr Asp Met Gly
1

<210> 33
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 33
Arg Tyr Ala Met Ala
1 5

<210> 34
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 34
Thr His Ala Met Gly
1 5

<210> 35
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 35
Phe Val Ala Met Gly
1 5

<210> 36
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 36
Ala Met Ile Ser Ser Leu Ser Ser Lys Ser Tyr Ala Asp Thr Val Lys
1 5 10 15

Gly

<210> 37
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 37
Ala Met Ile Ser Ser Leu Ser Ser Lys Ser Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 38
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 38
Ala Ile Asn Trp Ser Gly Gly Ser Thr Ala Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 39
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 39
Ala Val Ser Gln Ser Gly Leu Leu Thr Phe Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 40
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 40
Ala Val Ser Gln Ser Gly Leu Leu Thr Phe Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 41
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 41
Thr Ile Thr Ser Val Thr Ser Gly Gly Ser Leu Asn Tyr Ala Asp Ser
1 5 10 15

Val Lys Gly

<210> 42

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

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 42
Thr Ile Thr Ser Ile Thr Ser Gly Gly Arg Thr Asn Tyr Ala Asp Ser
1 5 10 15

Val Lys Gly

<210> 43
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 43
Asp Leu Leu Pro Tyr Ser Ser Ser Arg Ser Leu Pro Met Gly Tyr Asp
1 5 10 15

<210> 44
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 44
Asp Leu Leu Pro Tyr Ser Ser Thr Arg Ser Leu Pro Met Gly Tyr Asp
1 5 10 15

Tyr

<210> 45
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 45
Lys Pro Ala Lys Tyr His Phe Gly Ser Gly Tyr Arg Asp Phe Ala Glu
1 5 10 15

<210> 46
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Any amino acid

<400> 46
Xaa Ser Arg Phe Pro Leu Val Val Pro Val Ala Tyr Glu Asn
1 5 10

<210> 47
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 47
Asp Ser Arg Phe Pro Leu Val Val Pro Val Ala Tyr Glu Asn
1 5 10

<210> 48
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 48
Leu Gly Phe Asp Tyr
1 5

<210> 49
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 49
Val Pro Tyr Val Asn Asp Tyr
1 5

<210> 50
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 50
Asp Arg Ala Ile Gly
1 5

<210> 51
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 51
Asn Tyr Ala Ile Gly
1 5

<210> 52
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 52
Thr Asp Ala Phe Gly
1 5

<210> 53
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 53
Asn Tyr Ser Met Gly
1 5

<210> 54
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 54
Asp Met Thr Met Gly
1 5

<210> 55
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 55
Asn Tyr Ala Met Gly
1 5

<210> 56
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 56
Leu Tyr Arg Met Gly
1 5

<210> 57
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 57
Ala Ile Ser Trp Ser Gly Gly Arg Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 58
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 58
Cys Ser Ala Asn Asn Asp Asn Arg Ala Phe Tyr Glu Asp Ser Val Lys
1 5 10 15

Gly

<210> 59
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 59
Cys Val Asp Arg Asp Gly Gly Ser Thr Tyr Tyr Leu Asp Ser Val Thr
1 5 10 15

Gly

<210> 60
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 60
Ala Met Arg Trp Asn Gly Ser Ser Ser Tyr Tyr Ala Asp Leu Val Lys
1 5 10 15

Gly

<210> 61
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 61
Thr Ile Ser Trp Ser Gly Ala Leu Thr His Tyr Thr Asp Ser Val Lys
1 5 10 15

Gly

<210> 62
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 62
Ala Ile Ser Asn Ser Gly Leu Ser Thr Tyr Tyr Gln Asp Ser Val Lys
1 5 10 15

Gly

<210> 63
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 63
Gly Ile Ser Trp Ser Gly Asp Ser Thr Leu Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 64
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 64
Ala Met Ser Thr Ser Gly Ala Gly Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 65
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 65
Cys Ile Ser Arg Thr Asp Gly Ser Thr Asp Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 66
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 66
Glu Asn Leu Ala Ser Ser Gly Ser Ala Tyr Ser Asp Asp Arg Tyr Asn
1 5 10 15

<210> 67
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

peptide

<400> 67

Arg Cys Ala Ala Gly Arg Val Asn Leu Tyr Tyr Gly Met Asp Tyr
1 5 10 15

<210> 68

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 68

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

<210> 69

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 69

Gly Lys Arg Tyr Gly Tyr Tyr Asp Tyr
1 5

<210> 70

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 70

Ser Asp Ser Asp Tyr Gly Asn Lys Tyr Asp Tyr
1 5 10

<210> 71

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 71
Arg Ser Gly Trp Ser Gly Gln Tyr Asp Tyr
1 5 10

<u><210> 72</u>
<u><211> 11</u>
<u><212> PRT</u>
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 72
Lys Gln Gly Ala Asp Trp Ala Pro Tyr Asp Tyr
1 5 10

<u><210></u>	73
<u><211></u>	9
<u><212></u>	PRT
<213>	Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 73
Gly Val Arg Phe Gly Val Tyr Asp Tyr
 1 5

<u><210></u>	74
<u><211></u>	5
<u><212></u>	PRT
<213>	Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 74
Asp Tyr Ala Ile Gly
1 5

<u><210> 75</u>
<u><211> 5</u>
<u><212> PRT</u>
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 75
Ile Asn Ala Met Ala

1 5

<210> 76
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 76
Ala Tyr His Met Gly
1 5

<210> 77
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 77
Ile Gly Thr Met Gly
1 5

<210> 78
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 78
Leu Arg Thr Val Gly
1 5

<210> 79
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 79
Asp Tyr Ala Ile Gly
1 5

<210> 80
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 80
Thr Ser Gly Met Gly
1 5

<210> 81
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 81
Asn Tyr Ala Met Gly
1 5

<210> 82
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 82
Asp Tyr Gly Ile Gly
1 5

<210> 83
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 83
Asp Tyr Val Ile Gly
1 5

<210> 84

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

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 84
His Leu Thr Asn Ser Gly Arg Thr Gly Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 85
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 85
Ala Ile Ser Trp Ser Val Ser Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 86
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 86
Val Thr Tyr Gly Leu Gly Ser Thr Asn Tyr Ala Glu Ser Val Lys Gly
1 5 10 15

<210> 87
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 87
Ile Met Ser Ala Gly Thr Thr Arg Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 88
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 88
Cys Val Ser Arg Asp Gly Gly Ser Thr Tyr Tyr Leu Asp Ser Val Lys
1 5 10 15

Gly

<210> 89
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (8)..(8)
<223> Any amino acid

<400> 89
Gly Ile Xaa Trp Asn Ser Arg Xaa Thr Tyr Tyr Ala Glu Ser Val Lys
1 5 10 15

Gly

<210> 90
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 90

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

Gly

<210> 91
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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

Gly

<210> 92
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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

Gly

<210> 93
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

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

Gly

<210> 94
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 94
Gly Arg Thr Tyr Tyr Ser Gly Ser Tyr Tyr Phe Gly Leu Gly Ser Asp
1 5 10 15

<210> 95
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 95
Leu Gly Leu His Trp Ser
1 5

<210> 96
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 96
Arg Ser Gly Glu Arg Tyr Asp Tyr Tyr Lys Ala Gln Tyr Glu Tyr
1 5 10 15

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

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 97
Glu Ile Asp Thr Asp Pro Arg Ser Gly Glu Trp Asp Tyr
1 5 10

<210> 98
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 98
Arg Pro Val Phe Ser Asn Val Asp Tyr
1 5

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

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 99
Ser Arg Tyr Asp Cys Ser Lys Tyr Leu Ile Asp Tyr Asn Tyr
1 5 10

<210> 100
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Any amino acid

<400> 100
Asn Tyr Tyr Gly Ser Xaa Trp Ser Val Asn Ser Asp Asp Tyr Asp Tyr
1 5 10 15

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

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 101

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

<210> 102

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 102

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

Glu Tyr Asp Tyr
20

<210> 103

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 103

Gly Thr Trp Leu Asp Cys Ser Gly Tyr Gly Ser Tyr Asp Met Asp Tyr
1 5 10 15

<210> 104

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 104

Ser Thr Trp Leu Asp Phe Val His Gly Asn Glu Tyr Asp Tyr
1 5 10

<210> 105

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 105

Gly Gly Gln Glu Ile Asn Ser Ser Tyr Gly Gly
1 5 10

<210> 106

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 106

Gly Gly Ser Met Pro Asn Pro Met Val Gly Gly
1 5 10

<210> 107

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 107

Gly Gly Gly Leu Gln Gln Val Leu Leu Gly Gly
1 5 10

<210> 108

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 108

Gly Gly Tyr Ala Pro Gln Arg Leu Pro Gly Gly
1 5 10

<210> 109

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 109

Gly Gly Ala Pro Pro His Ala Leu Ser Gly Gly
1 5 10

<210> 110

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 110

Gly Gly Val Val Pro Thr Pro Pro Tyr Gly Gly
1 5 10

<210> 111

<211> 133

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 111

Met Trp Leu Gln Ser Leu Leu Leu Leu Gly Thr Val Ala Cys Ser Ile
1 5 10 15

Ser Glu Ile Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly
20 25 30

Gly Ser Val Arg Ile Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asn
35 40 45

Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
50 55 60

Met Gly Trp Ile Asn Thr His Thr Gly Glu Pro Thr Tyr Ala Asp Ser
65 70 75 80

Phe Lys Gly Arg Phe Thr Phe Ser Leu Asp Asp Ser Lys Asn Thr Ala
85 90 95

Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe
100 105 110

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

Thr Thr Val Thr Val
130

<210> 112
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 112
Glu Ile Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Trp Ile Asn Thr His Thr Gly Glu Pro Thr Tyr Ala Asp Ser Phe
50 55 60

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

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

Thr Arg Arg Gly Tyr Asp Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr
100 105 110

Thr Val Thr Val
115

<210> 113
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 113

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

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

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

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

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

Glu Asp Phe Gly Ile Tyr Tyr Cys Gln Gln Tyr Asp Glu Ser Pro Trp
85 90 95

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

<210> 114

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 114

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

Ser

<210> 115

<211> 257

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 115

Met Trp Leu Gln Ser Leu Leu Leu Leu Gly Thr Val Ala Cys Ser Ile
1 5 10 15

Ser Glu Ile Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly
20 25 30

Gly Ser Val Arg Ile Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asn
35 40 45

Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
50 55 60

Met Gly Trp Ile Asn Thr His Thr Gly Glu Pro Thr Tyr Ala Asp Ser
65 70 75 80

Phe Lys Gly Arg Phe Thr Phe Ser Leu Asp Asp Ser Lys Asn Thr Ala
85 90 95

Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe
100 105 110

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

Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
145 150 155 160

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser
165 170 175

Gln Asp Ile Asn Ser Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys
180 185 190

Ala Pro Lys Thr Leu Ile Tyr Arg Ala Asn Arg Leu Glu Ser Gly Val
195 200 205

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr
210 215 220

Ile Ser Ser Leu Gln Tyr Glu Asp Phe Gly Ile Tyr Tyr Cys Gln Gln
225 230 235 240

Tyr	Asp	Glu	Ser	Pro	Trp	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	
				245					250					255		

Lys

<210> 116
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<u><400> 116</u>															
Tyr	Glu	Gln	Asp	Pro	Trp	Gly	Val	Lys	Trp	Trp	Tyr				
1					5					10					

<210> 117
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<u><400> 117</u>															
His	Leu	Ser	Trp	Leu	Pro	Asp	Val	Val	Tyr	Ala	Trp				
1					5					10					

<210> 118
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<u><400> 118</u>															
Gly	Pro	Leu	Gly	Val	Arg										
1					5										

<210> 119
<211> 39
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 119

Ile	Ala	Arg	Leu	Glu	Glu	Lys	Val	Lys	Thr	Leu	Lys	Ala	Gln	Asn	Ser
1			5					10					15		

Glu	Leu	Ala	Ser	Thr	Ala	Asn	Met	Leu	Arg	Glu	Gln	Val	Ala	Gln	Leu
		20					25						30		

Lys	Gln	Lys	Val	Met	Asn	His
		35				

<210> 120

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 120

Thr	Asp	Thr	Leu	Gln	Ala	Glu	Thr	Asp	Gln	Leu	Glu	Asp	Glu	Lys	Ser
1			5					10					15		

Ala	Leu	Gln	Thr	Glu	Ile	Ala	Asn	Leu	Leu	Lys	Glu	Lys	Glu	Lys	Leu
		20					25						30		

Glu	Phe	Ile	Leu	Ala	Ala	His
		35				

<210> 121

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 121

Ala	Gln	Leu	Glu	Lys	Glu	Leu	Gln	Ala	Leu	Glu	Lys	Glu	Asn	Ala	Gln
1			5					10					15		

Leu	Glu	Trp	Glu	Leu	Gln	Ala	Leu	Glu	Lys	Glu	Leu	Ala	Gln	Lys
		20					25						30	

<210> 122

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 122

Ala	Gln	Leu	Lys	Lys	Lys	Leu	Gln	Ala	Leu	Lys	Lys	Lys	Asn	Ala	Gln
1			5						10					15	

Leu	Lys	Trp	Lys	Leu	Gln	Ala	Leu	Lys	Lys	Lys	Leu	Ala	Gln	Lys
			20					25					30	

<210> 123

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 123

Gly	Gly	Ser	His	Pro	Arg	Leu	Ser	Ala	Gly	Gly
1			5						10	

<210> 124

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 124

Gly	Gly	His	Glu	Leu	Ser	Val	Leu	Leu	Gly	Gly
1			5						10	

<210> 125

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 125

Gly	Gly	Thr	Pro	Arg	Thr	Leu	Pro	Thr	Gly	Gly
1			5						10	

<210> 126
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 126
Gly Gly Ala Pro Val His Ser Ser Ile Gly Gly
1 5 10

<210> 127
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 127
Gly Gly Thr Phe Ser Asn Arg Phe Ile Gly Gly
1 5 10

<210> 128
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 128
Gly Gly Glu Leu Ala Pro Asp Ser Pro Gly Gly
1 5 10

<210> 129
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 129
Gln Glu Ile Asn Ser Ser Tyr
1 5

<210> 130
<211> 7

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 130
Ser His Pro Arg Leu Ser Ala
1 5

<210> 131
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 131
Ser Met Pro Asn Pro Met Val
1 5

<210> 132
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 132
Gly Leu Gln Gln Val Leu Leu
1 5

<210> 133
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 133
His Glu Leu Ser Val Leu Leu
1 5

<210> 134
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 134
Tyr Ala Pro Gln Arg Leu Pro
1 5

<210> 135
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 135
Thr Pro Arg Thr Leu Pro Thr
1 5

<210> 136
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 136
Ala Pro Val His Ser Ser Ile
1 5

<210> 137
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 137
Ala Pro Pro His Ala Leu Ser
1 5

<210> 138
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 138

Thr Phe Ser Asn Arg Phe Ile
1 5

<210> 139

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 139

Val Val Pro Thr Pro Pro Tyr
1 5

<210> 140

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 140

Glu Leu Ala Pro Asp Ser Pro
1 5

<210> 141

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 141

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

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

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

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

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

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 142

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 142

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

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

His Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr
35 40 45

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

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met
65 70 75 80

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

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

<210> 143
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 143
Glu Ile Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

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

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

Gly Trp Ile Asn Thr His Thr Gly Glu Pro Thr Tyr Ala Asp Ser Phe
50 55 60

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

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

Thr Arg Arg Gly Tyr Asp Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr
100 105 110

Thr Val Thr Val Ser Ser
115

<210> 144
<211> 135
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 144
Met Trp Leu Gln Ser Leu Leu Leu Leu Gly Thr Val Ala Cys Ser Ile
1 5 10 15

Ser Glu Ile Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly
20 25 30

Gly Ser Val Arg Ile Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Asn
35 40 45

Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
50 55 60

Met Gly Trp Ile Asn Thr His Thr Gly Glu Pro Thr Tyr Ala Asp Ser
65 70 75 80

Phe Lys Gly Arg Phe Thr Phe Ser Leu Asp Asp Ser Lys Asn Thr Ala
85 90 95

Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe
100 105 110

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

Thr Thr Val Thr Val Ser Ser
130 135

<210> 145
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 145
Ser Gly Gly Gly Gly Ser
1 5

<210> 146
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 146
Gly Gly Gly Gly Ser
1 5

<210> 147
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 147
Gly Gly Gly Gly
1

<210> 148
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 148
Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly
20

<210> 149
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
6xHis tag

<400> 149
His His His His His His
1 5

<210> 150
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 150
Glu Asn Leu Tyr Phe Gln Gly
1 5

<210> 151

<211> 512

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 151

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly His His His His His His Glu Asn Leu Tyr Phe Gln
20 25 30

Gly Glu Ile Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly
35 40 45

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

Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
65 70 75 80

Met Gly Trp Ile Asn Thr His Thr Gly Glu Pro Thr Tyr Ala Asp Ser
85 90 95

Phe Lys Gly Arg Phe Thr Phe Ser Leu Asp Asp Ser Lys Asn Thr Ala
100 105 110

Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe
115 120 125

Cys Thr Arg Arg Gly Tyr Asp Trp Tyr Phe Asp Val Trp Gly Gln Gly
130 135 140

Thr Thr Val Thr Val Ser Ser Ser Gly Gly Gly Gly Ser Ser Tyr Val
145 150 155 160

Leu Thr Gln Pro Ser Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr
165 170 175

Ile Ser Cys Gly Gly His Asn Ile Gly Ser Lys Asn Val His Trp Tyr
180 185 190

Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr	Gln	Asp	Asn
195				200				205							

Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser	Asn	Ser	Gly
210			215				220								

Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met	Asp	Glu	Ala
225		230				235				240					

Asp	Tyr	Tyr	Cys	Gln	Val	Trp	Asp	Asn	Tyr	Ser	Val	Leu	Phe	Gly	Gly
245				250				255							

Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly	Gly	Gly	Gly	Gln	Glu	Ile	Asn	Ser
260			265				270								

Ser	Tyr	Gly	Gly	Gly	Gly	Ser	Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala
275			280				285								

Glu	Val	Lys	Lys	Pro	Gly	Glu	Ser	Leu	Lys	Val	Ser	Cys	Lys	Ala	Ser
290		295				300									

Gly	Tyr	Thr	Phe	Thr	Ser	Tyr	Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro
305		310				315				320					

Gly	Gln	Gly	Leu	Glu	Trp	Met	Gly	Ile	Ile	Asn	Pro	Ser	Gly	Gly	Ser
325				330				335							

Thr	Ser	Tyr	Ala	Gln	Lys	Phe	Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp
340			345				350								

Thr	Ser	Thr	Ser	Thr	Val	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu
355		360				365									

Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Gly	Ser	Ala	Tyr	Tyr	Tyr	Asp
370		375				380									

Phe	Ala	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ser
385		390				395				400					

Gly	Gly	Gly	Gly	Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu
405				410				415							

Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln
420 425 430

Asp Ile Asn Ser Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala
435 440 445

Pro Lys Thr Leu Ile Tyr Arg Ala Asn Arg Leu Glu Ser Gly Val Pro
450 455 460

Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile
465 470 475 480

Ser Ser Leu Gln Tyr Glu Asp Phe Gly Ile Tyr Tyr Cys Gln Gln Tyr
485 490 495

Asp Glu Ser Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
500 505 510

<210> 152

<211> 512

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 152

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

Gly Ser Thr Gly His His His His His His Glu Asn Leu Tyr Phe Gln
20 25 30

Gly Glu Ile Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly
35 40 45

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

Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
65 70 75 80

Met Gly Trp Ile Asn Thr His Thr Gly Glu Pro Thr Tyr Ala Asp Ser
85 90 95

Phe Lys Gly Arg Phe Thr Phe Ser Leu Asp Asp Ser Lys Asn Thr Ala
100 105 110

Tyr Leu Gln Ile Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe
115 120 125

Cys Thr Arg Arg Gly Tyr Asp Trp Tyr Phe Asp Val Trp Gly Gln Gly
130 135 140

Thr Thr Val Thr Val Ser Ser Ser Gly Gly Gly Gly Ser Ser Tyr Val
145 150 155 160

Leu Thr Gln Pro Ser Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr
165 170 175

Ile Ser Cys Gly Gly His Asn Ile Gly Ser Lys Asn Val His Trp Tyr
180 185 190

Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr Gln Asp Asn
195 200 205

Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly
210 215 220

Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met Asp Glu Ala
225 230 235 240

Asp Tyr Tyr Cys Gln Val Trp Asp Asn Tyr Ser Val Leu Phe Gly Gly
245 250 255

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ala Pro Pro His Ala
260 265 270

Leu Ser Gly Gly Gly Gly Ser Gln Val Gln Leu Val Gln Ser Gly Ala
275 280 285

Glu Val Lys Lys Pro Gly Glu Ser Leu Lys Val Ser Cys Lys Ala Ser
290 295 300

Gly Tyr Thr Phe Thr Ser Tyr Tyr Met His Trp Val Arg Gln Ala Pro
305 310 315 320

Gly Gln Gly Leu Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser
325 330 335

Thr Ser Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asp
340 345 350

Thr Ser Thr Ser Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu
355 360 365

Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Ser Ala Tyr Tyr Tyr Asp
370 375 380

Phe Ala Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser
385 390 395 400

Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu
405 410 415

Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln
420 425 430

Asp Ile Asn Ser Tyr Leu Ser Trp Phe Gln Gln Lys Pro Gly Lys Ala
435 440 445

Pro Lys Thr Leu Ile Tyr Arg Ala Asn Arg Leu Glu Ser Gly Val Pro
450 455 460

Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile
465 470 475 480

Ser Ser Leu Gln Tyr Glu Asp Phe Gly Ile Tyr Tyr Cys Gln Gln Tyr
485 490 495

Asp Glu Ser Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
500 505 510

<210> 153

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 153

Gly Ser Gly Ser

1

<210> 154
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 154
Ser Gly Gly Gly
1

<210> 155
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 155
Ser Gly Gly Gly Gly Ser Gly
1 5

<210> 156
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 156
Gly Ala Ala Pro Ala Ala Ala Pro Ala Lys Gln Glu Ala Ala Ala Pro
1 5 10 15

Ala Pro Ala Ala Lys Ala Glu Ala Pro Ala Ala Ala Pro Ala Ala Lys
20 25 30

Ala

<210> 157
<211> 20
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MISC_FEATURE

<222> (1)..(20)

<223> This sequence may encompass 1-4 'Gly Gly Gly Gly Ser' repeating units

<220>

<223> See specification as filed for detailed description of substitutions and preferred embodiments

<400> 157

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

Gly Gly Gly Ser
20

<210> 158

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 158

Gly Gly Gly Gly Gly Gly
1 5

<210> 159

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 159

Gly Gly Gly Gly Gly Gly Gly Gly
1 5

<210> 160

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

peptide

$\langle 220 \rangle$

<221> MISC_FEATURE

<222> (1) . . (20)

<223> This sequence may encompass 1-4 'Glu Ala Ala Ala Lys' repeating units

<220>

<223> See specification as filed for detailed description of
substitutions and preferred embodiments

<400> 160

Glu	Ala	Ala	Ala	Lys	Glu	Ala	Ala	Ala	Lys	Glu	Ala	Ala	Ala	Lys	Glu
1				5					10					15	

Ala Ala Ala Lys
20