

SEQUENCE LISTING

- 5 <110> Blanchetot, Christophe
 Saunders, Michael John Scott
 De Haard, Johannes Joseph Wilhelmus
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- <120> AMINO ACID SEQUENCES DIRECTED AGAINST CHEMOKINES AND
 POLYPEPTIDES COMPRISING THE SAME FOR THE TREATMENT OF CHEMOKINE-
 RELATED DISEASES AND DISORDERS
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30 Xaa Xaa Xaa Trp Phe Arg Leu Ala Pro Gly Lys Glu Arg Glu Phe Val
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35 Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Thr Ala Ser
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Asn Arg Gly Tyr Leu His Met Asn Asn Leu Thr Pro Glu Asp Thr Ala
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Xaa Xaa Xaa Trp Phe Arg Gln Thr Pro Gly Arg Glu Arg Glu Phe Val
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Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
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Asn Met Val Tyr Leu Arg Met Asn Ser Leu Ile Pro Glu Asp Ala Ala
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Xaa Xaa Xaa Trp Phe Arg Gln Thr Ser Gly Gln Glu Arg Glu Phe Val
 10 35 40 45

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

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Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Met Asp Tyr Thr Lys
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Gln Thr Val Tyr Leu His Met Asn Ser Leu Arg Pro Glu Asp Thr Gly
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30 35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Ser Glu Lys Asp Lys

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

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

25 Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ala Arg Asp Ser Thr Lys
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Asp Thr Phe Cys Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala
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          20          25          30

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

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

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

25 Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ala Arg Glu Asn Ala Gly
50 55 60

Asn Met Val Tyr Leu Gln Met Asn Asn Leu Lys Pro Asp Asp Thr Ala
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10 Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Val Phe Leu
35 40 45

15 Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Ser Ala Lys
50 55 60

Asn Met Met Tyr Leu Gln Met Asn Asn Leu Lys Pro Gln Asp Thr Ala
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Xaa Xaa Xaa Trp Phe Arg Gln Thr Pro Trp Gln Glu Arg Asp Phe Val
40          35          40          45

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

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

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

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

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Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
 50 55 60
 5

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

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

Xaa Xaa Xaa Trp Val Arg His Thr Pro Gly Lys Ala Glu Glu Trp Val
35 40 45

25

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
50 55 60

30

Asn Thr Leu Tyr Leu Glu Met Asn Ser Leu Ser Pro Glu Asp Thr Ala
65 70 75 80

Met Tyr Tyr Cys Gly Arg Xaa Xaa Xaa Xaa Xaa Arg Ser Lys Gly Ile
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Gln Val Thr Val Ser Ser
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          20          25          30

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

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Gly Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
 50 55 60
 5

Asn Met Leu Tyr Leu His Leu Asn Asn Leu Lys Ser Glu Asp Thr Ala
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Ser	Leu	Arg	Leu	Ser	Cys	Val	Cys	Val	Ser	Ser	Gly	Cys	Thr	Xaa	Xaa
			20					25					30		

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

Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Phe	Lys	Ile	Ser	Arg	Asp	Asn	Ala	Lys
	50						55				60				

35

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

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

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

25 Ser Cys Gln Val Ser Glu
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40 <400> 36

305

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

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

25 Ser Cys Ala Ala Ser Glu
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40 <400> 38

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

5 Ser Cys Ala Ser Ser Thr
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20 <400> 39

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

25 Ser Cys Val Ala Ser Gly
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35 <213> Artificial

40 <400> 40

307

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

5 Ser Cys Ser Ala Ser Val
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20 <400> 41

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

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<213> Artificial

35 <400> 42

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

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<210> 43

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5 <212> PRT

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<400> 43

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

1 5 10

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<210> 44

<211> 14

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25

<400> 44

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

30 1 5 10

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35 <211> 14

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<400> 45

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

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15 <213> Artificial

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

25 <210> 47

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35 <400> 47

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

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	Gln	Ala	Pro
	Gly	Lys	Gln
	Arg	Glu	Glu
	Val	Ser	
	1	5	10
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	Trp	Phe	Arg
	Gln	Pro	Pro
	Gly	Lys	Val
	Arg	Glu	Phe
	Val	Gly	
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<400> 50

5 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 Glu Asp Thr Ala Val Tyr Arg Cys Tyr Phe
10 20 25 30

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15 <211> 32

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<400> 51

25 Arg Phe Ala Ile Ser Arg Asp Asn Asn Lys Asn Thr Gly Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
30 20 25 30

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35 <211> 32

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<400> 52

5 Arg Phe Thr Val Ala Arg Asn Asn Ala Lys Asn Thr Val Asn Leu Glu
1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
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15 <211> 32

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<400> 53

25 Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Val Asp Leu Leu
1 5 10 15

Met Asn Asn Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
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35 <211> 32

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<400> 54

5 Arg Leu Thr Ile Ser Arg Asp Asn Ala Val Asp Thr Met Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
10 20 25 30

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15 <211> 32

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<400> 55

25 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
1 5 10 15

Met Asp Asn Val Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
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35 <211> 32

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<400> 56

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

Met Thr Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr
10 20 25 30

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15 <211> 32

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<400> 57

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

Met Asn Asn Leu Lys Pro Gln Asp Thr Ala Val Tyr Tyr Cys Ala Ala
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35 <211> 32

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<400> 58

5 Arg Phe Thr Ile Ser Arg Glu Asn Asp Lys Ser Thr Val Tyr Leu Gln
1 5 10 15

Leu Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
10 20 25 30

<210> 59

15 <211> 32

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<400> 59

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Ala Thr
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5 Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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<400> 61

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

25 <210> 62

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35 <400> 62

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

40

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<400> 63

Trp Gly Leu Gly Thr Gln Val Thr Ile Ser Ser

1 5 10

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25

<400> 64

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

30 1 5 10 15

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

20 25 30

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<210> 65

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5

<400> 65

Glu Val His Leu Val Glu Ser Gly Gly Gly Leu Val Arg Pro Gly Gly
10 1 5 10 15

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

<400> 66

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Ala Gln Pro Gly Gly
30 1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser
20 25 30
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<211> 30
40

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5

<400> 67

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

Ser Leu Arg Leu Ser Cys Val Cys Val Ser Ser Gly Cys Thr
20 25 30
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<211> 30
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25

<400> 68

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ala Leu Pro Gly Gly
30 1 5 10 15

Ser Leu Thr Leu Ser Cys Val Phe Ser Gly Ser Thr Phe Ser
20 25 30
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Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
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Ser Cys Ala Ala Ser Gly
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<400> 70

Glu Glu Ser Gly Gly Gly Leu Ala Gln Pro Gly Gly Ser Leu Arg Leu
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Ser Cys Val Ala Ser Gly
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35

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<400> 71

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	Ser	Cys	Val	Phe	Ser	Gly
						20

15

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25

<400> 72

	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Val	Leu	Glu	Trp	Val	Ser
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35 <211> 14

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<400> 73

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

<210> 74

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15 <213> Artificial

<400> 74

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

25 <210> 75

<211> 14

<212> PRT

30

<213> Artificial

35 <400> 75

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

40

<210> 76

<211> 14

5 <212> PRT

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10

<400> 76

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

15

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25

<400> 77

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

30

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35 <211> 14

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<400> 78

5 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
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<400> 79

20

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

25 <210> 80

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<213> Artificial

35 <400> 80

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15

40

325

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

5 <210> 81

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<213> Artificial

15 <400> 81

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

20

Met Asp Ser Leu Ile Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg
 20 25 30

25 <210> 82

<211> 32

<212> PRT

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<213> Artificial

35 <400> 82

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

40

Met Asn Asp Leu Lys Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg
 20 25 30

5 <210> 83

<211> 32

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10

<213> Artificial

15 <400> 83

Arg Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
 1 5 10 15

20

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

25 <210> 84

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<213> Artificial

35 <400> 84

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

40

Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Arg Tyr Tyr Cys Ala Arg
 20 25 30

5 <210> 85

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<212> PRT

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<213> Artificial

15 <400> 85

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
 1 5 10 15

20

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

25 <210> 86

<211> 11

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<213> Artificial

35 <400> 86

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

40

<210> 87

<211> 11

5 <212> PRT

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10

<400> 87

Leu Arg Gly Gly Thr Gln Val Thr Val Ser Ser

1 5 10

15

<210> 88

<211> 11

20

<212> PRT

<213> Artificial

25

<400> 88

Arg Gly Gln Gly Thr Leu Val Thr Val Ser Ser

30 1 5 10

<210> 89

35 <211> 11

<212> PRT

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<400> 89

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

<210> 90

10

<211> 11

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<400> 90

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

25 <210> 91

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35 <400> 91

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

40

<210> 92

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5 <212> PRT

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<400> 92

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

15

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

20

<210> 93

<211> 30

25 <212> PRT

<213> Artificial

30

<400> 93

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

35

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

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5 <212> PRT

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<400> 94

Glu	Val	His	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Arg	Pro	Gly	Gly
1				5					10					15	

15

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

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<211> 30

25 <212> PRT

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<400> 95

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

35

Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Arg	Thr	Ile	Val	Ser
			20					25					30

40

<210> 96

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5 <212> PRT

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<400> 96

Gln Glu His Leu Val Glu Ser Gly Gly Gly Leu Val Asp Ile Gly Gly
1 5 10 15

15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Arg Ile Phe Ser
20 25 30

20

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25 <212> PRT

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30

<400> 97

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

35

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

40

<210> 98

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5 <212> PRT

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10

<400> 98

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

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

20

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25 <212> PRT

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30

<400> 99

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

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Ser Leu Thr Leu Ser Cys Val Phe Ser Gly Ser Thr Phe Ser
20 25 30

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Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu
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Ser Cys Ala Ala Ser Gly
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20

<210> 101

<211> 22

25 <212> PRT

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30

<400> 101

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

35

Ser Cys Ala Ala Ser Arg
20

40

<210> 102

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5 <212> PRT

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10

<400> 102

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

15

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20 <212> PRT

<213> Artificial

25

<400> 103

Trp Val Arg Gln Ala Pro Gly Lys Val Leu Glu Trp Val Ser
30 1 5 10

<210> 104

35 <211> 14

<212> PRT

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40

<400> 104

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

<210> 105

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<211> 14

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<400> 105

20

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

25 <210> 106

<211> 14

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30

<213> Artificial

35 <400> 106

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

40

<210> 107

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 10
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 Trp Phe Arg Gln Pro Pro Gly Lys Glu His Glu Phe Val Ala
 1 5 10
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 Trp Tyr Arg Gln Ala Pro Gly Lys Arg Thr Glu Leu Val Ala
 30 1 5 10

 <210> 109

 35 <211> 14

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<400> 109

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

<210> 110

10

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15 <213> Artificial

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20

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

25 <210> 111

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35 <400> 111

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

40

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<211> 32

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10

<400> 112

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

15

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

20

<210> 113

<211> 32

25 <212> PRT

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30

<400> 113

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

35

Met	Asp	Ser	Leu	Ile	Pro	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys	Ala	Arg
			20					25					30		

40

<210> 114

<211> 32

5 <212> PRT

<213> Artificial

10

<400> 114

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

15

Met	Asn	Asn	Leu	Lys	Thr	Glu	Asp	Thr	Gly	Val	Tyr	Trp	Cys	Gly	Ala
			20					25					30		

20

<210> 115

<211> 32

25 <212> PRT

<213> Artificial

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<400> 115

Arg	Phe	Thr	Ile	Ser	Ser	Asp	Ser	Asn	Arg	Asn	Met	Ile	Tyr	Leu	Gln
1				5					10					15	

35

Met	Asn	Asn	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Ala
			20					25					30		

40

<210> 116

<211> 32

5 <212> PRT

<213> Artificial

10

<400> 116

Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Met	Leu	Tyr	Leu	His
1				5					10					15	

15

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

20

<210> 117

<211> 32

25 <212> PRT

<213> Artificial

30

<400> 117

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

35

Leu	Asn	Ser	Leu	Asn	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Ser	Cys	Asn	Leu
			20					25					30		

40

<210> 118

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5 <212> PRT

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<400> 118

Arg	Phe	Lys	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Lys	Thr	Leu	Tyr	Leu	Gln
1				5					10					15	

15

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

20

<210> 119

<211> 32

25 <212> PRT

<213> Artificial

30

<400> 119

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

35

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

40

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<400> 120

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

15

<210> 121

<211> 11

20 <212> PRT

<213> Artificial

25

<400> 121

Leu Arg Gly Gly Thr Gln Val Thr Val Ser Ser
30 1 5 10

<210> 122

35 <211> 11

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40

<400> 122

5 Gly Asn Lys Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 123

10

<211> 11

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15 <213> Artificial

<400> 123

20

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

25 <210> 124

<211> 11

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30

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35 <400> 124

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

40

<210> 125

<211> 11

5 <212> PRT

<213> Artificial

10

<400> 125

Arg Ser Arg Gly Ile Gln Val Thr Val Ser Ser

1 5 10

15

<210> 126

<211> 123

20

<212> PRT

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25

<400> 126

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly

30 1 5 10 15

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

20 25 30

35

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

35 40 45

40

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

5 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
 10 85 90 95

Ala Ala Gly Ala Gln Ile Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
 100 105 110
 15

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

20
 <210> 127

<211> 124

25 <212> PRT

<213> Artificial

30
 <400> 127

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

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

40

347

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 10 65 70 75 80

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

15

Ala Val Lys Met Tyr Ser Gly Ser Tyr Ser Ser Pro Pro Gly Tyr Asn
 100 105 110

20

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

25 <210> 128

<211> 115

<212> PRT

30

<213> Artificial

35 <400> 128

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

40

349

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

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

Arg Met Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
10 35 40 45

Ala Val Ile Ser Arg Ser Gly Gly Ser Thr Phe Tyr Ser Asn Ser Val
50 55 60
15

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

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

25 Ala Ala Gly Ala Gln Met Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
30 115 120

<210> 130

35 <211> 121

<212> PRT

<213> Artificial
40

<400> 130

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 Gly Thr Phe Ala Ser Tyr
10 20 25 30

Gly Met Gly Trp Phe Arg Gln Tyr Pro Gly Lys Glu Arg Glu Phe Val
35 40 45
15

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

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

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

Ala Ala Gly Arg Phe Ile Pro Gln Leu Ser Ala Tyr Asp Tyr Trp Gly
30 100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

35

<210> 131

<211> 123

40

<212> PRT

<213> Artificial

5

<400> 131

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Phe Ser Ser His
 20 25 30
 15

Arg Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 20

Ala Ser Ile Ser Arg Ser Gly Glu Asn 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
 25

Leu Gln Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 30

Ala Ala Ser Gly Gly Met Gly Ile Ser Ala Pro Asn Ser Tyr Ala Tyr
 100 105 110
 35

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

40

<210> 132

<211> 125

5 <212> PRT

<213> Artificial

10

<400> 132

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

15

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

20

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

25

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

30

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

35

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

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

40

353

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

5 <210> 133

<211> 125

<212> PRT

10

<213> Artificial

15 <400> 133

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

20

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

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

30 Ala Ala Ile Ser Trp 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

35

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

40

354

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

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

10 <210> 134

<211> 123

<212> PRT

15 <213> Artificial

20 <400> 134

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

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

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

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

35

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

40

355

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

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

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
10 115 120

<210> 135

15 $\langle 211 \rangle$ 123

<212> PRT

<213> Artificial

20

<400> 135

25 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 Ser Tyr
30 20 25 30

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

35

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

40

356

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

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

10 Ala Ala Gly Ala Gln Met Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
 100 105 110

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

15

<210> 136

<211> 124

20 <212> PRT

<213> Artificial

25

<400> 136

30 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 Leu Thr Phe Ser Thr Tyr
 20 25 30

35

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

40

357

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

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys
 10 85 90 95

Ala Val Lys Ile Tyr Ser Gly Ser Tyr Ser Ser Pro Pro Gly Tyr Asn
 100 105 110
 15

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

20
 <210> 137

<211> 123

25 <212> PRT

<213> Artificial

30
 <400> 137

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

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

40

358

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

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

Lys Gly Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asp Thr Val Tyr
 10 65 70 75 80

Leu Gln Met Asn Lys Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 15

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

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

25 <210> 138

<211> 123

<212> PRT

30

<213> Artificial

35 <400> 138

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

40

[illegible]

360

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

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

Arg Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val
10 35 40 45

Thr Leu Ile Ser Arg Ser Gly Gly Thr Thr Asp Tyr Thr Asp Ser Val
50 55 60
15

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

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

25 Ala Ala Ala Gly Ser Met Gly Trp Asn His Phe Arg Glu Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
30 115 120

<210> 140

35 <211> 123

<212> PRT

<213> Artificial
40

<400> 140

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 Gly Thr Phe Ser Ser Tyr
10 20 25 30

Arg Met Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
35 40 45
15

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

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

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

Ala Ala Gly Ala Gln Met Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
30 100 105 110

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

35

<210> 141

<211> 123

40

<212> PRT

<213> Artificial

5

<400> 141

10 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 Ala Ala Ser Gly Arg Thr Phe Ser Ser Tyr
 20 25 30
 15

 Arg Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 20

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

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

 Leu Gln Met Asn Lys Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 30 85 90 95

 Ala Ala Ser Ser Arg Ile Gly Val Asp Asp Pro Glu Ala Tyr Gly Tyr
 100 105 110
 35

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

40

<210> 142

<211> 123

5 <212> PRT

<213> Artificial

10

<400> 142

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

15

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

20

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

25

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

30

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

35

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

Ala Ala Gly Ala Gln Met Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
100 105 110

40

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

5 <210> 143

<211> 127

<212> PRT

10

<213> Artificial

15 <400> 143

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

20

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

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

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

35

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

40

365

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

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

10 <210> 144

<211> 123

<212> PRT

15 <213> Artificial

20 <400> 144

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

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

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

35 Ala Val Ile Thr Arg Ser Gly Gly Ser Thr Phe Tyr Ser Asn 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

40

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

5 Ala Ala Gly Ala Gln Met Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
100 105 110

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
10 115 120

<210> 145

15 $\langle 211 \rangle$ 123

<212> PRT

<213> Artificial

20

<400> 145

25 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 Ser Tyr
30 20 25 30

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

35

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

40

367

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

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

10 Ala Ala Gly Ala Gln Met Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
 100 105 110

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

15

<210> 146

<211> 123

20 <212> PRT

<213> Artificial

25

<400> 146

30 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 Ala Arg Thr Phe Ser Ser Tyr
 20 25 30

35

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

40

368

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

5 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
 10 85 90 95

Ala Ala Gly Ala Gln Ile Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
 100 105 110
 15

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

20
 <210> 147

<211> 123

25 <212> PRT

<213> Artificial

30
 <400> 147

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

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

40

	Arg	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Glu	Lys	Glu	Arg	Glu	Phe	Val	
	35						40						45				
5	Ala	Val	Ile	Ser	Arg	Ser	Gly	Gly	Asp	Thr	Phe	Tyr	Ser	Ser	Ser	Val	
	50						55						60				
	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	
10	65				70						75			80			
	Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
15				85						90						95	
	Ala	Ala	Gly	Ala	Gln	Met	Gly	Trp	Ala	Glu	Ala	Ser	Thr	Tyr	Asp	Tyr	
				100						105						110	
20																	
	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser						
				115						120							
25	<210>	148															
	<211>	125															
	<212>	PRT															
30																	
	<213>	Artificial															
35	<400>	148															
	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly	
	1				5						10			15			

[illegible]

371

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

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

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

15 Ala Ala Ile Asn 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 Ala Lys Asn Thr Val Tyr
65 70 75 80

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

25 Ala Val Lys Ile Tyr Ser Gly Ser Tyr Ser Ser Pro Pro Gly Tyr Asn
100 105 110

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

<210> 150

35 <211> 123

<212> PRT

<213> Artificial

40

<400> 150

5 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 Thr Phe Ser Ser Tyr
10 20 25 30

Arg Met Gly Trp Phe Arg Gln Ala Pro Glu Lys Glu Arg Glu Phe Val
35 40 45
15

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

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

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

Ala Ala Gly Ala Gln Met Gly Trp Ala Glu Ala Ser Thr Tyr Asp Tyr
30 100 105 110

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

35

<210> 151

<211> 125

40

<212> PRT

<213> Artificial

5

<400> 151

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Tyr
 20 25 30
 15

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

Ala Ala Ile Arg Trp Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 20

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 25

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 30

Ala Ala Asp Leu Leu Gly Asp Ser Asp Tyr Glu Pro Ser Ser Gly Phe
 100 105 110
 35

Gly Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125
 40

<210> 152

<211> 126

5 <212> PRT

<213> Artificial

10

<400> 152

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

15

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

20

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

25

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

30

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

35

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

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

40

375

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

5 <210> 153

<211> 118

<212> PRT

10

<213> Artificial

15 <400> 153

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

20

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

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

Ala Thr Val Thr Asp Gly Gly Trp Arg Asn Tyr Ala Glu Ser Val Lys
 30 50 55 60

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

35

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

40

376

Arg Val Ala Gly Trp Ala Gly Pro Leu Gly Ser Trp Gly Gln Gly Thr
 100 105 110

5 Gln Val Thr Val Ser Ser
 115

10 <210> 154

<211> 126

<212> PRT

15 <213> Artificial

20 <400> 154

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

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

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

35 Ser Ala Ile Ser Trp Asn Ala Gly Thr Thr Tyr Tyr Ala Glu Ser Ile
 50 55 60

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

40

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

5 Val Gln Asp Arg Leu Tyr Gly Ser Asn Trp Ser Asp Leu Leu Asp Glu
100 105 110

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

<210> 155

15 $\langle 211 \rangle$ 114

<212> PRT

<213> Artificial

20

<400> 155

25 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 Ile Asn Ser
30 20 25 30

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

35

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

40

378

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

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

Ile Gly Gly Gly Ala Val His Trp Gly Gln Gly Thr Gln Val Thr Val
 10 100 105 110

Ser Ser

15

<210> 156

<211> 113

20

<212> PRT

<213> Artificial

25

<400> 156

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 30 1 5 10 15

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

35

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

40

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

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

Gln Met Asp Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ser
10 85 90 95

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

Ser

20

<210> 157

 $\langle 211 \rangle$ 123

25 <212> PRT

<213> Artificial

30

<400> 157

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

35

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Arg Thr Phe Ser Ser Ser

20 25 30

40

380

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

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

Lys Gly Arg Phe Thr Ile Phe Arg Asp Asp Ala Lys Asn Thr Val Phe
10 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
15

Ala Val Val Ser Ser Gly Val Ser Gly Phe Ser Asn Arg Tyr Asp Tyr
100 105 110

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

25 <210> 158

<211> 111

<212> PRT

30

<213> Artificial

35 <400> 158

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

40

	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ala	Phe	Ser	Thr	Asn	
				20					25					30			
5	Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	
			35					40					45				
	Ser	Thr	Ile	Asn	Ser	Gly	Gly	Trp	Arg	Ser	Tyr	Ala	Asp	Ser	Val	Lys	
10		50					55					60					
	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asp	Gly	Gln	Asn	Thr	Leu	Tyr	Leu	
15	65					70					75					80	
	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Val	
					85					90					95		
20																	
	His	Gln	Asn	Tyr	Arg	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser		
				100					105					110			
25	<210>		159														
	<211>		123														
	<212>		PRT														
30	<213>		Artificial														
35	<400>		159														
	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Asp	
	1				5					10					15		

[illegible]

<400> 161

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 Glu Arg Thr Tyr Gly Met Gly
10 20 25 30

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Val Phe Val Ala Ala Ile
35 40 45
15

Asn Tyr Ser Gly Arg Ser Ile Asn Tyr Ser Asp Ser Val Lys Gly Arg
50 55 60
20

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

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

Lys Thr Leu Trp Ser Ile Ser Ser Asp Arg Asp Glu Tyr Asp Tyr Trp
30 100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120
35

<210> 162

<211> 122
40

<212> PRT

<213> Artificial

5

<400> 162

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Arg Thr Tyr Gly Met Gly
 20 25 30
 15

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Val Phe Val Ala Ala Ile
 35 40 45
 20

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

Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met
 65 70 75 80
 25

Asn Ser Leu Lys Val Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala Asp
 85 90 95
 30

Lys Thr Leu Trp Ser Ile Ser Ser Asp Arg Asp Glu Tyr Asp Tyr Trp
 100 105 110
 35

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

40

<210> 163

<211> 127

5 <212> PRT

<213> Artificial

10

<400> 163

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

15

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

20

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

25

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

30

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

35

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

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

40

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

5 <210> 164

<211> 120

<212> PRT

10

<213> Artificial

15 <400> 164

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

20

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

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

Ala Ala Ile Thr Lys Leu Gly Phe Arg Asn Tyr Leu Asp Ser Val Lys
 30 50 55 60

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

35

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

40

Glu Val Gly Pro Gly Trp Ala Pro Ile Leu Phe Asp Ser Trp Gly Gln
 100 105 110

5 Gly Thr Gln Val Thr Val Ser Ser
 115 120

10 <210> 165

<211> 125

<212> PRT

15 <213> Artificial

20 <400> 165

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

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

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

Ala Ala Met Arg Trp Ser Ser Ser Ser Thr Asp Tyr Ala Asp Ser Val
 50 55 60

35

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

40

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

85 90 95

5 Ala Ala Gly Pro Ser Gly Gly Ile Tyr Tyr Lys Ser Pro Gly Asp Tyr
100 105 110

Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser
10 115 120 125

<210> 166

15 $\langle 211 \rangle$ 113

<212> PRT

<213> Artificial

20

<400> 166

25 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 Ile Ile Thr Ser Arg Tyr
30 20 25 30

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

35

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

40

[illegible]

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

5 Lys Gly Arg Phe Thr Ile Ser Lys Asp His 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
10 85 90 95

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

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

20

<210> 168

$\langle 211 \rangle$ 113

25 <212> PRT

<213> Artificial

30

<400> 168

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

35

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Ile Thr Ser Arg Tyr

20 25 30

40

392

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

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

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
 10 65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys
 85 90 95
 15

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

20
 Ser

25 <210> 169

<211> 130

<212> PRT

30

<213> Artificial

35 <400> 169

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

40

[illegible]

<400> 170

5 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 Ala Thr Ser Gly Arg Thr Phe Thr Met Asp
10 20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45
15

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

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

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

Ala Ala Arg Pro Asp Tyr Thr Leu Gly Thr Ser Ser Tyr Asp Tyr Asp
30 100 105 110

Ser Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120
35

<210> 171

<211> 124

40

<212> PRT

<213> Artificial

5

<400> 171

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Tyr
 20 25 30
 15

Tyr Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
 35 40 45
 20

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
 65 70 75 80
 25

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 30

Ala Ala Ala Pro Arg Tyr Thr Leu Ala Thr Val Thr Tyr Asp Tyr Asp
 100 105 110
 35

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120
 40

<210> 172

<211> 124

5 <212> PRT

<213> Artificial

10

<400> 172

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

15

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

20

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

25

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

30

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

35

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

Ala Ala Arg Pro Asp Tyr Tyr Ile Ser Ile Asn Pro Val Ala Tyr Pro
100 105 110

40

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

5 <210> 173

<211> 124

<212> PRT

10

<213> Artificial

15 <400> 173

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

20

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

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

Ser Cys Ile Ser Ser Ser Asp Gly Thr Thr Tyr Tyr Glu Asp Ser Val
 30 50 55 60

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

35

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

40

398

Ala Ala Ala Pro Pro Asp Cys Thr Tyr Tyr Pro Ala Thr Pro Ile Tyr
 100 105 110

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

10 <210> 174

<211> 124

<212> PRT

15 <213> Artificial

20 <400> 174

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

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

30 Ala 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 Tyr Ser Ala Asp Ser Val
 50 55 60

35

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

40

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

5 Ala Ala Ala Pro Pro Asp Cys Thr Tyr Tyr Pro Ala Thr Pro Ile Tyr
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
10 115 120

<210> 175

15 $\langle 211 \rangle$ 126

<212> PRT

<213> Artificial

<400> 175

25 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 Ser Phe Asp Asp Tyr
30 20 25 30

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

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

40

400

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

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

10 Ala Ala Gly Gln Gly Leu Leu Arg Ala Gln Ala Leu Arg Trp Glu Ser
100 105 110

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

<210> 176

<211> 129

20 <212> PRT

<213> Artificial

25

<400> 176

30 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

35

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

40

401

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

5 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
10 85 90 95

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

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

20 Ser

25 <210> 177

<211> 122

<212> PRT

30

<213> Artificial

35 <400> 177

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

40

402

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

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

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

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

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

Ala Lys Lys Asp Tyr Ala Val Val Pro Leu Asp Glu Tyr Asp Tyr Trp
100 105 110

25 Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120

30 <210> 178
<211> 126
<212> PRT

35 <213> Artificial

40 <400> 178

[illegible]

<400> 179

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 Phe Ser Phe Asp Asp Tyr
10 20 25 30

Val Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
35 40 45
15

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

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

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

Ala Ala Gly Asn Gly Leu Leu Arg Leu Trp Met Phe His Val Ser Ala
30 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125
35

<210> 180

<211> 126

<212> PRT

<213> Artificial

5

<400> 180

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Asp Asp Tyr
 20 25 30
 15

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

20
 Ser Leu Ile Thr Ser Asp Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

25 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
 30 85 90 95

Ala Ala Ala Gln Gly Leu Leu Leu Leu Ser Leu Trp Val Pro Thr Gln
 100 105 110
 35

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

40

<210> 181

<211> 131

5 <212> PRT

<213> Artificial

10

<400> 181

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

15

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

20

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

25

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

30

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

35

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

Ala Ala Ser Leu Gly Phe Leu Thr Ala Gln Cys Met Gly Val Met Ser
100 105 110

40

407

	Ile Gly Leu Ser Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
	115 120 125
5	Val Ser Ser
	130
	<210> 182
10	<211> 129
	<212> PRT
15	<213> Artificial
	<400> 182
20	Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
	1 5 10 15
25	Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
	20 25 30
	Ala Met Cys Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
30	35 40 45
	Ser Cys Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
	50 55 60
35	Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr
	65 70 75 80
40	

408

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

5 Ala Ala Ala Gln Gly Val Val Ala Gly Ala Ser Leu Val Trp Val Pro
100 105 110

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

Ser

15

<210> 183

<211> 129

20

<212> PRT

<213> Artificial

25

<400> 183

30 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 Asn Phe Asp Asp Tyr
20 25 30

35

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

40

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

5 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
 10 85 90 95

Ala Ala Gly Gln Gly Trp Val Ile Ala Thr Met Thr Ser Phe Arg Ala
 100 105 110
 15

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

20
 Ser

25 <210> 184

<211> 126

<212> PRT

30
 <213> Artificial

35 <400> 184

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

40

[illegible]

411

[illegible]

<212> PRT

<213> Artificial

5

<400> 186

10 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 Ala Ser Gly Gly Thr Phe Thr Lys
 20 25 30
 15

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

20

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

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

 Asn Thr Ala Tyr Leu Glu Met Asn Ser Leu Lys Phe Glu Asp Thr Ala
 30 85 90 95

 Val Tyr Tyr Cys Ala Ala Gly Leu Gly Val Val Arg Thr Leu Ile Arg
 100 105 110
 35

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

40

Ser Ser
130

5 <210> 187

<211> 126

<212> PRT

10 <213> Artificial

15 <400> 187

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

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

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

Ser Leu Ile Ser Ser Asp Asp Gly Ser Thr Tyr Tyr Ala Asp Ser Val
30 50 55 60

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

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

40

414

Ala Ala Ala Gln Gly Leu Leu Leu Leu Ser Leu Trp Val Pro Thr Gln
 100 105 110

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

10 <210> 188

<211> 126

<212> PRT

15 <213> Artificial

20 <400> 188

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

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

30 Ala 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 Tyr Tyr Ala Asp Ser Val
 50 55 60

35

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

40

415

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

5 Ala Ala Ala Gln Gly Leu Val Val Thr Glu Met Phe Val Gly Arg Ser
100 105 110

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

<210> 189

15 $\langle 211 \rangle$ 120

<212> PRT

<213> Artificial

20

<400> 189

25 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 Arg Ser Gly Leu Ser Ile Asn
20 25 30

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

35

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

40

416

	Gly	Arg	Phe	Thr	Ile	Ser	Gly	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu
	65					70					75					80
5	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Asn
					85					90					95	
10	Ala	Leu	Ile	Asp	Tyr	Gly	Leu	Gly	Phe	Pro	Ile	Glu	Tyr	Trp	Gly	Gln
				100					105						110	
15	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser								
			115					120								
	<210>	190														
20	<211>	129														
	<212>	PRT														
	<213>	Artificial														
25																
	<400>	190														
30	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
	1			5						10					15	
35	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Thr	Ser	Gly	Phe	Thr	Phe	Asp	Asp	Tyr
				20					25					30		
40	Ala	Ile	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Gly	Val
			35					40					45			

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

5 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
 10 85 90 95

Ala Ala Gly Gln Gly Trp Val Ile Ala Thr Met Thr Ser Phe Arg Ala
 100 105 110
 15

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

20
 Ser

25 <210> 191

<211> 129

<212> PRT

30
 <213> Artificial

35 <400> 191

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

40

[illegible]

<400> 192

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

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

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

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

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

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

30 Ala Lys Asp Cys Ile Ile Pro Pro Ile Gly Ser Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115
35

<210> 193

<211> 126

40

<212> PRT

<213> Artificial

5

<400> 193

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30
 15

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

20
 Ser Trp Ile Ser Ser Ser Asp Lys Asp Thr Tyr Tyr Ala Asp Ser Val
 50 55 60

25 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
 30 85 90 95

Ala Ala Gly Ala Gly Leu Leu Ile Ala Thr Ile Trp Thr Thr Gln Met
 100 105 110
 35

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

40

<210> 194

<211> 129

5 <212> PRT

<213> Artificial

10

<400> 194

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

15

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

20

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

25

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

30

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

35

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

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

40

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

5 Ser

<210> 195

10

<211> 126

<212> PRT

15 <213> Artificial

<400> 195

20

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

25 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
 30 35 40 45

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

35

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

40

423

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

5 Ala Ala Gly Gln Gly Val Leu Arg Leu Trp Val Leu Ser Ser Ser Ser
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 10 115 120 125

<210> 196

15 <211> 129

<212> PRT

<213> Artificial

20

<400> 196

25 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 Gly Thr Phe Thr Lys Gln
 30 20 25 30

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

Ala Val Gln Trp Trp Thr Gly Leu Ser Thr Tyr Ser Ala Glu Tyr Ala
 50 55 60

40

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

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

10 Tyr Tyr Cys Ala Ala Gly Leu Gly Val Val Arg Thr Phe Ile Arg Arg
100 105 110

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

Ser

20

<210> 197

<211> 127

25 <212> PRT

<213> Artificial

30

<400> 197

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

35

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

20 25 30

40

425

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

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

Lys Gly Arg Phe Ala Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
10 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
15

Ala Ala Asp Gln Gly Val Val Ala Tyr Asp Ala Leu Arg Pro Tyr Arg
100 105 110

20 Trp Leu Glu Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

25 <210> 198

<211> 126

<212> PRT

30

<213> Artificial

35 <400> 198

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

40

[illegible]

<212> PRT

<213> Artificial

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<400> 200

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 Gly Thr Leu Asp Asp Tyr
 20 25 30
 15

 Val Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val
 35 40 45
 20

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

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

 Leu Gln Val Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
 30 85 90 95

 Ala Ala Gly Met Gly Val Leu Arg Gln Trp Ala Leu Ser Lys Leu Ser
 100 105 110
 35

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

40

<210> 201

<211> 126

5 <212> PRT

<213> Artificial

10

<400> 201

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

15

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

20

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

25

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

30

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

35

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

Ala Ala Gly Gln Gly Leu Leu Ile Ala Gln Ala Leu Arg Trp Glu Ser
100 105 110

40

430

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

5 <210> 202

<211> 126

<212> PRT

10

<213> Artificial

15 <400> 202

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

20

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

25

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

30

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

35

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

40

431

Ala Ala Thr Gln Gly Leu Thr Ile Ala Thr Met Trp Asn Pro Val Ser
100 105 110

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

10 <210> 203

<211> 122

<212> PRT

15 <213> Artificial

20 <400> 203

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

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

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

35 Ser Thr Ile Tyr Ser Asp Gly Tyr Asn Thr Tyr Tyr Ala Asp 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

40

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

5 Ala Lys Lys Asp Tyr Ala Val Val Pro Leu Asp Glu Tyr Asp Tyr Trp
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser
10 115 120

<210> 204

15 $\langle 211 \rangle$ 121

<212> PRT

<213> Artificial

<400> 204

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

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

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

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

40

433

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

[illegible]

435

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Ser Thr Val Tyr
 10 65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 15

Ala Ala Glu Ala Met Gly Tyr Cys Ser Ala Tyr Gly Ser Phe Glu Gly
 100 105 110
 20

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

25 <210> 207

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 207

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

40

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

5 <210> 208

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 208

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

20

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

25 <210> 209

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 209

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

40

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

5 <210> 210

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 210

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

20

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

25 <210> 211

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 211

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

40

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

5 <210> 212

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 212

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

20

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

25 <210> 213

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 213

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

40

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

5 <210> 214

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 214

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

20

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

25 <210> 215

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 215

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

40

440

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

5 <210> 216

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 216

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

20

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

25 <210> 217

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 217

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

40

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

5 <210> 218

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 218

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

20

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

25 <210> 219

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 219

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

40

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

5 <210> 220

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 220

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

20

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

25 <210> 221

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 221

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

40

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

5 <210> 222

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 222

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

20

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

25 <210> 223

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 223

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

40

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

5 <210> 224

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 224

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

20

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

25 <210> 225

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 225

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

40

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

5 <210> 226

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 226

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

20

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

25 <210> 227

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 227

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

40

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

5 <210> 228

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 228

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

20

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

25 <210> 229

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 229

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

40

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

5 <210> 230

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 230

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

20

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

25 <210> 231

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 231

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

40

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

5 <210> 232

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 232

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

20

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

25 <210> 233

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 233

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

40

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

5 <210> 234

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 234

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

20

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

25 <210> 235

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 235

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

40

450

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

5 <210> 236

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 236

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

20

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

25 <210> 237

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 237

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

40

451

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

5 <210> 238

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 238

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

20

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

25 <210> 239

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 239

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

40

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

5 <210> 240

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 240

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

20

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

25 <210> 241

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 241

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

40

453

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

5 <210> 242

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 242

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

20

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

25 <210> 243

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 243

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

40

454

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

5 <210> 244

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 244

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

20

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

25 <210> 245

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 245

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

40

455

Ser Leu Arg Leu Ser Cys Ala Pro Ser Gly Ser Ile Leu Gln
 20 25 30

5 <210> 246

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 246

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

20

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

25 <210> 247

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 247

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

40

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

5 <210> 248

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 248

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

20

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

25 <210> 249

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 249

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

40

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

5 <210> 250

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 250

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

20

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

25 <210> 251

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 251

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

40

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

5 <210> 252

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 252

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

20

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

25 <210> 253

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 253

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

40

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

5 <210> 254

<211> 30

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10

<213> Artificial

15 <400> 254

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

20

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

25 <210> 255

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 255

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

40

460

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

5 <210> 256

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 256

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

20

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

25 <210> 257

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 257

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

40

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

5 <210> 258

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 258

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

20

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

25 <210> 259

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 259

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

40

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

5 <210> 260

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 260

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

20

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

25 <210> 261

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 261

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

40

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

5 <210> 262

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 262

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

20

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

25 <210> 263

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 263

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

40

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

5 <210> 264

<211> 30

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10

<213> Artificial

15 <400> 264

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

20

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

25 <210> 265

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 265

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

40

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

5 <210> 266

<211> 30

<212> PRT

10

<213> Artificial

15 <400> 266

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

20

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

25 <210> 267

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 267

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

40

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

5 <210> 268

<211> 30

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10

<213> Artificial

15 <400> 268

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

20

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

25 <210> 269

<211> 30

<212> PRT

30

<213> Artificial

35 <400> 269

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

40

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Ile Asp
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Gly

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Gly

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Gly

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

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Gly
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Gly
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1 5 10 15

Gly
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1 5 10 15

5 Gly

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Asp

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Gly

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15

Gly

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1 5 10 15

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Gly

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Asp

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1 5 10 15

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Gly

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Gly

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Gly

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Gly

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Gly

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Gly

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Gly

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Gly

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1 5 10 15

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Gly

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

1 5 10 15

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Gly

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1 5 10 15

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Ser Val Lys Gly

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1 5 10 15

15

Gly

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

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Gly

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Gly

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Gly

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Gly

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Gly

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Gly

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

Gly

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<212> PRT

<213> Artificial

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<400> 523

Ala Ile Ser Trp Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
30 1 5 10 15

Gly

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<211> 17

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<212> PRT

<213> Artificial

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<400> 524

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

Gly

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<210> 525

<211> 17

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<212> PRT

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<400> 525

	Cys	Ile	Ser	Ser	Ser	Asp	Gly	Asp	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
30	1				5					10					15	

Gly

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<211> 17

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<212> PRT

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<400> 526

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

Gly

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<210> 527

<211> 17

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<212> PRT

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<400> 527

	Thr	Ile	Tyr	Ser	Asp	Gly	Tyr	Asn	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
30	1				5					10					15	

Gly

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<400> 528

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

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	Cys	Cys	Ser	Ser	Ser	Asp	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
30	1					5				10					15	

Gly

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

Gly

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<210> 531

<211> 32

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<212> PRT

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<400> 531

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
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Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
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<210> 532

<211> 32

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<212> PRT

<213> Artificial

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<400> 532

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Ala Val
15 20 25 30

<210> 533

<211> 32
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<212> PRT

<213> Artificial

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<400> 533

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Thr Leu Gln
30 1 5 10 15

Met Thr Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala
35 20 25 30

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<211> 32
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Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
10 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 535

<211> 32
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<212> PRT

<213> Artificial

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<400> 535

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

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<211> 32
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Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
10 1 5 10 15

Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 537

<211> 32
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<213> Artificial

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Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

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

Met Asn Ser Leu Asn Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

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<211> 32
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<212> PRT

<213> Artificial

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<400> 539

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

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<211> 32
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<212> PRT

<213> Artificial

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<400> 540

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

Met Asn Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 541

<211> 32
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<212> PRT

<213> Artificial

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<400> 541

Arg Phe Thr Ile Ser Arg Asp Asn Ala Val Asn Thr Ile Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Ala Val
35 20 25 30

<210> 542

<211> 32
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<212> PRT

<213> Artificial

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<400> 542

Arg Phe Thr Cys Ser Arg Asp Asn Ala Lys Asp Thr Val Tyr Leu Gln
10 1 5 10 15

Met Asn Lys Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 543

<211> 32
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<212> PRT

<213> Artificial

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<400> 543

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Ser Leu Gln
30 1 5 10 15

Met Asn Asn Leu Lys Pro Ala Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 544

<211> 32
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<212> PRT

<213> Artificial

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

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<211> 32
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Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 546

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	Arg	Phe	Thr	Ser	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	Gln
10	1				5					10					15	

	Met	Asn	Lys	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Ala
15				20					25					30		

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	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	Gln
30	1				5					10					15	

	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Ala
35				20					25					30		

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<211> 32
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<213> Artificial

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 549

<211> 32
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<212> PRT

<213> Artificial

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<400> 549

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 550

<211> 32
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<212> PRT

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<400> 550

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

Met Asn Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 551

<211> 32
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<400> 551

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 552

<211> 32
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	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	Gln
10	1				5					10					15	

	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Ala
15				20					25					30		

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	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Arg	Asn	Thr	Val	Tyr	Leu	Gln
30	1				5					10					15	

	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Ala
35				20					25					30		

<210> 554

<211> 32
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<212> PRT

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<400> 554

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Ser Cys Ala Val
15 20 25 30

<210> 555

<211> 32
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<213> Artificial

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<400> 555

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Glu Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 556

<211> 32
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<213> Artificial

5

<400> 556

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 557

<211> 32
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<212> PRT

<213> Artificial

25

<400> 557

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Phe Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 558

<211> 32
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<212> PRT

<213> Artificial

5

<400> 558

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Arg
15 20 25 30

<210> 559

<211> 32
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<212> PRT

<213> Artificial

25

<400> 559

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Val Gln
35 20 25 30

<210> 560

<211> 32
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<212> PRT

<213> Artificial

5

<400> 560

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

Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Ser Tyr Val Cys Tyr Ala
15 20 25 30

<210> 561

<211> 32
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<212> PRT

<213> Artificial

25

<400> 561

Arg Phe Thr Ile Ser Arg Asp Asn Phe Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asp Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ser Ala
35 20 25 30

<210> 562

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 562

Arg Phe Thr Ile Phe Arg Asp Asp Ala Lys Asn Thr Val Phe Leu Gln
10 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Val
15 20 25 30

<210> 563

<211> 32
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<212> PRT

<213> Artificial

25

<400> 563

Arg Phe Thr Ile Ser Arg Asp Asp Gly Gln Asn Thr Leu Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Val His
35 20 25 30

<210> 564

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 564

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 565

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 565

Arg Phe Thr Ile Phe Arg Asp Asp Ala Lys Asn Thr Leu Tyr Leu Gln
30 1 5 10 15

Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Arg
35 20 25 30

<210> 566

<211> 32
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<212> PRT

<213> Artificial

5

<400> 566

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

Met Asn Ser Leu Lys Val Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 567

<211> 32
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<212> PRT

<213> Artificial

25

<400> 567

Arg Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Val Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 568

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 568

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 569

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 569

Arg Phe Thr Ile Ser Thr Asp Ser Ala Lys Asn Thr Met Ser Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Glu
35 20 25 30

<210> 570

<211> 32
40

600

<212> PRT

<213> Artificial

5

<400> 570

Arg Phe Thr Met Ser Arg Asp Asn Ala Lys Asn Thr Val Phe Leu Gln
10 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 571

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 571

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Gly Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys Val
35 20 25 30

<210> 572

<211> 32
40

601

<212> PRT

<213> Artificial

5

<400> 572

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Lys Ala
20 25 30
15

<210> 573

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 573

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
20 25 30
35

<210> 574

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 574

Arg Phe Thr Ile Ser Lys Asp His Ala Lys Asn Thr Val Tyr Leu Gln
10 1 5 10 15

Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 575

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 575

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 576

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 576

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 577

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 577

Arg Phe Thr Ile Ser Lys Asp Asn Ala Lys Asn Thr Val Phe Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Asp Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 578

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 578

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Ile Tyr Leu Gln
10 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 579

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 579

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Asn Leu Asn Pro Glu Asp Thr Ala Ala Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 580

<211> 32
40

605

<212> PRT

<213> Artificial

5

<400> 580

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
20 25 30
15

<210> 581

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 581

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
20 25 30
35

<210> 582

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 582

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
10 1 5 10 15

Met Asn Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
15 20 25 30

<210> 583

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 583

Arg Phe Thr Ala Ser Ser Asp Asn Ala Lys Asn Thr Ala Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 584

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 584

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 585

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 585

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 586

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 586

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 587

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 587

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu His
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 588

<211> 32
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<212> PRT

<213> Artificial

5

<400> 588

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 589

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 589

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 590

<211> 32
40

610

<212> PRT

<213> Artificial

5

<400> 590

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

Met Asn Gly Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
20 25 30
15

<210> 591

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 591

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Ala Tyr Leu Glu
30 1 5 10 15

Met Asn Ser Leu Lys Phe Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
20 25 30
35

<210> 592

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 592

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 593

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 593

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 594

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 594

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Ala
15 20 25 30

<210> 595

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 595

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 596

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 596

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 597

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 597

Arg Phe Thr Ile Ser Ser Asp Thr Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asp Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
35 20 25 30

<210> 598

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 598

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

	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Ala
15				20					25					30		

<210> 599

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 599

	Arg	Phe	Thr	Ile	Ser	Thr	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr	Leu	Gln
30	1				5					10					15	

	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Ala
35				20					25					30		

<210> 600

<211> 32
40

615

<212> PRT

<213> Artificial

5

<400> 600

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
20 25 30
15

<210> 601

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 601

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Ala Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Phe Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
20 25 30
35

<210> 602

<211> 32
40

<212> PRT

<213> Artificial

5

<400> 602

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
15 20 25 30

<210> 603

<211> 32
20

<212> PRT

<213> Artificial

25

<400> 603

Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
30 1 5 10 15

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
35 20 25 30

<210> 604

<211> 32
40

<212> PRT

<213> Artificial

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Gln Asn Tyr

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Leu Gly Phe Asp Arg
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Tyr Glu Tyr Asp Tyr
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Ser

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Ala Pro Pro Asp Cys Thr Tyr Tyr Pro Ala Thr Pro Ile Tyr Tyr
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Gly Gln Gly Leu Leu Arg Ala Gln Ala Leu Arg Trp Glu Ser Tyr Asp
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Tyr

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Glu Tyr Asp Tyr
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Lys Asp Tyr Ala Val Val Pro Leu Asp Glu Tyr Asp Tyr
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Gly Gln Gly Leu Leu Thr Ala Gln Ala Leu Arg Trp Glu Ser Tyr Asp
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Tyr

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Gly Asn Gly Leu Leu Arg Leu Trp Met Phe His Val Ser Ala Tyr Asp

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Tyr

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1 5 10 15

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Tyr

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Glu	Tyr	Asp	Tyr
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1 5 10 15

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Glu Tyr Asp Tyr

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Tyr

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Glu Tyr Asp Tyr
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Tyr

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Tyr

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Tyr

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Gly Met Asp Tyr
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10 Tyr

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Glu Val

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Tyr

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Tyr
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Tyr
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Tyr
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Tyr

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680

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Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
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The terms and expressions which have been employed are used as terms of
 description and not of limitation, and there is no intention in the use of such terms
 40 and expressions of excluding any equivalents of the features shown and described or

portions thereof, it being recognized that various modifications are possible within the scope of the invention.

All of the references described herein are incorporated by reference, in particular for the teaching that is referenced hereinabove.