

SEQUENCE LISTING

<110> Copenhagen University
 <120> Cyclic peptide inhibitors of PSD-95 and uses thereof
 <130> P5690EP00
 <160> 457
 <170> PatentIn version 3.5
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<400> 47

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Tyr Thr Gln Pro Gly Gln
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<210> 48

<211> 23

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<223> is D-AA

<400> 48

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1 5 10 15

Arg Val Phe Gln Pro Gly Gln
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<210> 49
<211> 23
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<400> 49

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Tyr Gln Pro Gly Gln
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<210> 50
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<400> 50

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 51
<211> 23
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<400> 51

Thr His Leu Glu Thr Thr Phe Thr Gly Gly Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 52
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<400> 52

Thr His Leu Glu Ser Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 53
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<400> 53

Thr His Leu Glu Thr Glu Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 54
<211> 23
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<400> 54

Thr His Leu Glu Thr Asp Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 55
<211> 23
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<400> 55

Ala His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 56
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<400> 56

Thr Ala Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 57
<211> 23

<212> PRT
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<223> is D-AA

<400> 57

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1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 58
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<223> is D-AA

<400> 58

Thr	His	Leu	Ala	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 59
<211> 23
<212> PRT
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<220>
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<220>
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<222> (21)..(21)
<223> is D-AA

<400> 59

Thr	His	Leu	Glu	Ala	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5					10					15	

Arg Val Thr Gln Pro Gly Gln
20

<210> 60
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<222> (21)..(21)
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<400> 60

Thr His Leu Glu Thr Ala Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 61
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<400> 61

Thr His Leu Glu Thr Thr Ala Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 62
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Thr His Leu Glu Thr Thr Phe Ala Gly Asp Gly Thr Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
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<210> 63

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<212> PRT

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<223> is D-AA

<400> 63

Thr His Leu Glu Thr Thr Phe Thr Ala Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 64

<211> 23

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<222> (21)..(21)

<223> is D-AA

<400> 64

Thr His Leu Glu Thr Thr Phe Thr Gly Ala Gly Thr Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
20

<210> 65

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<400> 65

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 66
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<400> 66

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Ala Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Ala Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 68
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<400> 68

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 69
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<400> 69

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Ala Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 70
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<400> 70

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ala
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 71
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<400> 71

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Ala Val Thr Gln Pro Gly Gln
20

<210> 72
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<400> 72

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1 5 10 15

Arg Ala Thr Gln Pro Gly Gln
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<210> 73
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<400> 73

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Ala Gln Pro Gly Gln
20

<210> 74
<211> 23
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<400> 74

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Ala Pro Gly Gln
20

<210> 75
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<400> 75

Thr His Leu Glu Thr Thr Phe Gly Asp Gly Thr Pro Lys Thr Ile Arg
1 5 10 15

Val Thr Gln Pro Gly Gln
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<210> 76

<211> 19
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<400> 76

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1 5 10 15

Pro Gly Gln

<210> 77
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<400> 77

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Pro Lys Thr Ile Arg
1 5 10 15

Val Thr Gln Pro Gly Gln
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<210> 78
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<400> 78

Thr His Leu Glu Thr Thr Phe Thr Gly Gly Thr Pro Lys Thr Ile Arg
1 5 10 15

Val Thr Gln Pro Gly Gln
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<210> 79
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<400> 79

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Thr Pro Lys Thr Ile Arg
1 5 10 15

Val Thr Gln Pro Gly Gln
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<210> 80
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<400> 80

Thr His Leu Glu Xaa Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 81
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<223> X is Allot

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<223> is D-AA

<400> 81

Thr His Leu Glu Thr Xaa Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 82

<211> 23

<212> PRT

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<222> (21)..(21)

<223> is D-AA

<400> 82

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 83

<211> 23

<212> PRT

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<222> (15)..(15)

<223> X is Allot

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<222> (21)..(21)
<223> is D-AA

<400> 83

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 84
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<223> is D-AA

<400> 84

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 85
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<223> is D-AA

<400> 85

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 86
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<400> 86

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 87
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<400> 87

Thr His Leu Xaa Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 88
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<400> 88

Thr His Leu Glu Xaa Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 89
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<400> 89

Thr His Leu Glu Thr Xaa Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 90
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<400> 90

Thr His Leu Glu Thr Thr Xaa Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 91
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<400> 91

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 92
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<223> is D-AA

<400> 92

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 93

<211> 23

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<222> (21)..(21)

<223> is D-AA

<400> 93

Thr His Leu Glu Thr Thr Phe Thr Gly Xaa Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 94

<211> 23

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<223> X is N-Me-G

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<222> (21)..(21)

<223> is D-AA

<400> 94

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Xaa Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 95

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<223> X is N-Me-T

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<222> (21)..(21)

<223> is D-AA

<400> 95

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Xaa Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 96

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<223> is D-AA

<400> 96

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Xaa Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln

<210> 97
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<400> 97

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 1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 98
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<400> 98

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 1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 99
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<400> 99

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Xaa Val Thr Gln Pro Gly Gln
20

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<400> 100

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1 5 10 15

Arg Xaa Thr Gln Pro Gly Gln
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<400> 101

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1 5 10 15

Arg Val Xaa Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Xaa Pro Gly Gln
20

<210> 103
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<400> 103

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 104

<211> 23

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<400> 104

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Arg Val Thr Gln Pro Gly Gln
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<210> 105

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Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

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1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

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<400> 166

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Arg Val Thr Gln Pro Gly Gln

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Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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<400> 211

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 212
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<400> 212

Thr	His	Leu	Glu	Thr	Thr	Xaa	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
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Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 213
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<400> 213

Thr	His	Leu	Glu	Thr	Thr	Xaa	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 214
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<400> 214

Thr His Leu Glu Thr Glu Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
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<210> 215

<211> 23

<212> PRT

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<223> is D-AA

<400> 215

Thr His Leu Glu Thr Asp Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
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<210> 216

<211> 23

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<223> X is Cysteic Acid

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<223> is D-AA

<400> 216

Thr His Leu Glu Thr Xaa Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 217

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<223> is D-AA

<400> 217

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Arg Val Thr Gln Pro Gly Gln
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<210> 218
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<223> is D-AA

<400> 218

Thr His Leu Glu Thr Glu Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 219
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<400> 219

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 220
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<400> 220

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Arg Val Thr Gln Pro Gly Gln
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<400> 221

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Arg Val Thr Gln Pro Gly Gln
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<400> 222

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Arg Val Thr Gln Pro Gly Gln
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<223> is D-AA

<400> 223

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<223> X is Glu(OA11)

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<223> is D-AA

<400> 224

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Arg Val Thr Gln Pro Gly Gln
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<210> 225
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<223> X is Orn

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<223> is D-AA

<400> 225

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 226

<211> 23
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<223> is D-AA

<400> 226

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 227
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<223> is D-AA

<400> 227

Thr His Leu Asp Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 228
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<223> is D-AA

<400> 228

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 229
<211> 23
<212> PRT
<213> Artificial Sequence

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<400> 229

Thr His Leu Asp Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 230
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<222> (21)..(21)
<223> is D-AA

<400> 230

Thr His Leu Gln Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 231
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<223> X is HomoGln

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<223> is D-AA

<400> 231

Thr His Leu Xaa Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 232
<211> 23
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<223> X is HomoSer

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<400> 232

Thr His Leu Xaa Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 233
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<213> Artificial Sequence

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<223> X is HomoCha

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<222> (21)..(21)

<223> is D-AA

<400> 233

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 234

<211> 23

<212> PRT

<213> Artificial Sequence

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<222> (3)..(3)

<223> X is Cha

<400> 234

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 235

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<223> X is D-Orn

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<223> is D-AA

<400> 235

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 236
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<223> X is HomoLeu

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<223> is D-AA

<400> 236

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 237
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<223> X is NLeu

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<400> 237

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile

1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 238
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<400> 238

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 239
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<222> (21)..(21)
<223> is D-AA

<400> 239

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 240
<211> 23
<212> PRT
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<223> X is Abu

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<223> is D-AA

<400> 240

Thr	His	Xaa	Glu	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 241
<211> 23
<212> PRT
<213> Artificial Sequence

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<400> 241

Thr	His	Val	Glu	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 242
<211> 23
<212> PRT
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<223> X is NVa

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<222> (21)..(21)

<223> is D-AA

<400> 242

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 243

<211> 23

<212> PRT

<213> Artificial Sequence

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<222> (3)..(3)

<223> X is Tle

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<222> (21)..(21)

<223> is D-AA

<400> 243

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 244

<211> 23

<212> PRT

<213> Artificial Sequence

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<222> (3)..(3)

<223> is D-AA

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<222> (21)..(21)

<223> is D-AA

<400> 244

Thr His Val Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 245

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<223> X is D-HomoCha

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<222> (21)..(21)

<223> is D-AA

<400> 245

Thr His Xaa Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 246

<211> 23

<212> PRT

<213> Artificial Sequence

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<222> (21)..(21)

<223> is D-AA

<400> 246

Thr His Ile Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 247

<211> 23

<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> X is Phe-4-CH₂NH₂

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 247

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 248
<211> 23
<212> PRT
<213> Artificial Sequence

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<220>
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<222> (2)..(2)
<223> X is Phe-3-CH₂NH₂

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<222> (21)..(21)
<223> is D-AA

<400> 248

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 249
<211> 23
<212> PRT
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<223> X is Phe-4-NH2

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<222> (21)..(21)
<223> is D-AA

<400> 249

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 250
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<222> (2)..(2)
<223> X is Phe-4-N3

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<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 250

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 251
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (2)..(2)
<223> X is PyA-3

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 251

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 252
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<223> X is PyA-4

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<222> (21)..(21)
<223> is D-AA

<400> 252

Thr Pro Tyr Ala Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys
1 5 10 15

Thr Ile Arg Val Thr Gln Pro Gly Gln
20 25

<210> 253
<211> 23
<212> PRT
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<223> is D-AA

<400> 253

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 254
<211> 23
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<213> Artificial Sequence

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<223> X is Cha

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<223> is D-AA

<400> 254

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 255
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<212> PRT
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<223> X is Thi

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<222> (21)..(21)
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<400> 255

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 256

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

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<223> is D-AA

<400> 256

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 257
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<222> (2)..(2)
<223> X is His-3Me

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<222> (21)..(21)
<223> is D-AA

<400> 257

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 258
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 258

Thr Lys Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 259
<211> 23
<212> PRT
<213> Artificial Sequence

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<223> X is HomoCit

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 259

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 260
<211> 23
<212> PRT
<213> Artificial Sequence

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<222> (21)..(21)
<223> is D-AA

<400> 260

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 261
<211> 23
<212> PRT
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<222> (21)..(21)
<223> is D-AA

<400> 261

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 262
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 262

Thr Arg Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 263
<211> 23
<212> PRT

<213> Artificial Sequence

<220>

<223> cyclized peptide

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 263

Thr	Tyr	Leu	Glu	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5				10						15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 264

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

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<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> X is Apg

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 264

Thr	Xaa	Leu	Glu	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5				10						15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 265

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclized peptide

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> X is HomoArg

<220>

<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 265

Thr Xaa Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 266
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> X is Phe-4-C1

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 266

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 267
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> X is Phe-3-C1

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 267

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile

1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 268
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> X is Phe-2-Cl

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 268

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 269
<211> 23
<212> PRT
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<220>
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<220>
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<222> (1)..(1)
<223> X is D-Phe-4-NH2

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 269

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 270
<211> 23
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<220>
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<220>
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<222> (1)..(1)
<223> X is HomoPhe

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 270

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 271
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 271

Lys His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 272
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> is D-AA

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 272

His His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 273

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclized peptide

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> X is Phe-4-NH2

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 273

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 274

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

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<220>

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<222> (1)..(1)

<223> X is AlloThr

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 274

Xaa His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 275

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

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<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> is D-AA

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 275

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 276

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclized peptide

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 276

Arg His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 277

<211> 23

<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (21)..(21)
<223> is D-AA

<400> 277

Phe	His	Leu	Glu	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 278
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 278

Tyr	His	Leu	Glu	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 279
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (12)..(12)
<223> X is HomoSer

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> X is HomoSer

<400> 279

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Xaa Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 280

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

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<220>

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<222> (12)..(12)

<223> X is HomoGln

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 280

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Xaa Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 281

<211> 23

<212> PRT

<213> Artificial Sequence

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<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> X is Glu(OAll)

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 281

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Xaa Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln

<210> 282
 <211> 23
 <212> PRT
 <213> Artificial Sequence

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 <223> is D-AA

<220>
 <221> MISC_FEATURE
 <222> (21)..(21)
 <223> is D-AA

<400> 282

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
 1 5 10 15

Arg Val Thr Gln Pro Gly Gln
 20

<210> 283
 <211> 23
 <212> PRT
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<220>
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 <222> (21)..(21)
 <223> is D-AA

<400> 283

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Asp Pro Lys Thr Ile
 1 5 10 15

Arg Val Thr Gln Pro Gly Gln
 20

<210> 284
 <211> 23
 <212> PRT
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<223> is D-AA

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 284

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Asp Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 285
<211> 23
<212> PRT
<213> Artificial Sequence

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<222> (12)..(12)
<223> X is Cysteic acid

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 285

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Xaa Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 286
<211> 23
<212> PRT
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<223> X is Api

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 286

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Xaa Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 287
<211> 23
<212> PRT
<213> Artificial Sequence

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<220>
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<222> (12)..(12)
<223> X is AlloThr

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 287

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Xaa Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 288
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 288

Thr His Leu Glu Thr Thr Phe Tyr Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 289
<211> 23
<212> PRT
<213> Artificial Sequence

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<220>
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<222> (8)..(8)
<223> is D-AA

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 289

Thr His Leu Glu Thr Thr Phe Tyr Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 290
<211> 23
<212> PRT
<213> Artificial Sequence

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<223> is D-AA

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 290

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 291
<211> 24
<212> PRT
<213> Artificial Sequence

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<223> cyclized peptide

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> X is Naphtoic acid

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 291

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln Cys
20

<210> 292

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclized peptide

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> X is Nal2

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-AA

<400> 292

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 293

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclized peptide

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> X is Nal1

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 293

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 294
<211> 23
<212> PRT
<213> Artificial Sequence

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<222> (8)..(8)
<223> X is IndaG

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 294

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 295
<211> 23
<212> PRT
<213> Artificial Sequence

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<222> (8)..(8)
<223> X is HomoCha

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<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 295

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 296
<211> 23
<212> PRT
<213> Artificial Sequence

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<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X is Phe-4-NH2

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 296

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 297
<211> 23
<212> PRT
<213> Artificial Sequence

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<222> (8)..(8)
<223> X is Dap

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 297

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 298
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (8)..(8)
<223> X is HomoPhe

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 298

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 299
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 299

Thr His Leu Glu Thr Thr Phe His Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 300
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>

<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 300

Thr His Leu Glu Thr Thr Phe Phe Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 301
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
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<222> (8)..(8)
<223> is D-AA

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 301

Thr His Leu Glu Thr Thr Phe Phe Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 302
<211> 23
<212> PRT
<213> Artificial Sequence

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<220>
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<222> (8)..(8)
<223> X is D-HomoCha

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 302

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile

1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 303
<211> 23
<212> PRT
<213> Artificial Sequence

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<222> (8)..(8)
<223> X is D-Dap

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 303

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 304
<211> 23
<212> PRT
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<220>
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<220>
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<222> (8)..(8)
<223> X is D-Cit

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 304

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 305
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (8)..(8)
<223> X is D-Cha

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 305

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 306
<211> 23
<212> PRT
<213> Artificial Sequence

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<220>
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<222> (8)..(8)
<223> X is D-Tyr(Et)

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 306

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 307
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X is Cit

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 307

Thr	His	Leu	Glu	Thr	Thr	Phe	Xaa	Gly	Asp	Gly	Glu	Pro	Lys	Thr	Ile
1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 308
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X is Cha

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 308

Thr	His	Leu	Glu	Thr	Thr	Phe	Xaa	Gly	Asp	Gly	Glu	Pro	Lys	Thr	Ile
1				5					10					15	

Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

<210> 309
<211> 23
<212> PRT
<213> Artificial Sequence

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<223> cyclized peptide

<220>
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<222> (8)..(8)
<223> X is BIP

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 309

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 310
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X is AllThr

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 310

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 311
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<222> (8)..(8)
<223> X is Aic

<220>
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<222> (21)..(21)
<223> is D-AA

<400> 311

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 312
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X is Phe-2-Me

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 312

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 313
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X is D-Phe-2-(3,4Cl)

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 313

Thr His Leu Glu Thr Thr Phe Xaa Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 314
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X is Trp-2-Me

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-AA

<400> 314

Thr	His	Leu	Glu	Thr	Thr	Phe	Xaa	Gly	Asp	Gly	Glu	Pro	Lys	Thr	Ile
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Arg	Val	Thr	Gln	Pro	Gly	Gln
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<400> 315

Thr	His	Leu	Glu	Thr	Thr	Phe	Trp	Gly	Asp	Gly	Glu	Pro	Lys	Thr	Ile
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Arg	Val	Thr	Gln	Pro	Gly	Gln
			20			

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<400> 316

Thr His Leu Glu Thr Glu Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<400> 317

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 318

<211> 23

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Arg Val Thr Gln Pro Gly Gln
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Thr His Leu Glu Thr Asp Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<400> 320

Thr His Leu Glu Thr Xaa Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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<400> 322

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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Arg His Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<400> 328

Xaa His Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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<400> 336

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Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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Thr His Val Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<400> 342

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<400> 344

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<400> 350

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<223> is D-AA

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 352

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<400> 353

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 354

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 355

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<400> 355

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<400> 356

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

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<400> 357

Thr Lys Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 358
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<400> 358

Thr Lys Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 359

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<400> 359

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
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<400> 360

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
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<400> 361

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 362
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<400> 362

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 363
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<222> (2)..(2)

<223> X is His-1Me

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<400> 363

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
20

<210> 364

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<400> 364

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
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<210> 365

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<223> X is PyA-4

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<400> 365

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
20

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<223> X is Phe-4-N3

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<400> 366

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
20

<210> 367
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<400> 367

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Xaa Glu Pro Lys Thr Ile
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Arg Val Thr Gln Pro Gly Gln
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<222> (21)..(21)

<223> is D-AA

<400> 368

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<223> X is R(Me)

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<400> 369

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Arg Val Thr Gln Pro Gly Gln
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<400> 370

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<223> is D-AA

<400> 372

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Arg Val Thr Gln Pro Gly Gln
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<210> 373

<211> 23

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<223> is D-AA

<400> 373

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1 5 10 15

Arg Val Thr Gln Pro Gly Gln
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<210> 374

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<223> is D-AA

<400> 374

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Arg Val Thr Gln Pro Gly Gln
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<400> 375

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Arg Val Thr Gln Pro Gly Gln
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<210> 376
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<223> X is HomoCit

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Arg Val Thr Gln Pro Gly Gln
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<400> 381

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Arg Val Thr Gln Pro Gly Gln
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<400> 383

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<400> 384

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<223> is D-AA

<400> 387

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Arg Val Thr Gln Pro Gly Gln
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<400> 388

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<400> 389

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<400> 392

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Arg Val Thr Gln Pro Gly Gln
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<400> 393

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Arg Val Thr Gln Pro Gly Gln
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<400> 394

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Arg Val Thr Gln Pro Gly Gln
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<400> 402

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<210> 403
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<400> 403

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Arg Val Thr Gln Pro Gly Gln
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<400> 404

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Arg Val Thr Gln Pro Gly Gln
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Arg Val Thr Gln Pro Gly Gln
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<210> 406
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Arg Val Thr Gln Pro Gly Gln
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<210> 408
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Arg Val Thr Gln Pro Gly Gln
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1 5 10 15

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<210> 411
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<210> 412
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Arg Val Thr Gln Pro Gly Gln
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<210> 413
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Arg Val Thr Gln Pro Gly Gln
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<400> 414

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Arg Val Thr Gln Pro Gly Gln
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<210> 415
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<400> 415

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<210> 416
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<212> PRT
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<220>
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<400> 416

Thr His Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
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Arg Val Thr Gln
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<210> 417
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<220>
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<400> 417

Thr His Leu Glu Thr Thr Phe Gly Asp Gly Glu Pro Lys Thr Ile Arg
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Val Thr Gln

<210> 418
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<212> PRT
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<220>
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<400> 418

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Thr Ile Arg Val Thr Gln
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<210> 419
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<212> PRT
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<220>
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<400> 419

Thr His Met Glu Leu Glu Thr Thr Phe Gly Asp Gly Glu Pro Lys Thr
1 5 10 15

Ile Arg Val Thr Gln
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<210> 420
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<400> 420

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Arg Val Thr Gln Pro Gly Glu
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<210> 421
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<400> 421

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Val Thr Gln Pro Gly Glu
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<210> 422

<211> 23
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<213> Artificial Sequence

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<220>
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<222> (2)..(2)
<223> X is H-3Me

<220>
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<222> (21)..(21)
<223> is D-proline

<400> 422

Thr Xaa Leu Glu Thr Thr Phe Trp Gly Asp Gly Glu Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Glu
20

<210> 423
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
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<223> X is H-3Me

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> is D-proline

<400> 423

Thr Xaa Leu Glu Thr Thr Phe Gly Asp Gly Glu Pro Lys Thr Ile Arg
1 5 10 15

Val Thr Gln Pro Gly Glu
20

<210> 424
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (14)..(14)
<223> X is K-CA

<220>
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<223> is D-proline

<400> 424

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Xaa Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Gln
20

<210> 425
<211> 23
<212> PRT
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<220>
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<220>
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<400> 425

Cys Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr
1 5 10 15

Ile Arg Val Thr Gln Pro Gly
20

<210> 426
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<400> 426

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln
20

<210> 427
<211> 23

<212> PRT
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<220>
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<220>
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<223> X is Ac-T

<220>
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<222> (21)..(21)
<223> is D-proline

<400> 427

Xaa	His	Leu	Glu	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5				10						15	

Arg	Val	Thr	Gln	Pro	Gly	Cys
			20			

<210> 428
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-proline

<400> 428

Thr	His	Leu	Glu	Thr	Thr	Phe	Thr	Gly	Asp	Gly	Thr	Pro	Lys	Thr	Ile
1				5				10						15	

Arg	Val	Thr	Gln	Pro	Gly	Glu
			20			

<210> 429
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> cyclized peptide

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> is D-proline

<400> 429

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Asp
20

<210> 430

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> cyclized peptide

<220>

<221> MISC_FEATURE

<222> (21)..(21)

<223> is D-proline

<400> 430

Thr His Leu Glu Thr Thr Phe Thr Gly Asp Gly Thr Pro Lys Thr Ile
1 5 10 15

Arg Val Thr Gln Pro Gly Glu
20

<210> 431

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 431

Leu Glu Thr Thr Phe
1 5

<210> 432

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic peptide

<400> 432

Lys Leu Ser Ser Ile Glu Ser Asp Val
1 5

<210> 433

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> markush structure

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> X is T, S, D or E

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> X is F, F-2-Br, F-2-Cl or F-3-F

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> X is W, NaI or absent

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> X is D or N-Me-D

<220>

<221> MISC_FEATURE

<222> (9)..(9)

<223> X is G, A or P

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> X is E or D

<400> 433

Leu Glu Thr Xaa Xaa Xaa Gly Xaa Xaa Xaa

1 5 10

<210> 434

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<220>

<221> misc_feature

<222> (1)..(17)

<223> K165A forward

<400> 434

ctgatcgcgg gcccgaa

17

<210> 435

<211> 24

<212> DNA

<213> Artificial Sequence

<220>
 <223> primer

<220>
 <221> misc_feature
 <222> (1)..(24)
 <223> K165A reverse

<400> 435
 tttgatttcc atcacttttt ccgc 24

<210> 436
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<220>
 <221> misc_feature
 <222> (1)..(16)
 <223> K168A forward

<400> 436
 cccggcgggc ctgggc 16

<210> 437
 <211> 21
 <212> DNA
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<220>
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<220>
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 <222> (1)..(21)
 <223> K168A reverse

<400> 437
 cctttgatca gtttgatttc c 21

<210> 438
 <211> 22
 <212> DNA
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<220>
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<220>
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 <222> (1)..(22)
 <223> K193A forward

<400> 438
 gtgaccgcga ttattgaagg cg 22

<210> 439
<211> 21
<212> DNA
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<220>
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<220>
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<222> (1)..(21)
<223> K193A reverse

<400> 439
ataaatgctg ttatcgcccg g

21

<210> 440
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> misc_feature
<222> (1)..(20)
<223> H225A forward

<400> 440
gatgtgatgg cggaagatgc

20

<210> 441
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<220>
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<222> (1)..(19)
<223> H225A reverse

<400> 441
ttccaggccc acgctgttc

19

<210> 442
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(20)
 <223> K233A forward

 <400> 442
 gcgctggcga acacctatga 20

 <210> 443
 <211> 20
 <212> DNA
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 <220>
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 <220>
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 <222> (1)..(20)
 <223> K233A reverse

 <400> 443
 cgccaccgca tcttcattgca 20

 <210> 444
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <220>
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 <222> (1)..(20)
 <223> F172I forward

 <400> 444
 ctgggcatta gcattgcggg 20

 <210> 445
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <220>
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 <222> (1)..(21)
 <223> F172I reverse

 <400> 445
 gcctttcggg cctttgatca g 21

 <210> 446
 <211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<220>
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<222> (1)..(20)
<223> S173A forward

<400> 446
gctttgcgat tgcgggcggt 20

<210> 447
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<220>
<221> misc_feature
<222> (1)..(22)
<223> S173A reverse

<400> 447
ccaggccttt cgggcctttg at 22

<210> 448
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<220>
<221> misc_feature
<222> (1)..(33)
<223> T192A forward

<400> 448
catttatgtg gcgaaaatta ttgaaggcgg tgc 33

<210> 449
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<220>
<221> misc_feature
<222> (1)..(27)
<223> T192A reverse

<400> 449 ctgttatcgc ccggaatatg ctggttg	27
<210> 450 <211> 21 <212> DNA <213> Artificial Sequence	
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<220> <221> misc_feature <222> (1)..(21) <223> V229A forward	
<400> 450 catgaagatg cggcagcggc g	21
<210> 451 <211> 23 <212> DNA <213> Artificial Sequence	
<220> <223> primer	
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<400> 451 catcacatct tccaggccca cgc	23
<210> 452 <211> 22 <212> DNA <213> Artificial Sequence	
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<220> <221> misc_feature <222> (1)..(22) <223> N180A forward	
<400> 452 ggtgtgggcg cgcagcatat tc	22
<210> 453 <211> 23 <212> DNA <213> Artificial Sequence	
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<223> primer

<220>

<221> misc_feature

<222> (1)..(23)

<223> N180A reverse

<400> 453

gcccgcgaatg ctaaagccca ggc

23

<210> 454

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<220>

<221> misc_feature

<222> (1)..(21)

<223> E226A forward

<400> 454

gtgatgcatg cggatgcggt g

21

<210> 455

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<220>

<221> misc_feature

<222> (1)..(22)

<223> E226A reverse

<400> 455

atcttccagg cccacgctgt tc

22

<210> 456

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<220>

<221> misc_feature

<222> (1)..(20)

<223> F172A forward

<400> 456

ctgggcgcga gcattgcggg

20

<210> 457
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<222> (1)..(21)
<223> F172A reverse

<400> 457
gcctttcggg cctttgatca g

21