

SEQUENCE LISTING

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<120> Peptides for treatment of diabetes

<130> P4428PC00

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<170> PatentIn version 3.5

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

Ser Gln Lys Gln Asn Leu Leu Ala Pro Gln Thr Leu Pro Ser Lys Ser
50 55 60

Asn Glu Ser His Asp His Met Asp Asp Met Asp Asp Glu Asp Asp Asp
65 70 75 80

Asp His Val Asp Ser Gln Asp Ser Ile Asp Ser Asn Asp Ser Asp Asp
 85 90 95

Val Asp Asp Thr Asp Asp Ser His Gln Ser Asp Glu Ser His His Ser
 100 105 110

Asp Glu Ser Asp Glu Leu Val Thr Asp Phe Pro Thr Asp Leu Pro Ala
 115 120 125

Thr Glu Val Phe Thr Pro Val Val Pro Thr Val Asp Thr Tyr Asp Gly
 130 135 140

Arg Gly Asp Ser Val Val Tyr Gly Leu Arg Ser Lys Ser Lys Lys Phe
 145 150 155 160

Arg Arg Pro Asp Ile Gln Tyr Pro Asp Ala Thr Asp Glu Asp Ile Thr
 165 170 175

Ser His Met Glu Ser Glu Glu Leu Asn Gly Ala Tyr Lys Ala Ile Pro
 180 185 190

Val Ala Gln Asp Leu Asn Ala Pro Ser Asp Trp Asp Ser Arg Gly Lys
 195 200 205

Asp Ser Tyr Glu Thr Ser Gln Leu Asp Asp Gln Ser Ala Glu Thr His
 210 215 220

Ser His Lys Gln Ser Arg Leu Tyr Lys Arg Lys Ala Asn Asp Glu Ser
 225 230 235 240

Asn Glu His Ser Asp Val Ile Asp Ser Gln Glu Leu Ser Lys Val Ser
 245 250 255

Arg Glu Phe His Ser His Glu Phe His Ser His Glu Asp Met Leu Val
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Val Asp Pro Lys Ser Lys Glu Glu Asp Lys His Leu Lys Phe Arg Ile
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Ser His Glu Leu Asp Ser Ala Ser Ser Glu Val Asn
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Val Pro Asn Gly Asp Ile Ser Leu Ala Tyr Gly Leu Arg
1 5 10

<210> 77
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<223> peptide

<400> 77

Pro Asn Gly Asp Ile Ser Leu Ala Tyr Gly Leu Arg Ser
1 5 10

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<211> 12
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<222> (1)..(12)
<223> peptide

<400> 78

Val Asp Val Pro Asn Gly Asp Ile Ser Leu Ala Tyr
1 5 10

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<211> 12
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<400> 79

Asp Val Pro Asn Gly Asp Ile Ser Leu Ala Tyr Gly
1 5 10

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<400> 80

Val Pro Asn Gly Asp Ile Ser Leu Ala Tyr Gly Leu
1 5 10

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<222> (1)..(12)

<223> peptide

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Asn Gly Asp Ile Ser Leu Ala Tyr Gly Leu Arg Ser
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<211> 11

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<222> (1)..(11)

<223> peptide

<400> 83

Val Asp Val Pro Asn Gly Asp Ile Ser Leu Ala
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<210> 84

<211> 11

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<223> peptide

<400> 84

Asp Val Pro Asn Gly Asp Ile Ser Leu Ala Tyr
1 5 10

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<400> 85

Val Pro Asn Gly Asp Ile Ser Leu Ala Tyr Gly
1 5 10

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<400> 86

Pro Asn Gly Asp Ile Ser Leu Ala Tyr Gly Leu
1 5 10

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<400> 87

Asn Gly Asp Ile Ser Leu Ala Tyr Gly Leu Arg
1 5 10

<210> 88
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<400> 88

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

<210> 89
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<222> (1)..(10)
<223> peptide

<400> 89

Val Asp Val Pro Asn Gly Asp Ile Ser Leu
1 5 10

<210> 90
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<223> peptide

<400> 90

Asp Val Pro Asn Gly Asp Ile Ser Leu Ala
1 5 10

<210> 91
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<222> (1)..(10)
<223> peptide

<400> 91

Val	Pro	Asn	Gly	Asp	Ile	Ser	Leu	Ala	Tyr
1				5					10

<210> 92
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<400> 92

Pro	Asn	Gly	Asp	Ile	Ser	Leu	Ala	Tyr	Gly
1				5					10

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<223> peptide

<400> 93

Asn	Gly	Asp	Ile	Ser	Leu	Ala	Tyr	Gly	Leu
1				5					10

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<223> peptide, FOL-009

<400> 94

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

<210> 95
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<222> (1)..(10)
<223> peptide

<400> 95

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

<210> 96
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<223> peptide, FOL-019

<400> 96

Val Asp Val Pro Asn Gly Asp Ile Ser
1 5

<210> 97
<211> 9
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<223> peptide

<400> 97

Asp Val Pro Asn Gly Asp Ile Ser Leu
1 5

<210> 98
<211> 9
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<223> peptide

<400> 98

Val Pro Asn Gly Asp Ile Ser Leu Ala
1 5

<210> 99
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<223> peptide

<400> 99

Pro Asn Gly Asp Ile Ser Leu Ala Tyr
1 5

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<222> (1)..(9)
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<400> 100

Asn Gly Asp Ile Ser Leu Ala Tyr Gly
1 5

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<400> 101

Gly Asp Ile Ser Leu Ala Tyr Gly Leu
1 5

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<400> 102

Asp Ile Ser Leu Ala Tyr Gly Leu Arg
1 5

<210> 103
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<400> 103

Ile Ser Leu Ala Tyr Gly Leu Arg Ser
1 5

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<400> 104

Val Asp Val Pro Asn Gly Asp Ile
1 5

<210> 105
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<400> 105

Asp Val Pro Asn Gly Asp Ile Ser
1 5

<210> 106
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<400> 106

Val Pro Asn Gly Asp Ile Ser Leu
1 5

<210> 107
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<400> 107

Pro Asn Gly Asp Ile Ser Leu Ala
1 5

<210> 108
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<223> peptide

<400> 108

Asn Gly Asp Ile Ser Leu Ala Tyr
1 5

<210> 109
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<222> (1)..(8)
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<400> 109

Gly Asp Ile Ser Leu Ala Tyr Gly
1 5

<210> 110
<211> 8
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<222> (1)..(8)

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<400> 110

Asp Ile Ser Leu Ala Tyr Gly Leu
1 5

<210> 111

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<223> peptide

<400> 111

Ile Ser Leu Ala Tyr Gly Leu Arg
1 5

<210> 112

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<222> (1)..(7)

<223> peptide

<400> 112

Val Asp Val Pro Asn Gly Asp
1 5

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<400> 113

Asp Val Pro Asn Gly Asp Ile
1 5

<210> 114
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<400> 114

Val Pro Asn Gly Asp Ile Ser
1 5

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<400> 115

Pro Asn Gly Asp Ile Ser Leu
1 5

<210> 116
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<400> 116

Asn Gly Asp Ile Ser Leu Ala
1 5

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<400> 117

Gly Asp Ile Ser Leu Ala Tyr
1 5

<210> 118
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<400> 118

Asp Ile Ser Leu Ala Tyr Gly
1 5

<210> 119
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<400> 119

Ile Ser Leu Ala Tyr Gly Leu
1 5

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<223> peptide

<400> 120

Asp Val Pro Asn Gly Asp
1 5

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<400> 121

Val Pro Asn Gly Asp Ile
1 5

<210> 122
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<222> (1)..(6)
<223> peptide

<400> 122

Pro Asn Gly Asp Ile Ser
1 5

<210> 123
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<222> (1)..(6)
<223> peptide

<400> 123

Asn Gly Asp Ile Ser Leu
1 5

<210> 124
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<400> 124

Gly Asp Ile Ser Leu Ala
1 5

<210> 125
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<400> 125

Asp Ile Ser Leu Ala Tyr
1 5

<210> 126
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<222> (1)..(6)

<223> peptide

<400> 126

Ile Ser Leu Ala Tyr Gly
1 5

<210> 127

<211> 5

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<222> (1)..(5)

<223> peptide

<400> 127

Val Pro Asn Gly Asp
1 5

<210> 128

<211> 5

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<222> (1)..(5)

<223> peptide

<400> 128

Pro Asn Gly Asp Ile
1 5

<210> 129

<211> 5

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<222> (1)..(5)
<223> peptide

<400> 129

Asn Gly Asp Ile Ser
1 5

<210> 130
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<222> (1)..(5)
<223> peptide

<400> 130

Gly Asp Ile Ser Leu
1 5

<210> 131
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<222> (1)..(5)
<223> peptide

<400> 131

Asp Ile Ser Leu Ala
1 5

<210> 132
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<222> (1)..(5)
<223> peptide

<400> 132

Ile Ser Leu Ala Tyr
1 5

<210> 133
<211> 5
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<222> (1)..(5)
<223> peptide

<400> 133

Ser Leu Ala Tyr Gly
1 5

<210> 134
<211> 294
<212> PRT
<213> Mus musculus

<220>
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<222> (1)..(294)
<223> Wildtype murine osteopontin

<400> 134

Met Arg Leu Ala Val Ile Cys Phe Cys Leu Phe Gly Ile Ala Ser Ser
1 5 10 15

Leu Pro Val Lys Val Thr Asp Ser Gly Ser Ser Glu Glu Lys Leu Tyr
20 25 30

Ser Leu His Pro Asp Pro Ile Ala Thr Trp Leu Val Pro Asp Pro Ser
35 40 45

Gln Lys Gln Asn Leu Leu Ala Pro Gln Asn Ala Val Ser Ser Glu Glu
50 55 60

Lys Asp Asp Phe Lys Gln Glu Thr Leu Pro Ser Asn Ser Asn Glu Ser
65 70 75 80

His Asp His Met Asp Asp Asp Asp Asp Asp Asp Asp Asp Asp Gly Asp
85 90 95

His Ala Glu Ser Glu Asp Ser Val Asp Ser Asp Glu Ser Asp Glu Ser
100 105 110

His His Ser Asp Glu Ser Asp Glu Thr Val Thr Ala Ser Thr Gln Ala
115 120 125

Asp Thr Phe Thr Pro Ile Val Pro Thr Val Asp Val Pro Asn Gly Arg
130 135 140

Gly Asp Ser Leu Ala Tyr Gly Leu Arg Ser Lys Ser Arg Ser Phe Gln
145 150 155 160

Val Ser Asp Glu Gln Tyr Pro Asp Ala Thr Asp Glu Asp Leu Thr Ser
165 170 175

His Met Lys Ser Gly Glu Ser Lys Glu Ser Leu Asp Val Ile Pro Val
180 185 190

Ala Gln Leu Leu Ser Met Pro Ser Asp Gln Asp Asn Asn Gly Lys Gly
195 200 205

Ser His Glu Ser Ser Gln Leu Asp Glu Pro Ser Leu Glu Thr His Arg
210 215 220

Leu Glu His Ser Lys Glu Ser Gln Glu Ser Ala Asp Gln Ser Asp Val
225 230 235 240

Ile Asp Ser Gln Ala Ser Ser Lys Ala Ser Leu Glu His Gln Ser His
245 250 255

Lys Phe His Ser His Lys Asp Lys Leu Val Leu Asp Pro Lys Ser Lys
260 265 270

Glu Asp Asp Arg Tyr Leu Lys Phe Arg Ile Ser His Glu Leu Glu Ser
275 280 285

Ser Ser Ser Glu Val Asn
290

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<223> peptide, FOL-001

<400> 135

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

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<222> (1)..(16)
<223> peptide, FOL-014

<400> 136

Lys Pro Leu Ala Glu Ile Asp Ser Ile Glu Leu Ser Tyr Gly Ile Lys
1 5 10 15

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<222> (1)..(16)
<223> peptide, FOL-003

<400> 137

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

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<222> (1)..(15)
<223> peptide, FOL-026

<400> 138

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

<210> 139

<211> 15

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<222> (1)..(15)

<223> peptide, FOL-027

<400> 139

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

<210> 140

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<223> X is C, P or G

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<222> (5)..(5)

<223> X is E or G

<220>

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<222> (6)..(6)

<223> X is C, D or I

<220>

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<222> (7)..(7)

<223> X is D, I, S or G

<220>

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<222> (8)..(8)

<223> X is S, D or G

<220>
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<223> X is E or G

<220>
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<223> X is S or T

<400> 140

Lys Xaa Leu Ala Xaa Xaa Xaa Xaa Ile Xaa Leu Xaa Tyr Gly Ile Lys
1 5 10 15

<210> 141
<211> 16
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<222> (1)..(16)
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<400> 141

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

<210> 142
<211> 8
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<222> (1)..(8)
<223> peptide

<400> 142

Cys Leu Ala Glu Ile Asp Ser Cys
1 5

<210> 143
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<222> (1)..(18)
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<400> 143

Cys	Phe	Lys	Pro	Leu	Ala	Glu	Ile	Asp	Ser	Ile	Glu	Cys	Ser	Tyr	Gly
1				5					10					15	

Ile Lys

<210> 144
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<222> (1)..(16)
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<400> 144

Lys	Pro	Leu	Ala	Glu	Asp	Ile	Ser	Ile	Glu	Leu	Ser	Tyr	Gly	Ile	Lys
1				5					10					15	

<210> 145
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<222> (1)..(16)
<223> peptide

<400> 145

Lys	Pro	Leu	Ala	Glu	Ile	Ser	Asp	Ile	Glu	Leu	Ser	Tyr	Gly	Ile	Lys
1				5					10					15	

<210> 146
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<222> (1)..(16)
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<400> 146

Lys Pro Leu Ala Glu Ile Gly Asp Ile Glu Leu Ser Tyr Gly Ile Lys
1 5 10 15

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<222> (1)..(15)
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Lys Pro Leu Ala Glu Gly Asp Ile Glu Leu Ser Tyr Gly Ile Lys
1 5 10 15

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<400> 148

Lys Pro Leu Ala Glu Ile Glu Leu Ser Tyr Gly Ile Lys
1 5 10

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<222> (1)..(16)
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Lys Pro Leu Ala Glu Ile Asp Ser Ile Glu Leu Thr Tyr Gly Ile Lys
1 5 10 15

<210> 150
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<222> (1)..(16)
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<400> 150

Lys Pro Leu Ala Glu Ile Asp Gly Ile Glu Leu Ser Tyr Gly Ile Lys
1 5 10 15

<210> 151
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<220>
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<222> (1)..(16)
<223> peptide

<400> 151

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

<210> 152
<211> 16
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<222> (1)..(16)
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<400> 152

Lys Pro Leu Ala Glu Ile Gly Ser Ile Glu Leu Ser Tyr Gly Ile Lys
1 5 10 15

<210> 153
<211> 16
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<400> 153

Lys Gly Leu Ala Glu Ile Asp Ser Ile Glu Leu Ser Tyr Gly Ile Lys
1 5 10 15

<210> 154
<211> 16
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<223> peptide

<400> 154

Lys Pro Leu Ala Gly Ile Asp Ser Ile Gly Leu Ser Tyr Gly Ile Lys
1 5 10 15

<210> 155
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<223> peptide

<400> 155

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

<210> 156
<211> 13
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<223> peptide

<400> 156

Cys Phe Lys Pro Leu Ala Glu Ile Asp Ser Ile Glu Cys
1 5 10

<210> 157
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<223> peptide

<400> 157

Val Asp Val Pro Glu Gly Asp Ile Ser Leu Ala Tyr Gly Leu Arg
1 5 10 15

<210> 158
<211> 15
<212> PRT
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<220>
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<222> (1)..(15)
<223> peptide

<400> 158

Leu Asp Gly Leu Val Arg Ala Tyr Asp Asn Ile Ser Pro Val Gly
1 5 10 15

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<211> 14
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<222> (1)..(14)

<223> peptide

<400> 159

Gly Asp Pro Asn Gly Asp Ile Ser Val Val Tyr Gly Leu Arg
1 5 10

<210> 160

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<222> (1)..(15)

<223> peptide

<400> 160

Val Asp Val Pro Asn Gly Asp Ile Ser Leu Ala Tyr Arg Leu Arg
1 5 10 15

<210> 161

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<222> (1)..(15)

<223> peptide

<400> 161

Val Asp Val Pro Glu Gly Asp Ile Ser Leu Ala Tyr Arg Leu Arg
1 5 10 15

<210> 162

<211> 16

<212> PRT

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<220>

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 <223> X is C, P or G

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 <222> (5)..(5)
 <223> X is E or G

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 <222> (6)..(6)
 <223> X is C, I or absent

 <220>
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 <222> (7)..(7)
 <223> X is D, G or absent

 <220>
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 <222> (8)..(8)
 <223> X is S, G or absent

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 <223> X is E or G

 <400> 162

Lys	Xaa	Leu	Ala	Xaa	Xaa	Xaa	Xaa	Ile	Xaa	Leu	Ser	Tyr	Gly	Ile	Lys
1				5					10					15	

<210> 163
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
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 <221> MISC_FEATURE
 <222> (1)..(13)
 <223> peptide

<220>
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 <222> (2)..(2)
 <223> X is C, P or G

<220>
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<222> (5)..(5)
<223> X is E or G

<220>
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<222> (10)..(10)
<223> X is E or G

<400> 163

Lys Xaa Leu Ala Xaa Ile Xaa Leu Ser Tyr Gly Ile Lys
1 5 10

<210> 164
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(15)
<223> peptide

<220>
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<222> (1)..(5)
<223> Z is E or N

<220>
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<222> (5)..(5)
<223> Z is E or N

<220>
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<222> (13)..(13)
<223> Z is R or G

<400> 164

Val Asp Val Pro Glx Gly Asp Ile Ser Leu Ala Tyr Glx Leu Arg
1 5 10 15

<210> 165
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(15)
<223> peptide

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<222> (7)..(7)
<223> Z is D or G

<220>
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<222> (8)..(8)
<223> Z is I or G

<400> 165

Val	Asp	Thr	Tyr	Asp	Gly	Glx	Glx	Ser	Val	Val	Tyr	Gly	Leu	Arg
1				5					10					15

<210> 166
<211> 16
<212> PRT
<213> Artificial Sequence

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<222> (5)..(5)
<223> Z is D or G

<220>
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<222> (6)..(6)
<223> Z is D or G

<220>
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<222> (7)..(7)
<223> Z is I or R

<220>
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<222> (8)..(8)
<223> Z is G or absent

<220>
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<222> (9)..(9)
<223> Z is D or absent

<400> 166

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

<210> 167
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<220>
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<222> (1)..(15)
<223> peptide

<220>
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<222> (2)..(2)
<223> Z is beta D

<400> 167

Val	Glx	Thr	Tyr	Asp	Gly	Asp	Ile	Ser	Val	Val	Tyr	Gly	Leu	Arg
1				5					10					15

<210> 168
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide

<220>
<221> MISC_FEATURE
<222> (1)..(15)
<223> peptide

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Z is beta D

<400> 168

Val	Asp	Thr	Tyr	Glx	Gly	Asp	Ile	Ser	Val	Val	Tyr	Gly	Leu	Arg
1				5					10					15

<210> 169
<211> 15
<212> PRT
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<220>
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<222> (1)..(15)
<223> peptide

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<222> (7)..(7)
<223> Z is beta D

<400> 169

Val	Asp	Thr	Tyr	Asp	Gly	Glx	Ile	Ser	Val	Val	Tyr	Gly	Leu	Arg
1				5					10					15