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<120> Peptides for treatment of diabetes

<130> P4428EP00

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<170> PatentIn version 3.5

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Gly Asp Ile Ser Val
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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

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            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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1   5   10   15

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<400> 76

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

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<400> 77

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

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<400> 78

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

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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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1 5 10

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

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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
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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

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1 5 10

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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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<400> 89

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

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<400> 90

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

<210> 91
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<400> 91

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

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<400> 92

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

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<400> 93

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

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<400> 94

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

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<400> 95

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

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Val Asp Val Pro Asn Gly Asp Ile Ser
1 5

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<400> 97

Asp Val Pro Asn Gly Asp Ile Ser Leu
1   5

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<400> 98

Val Pro Asn Gly Asp Ile Ser Leu Ala
1   5

<210> 99
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<400> 99

Pro Asn Gly Asp Ile Ser Leu Ala Tyr
1   5

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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

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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

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Pro Asn Gly Asp Ile Ser Leu Ala
1 5

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<400> 108

Asn Gly Asp Ile Ser Leu Ala Tyr
1   5

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<400> 109

Gly Asp Ile Ser Leu Ala Tyr Gly
1   5

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<400> 110

Asp Ile Ser Leu Ala Tyr Gly Leu
1   5

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<400> 111

Ile Ser Leu Ala Tyr Gly Leu Arg
1 5

<210> 112
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Val Asp Val Pro Asn Gly Asp
1 5

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<400> 113

Asp Val Pro Asn Gly Asp Ile
1   5

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<400> 114

Val Pro Asn Gly Asp Ile Ser
1   5

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Pro Asn Gly Asp Ile Ser Leu
1   5

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<400> 116

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1   5

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<400> 117

Gly Asp Ile Ser Leu Ala Tyr
1   5

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Asp Ile Ser Leu Ala Tyr Gly
1   5

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<400> 119

Ile Ser Leu Ala Tyr Gly Leu
1   5

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Asp Val Pro Asn Gly Asp
1   5

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<400> 121

Val Pro Asn Gly Asp Ile

1 5

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<223> peptide

<400> 122

Pro Asn Gly Asp Ile Ser
1 5

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<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

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Asp Ile Ser Leu Ala Tyr
1   5

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<400> 126

Ile Ser Leu Ala Tyr Gly
1   5

<210> 127
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<400> 127

Val Pro Asn Gly Asp
1   5

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Pro Asn Gly Asp Ile
1   5

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Asn Gly Asp Ile Ser
1   5

<210> 130
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<400> 130

Gly Asp Ile Ser Leu
1   5

<210> 131
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Asp Ile Ser Leu Ala
1   5

<210> 132
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Ile Ser Leu Ala Tyr
1 5

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<400> 133

Ser Leu Ala Tyr Gly
1 5

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<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

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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
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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
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<210> 136
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Lys Pro Leu Ala Glu Ile Asp Ser Ile Glu Leu Ser Tyr Gly Ile Lys
1   5   10   15

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<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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<400> 138

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

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<400> 139

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

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

<210> 141
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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
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<400> 142

Cys Leu Ala Glu Ile Asp Ser Cys
1 5

<210> 143
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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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<400> 144

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

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

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

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1 5 10 15

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1 5 10 15

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<211> 16
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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)
<223> peptide

<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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<223> peptide

<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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<222> (1)..(16)
<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
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<222> (1)..(16)
<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
<211> 15
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<222> (1)..(15)
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<400> 157

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

<210> 158
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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

<210> 159
<211> 14
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<220>
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<223> peptide

<400> 159

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

<210> 160
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<400> 160

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

<210> 161
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<400> 161

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

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<222> (2)..(2)
<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, 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

<220>
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<222> (10)..(10)
<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
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<223> peptide

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<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> (7)..(7)
<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
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<212> PRT
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<220>
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<223> X is E or N

<220>
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<223> X is R or G

<400> 164

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

<210> 165
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<223> X is D or G

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

<400> 165

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

<210> 166
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<223> X is D or G

<220>
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<223> X is I or R

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

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

<400> 166

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

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

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

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

<400> 167

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

<210> 168
<211> 15
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<223> peptide

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<222> (5)..(5)
<223> X is beta D

<400> 168

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

<210> 169
<211> 15
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<223> X is beta D

<400> 169

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

<210> 170
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<223> peptide

<400> 170

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

<210> 171
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<220>
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<220>
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<222> (1)..(13)
<223> peptide, FOL-056

<400> 171

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

<210> 172
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<220>
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<220>
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<222> (1)..(12)
<223> peptide, FOL-057

<400> 172

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

<210> 173
<211> 11
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<213> Artificial Sequence

<220>

<223> synthetic sequence

<220>
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<222> (1)..(11)
<223> peptide, FOL-058

<400> 173

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

<210> 174
<211> 10
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<220>
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<220>
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<222> (1)..(10)
<223> peptide, FOL-059

<400> 174

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

<210> 175
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<220>
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<220>
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<222> (1)..(9)
<223> peptide, FOL-060

<400> 175

Ser Ile Glu Leu Ser Tyr Gly Ile Lys
1 5

<210> 176
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<220>
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<222> (1)..(8)
<223> peptide

<400> 176

Ile Glu Leu Ser Tyr Gly Ile Lys
1 5

<210> 177
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<223> X is E or G

<220>
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<222> (3)..(3)
<223> X is S or T

<400> 177

Xaa Leu Xaa Tyr Gly Ile Lys
1 5

<210> 178
<211> 9
<212> PRT
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<222> (1)..(1)
<223> X is D or G

<220>
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<223> X is I or G

<220>
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<223> X is V or L

<220>
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<222> (5)..(5)
<223> X is V or A

<400> 178

Xaa Xaa Ser Xaa Xaa Tyr Gly Leu Arg
1   5

<210> 179
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

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

<400> 179

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

<210> 180
<211> 14
<212> PRT
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<220>
<223> synthetic sequence

<220>
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<222> (1)..(14)
<223> peptide

<400> 180

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

<210> 181
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<222> (1)..(13)
<223> peptide

<400> 181

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

<210> 182
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<220>
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<220>
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<222> (1)..(12)

<223> peptide

<400> 182

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

<210> 183
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<220>
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<222> (1)..(11)
<223> peptide

<400> 183

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

<210> 184
<211> 10
<212> PRT
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<220>
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<222> (1)..(10)
<223> peptide

<400> 184

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

<210> 185
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<220>

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<220>
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<223> peptide, FOL-199

<400> 185

Gly Lys Tyr Gly Phe Tyr Thr His Val Phe Arg Leu Lys Lys Trp Ile
1 5 10 15

Gln Lys Val Ile Asp Gln Phe Gly Glu
20 25

<210> 186
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic sequence

<220>
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<222> (1)..(9)
<223> peptide, oxytocin

<400> 186

Cys Tyr Ile Gln Asn Cys Pro Leu Gly
1 5

<210> 187
<211> 37
<212> PRT
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<220>
<223> synthetic sequence

<220>
<221> MISC_FEATURE
<222> (1)..(37)
<223> peptide, LL-37

<400> 187

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


Phe Lys Arg Ile Val Gln Arg Ile Lys Asp Phe Leu Arg Asn Leu Val
            20                  25                  30


Pro Arg Thr Glu Ser
        35
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