

674-121_ST25.txt
SEQUENCE LISTING

<110> BioNTech AG et al.

<120> Peptide mimotopes of claudin 18.2 and uses thereof

<130> 674-121

<160> 75

<170> PatentIn version 3.5

<210> 1

<211> 261

<212> PRT

<213> Homo sapiens

<400> 1

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

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr
20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly
35 40 45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg
50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg
65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val
85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser
100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser
115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val

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130

135

140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly
145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe
165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met
180 185 190

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

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly
210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Ile
225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser
245 250 255

Lys His Asp Tyr Val
260

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<220>
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Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Arg Pro Gly Ala
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Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

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

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

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

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

Thr Leu Thr Val Ser Ser
115

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<213> Artificial Sequence

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

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
20 25 30

Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln
35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr

65 70 75 80

70

75

80

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

85

90

95

Asp Tyr Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile
100 105 110

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105

110

Lys

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<212> PRT

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<223> Linker

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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
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10

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$\langle 213 \rangle$	Artificial Sequence

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Val Glu Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Val Asp
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<212> PRT

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<400> 6

Ser Gly Gly Gly Gly Ser
1 5

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<211> 5
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<213> Artificial Sequence

<220>
<223> Linker

<400> 7

Gly Gly Gly Gly Ser
1 5

<210> 8
<211> 18
<212> PRT
<213> Artificial Sequence

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<400> 8

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

Val Asp

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<211> 20
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<220>
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<400> 9

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

Gly Gly Gly Ser

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 <212> PRT
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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
 1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser
 20 25

<210> 11
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<400> 11

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

Gly Ser

<210> 12
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<220>
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Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15

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Val His Ser Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Arg
20 25 30

Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45

Thr Ser Tyr Trp Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
50 55 60

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

Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
85 90 95

Thr Ala Tyr Met Gln Leu Ser Ser Pro Thr Ser Glu Asp Ser Ala Val
100 105 110

Tyr Tyr Cys Thr Arg Ser Trp Arg Gly Asn Ser Phe Asp Tyr Trp Gly
115 120 125

Gln Gly Thr Thr Leu Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
130 135 140

Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
145 150 155 160

Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
165 170 175

Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
180 185 190

Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
195 200 205

Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
210 215 220

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Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
225 230 235 240

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
245 250 255

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
260 265 270

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
275 280 285

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
290 295 300

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
305 310 315 320

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
325 330 335

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
340 345 350

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
355 360 365

Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
370 375 380

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
385 390 395 400

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
405 410 415

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
420 425 430

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Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
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His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
450 455 460

Pro Gly Lys
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<210> 13
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<400> 13

Met Glu Ser Gln Thr Gln Val Leu Met Ser Leu Leu Phe Trp Val Ser
1 5 10 15

Gly Thr Cys Gly Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Thr
20 25 30

Val Thr Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser
35 40 45

Leu Leu Asn Ser Gly Asn Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln
50 55 60

Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
65 70 75 80

Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
85 90 95

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

Tyr Cys Gln Asn Asp Tyr Ser Tyr Pro Phe Thr Phe Gly Ser Gly Thr

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115

120

125

Lys Leu Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe
 130 135 140

Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys
 145 150 155 160

Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val
 165 170 175

Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln
 180 185 190

Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser
 195 200 205

Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His
 210 215 220

Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235 240

<210> 14
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 <223> Consensus sequence

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 consisting of Gln, His, Tyr, Lys and Met, more preferably an
 amino acid selected from the group consisting of Gln, His and Tyr

<220>
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 <222> (2)..(2)
 <223> Any amino acid, preferably an amino acid selected from the group
 consisting of Pro, Leu, Lys, Tyr, Phe and Arg, more preferably an

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amino acid selected from the group consisting of Pro, Leu, Lys and Tyr

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> Any amino acid, preferably an amino acid selected from the group consisting of Ala, Gly, Asn, Arg, Ser, Lys, Trp, Phe and Tyr, more preferably an amino acid selected from the group consisting of Ala, Gly, Asn, Arg and Ser

<220>

<221> MISC_FEATURE

<222> (5)..(5)

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<223> Any amino acid, preferably an amino acid selected from the group consisting of His, Gly, Lys and Arg, more preferably an amino acid selected from the group consisting of His and Gly

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<223> Any amino acid, preferably an amino acid selected from the group consisting of Thr, Trp, Tyr, Glu, Arg, Val, Ile, Leu, Met, Ala, Phe and Lys, more preferably an amino acid selected from the group consisting of Thr, Trp, Tyr, Glu, Arg and Val

<400> 14

Xaa Xaa Xaa Tyr Xaa Xaa Xaa

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5

<210> 15

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Consensus sequence

<220>

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<222> (2)..(2)

<223> Any amino acid, preferably an amino acid selected from the group

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consisting of Gln, His, Tyr, Lys and Met, more preferably an amino acid selected from the group consisting of Gln, His and Tyr

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<223> Any amino acid, preferably an amino acid selected from the group consisting of Ala, Gly, Asn, Arg, Ser, Lys, Trp, Phe and Tyr, more preferably an amino acid selected from the group consisting of Ala, Gly, Asn, Arg and Ser

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<223> Any amino acid, preferably an amino acid selected from the group consisting of Thr, Trp, Tyr, Glu, Arg, Val, Ile, Leu, Met, Ala, Phe and Lys, more preferably an amino acid selected from the group consisting of Thr, Trp, Tyr, Glu, Arg and Val

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Cys Xaa Xaa Xaa Tyr Xaa Xaa Xaa Cys

1

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<223> Any amino acid, preferably an amino acid selected from the group consisting of Pro, Leu, Lys, Tyr, Phe and Arg, more preferably an amino acid selected from the group consisting of Pro, Leu, Lys and Tyr

<220>

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<222> (5)..(5)

<223> Any amino acid, preferably an amino acid selected from the group consisting of Ala, Gly, Asn, Arg, Ser, Lys, Trp, Phe and Tyr, more preferably an amino acid selected from the group consisting of Ala, Gly, Asn, Arg and Ser

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<223> Any amino acid, preferably an amino acid selected from the group consisting of Thr, Trp, Tyr, Glu, Arg, Val, Ile, Leu, Met, Ala, Phe and Lys, more preferably an amino acid selected from the group consisting of Thr, Trp, Tyr, Glu, Arg and Val

<400> 16

Ala Cys Xaa Xaa Xaa Tyr Xaa Xaa Xaa Cys

<210> 17
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<400> 17

Ala	Cys	Xaa	Xaa	Xaa	Tyr	Xaa	Xaa	Xaa	Cys	Gly
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Xaa Xaa Xaa Tyr Pro Gly Xaa
1 5

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<221> MISC_FEATURE
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Cys Xaa Xaa Xaa Tyr Pro Gly Xaa Cys
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<400> 20

Ala Cys Xaa Xaa Xaa Tyr Pro Gly Xaa Cys

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<220>
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 <223> Any amino acid, preferably an amino acid selected from the group consisting of Thr, Trp, Tyr, Glu, Arg, Val, Ile, Leu, Met, Ala, Phe and Lys

<400> 21

Ala Cys Xaa Xaa Xaa Tyr Pro Gly Xaa Cys Gly
 1 5 10

<210> 22
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<220>
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<400> 22

Gln Pro Ala Tyr Tyr His Thr
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<210> 23
 <211> 7
 <212> PRT

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<223> Peptide mimotope

<400> 23

His Leu Gly Tyr Pro Gly Arg
1 5

<210> 24

<211> 7

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<223> Peptide mimotope

<400> 24

His Tyr Gly Tyr Pro Gly Arg
1 5

<210> 25

<211> 7

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<213> Artificial Sequence

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<223> Peptide mimotope

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His Leu Gly Tyr Pro Gly Trp
1 5

<210> 26

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<220>

<223> Peptide mimotope

<400> 26

His Tyr Ser Tyr Pro Gly Val
1 5

<210> 27
 <211> 7
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<220>
 <223> Peptide mimotope

<400> 27

His Tyr Gly Tyr Pro Gly Val
 1 5

<210> 28
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<220>
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<400> 28

His Tyr Ser Tyr Pro Gly Trp
 1 5

<210> 29
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<400> 29

His Leu Arg Tyr Pro Gly Glu
 1 5

<210> 30
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His Tyr Arg Tyr Pro Gly Glu
1 5

<210> 31
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His Leu Asn Tyr Pro Gly Tyr
1 5

<210> 32
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His Leu Gly Tyr Pro Gly Tyr
1 5

<210> 33
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His Leu Asn Tyr Pro Gly Trp
1 5

<210> 34
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Tyr Lys Gly Tyr Pro Gly Tyr
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<210> 35

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His Tyr Gly Tyr Pro Gly Trp
1 5

<210> 36

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Cys Gln Pro Ala Tyr Tyr His Thr Cys
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<210> 37

<211> 9

<212> PRT

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<400> 37

Cys His Leu Gly Tyr Pro Gly Arg Cys
1 5

<210> 38

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<400> 38

Cys His Tyr Gly Tyr Pro Gly Arg Cys
1 5

<210> 39
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<400> 39

Cys His Leu Gly Tyr Pro Gly Trp Cys
1 5

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<220>
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Cys His Tyr Ser Tyr Pro Gly Val Cys
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<210> 41
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<400> 41

Cys His Tyr Gly Tyr Pro Gly Val Cys

1 5

<210> 42
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<400> 42

Cys His Tyr Ser Tyr Pro Gly Trp Cys
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Cys His Leu Arg Tyr Pro Gly Glu Cys
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Cys His Leu Asn Tyr Pro Gly Tyr Cys
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Cys His Leu Gly Tyr Pro Gly Tyr Cys
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Cys His Leu Asn Tyr Pro Gly Trp Cys
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<211> 9

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Cys Tyr Lys Gly Tyr Pro Gly Tyr Cys
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<210> 49

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Cys His Tyr Gly Tyr Pro Gly Trp Cys
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Ala Cys Gln Pro Ala Tyr Tyr His Thr Cys Gly
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<210> 51

<211> 11

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<400> 51

Ala Cys His Leu Gly Tyr Pro Gly Arg Cys Gly
1 5 10

<210> 52

<211> 11

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<400> 52

Ala Cys His Tyr Gly Tyr Pro Gly Arg Cys Gly
1 5 10

<210> 53
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<400> 53

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<400> 54

Ala	Cys	His	Tyr	Ser	Tyr	Pro	Gly	Val	Cys	Gly
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<210> 55
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<400> 55

Ala	Cys	His	Tyr	Gly	Tyr	Pro	Gly	Val	Cys	Gly
1				5					10	

<210> 56
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<220>
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<400> 56

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Ala Cys His Tyr Ser Tyr Pro Gly Trp Cys Gly
1 5 10

<210> 57
<211> 11
<212> PRT
<213> Artificial Sequence

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<400> 57

Ala Cys His Leu Arg Tyr Pro Gly Glu Cys Gly
1 5 10

<210> 58
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<400> 58

Ala Cys His Tyr Arg Tyr Pro Gly Glu Cys Gly
1 5 10

<210> 59
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<400> 59

Ala Cys His Leu Asn Tyr Pro Gly Tyr Cys Gly
1 5 10

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<400> 60

Ala Cys His Leu Gly Tyr Pro Gly Tyr Cys Gly
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<211> 11

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<400> 61

Ala Cys His Leu Asn Tyr Pro Gly Trp Cys Gly
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<400> 62

Ala Cys Tyr Lys Gly Tyr Pro Gly Tyr Cys Gly
1 5 10

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<211> 11

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<220>

<223> Peptide mimotope

<400> 63

Ala Cys His Tyr Gly Tyr Pro Gly Trp Cys Gly
1 5 10

<210> 64

<211> 5
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<220>
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<400> 64

Tyr Leu His Pro Asp
 1 5

<210> 65
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 <212> PRT
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<220>
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<400> 65

Thr Pro Tyr His His Pro Asp Phe Pro Tyr Trp Phe
 1 5 10

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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 66

Tyr Leu His Pro Asp Tyr Pro
 1 5

<210> 67
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<400> 67

Tyr Leu His Pro Asp Val Met

1 5

<210> 68
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<220>
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<400> 68

Pro Arg Cys Lys Ser Glu Gly Pro His His Pro Asp Tyr Pro Asp Cys
 1 5 10 15

Arg Arg Asp Ser Asp Cys Asn Gly Glu Cys Ile Cys Arg Gly Asn Gly
 20 25 30

Tyr Cys Gly
 35

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<400> 69

Ala Cys Arg His Pro Asp His Leu Asp Cys
 1 5 10

<210> 70
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<400> 70

Ala Cys His Glu Thr His His Pro Asp Cys
 1 5 10

<210> 71
 <211> 12
 <212> PRT
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<220>
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<400> 71

Ser Phe Arg Asp Met Asn Tyr Ser Asp Tyr Phe Met
 1 5 10

<210> 72
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<220>
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<400> 72

His Ile Leu Pro Leu Tyr Pro
 1 5

<210> 73
 <211> 7
 <212> PRT
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<400> 73

Ser Pro Tyr Met Pro Met Gln
 1 5

<210> 74
 <211> 17
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<220>
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<400> 74

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Asp Arg Cys Trp Leu Glu Gln Trp Pro Cys Arg Arg Asp Ser Asp Ile
1 5 10 15

Pro

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<211> 35
<212> PRT
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<220>
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<400> 75

Gln Thr Cys Asp His Asp Thr Arg His Pro Thr Gly Asp Asp Leu Cys
1 5 10 15

Arg Arg Asp Ser Asp Cys Gly Gly Asn Cys Ile Cys Arg Gly Asn Gly
20 25 30

Tyr Cys Gly
35