

SEQUENCE LISTING

<110> National Cheng Kung University
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 <130> 688947-1US
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 <160> 354
 <170> PatentIn version 3.5
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 <211> 68
 <212> PRT
 <213> Calloselasma rhodostoma

 <220>
 <221> PEPTIDE
 <222> (1)..(68)
 <400> 1
 Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15
 Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30
 Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Pro
 35 40 45
 Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60
 Pro Arg Tyr His
 65

 <210> 2
 <211> 70
 <212> PRT
 <213> Trimeresurus flavoviridis

 <220>
 <221> PEPTIDE
 <222> (1)..(70)
 <400> 2
 Gly Glu Glu Cys Asp Cys Gly Ser Pro Ser Asn Pro Cys Cys Asp Ala
 1 5 10 15
 Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Asp Gly Leu Cys
 20 25 30

Cys Asp Gln Cys Arg Phe Lys Lys Lys Arg Thr Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Phe Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Trp Asn Gly Leu
65 70

<210> 3
<211> 49
<212> PRT
<213> Echis carinatus

<400> 3

Gln Cys Glu Ser Gly Pro Cys Cys Arg Asn Cys Lys Phe Leu Lys Glu
1 5 10 15

Gly Thr Ile Cys Lys Arg Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys
20 25 30

Asn Gly Lys Thr Cys Asp Cys Pro Arg Asn Pro His Lys Gly Pro Ala
35 40 45

Thr

<210> 4
<211> 73
<212> PRT
<213> Trimeresurus mucrosquamatus

<400> 4

Glu Ala Gly Glu Glu Cys Asp Cys Gly Ser Pro Glu Asn Pro Cys Cys
1 5 10 15

Asp Ala Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Glu Gly
20 25 30

Leu Cys Cys Asp Gln Cys Arg Phe Lys Lys Lys Arg Thr Ile Cys Arg
35 40 45

Arg Ala Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala
50 55 60

Asp Cys Pro Arg Asn Gly Leu Tyr Gly
65 70

<210> 5
<211> 73
<212> PRT
<213> Trimeresurus elegans

<400> 5

Glu Ala Gly Glu Glu Cys Asp Cys Gly Ser Pro Glu Asn Pro Cys Cys
1 5 10 15

Asp Ala Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Asp Gly
20 25 30

Leu Cys Cys Asp Gln Cys Arg Phe Lys Lys Lys Arg Thr Ile Cys Arg
35 40 45

Arg Ala Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala
50 55 60

Asp Cys Pro Arg Asn Gly Leu Tyr Ser
65 70

<210> 6
<211> 62
<212> PRT
<213> Trimeresurus gramineus

<400> 6

Glu Ala Gly Glu Asp Cys Asp Cys Gly Ser Pro Ser Asn Pro Cys Cys
1 5 10 15

Asp Ala Ala Thr Cys Lys Leu Ile Pro Gly Ala Gln Cys Gly Glu Gly
20 25 30

Leu Cys Cys Asp Gln Cys Ser Phe Ile Glu Glu Gly Thr Val Cys Arg
35 40 45

Ile Ala Arg Gly Asp Asp Leu Asp Asp Tyr Cys Asn Gly Arg
50 55 60

<210> 7
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> RXD peptide, mutation at X

<400> 7

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Ala Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 8
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> RXD peptide, mutation at X
<400> 8

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Pro Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 9
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> RXD peptide, mutation at X
<400> 9

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Val Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 10
<211> 68
<212> PRT
<213> Artificial Sequence

<220>

<223> RXD peptide, mutation at X

<400> 10

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Leu Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 11

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> RXD peptide, mutation at X

<400> 11

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Ile Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 12

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> RXD peptide, mutation at X

<400> 12

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Met Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 13
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> RXD peptide, mutation at X

<400> 13

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Phe Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 14
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> RXD peptide, mutation at X

<400> 14

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Tyr Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 15
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> RXD peptide, mutation at X

<400> 15

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Trp Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 16
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> RXD peptide, mutation at X

<400> 16

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Ser Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 17

<211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> RXD peptide, mutation at X

<400> 17

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Thr Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 18
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> RXD peptide, mutation at X

<400> 18

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Asn Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 19
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> RXD peptide, mutation at X

<400> 19

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gln Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 20
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> RXD peptide, mutation at X

<400> 20

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Asp Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 21
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> RXD peptide, mutation at X

<400> 21

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Pro

35

40

45

Arg Glu Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 22
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> RXD peptide, mutation at X
 <400> 22

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg His Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 23
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> RXD peptide, mutation at X
 <400> 23

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Lys Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 24
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> RXD peptide, mutation at X
 <400> 24

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Arg Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 25
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGD peptide, mutation at X
 <400> 25

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Gly
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 26
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGD peptide, mutation at X

<400> 26

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Asp
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 27
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X

<400> 27

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Glu
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 28
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X

<400> 28

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Val
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 29
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X

<400> 29

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Leu
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 30
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X

<400> 30

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ile
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 31
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X
<400> 31

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Met
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 32
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X
<400> 32

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 33
<211> 68
<212> PRT
<213> Artificial Sequence

<220>

<223> XRGD peptide, mutation at X

<400> 33

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ser
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 34

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XRGD peptide, mutation at X

<400> 34

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Thr
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 35

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XRGD peptide, mutation at X

<400> 35

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Asn
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 36
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X

<400> 36

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Gln
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 37
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X

<400> 37

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Arg
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 38
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X

<400> 38

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Lys
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 39
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGD peptide, mutation at X

<400> 39

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile His
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 40

<211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGD peptide, mutation at X

<400> 40

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Phe
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 41
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGD peptide, mutation at X

<400> 41

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Tyr
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 42
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGD peptide, mutation at X

<400> 42

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 43
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X

<400> 43

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 44
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X

<400> 44

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala

35

40

45

Arg Gly Asp Asp Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 45
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDXP peptide, mutation at X
 <400> 45

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Glu Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 46
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDXP peptide, mutation at X
 <400> 46

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Leu Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 47
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDXP peptide, mutation at X
 <400> 47

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Val Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 48
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDXP peptide, mutation at X
 <400> 48

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Ile Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 49
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDXP peptide, mutation at X

<400> 49

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Lys Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 50
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X

<400> 50

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Ala Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 51
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X

<400> 51

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Ser Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 52
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X

<400> 52

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Thr Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 53
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X

<400> 53

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 54
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X
<400> 54

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Gln Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 55
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X
<400> 55

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Trp Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 56
<211> 68
<212> PRT
<213> Artificial Sequence

<220>

<223> XRGDXP peptide, mutation at X

<400> 56

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Tyr Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 57

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XRGDXP peptide, mutation at X

<400> 57

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Phe Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 58

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XRGDXP peptide, mutation at X

<400> 58

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp His Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 59
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> RXGDXP peptide, mutation at X

<400> 59

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Arg Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 60
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDXP peptide, mutation at X

<400> 60

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Gly Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 61
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDXP peptide, mutation at X

<400> 61

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Pro Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 62
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X

<400> 62

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Asn Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 63

<211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X

<400> 63

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Gln Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 64
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X

<400> 64

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Asp Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 65
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X

<400> 65

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met Glu Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 66
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDMX, mutation at X

<400> 66

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met His Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 67
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDMX, mutation at X

<400> 67

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala

35

40

45

Arg Gly Asp Met Arg Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 68
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X
 <400> 68

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Lys Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 69
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X
 <400> 69

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Gly Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 70
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X
 <400> 70

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Leu Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 71
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X
 <400> 71

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Trp Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 72
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRGDMX, mutation at X

<400> 72

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Phe Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 73

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XRGDMX, mutation at X

<400> 73

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Tyr Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 74

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XRGDMX, mutation at X

<400> 74

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met Met Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 75
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDMX, mutation at X

<400> 75

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met Ala Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 76
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDMX, mutation at X

<400> 76

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met Ile Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 77
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDMX, mutation at X

<400> 77

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met Val Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 78
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRGDMX, mutation at X

<400> 78

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Met Thr Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 79
<211> 68
<212> PRT
<213> Artificial Sequence

<220>

<223> XXPRGD, mutation at X

<400> 79

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 80

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XXPRGD, mutation at X

<400> 80

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Met Pro
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 81

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XXPRGD, mutation at X

<400> 81

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 82
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXPRGD, mutation at X

<400> 82

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 83
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXPRGD, mutation at X

<400> 83

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 84
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X

<400> 84

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 85
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X

<400> 85

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 86

<211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X

<400> 86

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 87
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X

<400> 87

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 88
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X

<400> 88

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 89
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXPRGD, mutation at X

<400> 89

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Lys Met Pro
35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 90
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXPRGD, mutation at X

<400> 90

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Lys Ile Pro

35

40

45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 91
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X
 <400> 91

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 92
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X
 <400> 92

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 93
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X
 <400> 93

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 94
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXPRGD, mutation at X
 <400> 94

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 95
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XRXDXP, mutation at X

<400> 95

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Glu Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 96

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XRXDXP, mutation at X

<400> 96

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Arg
 35 40 45

Arg Gly Asp Glu Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 97

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XRXDXP, mutation at X

<400> 97

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Leu Asp Glu Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 98
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRXDXP, mutation at X

<400> 98

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Arg
35 40 45

Arg Leu Asp Glu Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 99
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRXDXP, mutation at X

<400> 99

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gln Asp Glu Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 100
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRXDXP, mutation at X

<400> 100

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Arg
35 40 45

Arg Gln Asp Glu Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 101
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XRXDXP, mutation at X

<400> 101

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Arg
35 40 45

Arg Gln Asp Ser Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 102
<211> 70
<212> PRT
<213> Artificial Sequence

<220>

<223> PRGDMP-PRXXXXX, mutation at X

<400> 102

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Trp Asn Asp Leu
 65 70

<210> 103

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> PRGDMP-PRXXXXX, mutation at X

<400> 103

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Arg Phe His
 65 70

<210> 104

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> PRGDMP-PRXXXXX, mutation at X

<400> 104

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Arg Phe His Ala
 65 70

<210> 105
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> PRGDMP-PRXXXXX, mutation at X

<400> 105

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Pro Trp Asn Gly
 65 70

<210> 106
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> PRGDMP-PRXXXXX, mutation at X

<400> 106

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Gly Leu Tyr Gly
65 70

<210> 107
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> PRGDMP-PRXXXXX peptide, mutation at X

<400> 107

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Gly Leu Tyr Gly
65

<210> 108
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> KKKRT-XRXDXP peptide, mutation at X

<400> 108

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Ile Ala
35 40 45

Arg Leu Asp Asp Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 109

<211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KKKRT-XRXDXP peptide, mutation at X

<400> 109

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Met Asp Asp Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 110
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KKKRT-XRXDXP peptide, mutation at X

<400> 110

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Pro Asp Asp Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 111
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KKKRT-XRXDXP peptide, mutation at X

<400> 111

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Ile Ala
35 40 45

Arg Leu Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 112
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> KKKRT-XRXDXP peptide, mutation at X

<400> 112

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Ile Ala
35 40 45

Arg Leu Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 113
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> KKKRT-XRXDXP peptide, mutation at X

<400> 113

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Ile Ala

35

40

45

Arg Leu Asp Asp Val Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 114
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> KKKRT-XRXDXP peptide, mutation at X
 <400> 114

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Arg Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Leu Asp Asp Leu Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 115
 <211> 66
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ARGDMP-PRXXXXX peptide, mutation at X
 <400> 115

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg
 65

<210> 116
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ARGDMP-PRXXXXX peptide, mutation at X
 <400> 116

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr His
 65

<210> 117
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ARGDMP-PRXXXXX peptide, mutation at X
 <400> 117

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu
 65

<210> 118
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ARGDMP-PRXXXXX peptide, mutation at X

<400> 118

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Pro Trp Asn Gly
 65 70

<210> 119

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> ARGDMP-PRXXXXX peptide, mutation at X

<400> 119

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 120

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXRGDXP-XXXXX peptide, mutation at X

<400> 120

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Tyr Leu Tyr Gly
65

<210> 121
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 121

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Glu Leu Tyr Gly
65

<210> 122
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 122

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Ala
35 40 45

Arg Gly Asp Asp Leu Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Gly Leu Tyr Gly
65

<210> 123
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
<400> 123

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 124
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
<400> 124

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Gly Leu Tyr Gly
65

<210> 125
<211> 68
<212> PRT
<213> Artificial Sequence

<220>

<223> XXXXX-ICXXRGDXP-XXXXX peptide, mutation at X

<400> 125

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
35 40 45

Arg Leu Asp Asp Leu Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 126

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXRGDXP-XXXXX peptide, mutation at X

<400> 126

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 127

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXRGDXP-XXXXX peptide, mutation at X

<400> 127

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys₂₀ Leu Arg Pro Gly₂₅ Ala Gln Cys Gly Glu₃₀ Gly Leu Cys

Cys Glu₃₅ Gln Cys Lys Phe Lys₄₀ Lys Arg Thr Ile Cys₄₅ Arg Ile Pro

Arg Gly₅₀ Asp Met Pro Asp₅₅ Arg Cys Thr Gly₆₀ Gln Ser Ala Asp Cys

Pro Arg Tyr His
65

<210> 128
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 128

Gly Lys Glu Cys₅ Asp Cys Ser Ser Pro Glu₁₀ Asn Pro Cys Cys₁₅ Asp Ala

Ala Thr Cys Lys₂₀ Leu Arg Pro Gly₂₅ Ala Gln Cys Gly Glu₃₀ Gly Leu Cys

Cys Glu₃₅ Gln Cys Lys Phe Ser₄₀ Arg Ala Gly Lys Ile Cys₄₅ Arg Ile Ala

Arg Gly₅₀ Asp Asn Pro Asp₅₅ Arg Cys Thr Gly₆₀ Gln Ser Ala Asp Cys

Pro Arg Tyr His
65

<210> 129
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 129

Gly Lys Glu Cys₅ Asp Cys Ser Ser Pro Glu₁₀ Asn Pro Cys Cys₁₅ Asp Ala

Ala Thr Cys Lys₂₀ Leu Arg Pro Gly₂₅ Ala Gln Cys Gly Glu₃₀ Gly Leu Cys

Cys Glu₃₅ Gln Cys Lys Phe Lys₄₀ Lys Arg Thr Ile Cys₄₅ Arg Ile Ala

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr⁻ Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 130
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 130

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Arg Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Gly Leu Tyr Gly
65 70

<210> 131
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 131

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Gly Leu Tyr Gly
65 70

<210> 132

<211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 132

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Arg Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 133
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 133

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Arg Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 134
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 134

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Met Lys Lys Gly Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 135
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 135

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ile Glu Glu Gly Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 136
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 136

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Gly Ala Gly Lys Ile Cys Arg Ile Ala

35

40

45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 137
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
 <400> 137

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Leu Lys Glu Gly Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 138
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
 <400> 138

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ala Lys Lys Arg Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 139
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
 <400> 139

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Ala Lys Arg Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 140
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
 <400> 140

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 141
 <211> 71
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 141

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Ala Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 142

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 142

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Arg Ala Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 143

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 143

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Ala Lys Arg Ala Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Gly Leu Tyr Gly
65 70

<210> 144
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 144

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Lys Ala Gly Thr Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Gly Leu Tyr Gly
65 70

<210> 145
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 145

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Arg Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Gly Leu Tyr Gly
65 70

<210> 146
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
<400> 146

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Gly Leu Tyr
65

<210> 147
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
<400> 147

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Asp Leu Tyr Gly
65

<210> 148
<211> 69
<212> PRT
<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 148

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Lys Leu Tyr Gly
 65

<210> 149

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 149

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Leu Tyr Gly
 65

<210> 150

<211> 69

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 150

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Ala
 35 40 45

Arg Gly Asp Asp Leu Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Gly Leu Tyr Gly
 65

<210> 151
 <211> 70
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 151

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Arg Ile Ala
 35 40 45

Arg Ala Arg Gly Asp Asp Leu Asp Asp Arg Cys Thr Gly Gln Ser Ala
 50 55 60

Asp Cys Pro Arg Tyr His
 65 70

<210> 152
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 152

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Gly Leu Ala Gly
65

<210> 153
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 153

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Gly Leu Pro Gly
65

<210> 154
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 154

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Gly Leu Arg Gly
65

<210> 155

<211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 155

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Gly Leu Asp Gly
 65

<210> 156
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 156

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp Gly Tyr
 65

<210> 157
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 157

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp Lys Tyr
 65

<210> 158
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 158

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp His Tyr
 65

<210> 159
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 159

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly

35

40

45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp Glu Tyr
 65

<210> 160
 <211> 69
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
 <400> 160

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Pro Leu Tyr Gly
 65

<210> 161
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
 <400> 161

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp Leu Tyr
 65

<210> 162
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
 <400> 162

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp Leu Gly
 65

<210> 163
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
 <400> 163

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp Leu Glu
 65

<210> 164
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 164

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp Leu Lys
 65

<210> 165

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 165

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Asp Leu His
 65

<210> 166

<211> 68

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 166

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Arg Arg Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 167
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 167

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Ala Ile Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 168
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 168

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Lys Arg Thr Ile Cys Ala Arg Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 169
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
<400> 169

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Arg Thr Ile Cys Ala Arg Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Gly Leu Tyr Gly
65 70

<210> 170
<211> 68
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X
<400> 170

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Tyr His
65

<210> 171
<211> 70
<212> PRT
<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 171

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Trp Asn Asp Leu
65 70

<210> 172

<211> 70

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 172

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Arg Phe His
65 70

<210> 173

<211> 71

<212> PRT

<213> Artificial Sequence

<220>

<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 173

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Pro Phe His Ala
65 70

<210> 174
<211> 69
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 174

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Trp Asn Gly
65

<210> 175
<211> 71
<212> PRT
<213> Artificial Sequence

<220>
<223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 175

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 176
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 176

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Ala Arg Tyr His
 65

<210> 177
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 177

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Ala Tyr His
 65

<210> 178

<211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 178

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Ala His
 65

<210> 179
 <211> 68
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> XXXXX-ICXXXRGDXP-XXXXX peptide, mutation at X

<400> 179

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

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

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Tyr Ala
 65

<210> 180
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> antisense primer

<400> 180
 ccgcgcgcgc ggtcagtggt atcttgaca gtcagc

<210> 181
 <211> 12
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> sense primer

 <400> 181
 agaggtgaca tg 12

<210> 182
 <211> 23
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 <213> Artificial Sequence

 <220>
 <223> antisense primer

 <400> 182
 catgtcacct ctaccgattc tac 23

<210> 183
 <211> 51
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> sense primer

 <400> 183
 gaattcgaat tccatcatca tcacatcatat ggtaaggaat gtgactgttc t 51

<210> 184
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> antisense primer

 <400> 184
 ccgcggccgc ggtagtggt atcttgaca gtcagc 36

<210> 185
 <211> 23
 <212> DNA
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 <220>
 <223> antisense primer

 <400> 185
 catgtcacct ctcaagattc tac 23

<210> 186
 <211> 23
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 <220>
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<400> 186
catgtcacct cttctgattc tac 23

<210> 187
<211> 23
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<220>
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<400> 187
catgtcacct ctaacgattc tac 23

<210> 188
<211> 23
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<220>
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<400> 188
catgtcacct ctatggattc tac 23

<210> 189
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<212> DNA
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<220>
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<400> 189
catgtcacct ctccagattc tac 23

<210> 190
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<212> DNA
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<220>
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<400> 190
catgtcacct ctaaagattc tac 23

<210> 191
<211> 24
<212> DNA
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<220>
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<400> 191
tgtagaatcg ctagaggtga catg 24

<210> 192
<211> 24
<212> DNA
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<220>
 <223> antisense primer
 <400> 192
 catgtcacct ctagcgattc taca 24

<210> 193
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 catgtcacct ctagagattc tac 23

<210> 194
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 <223> antisense primer
 <400> 194
 catgtcacct ctcatgattc tac 23

<210> 195
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 <213> Artificial Sequence
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 <223> antisense primer
 <400> 195
 catgtcacct ctagtgattc tac 23

<210> 196
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 <223> antisense primer
 <400> 196
 catgtcacct ctgttgattc tac 23

<210> 197
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 <400> 197
 catgtcacct ctttgattc tac 23

<210> 198

<211> 23
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 <220>
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 <400> 198
 catgtcacct ctgtagattc tac 23

<210> 199
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 <220>
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 <400> 199
 catgtcacct ctaatgattc tac 23

<210> 200
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 <220>
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 <400> 200
 catgtcacct ctcttgattc tac 23

<210> 201
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 <212> DNA
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 <400> 201
 catgtcacct ctttcgattc tac 23

<210> 202
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 <220>
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 <400> 202
 catgtcacct ctatcgattc tac 23

<210> 203
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 203
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<210> 204
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
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<400> 204
gtagaatccc aagaagagac atgcc 25

<210> 205
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
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<400> 205
gtagaatccc aagaaacgac atgcc 25

<210> 206
<211> 25
<212> DNA
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<220>
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<400> 206
gtagaatccc aagagatgac atgcc 25

<210> 207
<211> 25
<212> DNA
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<220>
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<400> 207
gtagaatccc aagagaagac atgcc 25

<210> 208
<211> 25
<212> DNA
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<220>
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<400> 208
gtagaatccc aagacaagac atgcc 25

<210> 209
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<400> 209
gtagaatccc aagaaaggac atgcc 25

<210> 210
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<400> 210
gtagaatccc aagaatggac atgcc 25

<210> 211
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<400> 211
gtagaatccc aagatttgac atgcc 25

<210> 212
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<400> 212
gtagaatccc aagaccagac atgcc 25

<210> 213
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<400> 213
gtagaatccc aagatctgac atgcc 25

<210> 214
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<400> 214
gtagaatccc aagaactgac atgcc 25

<210> 215
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 gtagaatccc aagatgggac atgcc 25

<210> 216
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 gtagaatccc aagagttgac atgcc 25

<210> 217
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 <213> Artificial Sequence

<220>
 <223> sense primer
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 gtagaatccc aagatacgac atgcc 25

<210> 218
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> antisense primer
 <400> 218
 tcttgggatt ctac 14

<210> 219
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> sense primer
 <400> 219
 gaatcccaag acttgacatg ccag 24

<210> 220
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> antisense primer
 <400> 220
 ctggcatgtc aagtcttggg attc 24

<210> 221

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

 <220>
 <223> sense primer

 <400> 221
 agaatcccaa gacacgacat gccagac 27

<210> 222
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
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Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
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Pro Arg Tyr His
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Cys Glu Gln Cys Lys Phe Lys Lys Ala Arg Thr Ile Cys Ala Arg Gly
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Xaa Arg Gly Asp Met Xaa
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<223> XXXXX-ICXXRGDXP-XXXXX peptide, mutation at X

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

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu Tyr Gly
 65 70

<210> 348

<211> 69

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<223> ARGDMP-PRXXXXX peptide, mutation at X

<400> 348

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
 20 25 30

Cys Glu Gln Cys Lys Phe Ser Arg Ala Gly Lys Ile Cys Arg Ile Ala
 35 40 45

Arg Gly Asp Met Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
 50 55 60

Pro Arg Asn Gly Leu
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<223> XXXXX-ICXXRGDXP-XXXXX peptide, mutation at X

<400> 349

Gly Lys Glu Cys Asp Cys Ser Ser Pro Glu Asn Pro Cys Cys Asp Ala
 1 5 10 15

Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Gly Glu Gly Leu Cys
20 25 30

Cys Glu Gln Cys Lys Phe Met Lys Lys Gly Thr Ile Cys Arg Ile Ala
35 40 45

Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys
50 55 60

Pro Arg Asn Gly Leu Tyr Gly
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Lys Lys Ala Arg Thr Ile Cys Arg Ile Ala Arg Gly Arg Gly Asp Asn
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Ala Arg Leu Asp Asp Leu
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Pro Tyr Leu Tyr Gly
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Ala Arg Gly Arg Gly Asp Asp Leu
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<223> mutant RGD loop sequence

<400> 354

Ala Arg Ala Arg Gly Asp Asn Pro
1 5