SEQUENCE LISTING

<110> Hexima Limited

<120> A METHOD OF TREATMENT

<130> 35233519/EJH

<150> US 62/066808
<151> 2014-10-21

<160> 152

<170> PatentIn version 3.5

<210> 1
<211> 50
<212> PRT
<213> artificial

<220>
<223> HXL008 Picramnia pentandra

<400> 1

Lys Val Cys Thr Lys Pro Ser Lys Phe Phe Lys Gly Leu Cys Gly Thr
1 5 10 15

Asp Gly Ala Cys Thr Thr Ala Cys Arg Lys Glu Gly Leu His Ser Gly
20 25 30

Tyr Cys Gln Leu Lys Gly Phe Leu Asn Ser Val Cys Val Cys Arg Lys
35 40 45

His Cys
50

<210> 2
<211> 50
<212> PRT
<213> artificial

<220>
<223> HXL035 Picramnia pentandra

<400> 2

Lys Val Cys Thr Lys Pro Ser Lys Phe Phe Lys Gly Leu Cys Gly Phe

1 5 10 15

Asp Arg Asp Cys Thr Val Ala Cys Lys Lys Glu Gly Leu Ala Ser Gly
20 25 30

Phe Cys Gln Asn Lys Gly Phe Phe Asn Val Val Cys Val Cys Arg Lys
35 40 45

Pro Cys
50

<210> 3
<211> 50
<212> PRT
<213> artificial

<220>
<223> HXL036 Picramnia pentandra

<400> 3

Lys Val Cys Thr Lys Pro Ser Lys Phe Phe Lys Gly Leu Cys Gly Ala
1 5 10 15

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

Phe Cys Gln Lys Lys Gly Phe Phe Asn Phe Val Cys Val Cys Arg Lys
35 40 45

Pro Cys
50

<210> 4
<211> 49
<212> PRT
<213> artificial

<220>
<223> HXL001 Zea mays

<400> 4

Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Leu Cys Met Ser

1 5 10 15

Ser Asn Asn Cys Ala Asn Val Cys Gln Thr Glu Asn Phe Pro Gly Gly
20 25 30

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

Cys

<210> 5
<211> 49
<212> PRT
<213> artificial

<220>
<223> HXL002 Triticum aestivum

<400> 5

Arg Asp Cys Leu Ser Gln Ser His Lys Phe Lys Gly Ala Cys Leu Ser
1 5 10 15

Ser Ser Asn Cys Ala Ala Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
20 25 30

Glu Cys His Thr His Asn Phe Ala Arg Lys Cys Phe Cys Lys Arg Ala
35 40 45

Cys

<210> 6
<211> 46
<212> PRT
<213> artificial

<220>
<223> HXL003 Triticum aestivum

<400> 6

Ala Arg Asp Cys Thr Ser Gln Ser His Lys Phe Val Gly Leu Cys Leu

1 5 10 15

Ser Asp Arg Asn Cys Ala Ser Val Cys Leu Thr Glu Tyr Phe Thr Gly
20 25 30

Gly Lys Cys Asp His Arg Arg Cys Val Cys Thr Lys Gly Cys
35 40 45

<210> 7
<211> 47
<212> PRT
<213> artificial

<220>
<223> HXL004 Nicotiana benthamiana

<400> 7

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Leu Cys Phe Ser
1 5 10 15

Arg Ser Asn Cys Ala Ser Val Cys His Thr Glu Gly Phe Asn Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
35 40 45

<210> 8
<211> 45
<212> PRT
<213> artificial

<220>
<223> HXL005 Taraxcum kok-saghyz

<400> 8

Lys Met Cys Gln Thr Thr Ser His Ala Phe Ser Cys Val Asn Asp Ser
1 5 10 15

Gly Cys Ser Gly Ser Cys Glu Lys Gln Gly Phe Ala Ser Gly Lys Cys
20 25 30

Asp Gly Val Arg Arg Arg Cys Thr Cys Tyr Lys Lys Cys

35 40 45

<210> 9
<211> 51
<212> PRT
<213> artificial

<220>
<223> HXL009 Zea mays

<400> 9

Thr Val Cys Met Arg His Asn Asn Phe Tyr His Gly Pro Cys Met Ser
1 5 10 15

Asn Lys Asp Cys Ala Asn Ser Cys Val Gln His Asn Leu Gly Val Gly
20 25 30

Gly Tyr Cys Arg Gly Lys Ile Pro Phe Asn Lys Glu Cys Met Cys Thr
35 40 45

Phe Glu Cys
50

<210> 10
<211> 48
<212> PRT
<213> artificial

<220>
<223> HXL012 Amaranthus retroflexus

<400> 10

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

Arg Asp Ser Asn Cys Asp Ser Val Cys Arg Ala Glu Gly Met Ala Ala
20 25 30

Gly Asp Cys His Gly Leu Arg Arg Arg Cys Ile Cys Ser Arg Pro Cys
35 40 45

<210> 11

<211> 47
<212> PRT
<213> artificial

<220>
<223> HXL013 Glycine max

<400> 11

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

Asp Arg Gln Cys Ala His Val Cys Arg Ser Asp Gly Phe Ile Gly Gly
20 25 30

Gln Cys Arg Gly Pro Leu Arg Lys Cys Phe Cys Ser Arg Pro Cys
35 40 45

<210> 12
<211> 49
<212> PRT
<213> artificial

<220>
<223> HXL015 Oryza sativa

<400> 12

Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Met Cys Val Ser
1 5 10 15

Ser Asn Asn Cys Ala Asn Val Cys Arg Thr Glu Ser Phe Pro Asp Gly
20 25 30

Glu Cys Lys Ser His Gly Leu Glu Arg Lys Cys Phe Cys Lys Lys Val
35 40 45

Cys

<210> 13
<211> 49
<212> PRT
<213> artificial

<220>
<223> HXL032 Triticum aestivum

<400> 13

Arg Thr Cys Leu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1   5   10   15

Asn Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20   25   30

Glu Cys Asn Ser His Arg Leu Glu Arg Lys Cys Phe Cys Lys Arg Thr
        35   40   45

Cys

<210> 14
<211> 47
<212> PRT
<213> artificial

<220>
<223> HXL033 Parthenium argentatum

<400> 14

Arg Thr Cys Glu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1   5   10   15

Asp Thr Asn Cys Gly Asn Val Cys His Ser Glu Gly Phe Pro Gly Gly
            20   25   30

Lys Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Lys Asn Cys
        35   40   45

<210> 15
<211> 47
<212> PRT
<213> artificial

<220>
<223> HXL034 Nicotiana benthamiana

<400> 15

```
Arg Arg Cys Glu Ser Lys Ser Gln Arg Phe Lys Gly Pro Cys Val Arg
1               5                   10                  15


Val Lys Asn Cys Ala Ala Val Cys Glu Thr Glu Gly Phe Ser Gly Gly
            20                  25                  30


Asp Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
        35                  40                  45


<210>  16
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  NsD1 Nicotiana suaveolens

<400>  16

Lys Asp Cys Lys Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1               5                   10                  15


Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Thr Asp Gly
            20                  25                  30


His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45


<210>  17
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  NsD2 Nicotiana suaveolens

<400>  17

Lys Asp Cys Lys Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1               5                   10                  15


Lys Leu Pro Cys Arg Arg Ala Cys Ile Ser Glu Lys Phe Ala Asp Gly
            20                  25                  30
```

```
His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45


<210>  18
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  NaD1 Nicotiana alata

<400>  18

Arg Glu Cys Lys Thr Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1               5                   10                  15


Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp Gly
            20                  25                  30


His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45


<210>  19
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  NoD173 Nicotiana occidentalis spp obliqua

<400>  19

Arg Gln Cys Lys Ala Glu Ser Asn Thr Phe Thr Gly Ile Cys Ile Ala
1               5                   10                  15


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


His Cys Ser Lys Val Leu Arg Arg Cys Leu Cys Thr Lys Arg Cys
        35                  40                  45


<210>  20
<211>  50
<212>  PRT
```

<213> artificial

<220>
<223> DmAMP1 Dahlia merckii

<400> 20

```
Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
1               5                   10                  15


Thr Gly His Cys Asp Asn Gln Cys Lys Ser Trp Glu Gly Ala Ala His
            20                  25                  30


Gly Ala Cys His Val Arg Asn Gly Lys His Met Cys Phe Cys Tyr Phe
        35                  40                  45


Asn Cys
    50
```

<210> 21
<211> 47
<212> PRT
<213> artificial

<220>
<223> HXP4

<400> 21

```
Arg Glu Cys Lys Thr Glu Ser His Arg Phe Lys Gly Pro Cys Ile Thr
1               5                   10                  15


Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp Gly
            20                  25                  30


His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45
```

<210> 22
<211> 47
<212> PRT
<213> artificial

<220>
<223> HXP34

<400> 22

Arg Glu Cys Lys Thr Glu Ser Gln His His Ser Phe Pro Cys Ile Thr
1 5 10 15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 23
<211> 47
<212> PRT
<213> artificial

<220>
<223> HXP35

<400> 23

Arg Glu Cys Lys Thr Glu Ser Asp Thr Tyr Arg Gly Val Cys Ile Thr
1 5 10 15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 24
<211> 51
<212> PRT
<213> artificial

<220>
<223> Consensus

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X is optionally alanine or no residue

<220>

<221> MISC_FEATURE
<222> (2)..(51)
<223> X is any amino acid

<400> 24

Xaa Lys Val Cys Thr Lys Pro Ser Lys Phe Phe Lys Gly Leu Cys Gly
1 5 10 15

Xaa Asp Xaa Xaa Cys Thr Xaa Ala Cys Xaa Lys Glu Gly Leu Xaa Xaa
20 25 30

Gly Xaa Cys Gln Xaa Lys Gly Phe Xaa Asn Xaa Val Cys Val Cys Arg
35 40 45

Lys Xaa Cys
50

<210> 25
<211> 51
<212> PRT
<213> artificial

<220>
<223> HXL008 + N-terminal alanine

<400> 25

Ala Lys Val Cys Thr Lys Pro Ser Lys Phe Phe Lys Gly Leu Cys Gly
1 5 10 15

Thr Asp Gly Ala Cys Thr Thr Ala Cys Arg Lys Glu Gly Leu His Ser
20 25 30

Gly Tyr Cys Gln Leu Lys Gly Phe Leu Asn Ser Val Cys Val Cys Arg
35 40 45

Lys His Cys
50

<210> 26
<211> 51
<212> PRT
<213> artificial

<220>
<223> HXL035 + N-terminal alanine

<400> 26

Ala Lys Val Cys Thr Lys Pro Ser Lys Phe Phe Lys Gly Leu Cys Gly
1   5   10   15

Phe Asp Arg Asp Cys Thr Val Ala Cys Lys Lys Glu Gly Leu Ala Ser
            20   25   30

Gly Phe Cys Gln Asn Lys Gly Phe Phe Asn Val Val Cys Val Cys Arg
        35   40   45

Lys Pro Cys
    50

<210> 27
<211> 51
<212> PRT
<213> artificial

<220>
<223> HXL036 + N-terminal alanine

<400> 27

Ala Lys Val Cys Thr Lys Pro Ser Lys Phe Phe Lys Gly Leu Cys Gly
1   5   10   15

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

Gly Phe Cys Gln Lys Lys Gly Phe Phe Asn Phe Val Cys Val Cys Arg
        35   40   45

Lys Pro Cys
    50

<210> 28
<211> 50
<212> PRT
<213> artificial

<220>
<223> HXL001 + N-terminal alanine

<400> 28

```
Ala Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Leu Cys Met
1               5                   10                  15


Ser Ser Asn Asn Cys Ala Asn Val Cys Gln Thr Glu Asn Phe Pro Gly
            20                  25                  30


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


Ile Cys
    50
```

<210> 29
<211> 50
<212> PRT
<213> artificial

<220>
<223> HXL002 + N-terminal alanine

<400> 29

```
Ala Arg Asp Cys Leu Ser Gln Ser His Lys Phe Lys Gly Ala Cys Leu
1               5                   10                  15


Ser Ser Ser Asn Cys Ala Ala Val Cys Arg Thr Glu Asn Phe Pro Asp
            20                  25                  30


Gly Glu Cys His Thr His Asn Phe Ala Arg Lys Cys Phe Cys Lys Arg
        35                  40                  45


Ala Cys
    50
```

<210> 30
<211> 46
<212> PRT
<213> artificial

<220>
<223> HXL003 + N-terminal alanine

<400> 30

Ala Arg Asp Cys Thr Ser Gln Ser His Lys Phe Val Gly Leu Cys Leu
1   5   10   15

Ser Asp Arg Asn Cys Ala Ser Val Cys Leu Thr Glu Tyr Phe Thr Gly
            20   25   30

Gly Lys Cys Asp His Arg Arg Cys Val Cys Thr Lys Gly Cys
        35   40   45

<210> 31
<211> 48
<212> PRT
<213> artificial

<220>
<223> HXL004 + N-terminal alanine

<400> 31

Ala Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Leu Cys Phe
1   5   10   15

Ser Arg Ser Asn Cys Ala Ser Val Cys His Thr Glu Gly Phe Asn Gly
            20   25   30

Gly His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
        35   40   45

<210> 32
<211> 45
<212> PRT
<213> artificial

<220>
<223> HXL005 + N-terminal alanine

<400> 32

Lys Met Cys Gln Thr Thr Ser His Ala Phe Ser Cys Val Asn Asp Ser
1   5   10   15

```
Gly Cys Ser Gly Ser Cys Glu Lys Gln Gly Phe Ala Ser Gly Lys Cys
            20                  25                  30


Asp Gly Val Arg Arg Arg Cys Thr Cys Tyr Lys Lys Cys
        35                  40                  45


<210>  33
<211>  52
<212>  PRT
<213>  artificial

<220>
<223>  HXL009  + N-terminal alanine

<400>  33

Ala Thr Val Cys Met Arg His Asn Asn Phe Tyr His Gly Pro Cys Met
1               5                   10                  15


Ser Asn Lys Asp Cys Ala Asn Ser Cys Val Gln His Asn Leu Gly Val
            20                  25                  30


Gly Gly Tyr Cys Arg Gly Lys Ile Pro Phe Asn Lys Glu Cys Met Cys
        35                  40                  45


Thr Phe Glu Cys
    50


<210>  34
<211>  49
<212>  PRT
<213>  artificial

<220>
<223>  HXL012  + N-terminal alanine

<400>  34

Ala Arg Met Cys Lys Ala Pro Ser Lys Leu Phe Arg Gly Met Cys Gly
1               5                   10                  15


Ile Arg Asp Ser Asn Cys Asp Ser Val Cys Arg Ala Glu Gly Met Ala
            20                  25                  30
```

Ala Gly Asp Cys His Gly Leu Arg Arg Arg Cys Ile Cys Ser Arg Pro
        35   40   45

Cys

<210> 35
<211> 48
<212> PRT
<213> artificial

<220>
<223> HXL013 + N-terminal alanine

<400> 35

Ala Lys Asp Cys Leu Thr Arg Arg His Gly Phe Gln Gly Arg Cys Leu
1   5   10   15

Phe Asp Arg Gln Cys Ala His Val Cys Arg Ser Asp Gly Phe Ile Gly
            20   25   30

Gly Gln Cys Arg Gly Pro Leu Arg Lys Cys Phe Cys Ser Arg Pro Cys
        35   40   45

<210> 36
<211> 50
<212> PRT
<213> artificial

<220>
<223> HXL015 + N-terminal alanine

<400> 36

Ala Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Met Cys Val
1   5   10   15

Ser Ser Asn Asn Cys Ala Asn Val Cys Arg Thr Glu Ser Phe Pro Asp
            20   25   30

Gly Glu Cys Lys Ser His Gly Leu Glu Arg Lys Cys Phe Cys Lys Lys
        35   40   45

Val Cys
    50

<210> 37
<211> 50
<212> PRT
<213> artificial

<220>
<223> HXL032 + N-terminal alanine

<400> 37

Ala Arg Thr Cys Leu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu
1   5   10   15

Ser Asn Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp
            20   25   30

Gly Glu Cys Asn Ser His Arg Leu Glu Arg Lys Cys Phe Cys Lys Arg
        35   40   45

Thr Cys
    50

<210> 38
<211> 48
<212> PRT
<213> artificial

<220>
<223> HXL033 + N-terminal alanine

<400> 38

Ala Arg Thr Cys Glu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu
1   5   10   15

Ser Asp Thr Asn Cys Gly Asn Val Cys His Ser Glu Gly Phe Pro Gly
            20   25   30

Gly Lys Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Lys Asn Cys
        35   40   45

<210> 39
<211> 48
<212> PRT
<213> artificial

<220>
<223> HXL034 + N-terminal alanine

<400> 39

Ala Arg Arg Cys Glu Ser Lys Ser Gln Arg Phe Lys Gly Pro Cys Val
1   5   10   15

Arg Val Lys Asn Cys Ala Ala Val Cys Glu Thr Glu Gly Phe Ser Gly
            20   25   30

Gly Asp Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
        35   40   45

<210> 40
<211> 48
<212> PRT
<213> artificial

<220>
<223> NsD1   + N-terminal alanine

<400> 40

Ala Lys Asp Cys Lys Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile
1   5   10   15

Thr Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Thr Asp
            20   25   30

Gly His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35   40   45

<210> 41
<211> 48
<212> PRT
<213> artificial

<220>

<223> NsD2 + N-terminal alanine

<400> 41

```
Ala Lys Asp Cys Lys Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile
1               5                   10                  15


Thr Lys Leu Pro Cys Arg Arg Ala Cys Ile Ser Glu Lys Phe Ala Asp
            20                  25                  30


Gly His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45
```

<210> 42
<211> 48
<212> PRT
<213> artificial

<220>
<223> NaD1 + N-terminal alanine

<400> 42

```
Ala Arg Glu Cys Lys Thr Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile
1               5                   10                  15


Thr Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp
            20                  25                  30


Gly His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45
```

<210> 43
<211> 48
<212> PRT
<213> artificial

<220>
<223> NoD173 + N-terminal alanine

<400> 43

```
Ala Arg Gln Cys Lys Ala Glu Ser Asn Thr Phe Thr Gly Ile Cys Ile
1               5                   10                  15
```

```
Ala Lys Pro Pro Cys Arg Gln Ala Cys Ile Arg Glu Lys Phe Thr Asp
            20                  25                  30


Gly His Cys Ser Lys Val Leu Arg Arg Cys Leu Cys Thr Lys Arg Cys
        35                  40                  45


<210>  44
<211>  51
<212>  PRT
<213>  artificial

<220>
<223>  DmAMP1  + N-terminal alanine

<400>  44

Ala Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly
1               5                   10                  15


Asn Thr Gly His Cys Asp Asn Gln Cys Lys Ser Trp Glu Gly Ala Ala
            20                  25                  30


His Gly Ala Cys His Val Arg Asn Gly Lys His Met Cys Phe Cys Tyr
        35                  40                  45


Phe Asn Cys
    50


<210>  45
<211>  48
<212>  PRT
<213>  artificial

<220>
<223>  HXP4  + N-terminal alanine

<400>  45

Ala Arg Glu Cys Lys Thr Glu Ser His Arg Phe Lys Gly Pro Cys Ile
1               5                   10                  15


Thr Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp
            20                  25                  30
```

Gly His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 46
<211> 48
<212> PRT
<213> artificial

<220>
<223> HXP34 + N-terminal alanine

<400> 46

Ala Arg Glu Cys Lys Thr Glu Ser Gln His His Ser Phe Pro Cys Ile
1 5 10 15

Thr Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp
20 25 30

Gly His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 47
<211> 48
<212> PRT
<213> artificial

<220>
<223> HXP35 + N-terminal alanine

<400> 47

Ala Arg Glu Cys Lys Thr Glu Ser Asp Thr Tyr Arg Gly Val Cys Ile
1 5 10 15

Thr Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp
20 25 30

Gly His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 48
<211> 49
<212> PRT
<213> artificial

<220>
<223> SbD17

<400> 48

Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Leu Cys Met Ser
1   5   10   15

Ser Thr Asn Cys Ala Asn Val Cys Gln Thr Glu Asn Phe Pro Gly Gly
            20   25   30

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

Cys

<210> 49
<211> 49
<212> PRT
<213> artificial

<220>
<223> ZmD9

<400> 49

Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Leu Cys Met Ser
1   5   10   15

Ser Asn Asn Cys Ala Asn Val Cys Gln Thr Glu Asn Phe Pro Gly Gly
            20   25   30

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

Cys

<210> 50
<211> 49
<212> PRT
<213> artificial

<220>
<223> SolD1

<400> 50

Arg Tyr Cys Leu Ser Gln Ser His Arg Phe Lys Gly Leu Cys Met Ser
1   5   10   15

Ser Ser Asn Cys Ala Asn Val Cys Gln Thr Glu Asn Phe Pro Gly Gly
            20   25   30

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

Cys

<210> 51
<211> 49
<212> PRT
<213> artificial

<220>
<223> ObD1

<400> 51

Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Met Cys Val Ser
1   5   10   15

Ser Asn Asn Cys Ala Asn Val Cys Lys Thr Glu Asn Phe Pro Asp Gly
            20   25   30

Glu Cys Lys Ser His Gly Leu Glu Arg Lys Cys Phe Cys Lys Lys Leu
        35   40   45

Cys

<210> 52
<211> 49
<212> PRT
<213> artificial

<220>
<223> Ta-PDF30

<400> 52

Arg Asp Cys Leu Ser Gln Ser His Lys Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20   25   30

Glu Cys His Thr His Asn Phe Ala Arg Lys Cys Phe Cys Lys Arg Ala
        35   40   45

Cys

<210> 53
<211> 49
<212> PRT
<213> artificial

<220>
<223> TtD4

<400> 53

Arg Asp Cys Leu Ser Gln Ser His Lys Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Ala Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20   25   30

Glu Cys His Thr His Asn Phe Ala Arg Lys Cys Phe Cys Lys Arg Pro
        35   40   45

Cys

<210> 54
<211> 49
<212> PRT
<213> artificial

<220>
<223> Ta-PDF25

<400> 54

Arg Asp Cys Leu Ser Gln Ser His Lys Phe Asn Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20   25   30

Glu Cys His Thr Gln His Phe Glu Arg Lys Cys Phe Cys Lys Arg Val
        35   40   45

Cys

<210> 55
<211> 49
<212> PRT
<213> artificial

<220>
<223> TtD1

<400> 55

Arg Asp Cys Val Ser Gln Ser His Asn Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Pro Ala Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20   25   30

Glu Cys His Thr Pro His Phe Glu Arg Lys Cys Phe Cys Lys Arg Pro
        35   40   45

Cys

<210> 56
<211> 49
<212> PRT
<213> artificial

<220>
<223> Tm-AMP-D1.2

<400> 56

Arg Asp Cys Val Ser Gln Ser His Asn Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Ala Val Cys Arg Thr Asp Asn Phe Pro Asp Gly
            20   25   30

Glu Cys His Thr Pro His Phe Glu Arg Lys Cys Phe Cys Lys Arg Leu
        35   40   45

Cys

<210> 57
<211> 49
<212> PRT
<213> artificial

<220>
<223> Ta-PDF23

<400> 57

Arg Asp Cys Leu Ser Gln Ser Phe Lys Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Ala Val Cys Arg Thr Glu Lys Phe Pro Asp Gly
            20   25   30

Glu Cys His Arg Gln His Leu Glu Arg Lys Cys Phe Cys Lys Arg Pro
        35   40   45

Cys

<210> 58
<211> 49
<212> PRT
<213> artificial

<220>
<223> TaD18

<400> 58

Arg Asn Cys Leu Ser Gln Ser His Asn Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Ala Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20   25   30

Glu Cys His Ala Pro His Tyr Glu Arg Lys Cys Phe Cys Lys Arg Pro
        35   40   45

Cys

<210> 59
<211> 50
<212> PRT
<213> artificial

<220>
<223> AtaD3

<400> 59

Arg Asp Cys Leu Ser Lys Ser His Lys Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Ser Ile Cys Arg Thr Glu Asn Phe Pro Gly Gly
            20   25   30

Glu Cys Lys Leu Asp Ser Phe Ala Arg Lys Cys Phe Cys Lys Arg Pro
        35   40   45

Thr His
    50

<210> 60
<211> 48
<212> PRT
<213> artificial

<220>
<223> Tm-AMP-D1.2

<400> 60

Arg Asp Cys Leu Ser Lys Ser His Lys Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Ser Ile Cys Arg Thr Glu Asn Phe Pro Gly Gly
            20   25   30

Glu Cys Lys Leu Asp Ser Phe Ala Arg Lys Cys Phe Cys Lys Arg Glu
        35   40   45

<210> 61
<211> 49
<212> PRT
<213> artificial

<220>
<223> AtaD4

<400> 61

Arg Asp Cys Leu Ser Gln Ser Phe Lys Phe Lys Gly Ala Cys Leu Ser
1   5   10   15

Ser Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20   25   30

Glu Cys His Arg Gln His Leu Glu Arg Lys Cys Phe Cys Lys Lys Pro
        35   40   45

Cys

<210> 62
<211> 49
<212> PRT
<213> artificial

<220>
<223> Ta-PDF13

<400> 62

Arg Asp Cys Leu Ser Gln Ser His Asn Phe Lys Gly Ala Cys Leu Ser
1 5 10 15

Ser Ser Asn Cys Ala Gly Val Cys His Thr Glu Ser Phe Pro Gly Gly
20 25 30

Glu Cys His Thr Gln His Phe Glu Arg Lys Cys Phe Cys Lys Arg Val
35 40 45

Cys

<210> 63
<211> 49
<212> PRT
<213> artificial

<220>
<223> TaD15

<400> 63

Arg Asp Cys Leu Ser Lys Ser His Lys Phe Lys Gly Ala Cys Leu Ser
1 5 10 15

Ser Ser Asn Cys Ala Ser Ile Cys Arg Thr Glu Asn Phe Pro Gly Gly
20 25 30

Glu Cys Lys Leu Asp Ser Phe Ala Arg Lys Cys Phe Cys Lys Arg Val
35 40 45

Cys

<210> 64
<211> 49
<212> PRT
<213> artificial

<220>
<223> mTAD1

<400> 64

Arg Thr Cys Leu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1 5 10 15

Asn Ser Asn Cys Ala Ala Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
20 25 30

Glu Cys Asn Thr His Leu Val Glu Arg Lys Cys Tyr Cys Lys Arg Thr
35 40 45

Cys

<210> 65
<211> 49
<212> PRT
<213> artificial

<220>
<223> TtD2

<400> 65

Arg Asp Cys Leu Ser Gln Ser His Lys Phe Lys Gly Ser Cys Leu Ser
1 5 10 15

Ser Ser Asn Cys Ala Ser Ile Cys Arg Thr Glu Asn Phe Pro Gly Gly
20 25 30

Glu Cys Lys Leu Glu Ser Phe Ala Arg Lys Cys Phe Cys Lys Arg Val
35 40 45

Cys

<210> 66
<211> 49
<212> PRT
<213> artificial

<220>
<223> TtD5

<400> 66

Arg Asp Cys Leu Ser Gln Ser His Asn Phe Lys Gly Ala Cys Leu Ser
1 5 10 15

Ser Ser Asn Cys Ala Gly Val Cys His Thr Glu Ser Phe Pro Gly Gly
20 25 30

Glu Cys His Thr Gln His Phe Glu Arg Lys Cys Phe Cys Lys Arg Pro
35 40 45

Cys

<210> 67
<211> 47
<212> PRT
<213> artificial

<220>
<223> J1-2

<400> 67

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Leu Cys Phe Ser
1 5 10 15

Lys Ser Asn Cys Gly Ser Val Cys His Thr Glu Gly Phe Asn Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
35 40 45

<210> 68
<211> 47
<212> PRT
<213> artificial

<220>
<223> defensin

<400> 68

Arg Thr Cys Glu Ser Gln Ser Arg Arg Phe Arg Gly Leu Cys Phe Ser
1 5 10 15

```
Lys Ser Asn Cys Gly Ser Val Cys His Thr Glu Gly Phe Asn Gly Gly
            20                  25                  30


His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
        35                  40                  45


<210>  69
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  StD15

<400>  69

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


Lys Ser Asn Cys Gly Ser Val Cys His Thr Glu Gly Phe Ser Gly Gly
            20                  25                  30


His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
        35                  40                  45


<210>  70
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  AtD84

<400>  70

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Thr Cys Val Ser
1               5                   10                  15


Ala Ser Asn Cys Ala Asn Val Cys His Asn Glu Gly Phe Val Gly Gly
            20                  25                  30


Asn Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
        35                  40                  45
```

<210> 71
<211> 47
<212> PRT
<213> artificial

<220>
<223> PpD1

<400> 71

Arg Thr Cys Glu Ser Gln Ser Asn Arg Phe Lys Gly Thr Cys Val Ser
1 5 10 15

Thr Ser Asn Cys Ala Ser Val Cys Gln Thr Glu Gly Phe Pro Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 72
<211> 47
<212> PRT
<213> artificial

<220>
<223> PpyD3

<400> 72

Arg Thr Cys Glu Ser Gln Ser Arg Lys Phe Lys Gly Ala Cys Leu Ser
1 5 10 15

Arg Ser Asn Cys Ala Ser Val Cys Gln Thr Glu Gly Phe Pro Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 73
<211> 47
<212> PRT
<213> artificial

<220>

<223> AhS4

<400> 73

```
Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Thr Cys Val Ser
1               5                   10                  15


Ala Ser Asn Cys Ala Asn Val Cys His Asn Glu Gly Phe Ile Gly Gly
            20                  25                  30


Asn Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Asn Cys
        35                  40                  45
```

<210> 74
<211> 47
<212> PRT
<213> artificial

<220>
<223> CanD5

<400> 74

```
Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Val Cys Ala Ser
1               5                   10                  15


Glu Thr Asn Cys Ala Ser Val Cys Gln Thr Glu Gly Phe Ser Gly Gly
            20                  25                  30


Asp Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
        35                  40                  45
```

<210> 75
<211> 47
<212> PRT
<213> artificial

<220>
<223> CsaD1

<400> 75

```
Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Arg
1               5                   10                  15
```

Lys Ser Asn Cys Ala Ser Val Cys Gln Thr Glu Gly Phe His Gly Gly
20 25 30

Gln Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 76
<211> 47
<212> PRT
<213> artificial

<220>
<223> Eg-PDF

<400> 76

Arg Thr Cys Glu Ser Gln Ser Gln Arg Phe Lys Gly Ala Cys Val Ser
1 5 10 15

Lys Thr Asn Cys Ala Ser Val Cys Gln Thr Glu Gly Phe His Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 77
<211> 47
<212> PRT
<213> artificial

<220>
<223> Lm-PDF

<400> 77

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Ile Cys Val Arg
1 5 10 15

Lys Ser Asn Cys Ala Ala Val Cys Gln Thr Glu Gly Phe His Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 78
<211> 47
<212> PRT
<213> artificial

<220>
<223> PvD3

<400> 78

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1 5 10 15

Asp Thr Asn Cys Ala Ser Val Cys Arg Thr Glu Arg Phe Ser Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 79
<211> 47
<212> PRT
<213> artificial

<220>
<223> SID17

<400> 79

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1 5 10 15

Glu Lys Asn Cys Ala Ser Val Cys Glu Thr Glu Gly Phe Ser Gly Gly
20 25 30

Asp Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
35 40 45

<210> 80
<211> 47
<212> PRT
<213> artificial

<220>
<223> Tm-PDF

<400> 80

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1 5 10 15

Lys Thr Asn Cys Ala Ser Val Cys Lys Thr Glu Gly Phe Tyr Gly Gly
20 25 30

His Cys Arg Gly Phe Arg His Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 81
<211> 47
<212> PRT
<213> artificial

<220>
<223> BnD9

<400> 81

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1 5 10 15

Asp Asn Asn Cys Ala Asn Val Cys His Asn Glu Gly Phe Gly Gly Gly
20 25 30

Lys Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg His Cys
35 40 45

<210> 82
<211> 47
<212> PRT
<213> artificial

<220>
<223> CclD4

<400> 82

Arg Ile Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1 5 10 15

Lys Ser Asn Cys Ala Ala Val Cys Gln Thr Glu Gly Phe His Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys Arg Cys
        35   40   45

<210> 83
<211> 47
<212> PRT
<213> artificial

<220>
<223> CrD10

<400> 83

Arg Thr Cys Glu Ser Lys Ser His Arg Phe Lys Gly Thr Cys Leu Ser
1   5   10   15

Glu Ser Asn Cys Lys Asn Val Cys His Asn Glu Gly Phe Gln Gly Gly
            20   25   30

Asn Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
        35   40   45

<210> 84
<211> 47
<212> PRT
<213> artificial

<220>
<223> CrD11

<400> 84

Arg Thr Cys Glu Ser Lys Ser His Arg Phe Lys Gly Lys Cys Phe Ser
1   5   10   15

Glu Thr Asn Cys Lys Asn Val Cys His Asn Glu Gly Phe Thr Gly Gly
            20   25   30

Asn Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
        35   40   45

<210> 85
<211> 47

<212> PRT
<213> artificial

<220>
<223> Ct-PDF

<400> 85

Arg Ser Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1 5 10 15

Asp Thr Asn Cys Ala Ser Val Cys Tyr Thr Glu Arg Phe Ser Gly Gly
20 25 30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 86
<211> 47
<212> PRT
<213> artificial

<220>
<223> Gm-PDF5

<400> 86

Arg His Cys Glu Ser Lys Ser His Arg Phe Lys Gly Met Cys Leu Ser
1 5 10 15

Lys His Asn Cys Ala Ser Val Cys His Leu Glu Gly Phe Thr Gly Gly
20 25 30

Lys Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
35 40 45

<210> 87
<211> 47
<212> PRT
<213> artificial

<220>
<223> GmD8

<400> 87

```
Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Leu Ser
1               5                   10                  15


Asp Thr Asn Cys Gly Ser Val Cys Arg Thr Glu Arg Phe Thr Gly Gly
            20                  25                  30


His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
        35                  40                  45


<210>  88
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  LjD1

<400>  88

Arg Asp Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1               5                   10                  15


Asp Thr Asn Cys Ala Ser Val Cys His Gly Glu Lys Phe Ser Gly Gly
            20                  25                  30


His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
        35                  40                  45


<210>  89
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  MtD23

<400>  89

Arg Thr Cys Glu Ser Gln Ser His Lys Phe Lys Gly Pro Cys Ala Ser
1               5                   10                  15


Asp His Asn Cys Ala Ser Val Cys Gln Thr Glu Arg Phe Ser Gly Gly
            20                  25                  30
```

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Thr His Cys
35 40 45

<210> 90
<211> 47
<212> PRT
<213> artificial

<220>
<223> NaD2

<400> 90

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Ala Arg
1 5 10 15

Asp Ser Asn Cys Ala Thr Val Cys Leu Thr Glu Gly Phe Ser Gly Gly
20 25 30

Asp Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
35 40 45

<210> 91
<211> 47
<212> PRT
<213> artificial

<220>
<223> NtD4

<400> 91

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Ser Arg
1 5 10 15

Asp Ser Asn Cys Ala Thr Val Cys Leu Thr Glu Gly Phe Ser Gly Gly
20 25 30

Asp Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
35 40 45

<210> 92
<211> 47
<212> PRT
<213> artificial

<220>
<223> ObD2

<400> 92

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Asn Gly Val Cys Val Arg
1   5   10   15

Ser Ser Asn Cys Ala Ser Val Cys Ser Thr Glu Gly Phe Thr Gly Gly
            20   25   30

His Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys Pro Cys
        35   40   45

<210> 93
<211> 47
<212> PRT
<213> artificial

<220>
<223> PvD6

<400> 93

Arg His Cys Glu Ser Lys Ser His Arg Phe Lys Gly Met Cys Leu Ser
1   5   10   15

Asp Arg Asn Cys Ala Ser Val Cys His Leu Glu Gly Phe Thr Gly Gly
            20   25   30

Asn Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg His Cys
        35   40   45

<210> 94
<211> 47
<212> PRT
<213> artificial

<220>
<223> ScD1

<400> 94

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1   5   10   15

```
Glu Lys Asn Cys Ala Ser Val Cys Glu Thr Glu Gly Phe Ser Gly Gly
            20                  25                  30


Asp Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
        35                  40                  45


<210>  95
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  VuD2

<400>  95

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1               5                   10                  15


Asp Thr Asn Cys Ala Ser Val Cys Arg Thr Glu Arg Phe Ser Gly Gly
            20                  25                  30


His Cys Arg Gly Phe Arg Arg Arg Cys Leu Cys Thr Lys His Cys
        35                  40                  45


<210>  96
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  Vs-PDF

<400>  96

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Thr Cys Val Arg
1               5                   10                  15


Gln Ser Asn Cys Ala Ala Val Cys Gln Thr Glu Gly Phe His Gly Gly
            20                  25                  30


Asn Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
        35                  40                  45
```

<210> 97
<211> 50
<212> PRT
<213> artificial

<220>
<223> Pp-PDF

<400> 97

Lys Val Cys Thr Lys Pro Ser Lys Phe Phe Lys Gly Leu Cys Gly Phe
1   5   10   15

Asp Arg Asp Cys Thr Val Ala Cys Lys Lys Glu Gly Leu Ala Ser Gly
            20   25   30

Phe Cys Gln Asn Lys Gly Phe Phe Asn Val Val Cys Val Cys Arg Lys
        35   40   45

Pro Cys
    50

<210> 98
<211> 51
<212> PRT
<213> artificial

<220>
<223> ZmD25

<400> 98

Glu Ile Cys Ala Arg Pro Asn Pro His Tyr Pro Gly Ala Cys Arg Ser
1   5   10   15

Asn Lys Asp Cys Ala Gly Ser Cys Ile Gln Gln Asn Leu Gly Thr Ser
            20   25   30

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

Phe Glu Cys
    50

<210> 99
<211> 47
<212> PRT
<213> artificial

<220>
<223> SolD1

<400> 99

Arg Lys Cys Lys Thr Pro Ser Lys Thr Phe Lys Gly Ile Cys Thr Arg
1 5 10 15

Asp Ser Asn Cys Asp Thr Ser Cys Arg Tyr Glu Gly Tyr Pro Ala Gly
20 25 30

Asp Cys Lys Gly Ile Arg Arg Arg Cys Met Cys Ser Lys Pro Cys
35 40 45

<210> 100
<211> 47
<212> PRT
<213> artificial

<220>
<223> GmD7

<400> 100

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

Asp Arg Gln Cys Val His Val Cys Arg Ser Asp Gly Phe Ile Gly Gly
20 25 30

Gln Cys Arg Gly Pro Leu Arg Lys Cys Val Cys Ser Arg Pro Cys
35 40 45

<210> 101
<211> 49
<212> PRT
<213> artificial

<220>

<223> DLP322

<400> 101

Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Met Cys Val Ser
1 5 10 15

Ser Asn Asn Cys Ala Asn Val Cys Arg Thr Glu Ser Phe Pro Asp Gly
20 25 30

Glu Cys Lys Ser His Gly Leu Glu Arg Lys Cys Phe Cys Lys Lys Pro
35 40 45

Cys

<210> 102
<211> 49
<212> PRT
<213> artificial

<220>
<223> OsD17

<400> 102

Arg His Cys Leu Ser Gln Ser His Arg Phe Lys Gly Met Cys Val Ser
1 5 10 15

Ser Asn Asn Cys Ala Asn Val Cys Lys Thr Glu Asn Phe Pro Asp Gly
20 25 30

Glu Cys Lys Ser His Gly Leu Glu Arg Lys Cys Phe Cys Lys Lys Leu
35 40 45

Cys

<210> 103
<211> 49
<212> PRT
<213> artificial

<220>

<223> ObD1

<400> 103

Arg His Cys Leu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Val Arg
1 5 10 15

Ser Gly Asn Cys Ala Asn Val Cys Lys Thr Glu Asn Phe Pro Asp Gly
20 25 30

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

Cys

<210> 104
<211> 49
<212> PRT
<213> artificial

<220>
<223> Tk-AMP-D2

<400> 104

Arg Thr Cys Leu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1 5 10 15

Asn Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
20 25 30

Glu Cys Asn Ser His Arg Leu Glu Arg Lys Cys Tyr Cys Lys Arg Thr
35 40 45

Cys

<210> 105
<211> 49
<212> PRT
<213> artificial

<220>

<223> Ta-PDF33

<400> 105

Arg Thr Cys Leu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1 5 10 15

Asp Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
20 25 30

Glu Cys Asn Ser His Arg Leu Glu Arg Lys Cys Phe Cys Lys Arg Thr
35 40 45

Cys

<210> 106
<211> 49
<212> PRT
<213> artificial

<220>
<223> TaD19

<400> 106

Arg Thr Cys Leu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Ile Ser
1 5 10 15

Asp Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
20 25 30

Glu Cys Asn Ser His Arg Leu Glu Arg Lys Cys His Cys Lys Arg Thr
35 40 45

Cys

<210> 107
<211> 49
<212> PRT
<213> artificial

<220>

<223> mTAD1

<400> 107

```
Arg Thr Cys Leu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1               5                   10                  15


Asn Ser Asn Cys Ala Ala Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20                  25                  30


Glu Cys Asn Thr His Leu Val Glu Arg Lys Cys Tyr Cys Lys Arg Thr
        35                  40                  45


Cys
```

<210> 108
<211> 49
<212> PRT
<213> artificial

<220>
<223> Ta-PDF30

<400> 108

```
Arg Asp Cys Leu Ser Gln Ser His Lys Phe Lys Gly Ala Cys Leu Ser
1               5                   10                  15


Ser Ser Asn Cys Ala Gly Val Cys Arg Thr Glu Asn Phe Pro Asp Gly
            20                  25                  30


Glu Cys His Thr His Asn Phe Ala Arg Lys Cys Phe Cys Lys Arg Ala
        35                  40                  45


Cys
```

<210> 109
<211> 47
<212> PRT
<213> artificial

<220>

<223> HaD3

<400> 109

```
Arg Thr Cys Glu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1               5                   10                  15


Asp Thr Asn Cys Ala Asn Val Cys His Ser Glu Arg Phe Ser Gly Gly
            20                  25                  30


Lys Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Thr His Cys
        35                  40                  45
```

<210> 110
<211> 47
<212> PRT
<213> artificial

<220>
<223> EpD2

<400> 110

```
Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Lys Cys Leu Ser
1               5                   10                  15


Asp Gly Asn Cys Gly Asn Val Cys His Asn Glu Gly Phe Gly Gly Gly
            20                  25                  30


Lys Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Asn Cys
        35                  40                  45
```

<210> 111
<211> 47
<212> PRT
<213> artificial

<220>
<223> JcD1

<400> 111

```
Arg Thr Cys Glu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1               5                   10                  15
```

Glu Thr Asn Cys Ala Asn Val Cys Lys Thr Glu Gly Phe Thr Gly Gly
            20   25   30

Asp Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg His Cys
        35   40   45

<210> 112
<211> 47
<212> PRT
<213> artificial

<220>
<223> PgD1

<400> 112

Arg Thr Cys Glu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Ala Ser
1   5   10   15

Gly Thr Asn Cys Ala Asn Val Cys Lys Thr Glu Gly Phe Pro Gly Gly
            20   25   30

Lys Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Thr His Cys
        35   40   45

<210> 113
<211> 47
<212> PRT
<213> artificial

<220>
<223> VfoD1

<400> 113

Arg Thr Cys Glu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1   5   10   15

Glu Thr Asn Cys Ala Ser Val Cys Lys Thr Glu Gly Phe Thr Gly Gly
            20   25   30

Asp Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg Asn Cys
        35   40   45

<210> 114
<211> 47
<212> PRT
<213> artificial

<220>
<223> BnD9

<400> 114

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1 5 10 15

Asp Asn Asn Cys Ala Asn Val Cys His Asn Glu Gly Phe Gly Gly Gly
20 25 30

Lys Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg His Cys
35 40 45

<210> 115
<211> 47
<212> PRT
<213> artificial

<220>
<223> EsD5

<400> 115

Arg Thr Cys Glu Ser Lys Ser His Arg Phe Lys Gly Ala Cys Leu Ser
1 5 10 15

Glu Thr Asn Cys Lys Asn Val Cys His Asn Glu Gly Phe Arg Gly Gly
20 25 30

Asn Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg Asn Cys
35 40 45

<210> 116
<211> 47
<212> PRT
<213> artificial

<220>
<223> FvD6

<400> 116

Arg Thr Cys Glu Ser Leu Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1 5 10 15

Glu Thr Asn Cys Ala Ser Val Cys Lys Thr Glu Gly Phe Ser Gly Gly
20 25 30

Asp Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Lys His Cys
35 40 45

<210> 117
<211> 47
<212> PRT
<213> artificial

<220>
<223> JcD2

<400> 117

Arg Thr Cys Glu Ser Gln Thr His Lys Phe Lys Gly Thr Cys Leu Ser
1 5 10 15

Glu Thr Asn Cys Ala Asn Val Cys Lys Thr Glu Gly Phe Thr Gly Gly
20 25 30

Asp Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg His Cys
35 40 45

<210> 118
<211> 47
<212> PRT
<213> artificial

<220>
<223> Pa-PDF

<400> 118

Arg Thr Cys Leu Ser Gln Ser Arg Lys Phe Lys Gly Ala Cys Leu Ser
1 5 10 15

Asp Thr Asn Cys Gly Asn Val Cys Lys Ser Glu Gly Phe Pro Arg Gly
20 25 30

Asp Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Val Lys His Cys
        35   40   45

<210> 119
<211> 47
<212> PRT
<213> artificial

<220>
<223> RcD3

<400> 119

Arg Thr Cys Glu Ser Gln Ser His Lys Phe Lys Gly Thr Cys Leu Ser
1   5   10   15

Thr Thr Asn Cys Ala Asn Ile Cys Lys Thr Glu Gly Phe His Gly Gly
            20   25   30

Arg Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Lys His Cys
        35   40   45

<210> 120
<211> 47
<212> PRT
<213> artificial

<220>
<223> SID20

<400> 120

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

Asp Thr Asn Cys Gly Ser Val Cys Arg Thr Glu Gly Phe Thr Gly Gly
            20   25   30

Asn Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Asn Cys
        35   40   45

<210> 121
<211> 47

<212> PRT
<213> artificial

<220>
<223> StD13

<400> 121

Arg Thr Cys Glu Ser Lys Ser His His Phe Lys Gly Lys Cys Leu Ser
1 5 10 15

Asp Thr Asn Cys Gly Ser Val Cys His Thr Glu Gly Phe Thr Gly Gly
20 25 30

Asn Cys Arg Gly Leu Arg Gln Arg Cys Phe Cys Thr Arg Asn Cys
35 40 45

<210> 122
<211> 47
<212> PRT
<213> artificial

<220>
<223> ScD1

<400> 122

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1 5 10 15

Glu Lys Asn Cys Ala Ser Val Cys Glu Thr Glu Gly Phe Ser Gly Gly
20 25 30

Asp Cys Arg Gly Leu Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
35 40 45

<210> 123
<211> 47
<212> PRT
<213> artificial

<220>
<223> SID17

<400> 123

```
Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Val Ser
1               5                   10                  15


Glu Lys Asn Cys Ala Ser Val Cys Glu Thr Glu Gly Phe Ser Gly Gly
            20                  25                  30


Asp Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
        35                  40                  45


<210>  124
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  NaD2

<400>  124

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Ala Arg
1               5                   10                  15


Asp Ser Asn Cys Ala Thr Val Cys Leu Thr Glu Gly Phe Ser Gly Gly
            20                  25                  30


Asp Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
        35                  40                  45


<210>  125
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  NtD4

<400>  125

Arg Thr Cys Glu Ser Gln Ser His Arg Phe Lys Gly Pro Cys Ser Arg
1               5                   10                  15


Asp Ser Asn Cys Ala Thr Val Cys Leu Thr Glu Gly Phe Ser Gly Gly
            20                  25                  30
```

Asp Cys Arg Gly Phe Arg Arg Arg Cys Phe Cys Thr Arg Pro Cys
35 40 45

<210> 126
<211> 47
<212> PRT
<213> artificial

<220>
<223> FST

<400> 126

Arg Glu Cys Lys Thr Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1 5 10 15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Leu Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 127
<211> 47
<212> PRT
<213> artificial

<220>
<223> NtD3

<400> 127

Arg Glu Cys Lys Thr Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1 5 10 15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Ser Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Leu Leu Arg Arg Cys Leu Cys Ala Lys Pro Cys
35 40 45

<210> 128
<211> 47
<212> PRT
<213> artificial

<220>
<223> NeThio2

<400> 128

Lys Asp Cys Lys Thr Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1   5   10   15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Lys Glu Lys Phe Thr Asp Gly
            20   25   30

His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35   40   45

<210> 129
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL14B1

<400> 129

Lys Asp Cys Lys Thr Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1   5   10   15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Thr Asp Gly
            20   25   30

His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35   40   45

<210> 130
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL78B

<400> 130

Lys Asp Cys Lys Thr Glu Ser Asn Thr Phe Pro Gly Ile Cys Val Thr
1   5   10   15

```
Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Thr Asp Gly
            20                  25                  30


His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45


<210>  131
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  NeD1

<400>  131

Lys Asp Cys Lys Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1               5                   10                  15


Lys Pro Pro Cys Arg Lys Ala Cys Ile Lys Glu Lys Phe Thr Asp Gly
            20                  25                  30


His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45


<210>  132
<211>  47
<212>  PRT
<213>  artificial

<220>
<223>  SL137

<400>  132

Lys Asp Cys Lys Thr Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1               5                   10                  15


Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Thr Asp Gly
            20                  25                  30


His Cys Ser Lys Ile Leu Arg Lys Cys Leu Cys Thr Lys Pro Cys
        35                  40                  45
```

<210> 133
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL549

<400> 133

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

Lys Pro Pro Cys Arg Lys Ala Cys Ile Lys Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 134
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL445

<400> 134

Lys Asp Cys Arg Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1 5 10 15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 135
<211> 47
<212> PRT
<213> artificial

<220>

<223> SL99

<400> 135

Arg Glu Cys Lys Ala Glu Ser Asn Thr Phe Thr Gly Ile Cys Ile Ala
1 5 10 15

Lys Pro Pro Cys Arg Lys Val Cys Ile Arg Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Val Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 136
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL446

<400> 136

Lys Asp Cys Lys Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Ile Thr
1 5 10 15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Ala Asp Asp
20 25 30

His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 137
<211> 47
<212> PRT
<213> artificial

<220>
<223> NpD1

<400> 137

Ser Thr Cys Lys Ala Glu Ser Asn Thr Phe Pro Gly Leu Cys Ile Thr
1 5 10 15

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

Lys Cys Ser Lys Ile Leu Arg Arg Cys Ile Cys Tyr Lys Pro Cys
35 40 45

<210> 138
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL548

<400> 138

Lys Asp Cys Lys Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Val Thr
1 5 10 15

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

His Cys Ser Lys Ile Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 139
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL97

<400> 139

Arg Glu Cys Lys Ala Glu Ser Asn Thr Phe Thr Gly Met Cys Ile Ala
1 5 10 15

Lys Pro Pro Cys Arg Lys Val Cys Ile Arg Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Val Leu Arg Arg Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 140
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL16

<400> 140

Arg Gln Cys Lys Ala Glu Ser Asn Thr Phe Thr Gly Ile Cys Ile Ala
1 5 10 15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Val Leu Arg Lys Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 141
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL12

<400> 141

Arg Gln Cys Lys Ala Glu Ser Asn Thr Phe Thr Gly Ile Cys Ile Ala
1 5 10 15

Lys Pro Pro Cys Arg Lys Ala Cys Ile Arg Glu Lys Phe Thr Asp Gly
20 25 30

His Cys Ser Lys Val Leu Arg Arg Cys Leu Cys Thr Lys Lys Cys
35 40 45

<210> 142
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL543

<400> 142

Lys Asp Cys Lys Arg Glu Ser Asn Thr Phe Pro Gly Ile Cys Val Thr
1 5 10 15

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

His Cys Ser Lys Ile Leu Arg Lys Cys Leu Cys Thr Lys Pro Cys
35 40 45

<210> 143
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL14

<400> 143

Arg Gln Cys Lys Ala Glu Ser Asn Thr Phe Thr Gly Ile Cys Ile Ala
1 5 10 15

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

His Cys Ser Lys Val Leu Arg Arg Cys Leu Cys Thr Lys Arg Cys
35 40 45

<210> 144
<211> 47
<212> PRT
<213> artificial

<220>
<223> SL171

<400> 144

Arg Gln Cys Arg Ala Glu Ser Asn Thr Phe Thr Gly Ile Cys Ile Ala
1 5 10 15

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

```
His Cys Ser Lys Val Leu Arg Arg Cys Leu Cys Thr Lys Arg Cys
        35                  40                  45


<210>  145
<211>  50
<212>  PRT
<213>  artificial

<220>
<223>  Vm-PDF

<400>  145

Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
1               5                   10                  15


Thr Gly His Cys Asp Asn Gln Cys Lys Ser Trp Glu Gly Ala Ala His
            20                  25                  30


Gly Ala Cys His Val Arg Gly Gly Lys His Met Cys Phe Cys Tyr Phe
        35                  40                  45


Asn Cys
    50


<210>  146
<211>  50
<212>  PRT
<213>  artificial

<220>
<223>  VmD1

<400>  146

Glu Leu Cys Glu Arg Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
1               5                   10                  15


Thr Gly His Cys Asp Asn Gln Cys Lys Ser Trp Glu Gly Ala Ala His
            20                  25                  30


Gly Ala Cys His Val Arg Gly Gly Lys His Met Cys Phe Cys Tyr Phe
        35                  40                  45
```

Asn Cys
    50

<210> 147
<211> 50
<212> PRT
<213> artificial

<220>
<223> Ds-PDF

<400> 147

Ala Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
1   5   10   15

Thr Gly His Cys Asp Asp Gln Cys Lys Ser Trp Glu Thr Ala Ala His
            20   25   30

Gly Ala Cys His Val Arg Gly Gly Lys His Met Cys Phe Cys Tyr Phe
        35   40   45

Asn Cys
    50

<210> 148
<211> 50
<212> PRT
<213> artificial

<220>
<223> Hs-PDF

<400> 148

Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Lys Cys Gly Asn
1   5   10   15

Thr Arg His Cys Asp Asp Gln Cys Lys Ser Trp Glu Gly Ala Ala His
            20   25   30

Gly Ala Cys His Val Arg Gly Gly Lys His Met Cys Phe Cys Tyr Phe
        35   40   45

Asn Cys
    50

<210> 149
<211> 50
<212> PRT
<213> artificial

<220>
<223> Pa-PDF

<400> 149

Glu Leu Cys Glu Lys Ala Ser Lys Thr Trp Ser Gly Asn Cys Gly Asn
1   5   10   15

Thr Arg His Cys Asp Asp Gln Cys Lys Ser Trp Glu Gly Ala Ala His
            20   25   30

Gly Ala Cys His Val Arg Gly Gly Lys His Met Cys Phe Cys Tyr Phe
        35   40   45

Gln Cys
    50

<210> 150
<211> 50
<212> PRT
<213> artificial

<220>
<223> HaD2

<400> 150

Glu Leu Cys Glu Lys Ala Ser Gln Thr Trp Ser Gly Thr Cys Gly Lys
1   5   10   15

Thr Lys His Cys Asp Asp Gln Cys Lys Ser Trp Glu Gly Ala Ala His
            20   25   30

Gly Ala Cys His Val Arg Asp Gly Lys His Met Cys Phe Cys Tyr Phe
        35   40   45

Asn Cys
    50

<210> 151
<211> 51
<212> PRT
<213> artificial

<220>
<223> EprD1

<400> 151

Glu Leu Cys Glu Lys Ala Ser Gln Thr Trp Ser Gly Thr Cys Arg Ile
1   5   10   15

Thr Ser His Cys Asp Asn Gln Cys Lys Ser Trp Glu Gly Ala Ala His
            20   25   30

Gly Ala Cys His Val Arg Gly Gly Lys His Met Cys Phe Cys Tyr Phe
        35   40   45

Ser His Cys
    50

<210> 152
<211> 50
<212> PRT
<213> artificial

<220>
<223> PpeD5

<400> 152

Arg Leu Cys Glu Arg Ala Ser Leu Thr Trp Ser Gly Asn Cys Gly Asn
1   5   10   15

Thr Ala His Cys Asp Asn Gln Cys Arg Ser Trp Glu His Ala Gln His
            20   25   30

Gly Ala Cys His Val Arg Gly Gly Lys His Met Cys Phe Cys Tyr Phe
        35   40   45

Asn Cys
50