

Sequence Listing_ST25
SEQUENCE LISTING

<110> Xigen S.A.

<120> Efficient transport into white blood cells

<130> CX01P029WO

<160> 234

<170> PatentIn version 3.5

<210> 1

<211> 86

<212> PRT

<213> Human immunodeficiency virus type 1

<220>

<221> misc_feature

<223> Description of sequence: HIV-1 TAT sequence (aa 1-86)

<400> 1

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
1 5 10 15

Gln Pro Lys Thr Ala Cys Thr Asn Cys Tyr Cys Lys Lys Cys Cys Phe
20 25 30

His Cys Gln Val Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
35 40 45

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr
50 55 60

His Gln Val Ser Leu Ser Lys Gln Pro Thr Ser Gln Ser Arg Gly Asp
65 70 75 80

Pro Thr Gly Pro Lys Glu
85

<210> 2

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence L-TAT (s1a) (see Table 1)

<400> 2

Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 3

<211> 10

<212> PRT

<213> Artificial

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<220>

<223> Description of sequence: trafficking sequence L-TAT (s1b) (see Table 1)

<400> 3

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 4

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence D-TAT (see Table 1)

<220>

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<222> (1)..(9)

<223> /replace="D-amino acid"

<400> 4

Arg Arg Arg Gln Arg Arg Lys Lys Arg
1 5

<210> 5

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence D-TAT (see Table 1)

<220>

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<222> (1)..(10)

<223> /replace="D-amino acid"

<400> 5

Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly
1 5 10

<210> 6

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: trafficking sequence L-generic-TAT (s)
(see Table 1)

<220>

<221> misc_feature

<223> General formula: NH2-Xnb-RKKRRQRRR-Xnb-COOH (see Table 1)

<220>

<221> VARIANT

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<222> (1)..(1)
 <223> Xaa is Xnb as defined in the general formula, wherein Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue;

<220>
 <221> REPEAT
 <222> (1)..(1)
 <223> Xaa is Xnb as defined in the general formula, wherein n is 0-5, 5-10, 10-15, 15-20, 20-30 or more for Xnb

<220>
 <221> VARIANT
 <222> (11)..(11)
 <223> Xaa is Xnb as defined in the general formula, wherein Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue;

<220>
 <221> REPEAT
 <222> (11)..(11)
 <223> Xaa is Xnb as defined in the general formula, wherein n is 0-5, 5-10, 10-15, 15-20, 20-30 or more for Xnb

<400> 6
 Xaa Arg Lys Lys Arg Arg Gln Arg Arg Arg Xaa
 1 5 10

<210> 7
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence D-generic-TAT (s) (see Table 1)

<220>
 <221> MISC_FEATURE
 <223> General formula: NH₂-Xnb-rrrqrrkkk-Xnb-COOH (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> Xaa is Xnb as defined in the general formula, wherein Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue;

<220>
 <221> REPEAT
 <222> (1)..(1)
 <223> Xaa is Xnb as defined in the general formula, wherein n is 0-5, 5-10, 10-15, 15-20, 20-30 or more for Xnb

<220>
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 <222> (11)..(11)
 <223> Xaa is Xnb as defined in the general formula, wherein Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue;

<220>
 <221> REPEAT
 <222> (11)..(11)
 <223> Xaa is Xnb as defined in the general formula, wherein n is 0-5,

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5-10, 10-15, 15-20, 20-30 or more for Xnb

<400> 7

Xaa Arg Arg Arg Gln Arg Arg Lys Lys Arg Xaa
1 5 10

<210> 8

<211> 36

<212> PRT

<213> Human immunodeficiency virus type 1

<220>

<221> misc_feature

<223> Description of sequence: HIV-1 TAT sequence (aa 37-72)

<400> 8

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

Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr His Gln Val Ser
20 25 30

Leu Ser Lys Gln
35

<210> 9

<211> 22

<212> PRT

<213> Human immunodeficiency virus type 1

<220>

<221> misc_feature

<223> Description of sequence: HIV-1 TAT sequence (aa 37-58)

<400> 9

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

Arg Gln Arg Arg Arg Pro
20

<210> 10

<211> 24

<212> PRT

<213> Human immunodeficiency virus type 1

<220>

<221> misc_feature

<223> Description of sequence: HIV-1 TAT sequence (aa 38-58) including an additional N-terminal GCC

<400> 10

Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly Arg Lys Lys Arg Arg
1 5 10 15

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Gln Arg Arg Arg Pro Gly Gly Cys
20

<210> 11
<211> 15
<212> PRT
<213> Human immunodeficiency virus type 1

<220>
<221> misc_feature
<223> Description of sequence: HIV-1 TAT sequence (aa 47-58) including an additional C-terminal GCC

<400> 11

Cys Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro
1 5 10 15

<210> 12
<211> 15
<212> PRT
<213> Human immunodeficiency virus type 1

<220>
<221> misc_feature
<223> Description of sequence: HIV-1 TAT sequence (aa 47-58) including an additional N-terminal GCC

<400> 12

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gly Gly Cys
1 5 10 15

<210> 13
<211> 56
<212> PRT
<213> Human immunodeficiency virus type 1

<220>
<221> misc_feature
<223> Description of sequence: HIV-1 TAT sequence (aa 1-72) including a mutated Cys to Ala residue at position 37

<400> 13

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
1 5 10 15

Gln Pro Lys Thr Ala Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly
20 25 30

Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr
35 40 45

His Gln Val Ser Leu Ser Lys Gln
50 55

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<210> 14
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence L-TAT (slc) (see Table 1)

<400> 14

Tyr Asp Arg Lys Lys Arg Arg Gln Arg Arg Arg
 1 5 10

<210> 15
 <211> 9
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<220>
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<220>
 <221> VARIANT
 <222> (1)..(1)
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<220>
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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 15

Arg Lys Lys Arg Arg Gln Arg Arg Arg
 1 5

<210> 16
 <211> 9
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 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence r3-L-TATi (see Table 1)

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<220>
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 <223> /replace="D-amino acid"

<220>
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<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 16

Arg Arg Arg Gln Arg Arg Lys Lys Arg
1 5

<210> 17
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence betaA-r3-L-TAT
(see Table 1)

<220>
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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
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<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
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<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 17

Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 18
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence betaA-r3-L-TATi
(see Table 1)

<220>
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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
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<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
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<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 18

Arg Arg Arg Gln Arg Arg Lys Lys Arg

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5

<210> 19
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 <220>
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 FITC-betaA-r3-L-TAT (see Table 1)

<220>
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 <223> /replace="D-amino acid"

<220>
 <221> Variant
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> Variant
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 19

Arg Lys Lys Arg Arg Gln Arg Arg Arg
 1 5

<210> 20
 <211> 9
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of sequence: trafficking sequence
 FITC-betaA-r3-L-TATi (see Table 1)

<220>
 <221> Variant
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> Variant
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 20

Arg Arg Arg Gln Arg Arg Lys Lys Arg
 1 5

<210> 21
 <211> 9
 <212> PRT

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<220>

<223> Description of sequence: trafficking sequence TAT(s2-1) (see Table 1)

<220>

<221> variant

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> variant

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> variant

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 21

Arg Ala Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 22

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-2) (see Table 1)

<220>

<221> variant

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> variant

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> variant

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 22

Arg Lys Ala Arg Arg Gln Arg Arg Arg
1 5

<210> 23

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-3) (see Table 1)

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<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)

<220>
 <221> VARIANT
 <222> (9)..(9)

<400> 23

Arg Lys Lys Ala Arg Gln Arg Arg Arg
 1 5

<210> 24
 <211> 9
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<220>
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<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 24

Arg Lys Lys Arg Arg Ala Arg Arg Arg
 1 5

<210> 25
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-5) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT

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<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 25

Arg Lys Lys Arg Arg Gln Ala Arg Arg
1 5

<210> 26
<211> 9
<212> PRT
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<220>
<223> Description of sequence: trafficking sequence TAT(s2-6) (see Table 1)

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 26

Arg Lys Lys Arg Arg Gln Arg Ala Arg
1 5

<210> 27
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-7) (see Table 1)

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)

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<223> /replace="D-amino acid"

<400> 27

Arg Asp Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 28

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-8) (see Table 1)

<220>

<221> VARIANT

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 28

Arg Lys Asp Arg Arg Gln Arg Arg Arg
1 5

<210> 29

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-9) (see Table 1)

<220>

<221> VARIANT

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 29

Arg Lys Lys Asp Arg Gln Arg Arg Arg
1 5

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<210> 30
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-10) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 30

Arg Lys Lys Arg Arg Asp Arg Arg Arg
 1 5

<210> 31
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-11) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 31

Arg Lys Lys Arg Arg Gln Asp Arg Arg
 1 5

<210> 32
 <211> 9
 <212> PRT
 <213> Artificial Sequence

Sequence Listing_ST25

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-12) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 32

Arg Lys Lys Arg Arg Gln Arg Asp Arg
 1 5

<210> 33
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-13) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 33

Arg Glu Lys Arg Arg Gln Arg Arg Arg
 1 5

<210> 34
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-14) (see Table 1)

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<220>
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 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 34

Arg Lys Glu Arg Arg Gln Arg Arg Arg
 1 5

<210> 35
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 35

Arg Lys Lys Glu Arg Gln Arg Arg Arg
 1 5

<210> 36
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-16) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>

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<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 36

Arg Lys Lys Arg Arg Glu Arg Arg Arg
1 5

<210> 37
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-17) (see Table 1)

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 37

Arg Lys Lys Arg Arg Gln Glu Arg Arg
1 5

<210> 38
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-18) (see Table 1)

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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT

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<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 38

Arg Lys Lys Arg Arg Gln Arg Glu Arg
1 5

<210> 39
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-19) (see Table 1)

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<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 39

Arg Phe Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 40
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-20) (see Table 1)

<220>
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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 40

Arg Lys Phe Arg Arg Gln Arg Arg Arg

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<210> 41
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> /replace="D-amino acid"

<400> 41

Arg Lys Lys Phe Arg Gln Arg Arg Arg
1 5

<210> 42
<211> 9
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<220>
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<220>
<221> VARIANT
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<223> /replace="D-amino acid"

<400> 42

Arg Lys Lys Arg Arg Phe Arg Arg Arg
1 5

<210> 43
<211> 9
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Sequence Listing_ST25

<213> Artificial Sequence

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<223> Description of sequence: trafficking sequence TAT(s2-23) (see Table 1)

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<221> VARIANT

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 43

Arg Lys Lys Arg Arg Gln Phe Arg Arg
1 5

<210> 44

<211> 9

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<220>

<223> Description of sequence: trafficking sequence TAT(s2-24) (see Table 1)

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<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

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<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

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<223> /replace="D-amino acid"

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Arg Lys Lys Arg Arg Gln Arg Phe Arg
1 5

<210> 45

<211> 9

<212> PRT

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<223> Description of sequence: trafficking sequence TAT(s2-25) (see Table 1)

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<220>
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<220>
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 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 45

Arg Arg Lys Arg Arg Gln Arg Arg Arg
 1 5

<210> 46
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-26) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 46

Arg Lys Arg Arg Arg Gln Arg Arg Arg
 1 5

<210> 47
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-27) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

Sequence Listing_ST25

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 47

Arg Lys Lys Lys Arg Gln Arg Arg Arg
 1 5

<210> 48
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-28) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 48

Arg Lys Lys Arg Arg Arg Arg Arg Arg
 1 5

<210> 49
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-29) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<220>

Sequence Listing_ST25

<221> VARIANT
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 <223> /replace="D-amino acid"

<400> 49

Arg Lys Lys Arg Arg Gln Lys Arg Arg
 1 5

<210> 50
 <211> 9
 <212> PRT
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<220>
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 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 50

Arg Lys Lys Arg Arg Gln Arg Lys Arg
 1 5

<210> 51
 <211> 9
 <212> PRT
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<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 51

Sequence Listing_ST25

Arg His Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 52
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<212> PRT
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<220>
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<220>
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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
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<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
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<223> /replace="D-amino acid"

<400> 52

Arg Lys His Arg Arg Gln Arg Arg Arg
1 5

<210> 53
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
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<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
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<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 53

Arg Lys Lys His Arg Gln Arg Arg Arg
1 5

<210> 54
<211> 9

Sequence Listing_ST25

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-34) (see Table 1)

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 54

Arg Lys Lys Arg Arg His Arg Arg Arg
1 5

<210> 55
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-35) (see Table 1)

<220>
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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
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<223> /replace="D-amino acid"

<220>
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<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 55

Arg Lys Lys Arg Arg Gln His Arg Arg
1 5

<210> 56
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-36) (see Table 1)

Sequence Listing_ST25

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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 56

Arg Lys Lys Arg Arg Gln Arg His Arg
 1 5

<210> 57
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 57

Arg Ile Lys Arg Arg Gln Arg Arg Arg
 1 5

<210> 58
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-38) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

Sequence Listing_ST25

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 58

Arg Lys Ile Arg Arg Gln Arg Arg Arg
 1 5

<210> 59
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-39) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 59

Arg Lys Lys Ile Arg Gln Arg Arg Arg
 1 5

<210> 60
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-40) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

Sequence Listing_ST25

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 60

Arg Lys Lys Arg Arg Ile Arg Arg Arg
 1 5

<210> 61
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-41) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 61

Arg Lys Lys Arg Arg Gln Ile Arg Arg
 1 5

<210> 62
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-42) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 62

Sequence Listing_ST25

Arg Lys Lys Arg Arg Gln Arg Ile Arg
1 5

<210> 63
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-43) (see Table 1)

<220>
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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 63

Arg Leu Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 64
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-44) (see Table 1)

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 64

Arg Lys Leu Arg Arg Gln Arg Arg Arg
1 5

<210> 65

Sequence Listing_ST25

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

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-45) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 65

Arg Lys Lys Leu Arg Gln Arg Arg Arg
 1 5

<210> 66
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-46) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 66

Arg Lys Lys Arg Arg Leu Arg Arg Arg
 1 5

<210> 67
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-47) (see Seite 29)

Sequence Listing_ST25

Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 67

Arg Lys Lys Arg Arg Gln Leu Arg Arg
 1 5

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

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-48) (see Table 1)

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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 68

Arg Lys Lys Arg Arg Gln Arg Leu Arg
 1 5

<210> 69
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-49) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)

Sequence Listing_ST25

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 69

Arg Met Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 70

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-50) (see Table 1)

<220>

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<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 70

Arg Lys Met Arg Arg Gln Arg Arg Arg
1 5

<210> 71

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-51) (see Table 1)

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<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

Sequence Listing_ST25

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 71

Arg Lys Lys Met Arg Gln Arg Arg Arg
 1 5

<210> 72
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-52) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 72

Arg Lys Lys Arg Arg Met Arg Arg Arg
 1 5

<210> 73
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-53) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

Sequence Listing_ST25

<400> 73

Arg Lys Lys Arg Arg Gln Met Arg Arg
1 5

<210> 74

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-54) (see Table 1)

<220>

<221> VARIANT

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 74

Arg Lys Lys Arg Arg Gln Arg Met Arg
1 5

<210> 75

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-55) (see Table 1)

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<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 75

Arg Asn Lys Arg Arg Gln Arg Arg Arg
1 5

Sequence Listing_ST25

<210> 76
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-56) (see Table 1)

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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 76

Arg Lys Asn Arg Arg Gln Arg Arg Arg
 1 5

<210> 77
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-57) (see Table 1)

<220>
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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 77

Arg Lys Lys Asn Arg Gln Arg Arg Arg
 1 5

<210> 78
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>

Sequence Listing_ST25

<223> Description of sequence: trafficking sequence TAT(s2-58) (see Table 1)

<220>
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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 78

Arg Lys Lys Arg Arg Asn Arg Arg Arg
1 5

<210> 79
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-59) (see Table 1)

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 79

Arg Lys Lys Arg Arg Gln Asn Arg Arg
1 5

<210> 80
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-60) (see Table 1)

<220>
<221> VARIANT

Sequence Listing_ST25

<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 80

Arg Lys Lys Arg Arg Gln Arg Asn Arg
1 5

<210> 81
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-61) (see Table 1)

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 81

Arg Gln Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 82
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-62) (see Table 1)

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (5)..(5)

Sequence Listing_ST25

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 82

Arg Lys Gln Arg Arg Gln Arg Arg Arg
1 5

<210> 83

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-63) (see Table 1)

<220>

<221> VARIANT

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 83

Arg Lys Lys Gln Arg Gln Arg Arg Arg
1 5

<210> 84

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-64) (see Table 1)

<220>

<221> VARIANT

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

Sequence Listing_ST25

<400> 84

Arg Lys Lys Arg Arg Lys Arg Arg Arg
1 5

<210> 85

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-65) (see Table 1)

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<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 85

Arg Lys Lys Arg Arg Gln Gln Arg Arg
1 5

<210> 86

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-66) (see Table 1)

<220>

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<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 86

Arg Lys Lys Arg Arg Gln Arg Gln Arg
1 5

Sequence Listing_ST25

<210> 87
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-67) (see Table 1)

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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 87

Arg Ser Lys Arg Arg Gln Arg Arg Arg
 1 5

<210> 88
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-68) (see Table 1)

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 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 88

Arg Lys Ser Arg Arg Gln Arg Arg Arg
 1 5

<210> 89
 <211> 9
 <212> PRT
 <213> Artificial Sequence

Sequence Listing_ST25

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-69) (see Table 1)

<220>
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 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 89

Arg Lys Lys Ser Arg Gln Arg Arg Arg
 1 5

<210> 90
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-70) (see Table 1)

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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<220>
 <221> VARIANT
 <222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 90

Arg Lys Lys Arg Arg Ser Arg Arg Arg
 1 5

<210> 91
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-71) (see Table 1)

<220>

Sequence Listing_ST25

<221> VARIANT
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<223> /replace="D-amino acid"

<220>
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<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
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<223> /replace="D-amino acid"

<400> 91

Arg Lys Lys Arg Arg Gln Ser Arg Arg
1 5

<210> 92
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> /replace="D-amino acid"

<220>
<221> VARIANT
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<223> /replace="D-amino acid"

<400> 92

Arg Lys Lys Arg Arg Gln Arg Ser Arg
1 5

<210> 93
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence TAT(s2-73) (see Table 1)

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<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
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Sequence Listing_ST25

<222> (5)..(5)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
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<223> /replace="D-amino acid"

<400> 93

Arg Thr Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 94
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<223> /replace="D-amino acid"

<220>
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<223> /replace="D-amino acid"

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<223> /replace="D-amino acid"

<400> 94

Arg Lys Thr Arg Arg Gln Arg Arg Arg
1 5

<210> 95
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> /replace="D-amino acid"

<220>
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Sequence Listing_ST25

<223> /replace="D-amino acid"

<400> 95

Arg Lys Lys Thr Arg Gln Arg Arg Arg
1 5

<210> 96

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-76) (see Table 1)

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<220>

<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 96

Arg Lys Lys Arg Arg Thr Arg Arg Arg
1 5

<210> 97

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-77) (see Table 1)

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<221> VARIANT

<222> (5)..(5)

<223> /replace="D-amino acid"

<220>

<221> VARIANT

<222> (9)..(9)

<223> /replace="D-amino acid"

<400> 97

Arg Lys Lys Arg Arg Gln Thr Arg Arg
1 5

Sequence Listing_ST25

<210> 98
 <211> 9
 <212> PRT
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<220>
 <223> Description of sequence: trafficking sequence TAT(s2-78) (see Table 1)

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 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
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<220>
 <221> VARIANT
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 <223> /replace="D-amino acid"

<400> 98

Arg Lys Lys Arg Arg Gln Thr Arg Arg
 1 5

<210> 99
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-79) (see Table 1)

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 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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 <222> (5)..(5)
 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 99

Arg Lys Lys Arg Arg Gln Thr Arg Arg
 1 5

<210> 100
 <211> 9
 <212> PRT
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Sequence Listing_ST25

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-80) (see Table 1)

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<220>
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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 100

Arg Lys Lys Arg Arg Gln Thr Arg Arg
 1 5

<210> 101
 <211> 9
 <212> PRT
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<220>
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<220>
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 <223> /replace="D-amino acid"

<220>
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<400> 101

Arg Lys Lys Arg Arg Gln Thr Arg Arg
 1 5

<210> 102
 <211> 9
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<220>
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Sequence Listing_ST25

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<220>
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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 102

Arg Lys Lys Arg Arg Gln Thr Arg Arg
 1 5

<210> 103
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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<220>
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<400> 103

Arg Lys Lys Arg Arg Gln Val Arg Arg
 1 5

<210> 104
 <211> 9
 <212> PRT
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<220>
 <223> Description of sequence: trafficking sequence TAT(s2-84) (see Table 1)

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<220>

Sequence Listing_ST25

<221> VARIANT
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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 104

Arg Lys Lys Arg Arg Gln Arg Val Arg
 1 5

<210> 105
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-85) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> /replace="D-amino acid"

<220>
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<400> 105

Arg Trp Lys Arg Arg Gln Arg Arg Arg
 1 5

<210> 106
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: trafficking sequence TAT(s2-86) (see Table 1)

<220>
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<220>
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 <222> (5)..(5)
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<220>
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Sequence Listing_ST25

<222> (9)..(9)
 <223> /replace="D-amino acid"

<400> 106

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 1 5

<210> 107
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 107

Arg Trp Lys Arg Arg Gln Arg Arg Arg
 1 5

<210> 108
 <211> 9
 <212> PRT
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<220>
 <223> Description of sequence: trafficking sequence TAT(s2-88) (see Table 1)

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<220>
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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 108

Arg Lys Lys Arg Arg Trp Arg Arg Arg

Sequence Listing_ST25

1

5

<210> 109
<211> 9
<212> PRT
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<220>
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<220>
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<400> 109

Arg Lys Lys Arg Arg Gln Trp Arg Arg
1 5

<210> 110
<211> 9
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<220>
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<220>
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<220>
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<400> 110

Arg Lys Lys Arg Arg Gln Arg Trp Arg
1 5

<210> 111
<211> 9
<212> PRT

Sequence Listing_ST25

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<220>

<223> Description of sequence: trafficking sequence TAT(s2-91) (see Table 1)

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<221> VARIANT

<222> (1)..(1)

<223> /replace="D-amino acid"

<220>

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<400> 111

Arg Tyr Lys Arg Arg Gln Arg Arg Arg
1 5

<210> 112

<211> 9

<212> PRT

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<220>

<223> Description of sequence: trafficking sequence TAT(s2-92) (see Table 1)

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<223> /replace="D-amino acid"

<220>

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<222> (5)..(5)

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<400> 112

Arg Lys Tyr Arg Arg Gln Arg Arg Arg
1 5

<210> 113

<211> 9

<212> PRT

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<223> Description of sequence: trafficking sequence TAT(s2-93) (see Table 1)

Sequence Listing_ST25

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 <223> /replace="D-amino acid"

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 <223> /replace="D-amino acid"

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 <223> /replace="D-amino acid"

<400> 113

Arg Lys Lys Tyr Arg Gln Arg Arg Arg
 1 5

<210> 114
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <223> /replace="D-amino acid"

<220>
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 <223> /replace="D-amino acid"

<400> 114

Arg Lys Lys Arg Arg Tyr Arg Arg Arg
 1 5

<210> 115
 <211> 9
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<220>
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 <223> /replace="D-amino acid"

Sequence Listing_ST25

<220>
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 <223> /replace="D-amino acid"

<400> 115

Arg Lys Lys Arg Arg Gln Tyr Arg Arg
 1 5

<210> 116
 <211> 9
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<220>
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<400> 116

Arg Lys Lys Arg Arg Gln Tyr Arg Arg
 1 5

<210> 117
 <211> 2953
 <212> DNA
 <213> Rattus norvegicus

<220>
 <221> misc_feature
 <223> description of sequence: rat IB1 cDNA sequence

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 gcccggaat ggcggagcga gagagcggcc tgagcggggg tgccgcgtcc ccaccggccg 180
 cttccccatt cctgggactg cacatcgcg cgcctcccaa tttcaggctc acccatgata 240
 tcagcctgga ggagtttgag gatgaagacc tttcggagat cactgatgag tgtggcatca 300

Sequence Listing_ST25

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acgcggcaag tgacactccg ggcgccgagg acgacgaaga ggacgacgac gagctcgtcg	480
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actcccatcg agatcgggtcc atatcagcag atgtgcggct cgaggcgact gaggagatct	960
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aagactattg gtatgaggcc tataacatgc gcactggagc ccgtggtgtc tttcctgcct	1740
actatgccat tgaggtcacc aaggagcctg agcacatggc agcccttgcc aaaaacagcg	1800
actggattga ccagttccgg gtgaagtcc tgggctctgt ccaggttcct tatcacaagg	1860
gcaatgatgt cctctgtgct gctatgcaaa agatcgccac caccgcccgg ctcaccgtgc	1920
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agcaccctgc tgaccaccgg tttgcctgcc atgtctttgt gtctgaagat tccaccaaag	2160
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cctgtcctac agaagatatc tacttggagt agcagcaacc cccctctctg cagccccctca	2280
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Sequence Listing_ST25

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aagccctgcc tgccagggaa ggttccctct cagctggccc cagccaactg gtcactgtct      2880
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<210> 118
<211> 714
<212> PRT
<213> Rattus norvegicus

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<221> misc_feature
<223> description of sequence: amino acid sequence encoded by of rat
      IB1 cDNA sequence

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<400> 118

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Gly Gly Ala Ala Ser Pro Pro Ala Ala Ser Pro Phe Leu Gly Leu His
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Ile Ala Ser Pro Pro Asn Phe Arg Leu Thr His Asp Ile Ser Leu Glu
          35          40          45

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Glu Phe Glu Asp Glu Asp Leu Ser Glu Ile Thr Asp Glu Cys Gly Ile
          50          55          60

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Ser Leu Gln Cys Lys Asp Thr Leu Ser Leu Arg Pro Pro Arg Ala Gly
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Leu Leu Ser Ala Gly Ser Ser Gly Ser Ala Gly Ser Arg Leu Gln Ala
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Glu Met Leu Gln Met Asp Leu Ile Asp Ala Ala Ser Asp Thr Pro Gly
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Ala Glu Asp Asp Glu Glu Asp Asp Asp Glu Leu Ala Ala Gln Arg Pro
          115          120          125

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Sequence Listing_ST25

Gly Val Gly Pro Ser Lys Ala Glu Ser Gly Gln Glu Pro Ala Ser Arg
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 Ser Gln Gly Gln Gly Gln Gly Pro Gly Thr Gly Cys Gly Asp Thr Tyr
 145 150 155 160
 Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg
 165 170 175
 Ser Gln Asp Thr Leu Asn Asn Asn Ser Leu Gly Lys Lys His Ser Trp
 180 185 190
 Gln Asp Arg Val Ser Arg Ser Ser Ser Pro Leu Lys Thr Gly Glu Gln
 195 200 205
 Thr Pro Pro His Glu His Ile Cys Leu Ser Asp Glu Leu Pro Pro Gln
 210 215 220
 Gly Ser Pro Val Pro Thr Gln Asp Arg Gly Thr Ser Thr Asp Ser Pro
 225 230 235 240
 Cys Arg Arg Thr Ala Ala Thr Gln Met Ala Pro Pro Ser Gly Pro Pro
 245 250 255
 Ala Thr Ala Pro Gly Gly Arg Gly His Ser His Arg Asp Arg Ser Ile
 260 265 270
 Ser Ala Asp Val Arg Leu Glu Ala Thr Glu Glu Ile Tyr Leu Thr Pro
 275 280 285
 Val Gln Arg Pro Pro Asp Pro Ala Glu Pro Thr Ser Thr Phe Leu Pro
 290 295 300
 Pro Thr Glu Ser Arg Met Ser Val Ser Ser Asp Pro Asp Pro Ala Ala
 305 310 315 320
 Tyr Ser Val Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Asp
 325 330 335
 Glu Gly Phe Asp Cys Leu Ser Ser Pro Glu Gln Ala Glu Pro Pro Gly
 340 345 350
 Gly Gly Trp Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Arg Ala
 355 360 365
 Ser Leu Ser Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr
 370 375 380
 Thr Leu Val Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg
 385 390 395 400

Sequence Listing_ST25

Pro Cys Phe Gly Asp Tyr Ser Asp Glu Ser Asp Ser Ala Thr Val Tyr
405 410 415

Asp Asn Cys Ala Ser Ala Ser Ser Pro Tyr Glu Ser Ala Ile Gly Glu
420 425 430

Glu Tyr Glu Glu Ala Pro Gln Pro Arg Pro Pro Thr Cys Leu Ser Glu
435 440 445

Asp Ser Thr Pro Asp Glu Pro Asp Val His Phe Ser Lys Lys Phe Leu
450 455 460

Asn Val Phe Met Ser Gly Arg Ser Arg Ser Ser Ser Ala Glu Ser Phe
465 470 475 480

Gly Leu Phe Ser Cys Val Ile Asn Gly Glu Glu His Glu Gln Thr His
485 490 495

Arg Ala Ile Phe Arg Phe Val Pro Arg His Glu Asp Glu Leu Glu Leu
500 505 510

Glu Val Asp Asp Pro Leu Leu Val Glu Leu Gln Ala Glu Asp Tyr Trp
515 520 525

Tyr Glu Ala Tyr Asn Met Arg Thr Gly Ala Arg Gly Val Phe Pro Ala
530 535 540

Tyr Tyr Ala Ile Glu Val Thr Lys Glu Pro Glu His Met Ala Ala Leu
545 550 555 560

Ala Lys Asn Ser Asp Trp Ile Asp Gln Phe Arg Val Lys Phe Leu Gly
565 570 575

Ser Val Gln Val Pro Tyr His Lys Gly Asn Asp Val Leu Cys Ala Ala
580 585 590

Met Gln Lys Ile Ala Thr Thr Arg Arg Leu Thr Val His Phe Asn Pro
595 600 605

Pro Ser Ser Cys Val Leu Glu Ile Ser Val Arg Gly Val Lys Ile Gly
610 615 620

Val Lys Ala Asp Glu Ala Gln Glu Ala Lys Gly Asn Lys Cys Ser His
625 630 635 640

Phe Phe Gln Leu Lys Asn Ile Ser Phe Cys Gly Tyr His Pro Lys Asn
645 650 655

Asn Lys Tyr Phe Gly Phe Ile Thr Lys His Pro Ala Asp His Arg Phe
660 665 670

Sequence Listing_ST25

Ala Cys His Val Phe Val Ser Glu Asp Ser Thr Lys Ala Leu Ala Glu
675 680 685

Ser Val Gly Arg Ala Phe Gln Gln Phe Tyr Lys Gln Phe Val Glu Tyr
690 695 700

Thr Cys Pro Thr Glu Asp Ile Tyr Leu Glu
705 710

<210> 119
<211> 711
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> description of sequence: human IB1 protein sequence

<220>
<221> misc_feature
<223> description of sequence: human IB1 protein sequence

<400> 119

Met Ala Glu Arg Glu Ser Gly Gly Leu Gly Gly Gly Ala Ala Ser Pro
1 5 10 15

Pro Ala Ala Ser Pro Phe Leu Gly Leu His Ile Ala Ser Pro Pro Asn
20 25 30

Phe Arg Leu Thr His Asp Ile Ser Leu Glu Glu Phe Glu Asp Glu Asp
35 40 45

Leu Ser Glu Ile Thr Asp Glu Cys Gly Ile Ser Leu Gln Cys Lys Asp
50 55 60

Thr Leu Ser Leu Arg Pro Pro Arg Ala Gly Leu Leu Ser Ala Gly Gly
65 70 75 80

Gly Gly Ala Gly Ser Arg Leu Gln Ala Glu Met Leu Gln Met Asp Leu
85 90 95

Ile Asp Ala Thr Gly Asp Thr Pro Gly Ala Glu Asp Asp Glu Glu Asp
100 105 110

Asp Asp Glu Glu Arg Ala Ala Arg Arg Pro Gly Ala Gly Pro Pro Lys
115 120 125

Ala Glu Ser Gly Gln Glu Pro Ala Ser Arg Gly Gln Gly Gln Ser Gln
130 135 140

Gly Gln Ser Gln Gly Pro Gly Ser Gly Asp Thr Tyr Arg Pro Lys Arg
145 150 155 160

Sequence Listing_ST25

Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp Thr
165 170 175

Leu Asn Asn Asn Ser Leu Gly Lys Lys His Ser Trp Gln Asp Arg Val
180 185 190

Ser Arg Ser Ser Ser Pro Leu Lys Thr Gly Glu Gln Thr Pro Pro His
195 200 205

Glu His Ile Cys Leu Ser Asp Glu Leu Pro Pro Gln Ser Gly Pro Ala
210 215 220

Pro Thr Thr Asp Arg Gly Thr Ser Thr Asp Ser Pro Cys Arg Arg Ser
225 230 235 240

Thr Ala Thr Gln Met Ala Pro Pro Gly Gly Pro Pro Ala Ala Pro Pro
245 250 255

Gly Gly Arg Gly His Ser His Arg Asp Arg Ile His Tyr Gln Ala Asp
260 265 270

Val Arg Leu Glu Ala Thr Glu Glu Ile Tyr Leu Thr Pro Val Gln Arg
275 280 285

Pro Pro Asp Ala Ala Glu Pro Thr Ser Ala Phe Leu Pro Pro Thr Glu
290 295 300

Ser Arg Met Ser Val Ser Ser Asp Pro Asp Pro Ala Ala Tyr Pro Ser
305 310 315 320

Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Gly Phe
325 330 335

Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Gly Gly Gly Trp
340 345 350

Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser
355 360 365

Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val
370 375 380

Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe
385 390 395 400

Gly Asp Tyr Ser Asp Glu Ser Asp Ser Ala Thr Val Tyr Asp Asn Cys
405 410 415

Ala ser val Ser Ser Pro Tyr Glu Ser Ala Ile Gly Glu Glu Tyr Glu
420 425 430

Sequence Listing_ST25

Glu Ala Pro Arg Pro Gln Pro Pro Ala Cys Leu Ser Glu Asp Ser Thr
 435 440 445
 Pro Asp Glu Pro Asp Val His Phe Ser Lys Lys Phe Leu Asn Val Phe
 450 455 460
 Met Ser Gly Arg Ser Arg Ser Ser Ser Ala Glu Ser Phe Gly Leu Phe
 465 470 475 480
 Ser Cys Ile Ile Asn Gly Glu Glu Gln Glu Gln Thr His Arg Ala Ile
 485 490 495
 Phe Arg Phe Val Pro Arg His Glu Asp Glu Leu Glu Leu Glu Val Asp
 500 505 510
 Asp Pro Leu Leu Val Glu Leu Gln Ala Glu Asp Tyr Trp Tyr Glu Ala
 515 520 525
 Tyr Asn Met Arg Thr Gly Ala Arg Gly Val Phe Pro Ala Tyr Tyr Ala
 530 535 540
 Ile Glu Val Thr Lys Glu Pro Glu His Met Ala Ala Leu Ala Lys Asn
 545 550 555 560
 Ser Asp Trp Val Asp Gln Phe Arg Val Lys Phe Leu Gly Ser Val Gln
 565 570 575
 Val Pro Tyr His Lys Gly Asn Asp Val Leu Cys Ala Ala Met Gln Lys
 580 585 590
 Ile Ala Thr Thr Arg Arg Leu Thr Val His Phe Asn Pro Pro Ser Ser
 595 600 605
 Cys Val Leu Glu Ile Ser Val Arg Gly Val Lys Ile Gly Val Lys Ala
 610 615 620
 Asp Asp Ser Gln Glu Ala Lys Gly Asn Lys Cys Ser His Phe Phe Gln
 625 630 635 640
 Leu Lys Asn Ile Ser Phe Cys Gly Tyr His Pro Lys Asn Asn Lys Tyr
 645 650 655
 Phe Gly Phe Ile Thr Lys His Pro Ala Asp His Arg Phe Ala Cys His
 660 665 670
 Val Phe Val Ser Glu Asp Ser Thr Lys Ala Leu Ala Glu Ser Val Gly
 675 680 685
 Arg Ala Phe Gln Gln Phe Tyr Lys Gln Phe Val Glu Tyr Thr Cys Pro
 690 695 700

Sequence Listing_ST25

Thr Glu Asp Ile Tyr Leu Glu
705 710

<210> 120
<211> 2136
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> description of sequence: nucleic acid sequence encoding human IB1 protein

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<400> 120
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ctggaggagt ttgaggatga agacctctcg gagatcactg atgagtgtgg catcagctta      180
cagtgcaaag acaccctgtc cttacggccc ccgcgcgccg ggctgctctc tgcgggcggc      240
ggcggcgccg ggagccggtt gcaggccgag atgtcgcaga tggacctgat cgacgcgacg      300
ggggacactc ccggggccga ggacgacgag gaggacgacg acgaggagcg cgcgggcccg      360
cggccgggag cggggccgcc caaggccgag tccggccagg agccggcgctc ccgcggccag      420
ggccagagcc aaggccagag ccaggggccc ggcagcgggg acacgtaccg gcccaagcgg      480
cccaccacgc tcaacctctt tccgcagggt ccgcggtctc aggacacact gaataataat      540
tctctgggca aaaagcacag ttggcaggat cgggtgtctc gatcatcctc acccctgaag      600
acaggggagc agacaccacc gcatgaacac atctgcctga gcgatgagct gccccccag      660
agcggccccg cccccaccac agatcgaggc acctccaccg acagcccttg ccgccgcagc      720
acagccaccc agatggcacc tccgggtggt ccccctgctg ccccgccctgg gggtcggggc      780
cactcgcata gagaccgaat ccaactaccg gccgatgtgc gactagaggc cactgaggag      840
atctacctga cccagtgca gagggcccca gacgctgcag agcccacctc cgccttcctg      900
ccgcccactg agagccggat gtcagtcagc tccgatccag accctgccgc ctaccctcc      960
acggcagggc ggccgcaccc ctccatcagt gaagaggaag agggcttcga ctgcctgtcg     1020
tccccagagc gggctgagcc cccaggcgga ggggtggcggg ggagcctggg ggagccgccg     1080
ccacctccac gggcctctct gagctcggac accagcgcgc tgtcctatga ctctgtcaag     1140
tacacgctgg tggtagatga gcatgcacag ctggagctgg tgagcctgcg gccgtgcttc     1200
ggagactaca gtgacgagag tgactctgcc accgtctatg acaactgtgc ctccgtctcc     1260
tcgccctatg agtcggccat cggagaggaa tatgaggagg ccccgcggcc ccagccccct     1320
gcctgcctct ccgaggactc cagcctgat gaacccgacg tccatttctc caagaaattc     1380
ctgaacgtct tcatgagtgg ccgctcccgc tcctccagtg ctgagtcctt cgggctgttc     1440
tcctgcatca tcaacgggga ggagcaggag cagaccacc gggccatatt caggtttgtg     1500
cctcgacacg aagacgaact tgagctggaa gtggatgacc ctctgctagt ggagctccag     1560

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Sequence Listing_ST25

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gctgaagact actggtacga ggcctacaac atgcgcaactg gtgcccgggg tgtctttcct 1620
gcctattacg ccacgaggt caccaaggag cccgagcaca tggcagccct ggccaaaaac 1680
agtgactggg tggaccagtt ccgggtgaag ttcctgggct cagtccaggt tccctatcac 1740
aagggaatg acgtcctctg tgctgctatg caaaagattg ccaccacccg ccggctcacc 1800
gtgcacttta acccgccctc cagctgtgtc ctggagatca gcgtgcgggg tgtgaagata 1860
ggcgtcaagg ccgatgactc ccaggaggcc aaggggaata aatgtagcca ctttttccag 1920
ttaaaaaaca tctctttctg cgatatcat ccaaagaaca acaagtactt tgggttcac 1980
accaagcacc ccgccgacca ccggtttgcc tgccacgtct ttgtgtctga agactccacc 2040
aaagccctgg cagagtccgt ggggagagca ttccagcagt tctacaagca gtttgtggag 2100
tacacctgcc ccacagaaga tatctacctg gagtag 2136

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<210> 121
<211> 19
<212> PRT
<213> Artificial

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<220>
<223> Description of sequence: Peptide L-IB1(s) (see Table 3)

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<400> 121

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Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg
1          5          10          15

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Ser Gln Asp

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<210> 122
<211> 19
<212> PRT
<213> Artificial

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<220>
<223> Description of sequence: Peptide D-IB1(s) (see Table 3)

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<220>
<221> MUTAGEN
<222> (1)..(19)
<223> all amino acids are D-amino acids

```

```

<400> 122

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```

Asp Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg
1          5          10          15

```

```

Lys Pro Arg

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<210> 123
<211> 19
<212> PRT
<213> Artificial

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Sequence Listing_ST25

<220>
<223> Description of sequence: Peptide L-IB (generic) (s) (see Table 3)

<220>
<221> misc_feature
<223> Description of sequence: Description of sequence: general
formula: NH2-Xnb-Xna-RPTTLXLXXXXXXQD-Xnb-COOH (see Table 1)

<220>
<221> misc_feature
<223> Description of sequence: Description of sequence: general
formula: NH2-Xnb-Xna-RPTTLXLXXXXXXQD-Xnb-COOH (see Table 3)

<220>
<221> VARIANT
<222> (1)..(1)
<223> Xaa is Xnb as defined in the general formula, wherein Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue;

<220>
<221> REPEAT
<222> (1)..(1)
<223> Xaa is Xnb as defined in the general formula, wherein n is 0-5, 5-10, 10-15, 15-20, 20-30 or more for Xnb

<220>
<221> VARIANT
<222> (2)..(2)
<223> Xaa is Xna as defined in the general formula, wherein Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue except serine and threonine

<220>
<221> REPEAT
<222> (2)..(2)
<223> Xaa is Xna as defined in the general formula, wherein n is 0 or 1

<220>
<221> VARIANT
<222> (8)..(8)
<223> Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue;

<220>
<221> VARIANT
<222> (10)..(16)
<223> Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue;

<220>
<221> REPEAT
<222> (19)..(19)
<223> Xaa is Xnb as defined in the general formula, wherein n is 0-5, 5-10, 10-15, 15-20, 20-30 or more for Xnb

<220>
<221> VARIANT
<222> (19)..(19)
<223> Xaa is Xnb as defined in the general formula, wherein Xaa represents an amino acid residue, preferably selected from any (native) amino acid residue;

<400> 123

Xaa Xaa Arg Pro Thr Thr Leu Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Sequence Listing_ST25

Gln Asp Xaa

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<210> 124
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: Peptide D-IB (generic) (s) (see Table 3)

<220>
<221> misc_feature
<223> Description of sequence: general formula:
      NH2-Xnb-DQXXXXXXXXLXLTPR-Xna-Xnb-COOH,

<220>
<221> MUTAGEN
<222> (1)..(19)
<223> all amino acids are D-amino acids

<220>
<221> VARIANT
<222> (1)..(11)
<223> Xaa is Xnb as defined in the general formula, wherein Xaa
      represents an amino acid residue, preferably selected from any
      (native) amino acid residue;

<220>
<221> REPEAT
<222> (1)..(1)
<223> Xaa is Xnb as defined in the general formula, wherein n is 0-5,
      5-10, 10-15, 15-20, 20-30 or more for Xnb

<220>
<221> VARIANT
<222> (4)..(10)
<223> Xaa represents an amino acid residue, preferably selected from
      any (native) amino acid residue;

<220>
<221> VARIANT
<222> (12)..(12)
<223> Xaa represents an amino acid residue, preferably selected from
      any (native) amino acid residue;

<220>
<221> REPEAT
<222> (18)..(18)
<223> Xaa is Xna as defined in the general formula, wherein n is 0 or 1

<220>
<221> VARIANT
<222> (18)..(18)
<223> Xaa is Xna as defined in the general formula, wherein Xaa
      represents an amino acid residue, preferably selected from any
      (native) amino acid residue residue except serine and Threonine

<220>
<221> VARIANT
<222> (18)..(18)
<223> Xaa is Xna as defined in the general formula, wherein Xaa
      represents an amino acid residue, preferably selected from any
      (native) amino acid residue residue except serine and threonine

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Sequence Listing_ST25

<220>
 <221> REPEAT
 <222> (19)..(19)
 <223> Xaa is Xnb as defined in the general formula, wherein n is 0-5,
 5-10, 10-15, 15-20, 20-30 or more for Xnb

<220>
 <221> VARIANT
 <222> (19)..(19)
 <223> Xaa is Xnb as defined in the general formula, wherein Xaa
 represents an amino acid residue, preferably selected from any
 (native) amino acid residue;

<400> 124

Xaa Asp Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Leu Thr Thr Pro
 1 5 10 15

Arg Xaa Xaa

<210> 125
 <211> 29
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: peptide IB1-long (see Table 3)

<400> 125

Pro Gly Thr Gly Cys Gly Asp Thr Tyr Arg Pro Lys Arg Pro Thr Thr
 1 5 10 15

Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp Thr
 20 25

<210> 126
 <211> 27
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: Peptide IB2-long (see Table 3)

<400> 126

Ile Pro Ser Pro Ser Val Glu Glu Pro His Lys His Arg Pro Thr Thr
 1 5 10 15

Leu Arg Leu Thr Thr Leu Gly Ala Gln Asp Ser
 20 25

<210> 127
 <211> 29
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: Peptide derived from c-Jun (see Table 3)

Sequence Listing_ST25

<400> 127

Gly Ala Tyr Gly Tyr Ser Asn Pro Lys Ile Leu Lys Gln Ser Met Thr
1 5 10 15

Leu Asn Leu Ala Asp Pro Val Gly Asn Leu Lys Pro His
20 25

<210> 128

<211> 29

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: Peptide derived from ATF2 (see Table 3)

<400> 128

Thr Asn Glu Asp His Leu Ala Val His Lys His Lys His Glu Met Thr
1 5 10 15

Leu Lys Phe Gly Pro Ala Arg Asn Asp Ser Val Ile Val
20 25

<210> 129

<211> 23

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: Peptide L-IB1 (see Table 3)

<400> 129

Asp Thr Tyr Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln
1 5 10 15

Val Pro Arg Ser Gln Asp Thr
20

<210> 130

<211> 23

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: Peptide D-IB1 (see Table 3)

<220>

<221> MUTAGEN

<222> (1)..(23)

<223> all amino acids are D-amino acids

<400> 130

Thr Asp Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro
1 5 10 15

Arg Lys Pro Arg Tyr Thr Asp
20

Sequence Listing_ST25

<210> 131
 <211> 19
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: Peptide L-IB (generic) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> Xaa is selected from any amino acid residue,

<220>
 <221> VARIANT
 <222> (7)..(7)
 <223> Xaa is selected from any amino acid residue,

<220>
 <221> VARIANT
 <222> (9)..(15)
 <223> Xaa is selected from any amino acid residue,

<220>
 <221> VARIANT
 <222> (18)..(18)
 <223> Xaa is selected from serine or threonine,

<220>
 <221> VARIANT
 <222> (19)..(19)
 <223> Xaa is selected from any amino acid residue,

<400> 131

Xaa Arg Pro Thr Thr Leu Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Gln
 1 5 10 15

Asp Xaa Xaa

<210> 132
 <211> 19
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: Peptide D-IB (generic) (see Table 3)

<220>
 <221> MUTAGEN
 <222> (1)..(19)
 <223> all amino acids are D-amino acids

<220>
 <221> VARIANT
 <222> (1)..(1)
 <223> Xaa is selected from any amino acid residue

<220>
 <221> VARIANT
 <222> (2)..(2)

Sequence Listing_ST25

<223> Xaa is selected from serine or threonine

<220>

<221> VARIANT

<222> (5)..(11)

<223> Xaa is selected from any amino acid residue

<220>

<221> VARIANT

<222> (13)..(13)

<223> Xaa is selected from any amino acid residue

<220>

<221> VARIANT

<222> (19)..(19)

<223> Xaa is selected from any amino acid residue

<400> 132

Xaa Xaa Asp Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Leu Thr Thr
1 5 10 15

Pro Arg Xaa

<210> 133

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s1) (see Table 3)

<400> 133

Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp
1 5 10

<210> 134

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s2) (see Table 3)

<400> 134

Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln
1 5 10

<210> 135

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s3) (see Table 3)

<400> 135

Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser
1 5 10

Sequence Listing_ST25

<210> 136
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: L-IB1(s4) (see Table 3)
 <400> 136

Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg
 1 5 10

<210> 137
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: L-IB1(s5) (see Table 3)
 <400> 137

Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro
 1 5 10

<210> 138
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: L-IB1(s6) (see Table 3)
 <400> 138

Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln Val
 1 5 10

<210> 139
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: L-IB1(s7) (see Table 3)
 <400> 139

Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln
 1 5 10

<210> 140
 <211> 12
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: L-IB1(s8) (see Table 3)
 <400> 140

Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp
 Seite 68

Sequence Listing_ST25
10

1

5

<210> 141
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s9) (see Table 3)
<400> 141

Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln
1 5 10

<210> 142
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s10) (see Table 3)
<400> 142

Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser
1 5 10

<210> 143
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s11) (see Table 3)
<400> 143

Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg
1 5 10

<210> 144
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s12) (see Table 3)
<400> 144

Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro
1 5 10

<210> 145
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s13) (see Table 3)
<400> 145

Sequence Listing_ST25

Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln Val
1 5 10

<210> 146
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s14) (see Table 3)

<400> 146

Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln
1 5 10

<210> 147
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s15) (see Table 3)

<400> 147

Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro
1 5 10

<210> 148
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s16) (see Table 3)

<400> 148

Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp
1 5 10

<210> 149
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s17) (see Table 3)

<400> 149

Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln
1 5 10

<210> 150
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: L-IB1(s18) (see Table 3)

Sequence Listing_ST25

<400> 150

Thr	Leu	Asn	Leu	Phe	Pro	Gln	Val	Pro	Arg	Ser
1				5					10	

<210> 151

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s19) (see Table 3)

<400> 151

Thr	Thr	Leu	Asn	Leu	Phe	Pro	Gln	Val	Pro	Arg
1				5					10	

<210> 152

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s20) (see Table 3)

<400> 152

Pro	Thr	Thr	Leu	Asn	Leu	Phe	Pro	Gln	Val	Pro
1				5					10	

<210> 153

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s21) (see Table 3)

<400> 153

Arg	Pro	Thr	Thr	Leu	Asn	Leu	Phe	Pro	Gln	Val
1				5					10	

<210> 154

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s22) (see Table 3)

<400> 154

Lys	Arg	Pro	Thr	Thr	Leu	Asn	Leu	Phe	Pro	Gln
1				5					10	

<210> 155

<211> 11

<212> PRT

<213> Artificial

Sequence Listing_ST25

<220>

<223> Description of sequence: L-IB1(s23) (see Table 3)

<400> 155

Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro
1 5 10

<210> 156

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s24) (see Table 3)

<400> 156

Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe
1 5 10

<210> 157

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s25) (see Table 3)

<400> 157

Leu Phe Pro Gln Val Pro Arg Ser Gln Asp
1 5 10

<210> 158

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s26) (see Table 3)

<400> 158

Asn Leu Phe Pro Gln Val Pro Arg Ser Gln
1 5 10

<210> 159

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s27) (see Table 3)

<400> 159

Leu Asn Leu Phe Pro Gln Val Pro Arg Ser
1 5 10

<210> 160

<211> 10

<212> PRT

Sequence Listing_ST25

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s28) (see Table 3)

<400> 160

Thr	Leu	Asn	Leu	Phe	Pro	Gln	Val	Pro	Arg
1				5					10

<210> 161

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s29) (see Table 3)

<400> 161

Thr	Thr	Leu	Asn	Leu	Phe	Pro	Gln	Val	Pro
1				5					10

<210> 162

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s30) (see Table 3)

<400> 162

Pro	Thr	Thr	Leu	Asn	Leu	Phe	Pro	Gln	Val
1				5					10

<210> 163

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s31) (see Table 3)

<400> 163

Arg	Pro	Thr	Thr	Leu	Asn	Leu	Phe	Pro	Gln
1				5					10

<210> 164

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: L-IB1(s32) (see Table 3)

<400> 164

Lys	Arg	Pro	Thr	Thr	Leu	Asn	Leu	Phe	Pro
1				5					10

<210> 165

Sequence Listing_ST25

<211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: L-IB1(s33) (see Table 3)

<400> 165

Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe
 1 5 10

<210> 166
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: L-IB1(s34) (see Table 3)

<400> 166

Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu
 1 5 10

<210> 167
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s1) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(13)
 <223> /replace="D-amino acid"

<400> 167

Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro Arg
 1 5 10

<210> 168
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s2) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(13)
 <223> /replace="D-amino acid"

<400> 168

Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro
 1 5 10

<210> 169

Sequence Listing_ST25

<211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s3) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(13)
 <223> /replace="D-amino acid"

<400> 169

Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys
 1 5 10

<210> 170
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s4) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(13)
 <223> /replace="D-amino acid"

<400> 170

Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg
 1 5 10

<210> 171
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s5) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(13)
 <223> /replace="D-amino acid"

<400> 171

Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro
 1 5 10

<210> 172
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s6) (see Table 3)

Sequence Listing_ST25

<220>
 <221> VARIANT
 <222> (1)..(13)
 <223> /replace="D-amino acid"

<400> 172

Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr
 1 5 10

<210> 173
 <211> 13
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s7) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(13)
 <223> /replace="D-amino acid"

<400> 173

Asp Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr
 1 5 10

<210> 174
 <211> 12
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s8) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(12)
 <223> /replace="D-amino acid"

<400> 174

Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro Arg
 1 5 10

<210> 175
 <211> 12
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s9) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(12)
 <223> /replace="D-amino acid"

<400> 175

Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro
 Seite 76

Sequence Listing_ST25
10

1

5

<210> 176
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s10) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(12)
<223> /replace="D-amino acid"

<400> 176

Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys
1 5 10

<210> 177
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s11) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(12)
<223> /replace="D-amino acid"

<400> 177

Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg
1 5 10

<210> 178
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s12) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(12)
<223> /replace="D-amino acid"

<400> 178

Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro
1 5 10

<210> 179
<211> 12
<212> PRT
<213> Artificial

Sequence Listing_ST25

<220>
<223> Description of sequence: D-IB1(s13) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(12)
<223> /replace="D-amino acid"

<400> 179

Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr
1 5 10

<210> 180
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s14) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(12)
<223> /replace="D-amino acid"

<400> 180

Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr
1 5 10

<210> 181
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s15) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(12)
<223> /replace="D-amino acid"

<400> 181

Asp Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu
1 5 10

<210> 182
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s16) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(11)
<223> /replace="D-amino acid"

Sequence Listing_ST25

<400> 182

Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro Arg
1 5 10

<210> 183

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: D-IB1(s17) (see Table 3)

<220>

<221> VARIANT

<222> (1)..(11)

<223> /replace="D-amino acid"

<400> 183

Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro
1 5 10

<210> 184

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: D-IB1(s18) (see Table 3)

<220>

<221> VARIANT

<222> (1)..(11)

<223> /replace="D-amino acid"

<400> 184

Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys
1 5 10

<210> 185

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: D-IB1(s19) (see Table 3)

<220>

<221> VARIANT

<222> (1)..(11)

<223> /replace="D-amino acid"

<400> 185

Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg
1 5 10

<210> 186

Sequence Listing_ST25

<211> 11
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s20) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(11)
<223> /replace="D-amino acid"

<400> 186

Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro
1 5 10

<210> 187
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s21) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(11)
<223> /replace="D-amino acid"

<400> 187

Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr
1 5 10

<210> 188
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s22) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(11)
<223> /replace="D-amino acid"

<400> 188

Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr
1 5 10

<210> 189
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s23) (see Table 3)

Sequence Listing_ST25

<220>
 <221> VARIANT
 <222> (1)..(11)
 <223> /replace="D-amino acid"

<400> 189

Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu
 1 5 10

<210> 190
 <211> 11
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s24) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(11)
 <223> /replace="D-amino acid"

<400> 190

Asp Gln Ser Arg Pro Val Gln Pro Phe Leu Asn
 1 5 10

<210> 191
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s25) (see Table 3)

<220>
 <221> VARIANT
 <222> (1)..(10)
 <223> /replace="D-amino acid"

<400> 191

Asp Gln Ser Arg Pro Val Gln Pro Phe Leu
 1 5 10

<210> 192
 <211> 10
 <212> PRT
 <213> Artificial

<220>
 <223> Description of sequence: D-IB1(s26) (see Table 1)

<220>
 <221> VARIANT
 <222> (1)..(10)
 <223> /replace="D-amino acid"

<400> 192

Gln Ser Arg Pro Val Gln Pro Phe Leu Asn
 1 5 10

Sequence Listing_ST25
10

1

5

<210> 193
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s27) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(10)
<223> /replace="D-amino acid"

<400> 193

Ser Arg Pro Val Gln Pro Phe Leu Asn Leu
1 5 10

<210> 194
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s28) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(10)
<223> /replace="D-amino acid"

<400> 194

Arg Pro Val Gln Pro Phe Leu Asn Leu Thr
1 5 10

<210> 195
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s29) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(10)
<223> /replace="D-amino acid"

<400> 195

Pro Val Gln Pro Phe Leu Asn Leu Thr Thr
1 5 10

<210> 196
<211> 10
<212> PRT
<213> Artificial

Sequence Listing_ST25

<220>
<223> Description of sequence: D-IB1(s30) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(10)
<223> /replace="D-amino acid"

<400> 196

Val	Gln	Pro	Phe	Leu	Asn	Leu	Thr	Thr	Pro
1				5					10

<210> 197
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s31) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(10)
<223> /replace="D-amino acid"

<400> 197

Gln	Pro	Phe	Leu	Asn	Leu	Thr	Thr	Pro	Arg
1				5					10

<210> 198
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s32) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(10)
<223> /replace="D-amino acid"

<400> 198

Pro	Phe	Leu	Asn	Leu	Thr	Thr	Pro	Arg	Lys
1				5					10

<210> 199
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Description of sequence: D-IB1(s33) (see Table 3)

<220>
<221> VARIANT
<222> (1)..(10)
<223> /replace="D-amino acid"

Sequence Listing_ST25

<400> 199

Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro
1 5 10

<210> 200

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of sequence: D-IB1(s34) (see Table 3)

<220>

<221> VARIANT

<222> (1)..(10)

<223> /replace="D-amino acid"

<400> 200

Leu Asn Leu Thr Thr Pro Arg Lys Pro Arg
1 5 10

<210> 201

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> Description of sequence: amino acid sequence of Bid (human)
(transcript variant 1)

<400> 201

Met Cys Ser Gly Ala Gly Val Met Met Ala Arg Trp Ala Ala Arg Gly
1 5 10 15

Arg Ala Gly Trp Arg Ser Thr Val Arg Ile Leu Ser Pro Leu Gly His
20 25 30

Cys Glu Pro Gly Val Ser Arg Ser Cys Arg Ala Ala Gln Ala Met Asp
35 40 45

Cys Glu Val Asn Asn Gly Ser Ser Leu Arg Asp Glu Cys Ile Thr Asn
50 55 60

Leu Leu Val Phe Gly Phe Leu Gln Ser Cys Ser Asp Asn Ser Phe Arg
65 70 75 80

Arg Glu Leu Asp Ala Leu Gly His Glu Leu Pro Val Leu Ala Pro Gln
85 90 95

Trp Glu Gly Tyr Asp Glu Leu Gln Thr Asp Gly Asn Arg Ser Ser His
100 105 110

Sequence Listing_ST25

Ser Arg Leu Gly Arg Ile Glu Ala Asp Ser Glu Ser Gln Glu Asp Ile
115 120 125

Ile Arg Asn Ile Ala Arg His Leu Ala Gln Val Gly Asp Ser Met Asp
130 135 140

Arg Ser Ile Pro Pro Gly Leu Val Asn Gly Leu Ala Leu Gln Leu Arg
145 150 155 160

Asn Thr Ser Arg Ser Glu Glu Asp Arg Asn Arg Asp Leu Ala Thr Ala
165 170 175

Leu Glu Gln Leu Leu Gln Ala Tyr Pro Arg Asp Met Glu Lys Glu Lys
180 185 190

Thr Met Leu Val Leu Ala Leu Leu Ala Lys Lys Val Ala Ser His
195 200 205

Thr Pro Ser Leu Leu Arg Asp Val Phe His Thr Thr Val Asn Phe Ile
210 215 220

Asn Gln Asn Leu Arg Thr Tyr Val Arg Ser Leu Ala Arg Asn Gly Met
225 230 235 240

Asp

<210> 202
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> Description of sequence: amino acid sequence of Bad (human)
<400> 202

Met Phe Gln Ile Pro Glu Phe Glu Pro Ser Glu Gln Glu Asp Ser Ser
1 5 10 15

Ser Ala Glu Arg Gly Leu Gly Pro Ser Pro Ala Gly Asp Gly Pro Ser
20 25 30

Gly Ser Gly Lys His His Arg Gln Ala Pro Gly Leu Leu Trp Asp Ala
35 40 45

Ser His Gln Gln Glu Gln Pro Thr Ser Ser Ser His His Gly Gly Ala
50 55 60

Gly Ala Val Glu Ile Arg Ser Arg His Ser Ser Tyr Pro Ala Gly Thr
65 70 75 80

Sequence Listing_ST25

Glu Asp Asp Glu Gly Met Gly Glu Glu Pro Ser Pro Phe Arg Gly Arg
85 90 95

Ser Arg Ser Ala Pro Pro Asn Leu Trp Ala Ala Gln Arg Tyr Gly Arg
100 105 110

Glu Leu Arg Arg Met Ser Asp Glu Phe Val Asp Ser Phe Lys Lys Gly
115 120 125

Leu Pro Arg Pro Lys Ser Ala Gly Thr Ala Thr Gln Met Arg Gln Ser
130 135 140

Ser Ser Trp Thr Arg Val Phe Gln Ser Trp Trp Asp Arg Asn Leu Gly
145 150 155 160

Arg Gly Ser Ser Ala Pro Ser Gln
165

<210> 203
<211> 483
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Description of sequence: amino acid sequence of Noxa1 (human)
<400> 203

Met Ala Ser Leu Gly Asp Leu Val Arg Ala Trp His Leu Gly Ala Gln
1 5 10 15

Ala Val Asp Arg Gly Asp Trp Ala Arg Ala Leu His Leu Phe Ser Gly
20 25 30

Val Pro Ala Pro Pro Ala Arg Leu Cys Phe Asn Ala Gly Cys Val His
35 40 45

Leu Leu Ala Gly Asp Pro Glu Ala Ala Leu Arg Ala Phe Asp Gln Ala
50 55 60

Val Thr Lys Asp Thr Cys Met Ala Val Gly Phe Phe Gln Arg Gly Val
65 70 75 80

Ala Asn Phe Gln Leu Ala Arg Phe Gln Glu Ala Leu Ser Asp Phe Trp
85 90 95

Leu Ala Leu Glu Gln Leu Arg Gly His Ala Ala Ile Asp Tyr Thr Gln
100 105 110

Leu Gly Leu Arg Phe Lys Leu Gln Ala Trp Glu Val Leu His Asn Val
115 120 125

Sequence Listing_ST25

Ala Ser Ala Gln Cys Gln Leu Gly Leu Trp Thr Glu Ala Ala Ser Ser
130 135 140

Leu Arg Glu Ala Met Ser Lys Trp Pro Glu Gly Ser Leu Asn Gly Leu
145 150 155 160

Asp Ser Ala Leu Asp Gln Val Gln Arg Arg Gly Ser Leu Pro Pro Arg
165 170 175

Gln Val Pro Arg Gly Glu Val Phe Arg Pro His Arg Trp His Leu Lys
180 185 190

His Leu Glu Pro Val Asp Phe Leu Gly Lys Ala Lys Val Val Ala Ser
195 200 205

Ala Ile Pro Asp Asp Gln Gly Trp Gly Val Arg Pro Gln Gln Pro Gln
210 215 220

Gly Pro Gly Ala Asn His Asp Ala Arg Ser Leu Ile Met Asp Ser Pro
225 230 235 240

Arg Ala Gly Thr His Gln Gly Pro Leu Asp Ala Glu Thr Glu Val Gly
245 250 255

Ala Asp Arg Cys Thr Ser Thr Ala Tyr Gln Glu Gln Arg Pro Gln Val
260 265 270

Glu Gln Val Gly Lys Gln Ala Pro Leu Ser Pro Gly Leu Pro Ala Met
275 280 285

Gly Gly Pro Gly Pro Gly Pro Cys Glu Asp Pro Ala Gly Ala Gly Gly
290 295 300

Ala Gly Ala Gly Gly Ser Glu Pro Leu Val Thr Val Thr Val Gln Cys
305 310 315 320

Ala Phe Thr Val Ala Leu Arg Ala Arg Arg Gly Ala Asp Leu Ser Ser
325 330 335

Leu Arg Ala Leu Leu Gly Gln Ala Leu Pro His Gln Ala Gln Leu Gly
340 345 350

Gln Leu Ser Tyr Leu Ala Pro Gly Glu Asp Gly His Trp Val Pro Ile
355 360 365

Pro Glu Glu Glu Ser Leu Gln Arg Ala Trp Gln Asp Ala Ala Ala Cys
370 375 380

Pro Arg Gly Leu Gln Leu Gln Cys Arg Gly Ala Gly Gly Arg Pro Val
385 390 395 400

Sequence Listing_ST25

Leu Tyr Gln Val Val Ala Gln His Ser Tyr Ser Ala Gln Gly Pro Glu
405 410 415

Asp Leu Gly Phe Arg Gln Gly Asp Thr Val Asp Val Leu Cys Glu Glu
420 425 430

Pro Asp Val Pro Leu Ala Val Asp Gln Ala Trp Leu Glu Gly His Cys
435 440 445

Asp Gly Arg Ile Gly Ile Phe Pro Lys Cys Phe Val Val Pro Ala Gly
450 455 460

Pro Arg Met Ser Gly Ala Pro Gly Arg Leu Pro Arg Ser Gln Gln Gly
465 470 475 480

Asp Gln Pro

<210> 204
<211> 193
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<223> Description of sequence: amino acid sequence of Puma (human)

<400> 204

Met Ala Arg Ala Arg Gln Glu Gly Ser Ser Pro Glu Pro Val Glu Gly
1 5 10 15

Leu Ala Arg Asp Gly Pro Arg Pro Phe Pro Leu Gly Arg Leu Val Pro
20 25 30

Ser Ala Val Ser Cys Gly Leu Cys Glu Pro Gly Leu Ala Ala Ala Pro
35 40 45

Ala Ala Pro Thr Leu Leu Pro Ala Ala Tyr Leu Cys Ala Pro Thr Ala
50 55 60

Pro Pro Ala Val Thr Ala Ala Leu Gly Gly Ser Arg Trp Pro Gly Gly
65 70 75 80

Pro Arg Ser Arg Pro Arg Gly Pro Arg Pro Asp Gly Pro Gln Pro Ser
85 90 95

Leu Ser Leu Ala Glu Gln His Leu Glu Ser Pro Val Pro Ser Ala Pro
100 105 110

Gly Ala Leu Ala Gly Gly Pro Thr Gln Ala Ala Pro Gly Val Arg Gly
115 120 125

Sequence Listing_ST25

Glu Glu Glu Gln Trp Ala Arg Glu Ile Gly Ala Gln Leu Arg Arg Met
 130 135 140
 Ala Asp Asp Leu Asn Ala Gln Tyr Glu Arg Arg Arg Gln Glu Glu Gln
 145 150 155 160
 Gln Arg His Arg Pro Ser Pro Trp Arg Val Leu Tyr Asn Leu Ile Met
 165 170 175
 Gly Leu Leu Pro Leu Pro Arg Gly His Arg Ala Pro Glu Met Glu Pro
 180 185 190

Asn

<210> 205
 <211> 198
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> MISC_FEATURE
 <223> Description of sequence: amino acid sequence of Bim (human)
 (transcript variant 1)

<400> 205
 Met Ala Lys Gln Pro Ser Asp Val Ser Ser Glu Cys Asp Arg Glu Gly
 1 5 10 15
 Arg Gln Leu Gln Pro Ala Glu Arg Pro Pro Gln Leu Arg Pro Gly Ala
 20 25 30
 Pro Thr Ser Leu Gln Thr Glu Pro Gln Gly Asn Pro Glu Gly Asn His
 35 40 45
 Gly Gly Glu Gly Asp Ser Cys Pro His Gly Ser Pro Gln Gly Pro Leu
 50 55 60
 Ala Pro Pro Ala Ser Pro Gly Pro Phe Ala Thr Arg Ser Pro Leu Phe
 65 70 75 80
 Ile Phe Met Arg Arg Ser Ser Leu Leu Ser Arg Ser Ser Ser Gly Tyr
 85 90 95
 Phe Ser Phe Asp Thr Asp Arg Ser Pro Ala Pro Met Ser Cys Asp Lys
 100 105 110
 Ser Thr Gln Thr Pro Ser Pro Pro Cys Gln Ala Phe Asn His Tyr Leu
 115 120 125
 Ser Ala Met Ala Ser Met Arg Gln Ala Glu Pro Ala Asp Met Arg Pro
 130 135 140

Sequence Listing_ST25

Glu Ile Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn
145 150 155 160

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

Asp His Pro Arg Met Val Ile Leu Arg Leu Leu Arg Tyr Ile Val Arg
180 185 190

Leu Val Trp Arg Met His
195

<210> 206

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<223> Description of sequence: amino acid sequence of Bik (human)

<400> 206

Met Ser Glu Val Arg Pro Leu Ser Arg Asp Ile Leu Met Glu Thr Leu
1 5 10 15

Leu Tyr Glu Gln Leu Leu Glu Pro Pro Thr Met Glu Val Leu Gly Met
20 25 30

Thr Asp Ser Glu Glu Asp Leu Asp Pro Met Glu Asp Phe Asp Ser Leu
35 40 45

Glu Cys Met Glu Gly Ser Asp Ala Leu Ala Leu Arg Leu Ala Cys Ile
50 55 60

Gly Asp Glu Met Asp Val Ser Leu Arg Ala Pro Arg Leu Ala Gln Leu
65 70 75 80

Ser Glu Val Ala Met His Ser Leu Gly Leu Ala Phe Ile Tyr Asp Gln
85 90 95

Thr Glu Asp Ile Arg Asp Val Leu Arg Ser Phe Met Asp Gly Phe Thr
100 105 110

Thr Leu Lys Glu Asn Ile Met Arg Phe Trp Arg Ser Pro Asn Pro Gly
115 120 125

Ser Trp Val Ser Cys Glu Gln Val Leu Leu Ala Leu Leu Leu Leu Leu
130 135 140

Ala Leu Leu Leu Pro Leu Leu Ser Gly Gly Leu His Leu Leu Leu Lys
145 150 155 160

Sequence Listing_ST25

<210> 207
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Description of sequence: native L-amino acid sequence of the
 BH3-domain of Bik (Bik BH3)

<400> 207

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

Leu Arg

<210> 208
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Description of sequence: native L-amino acid sequence of the
 BH3-domain of Bad (Bad BH3)

<400> 208

Arg Tyr Gly Arg Glu Leu Arg Arg Met Ser Asp Glu Phe Val Asp Ser
 1 5 10 15

Phe Lys

<210> 209
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Description of sequence: native L-amino acid sequence of the
 BH3-domain of Bid (Bid BH3)

<400> 209

Asn Ile Ala Arg His Leu Ala Gln Val Gly Asp Ser Met Asp Arg Ser
 1 5 10 15

Ile Pro

<210> 210
 <211> 18
 <212> PRT
 <213> Homo sapiens

Sequence Listing_ST25

<220>
 <221> misc_feature
 <223> Description of sequence: native L-amino acid sequence of the
 BH3-domain of Bmf (Bmf BH3)

<400> 210

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

His Val

<210> 211
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Description of sequence: native L-amino acid sequence of the
 BH3-domain of DP5/Hrk (DP5Hrk BH3)

<400> 211

Leu Thr Ala Ala Arg Leu Lys Ala Ile Gly Asp Glu Leu His Gln Arg
 1 5 10 15

Thr Met

<210> 212
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Description of sequence: native L-amino acid sequence of the
 BH3-domain of Bim (Bim BH3)

<400> 212

Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn Ala Tyr
 1 5 10 15

Tyr Ala

<210> 213
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Description of sequence: native L-amino acid sequence of the
 Seite 92

Sequence Listing_ST25
BH3-domain of Noxa (Noxa BH3)

<400> 213

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

Gln Lys

<210> 214

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Description of sequence: native L-amino acid sequence of the
BH3-domain of PUMA (PUMA BH3)

<400> 214

Glu Ile Gly Ala Gln Leu Arg Arg Met Ala Asp Asp Leu Asn Ala Gln
1 5 10 15

Tyr Glu

<210> 215

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Description of sequence: native L-amino acid sequence of the
BH3-domain of Bax (Bax BH3)

<400> 215

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

Met Glu

<210> 216

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Description of sequence: native L-amino acid sequence of the
BH3-domain of Bak (Bak BH3)

<400> 216

Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn Arg Arg
Seite 93

Sequence Listing_ST25
10

1 5 15

Tyr Asp

<210> 217
<211> 18
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Description of sequence: native L-amino acid sequence of the
BH3-domain of Bok (Bok BH3)

<400> 217

Glu Val Cys Thr Val Leu Leu Arg Leu Gly Asp Glu Leu Glu Gln Ile
1 5 10 15

Arg Pro

<210> 218
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: signal sequence or localisation sequence

<400> 218

Lys Asp Glu Leu
1

<210> 219
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: signal sequence or localisation sequence

<400> 219

Asp Asp Glu Leu
1

<210> 220
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: signal sequence or localisation sequence

<400> 220

Asp Glu Glu Leu
1

Sequence Listing_ST25

<210> 221
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: signal sequence or localisation sequence
 <400> 221

Gln Glu Asp Leu
 1

<210> 222
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: signal sequence or localisation sequence
 <400> 222

Arg Asp Glu Leu
 1

<210> 223
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: signal sequence or localisation sequence
 <400> 223

Pro Lys Lys Lys Arg Lys Val
 1 5

<210> 224
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: signal sequence or localisation sequence
 <400> 224

Pro Gln Lys Lys Ile Lys Ser
 1 5

<210> 225
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of sequence: signal sequence or localisation sequence
 <400> 225

Sequence Listing_ST25

Gln Pro Lys Lys Pro
1 5

<210> 226
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: signal sequence or localisation sequence
<400> 226

Arg Lys Lys Arg
1

<210> 227
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: signal sequence or localisation sequence
<400> 227

Arg Lys Lys Arg Arg Gln Arg Arg Arg Ala His Gln
1 5 10

<210> 228
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: signal sequence or localisation sequence
<400> 228

Arg Gln Ala Arg Arg Asn Arg Arg Arg Arg Trp Arg Glu Arg Gln Arg
1 5 10 15

<210> 229
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: signal sequence or localisation sequence
<400> 229

Met Pro Leu Thr Arg Arg Arg Pro Ala Ala Ser Gln Ala Leu Ala Pro
1 5 10 15

Pro Thr Pro

<210> 230
<211> 15
<212> PRT
<213> Artificial Sequence

Sequence Listing_ST25

<220>
<223> Description of sequence: signal sequence or localisation sequence

<400> 230

Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro
1 5 10 15

<210> 231
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of sequence: trafficking sequence r3R6

<220>
<221> VARIANT
<222> (1)..(1)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (4)..(4)
<223> /replace="D-amino acid"

<220>
<221> VARIANT
<222> (9)..(9)
<223> /replace="D-amino acid"

<400> 231

Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

<210> 232
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Trafficking control sequence

<400> 232

Asp Ala Lys
1

<210> 233
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> D-TAT-IB1 (XG-102)

<220>
<221> VARIANT
<222> (1)..(31)
<223> /replace="D-amino acid"

Sequence Listing_ST25

<400> 233

Asp Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg
1 5 10 15

Lys Pro Arg Pro Pro Arg Arg Arg Gln Arg Arg Lys Lys Arg Gly
20 25 30

<210> 234

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: L-TAT-IB1 (s)

<400> 234

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Arg Pro Lys Arg
1 5 10 15

Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp
20 25 30