

Sequence Listing 221209\_ST25  
SEQUENCE LISTING

<110> Xigen S.A.

<120> Novel Transporter Constructs and Transporter Cargo Conjugate Molecules

<130> CX01P027W01

<150> PCT/EP2008/011003  
<151> 2008-12-22

<160> 262

<170> PatentIn version 3.5

<210> 1  
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D1LLLxDm(LLLyDn)a

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1 5

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<220>  
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<211> 13

<212> PRT

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<223> Description of artificial sequence: generic subformula (Ic)  
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<220>  
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa

<210> 6  
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 1 5

<210> 7  
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1 5

<210> 8  
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<213> Human immunodeficiency virus type 1

<220>  
<221> misc\_feature  
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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> 9  
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<213> Human immunodeficiency virus type 1

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<221> misc\_feature

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

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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> 10

<211> 22

<212> PRT

<213> Human immunodeficiency virus type 1

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<221> misc\_feature

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

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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> 11

<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> 11

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

Gln Arg Arg Arg Pro Gly Gly Cys  
20

<210> 12

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<213> Human immunodeficiency virus type 1



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<220>  
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Cys Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro  
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<210> 13  
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<220>  
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Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Gly Gly Cys  
 1 5 10 15

<210> 14  
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<400> 14

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  
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His Gln Val Ser Leu Ser Lys Gln  
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<210> 15  
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Xaa Xaa Xaa Xaa Arg Lys Lys Arg Arg Gln Arg Arg Arg Xaa Xaa Xaa  
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Xaa

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 (see Table 1)

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<220>  
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Xaa Arg Lys Lys Arg Arg Gln Arg Arg Arg Xaa  
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<210> 17  
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<211> 9

<212> PRT

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<210> 23  
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<210> 26  
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<211> 9

<212> PRT

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<211> 9

<212> PRT

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<211> 9

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<212> PRT  
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<210> 32  
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1 5

<210> 33  
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1 5

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1 5

<210> 35  
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1 5

<210> 36  
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1 5

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<210> 38  
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<213> Artificial Sequence

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<211> 9

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<210> 42

<211> 9

<212> PRT

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

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1 5

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<211> 9

<212> PRT

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1 5

<210> 44

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 44



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Arg Phe Lys Arg Arg Gln Arg Arg Arg  
1 5

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

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1 5

<210> 46  
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<400> 46

Arg Lys Lys Phe Arg Gln Arg Arg Arg  
1 5

<210> 47  
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1 5

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<220>  
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<210> 50  
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1 5

<210> 51  
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<210> 52  
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<220>  
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1 5

<210> 53  
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Arg Lys Lys Arg Arg Arg Arg Arg Arg

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1

5

<210> 54  
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<212> PRT  
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<220>  
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Arg Lys Lys Arg Arg Gln Lys Arg Arg  
1 5

<210> 55  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-30) (see Table 1)

<400> 55

Arg Lys Lys Arg Arg Gln Arg Lys Arg  
1 5

<210> 56  
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<213> Artificial Sequence

<220>  
<223> Description of sequence: trafficking sequence TAT(s2-31) (see Table 1)

<400> 56

Arg His Lys Arg Arg Gln Arg Arg Arg  
1 5

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

<220>  
<223> Description of sequence: trafficking sequence TAT(s2-32) (see Table 1)

<400> 57

Arg Lys His Arg Arg Gln Arg Arg Arg  
1 5

<210> 58  
<211> 9  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-33) (see Table 1)

<400> 58

Arg Lys Lys His Arg Gln Arg Arg Arg  
1 5

<210> 59  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-34) (see Table 1)

<400> 59

Arg Lys Lys Arg Arg His Arg Arg Arg  
1 5

<210> 60  
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<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-35) (see Table 1)

<400> 60

Arg Lys Lys Arg Arg Gln His Arg Arg  
1 5

<210> 61  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-36) (see Table 1)

<400> 61

Arg Lys Lys Arg Arg Gln Arg His Arg  
1 5

<210> 62  
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<213> Artificial Sequence

<220>  
<223> Description of sequence: trafficking sequence TAT(s2-37) (see Table 1)

<400> 62

Arg Ile Lys Arg Arg Gln Arg Arg Arg  
1 5

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

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

<400> 63

Arg Lys Ile Arg Arg Gln Arg Arg Arg  
 1 5

<210> 64  
 <211> 9  
 <212> PRT  
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<220>  
 <223> Description of sequence: trafficking sequence TAT(s2-39) (see Table 1)

<400> 64

Arg Lys Lys Ile Arg Gln Arg Arg Arg  
 1 5

<210> 65  
 <211> 9  
 <212> PRT  
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<220>  
 <223> Description of sequence: trafficking sequence TAT(s2-40) (see Table 1)

<400> 65

Arg Lys Lys Arg Arg Ile Arg Arg Arg  
 1 5

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

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

<400> 66

Arg Lys Lys Arg Arg Gln Ile Arg Arg  
 1 5

<210> 67  
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<220>

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

<400> 67

Arg Lys Lys Arg Arg Gln Arg Ile Arg  
1 5

<210> 68

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 68

Arg Leu Lys Arg Arg Gln Arg Arg Arg  
1 5

<210> 69

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 69

Arg Lys Leu 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(s2-45) (see Table 1)

<400> 70

Arg Lys Lys Leu Arg Gln Arg Arg Arg  
1 5

<210> 71

<211> 9

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<213> Artificial Sequence

<220>

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

<400> 71

Arg Lys Lys Arg Arg Leu Arg Arg Arg  
1 5

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<210> 72  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-47) (see Table 1)

<400> 72

Arg Lys Lys Arg Arg Gln Leu Arg Arg  
1 5

<210> 73  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-48) (see Table 1)

<400> 73

Arg Lys Lys Arg Arg Gln Arg Leu Arg  
1 5

<210> 74  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-49) (see Table 1)

<400> 74

Arg Met Lys Arg Arg Gln Arg Arg Arg  
1 5

<210> 75  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-50) (see Table 1)

<400> 75

Arg Lys Met Arg Arg Gln Arg Arg Arg  
1 5

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

<220>  
<223> Description of sequence: trafficking sequence TAT(s2-51) (see  
Seite 23

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Table 1)

<400> 76

Arg Lys Lys Met Arg Gln Arg Arg Arg  
1 5

<210> 77

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 77

Arg Lys Lys Arg Arg Met Arg Arg Arg  
1 5

<210> 78

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 78

Arg Lys Lys Arg Arg Gln Met Arg Arg  
1 5

<210> 79

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 79

Arg Lys Lys Arg Arg Gln Arg Met Arg  
1 5

<210> 80

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 80

Arg Asn Lys Arg Arg Gln Arg Arg Arg  
1 5



# Sequence Listing 221209\_ST25

<210> 81  
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 <220>  
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 Arg Lys Asn Arg Arg Gln Arg Arg Arg  
 1 5  
  
 <210> 82  
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 Arg Lys Lys Asn Arg Gln Arg Arg Arg  
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 <210> 83  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of sequence: trafficking sequence TAT(s2-58) (see Table 1)  
  
 <400> 83  
 Arg Lys Lys Arg Arg Asn Arg Arg Arg  
 1 5  
  
 <210> 84  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of sequence: trafficking sequence TAT(s2-59) (see Table 1)  
  
 <400> 84  
 Arg Lys Lys Arg Arg Gln Asn Arg Arg  
 1 5  
  
 <210> 85  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of sequence: trafficking sequence TAT(s2-60) (see Table 1)

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<400> 85

Arg Lys Lys Arg Arg Gln Arg Asn Arg  
1 5

<210> 86

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 86

Arg Gln Lys Arg Arg Gln Arg Arg Arg  
1 5

<210> 87

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 87

Arg Lys Gln 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(s2-63) (see Table 1)

<400> 88

Arg Lys Lys Gln Arg Gln Arg Arg Arg  
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<210> 89

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 89

Arg Lys Lys Arg Arg Lys Arg Arg Arg  
1 5

<210> 90

# Sequence Listing 221209\_ST25

<211> 9  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-65) (see Table 1)

<400> 90

Arg Lys Lys Arg Arg Gln Gln Arg Arg  
1 5

<210> 91  
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<223> Description of sequence: trafficking sequence TAT(s2-66) (see Table 1)

<400> 91

Arg Lys Lys Arg Arg Gln Arg Gln Arg  
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<210> 92  
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<223> Description of sequence: trafficking sequence TAT(s2-67) (see Table 1)

<400> 92

Arg Ser Lys Arg Arg Gln Arg Arg Arg  
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<210> 93  
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<223> Description of sequence: trafficking sequence TAT(s2-68) (see Table 1)

<400> 93

Arg Lys Ser Arg Arg Gln Arg Arg Arg  
1 5

<210> 94  
<211> 9  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-69) (see Table 1)

# Sequence Listing 221209\_ST25

<400> 94

Arg Lys Lys Ser Arg Gln Arg Arg Arg  
1 5

<210> 95

<211> 9

<212> PRT

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

<400> 95

Arg Lys Lys Arg Arg Ser Arg Arg Arg  
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<210> 96

<211> 9

<212> PRT

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

<400> 96

Arg Lys Lys Arg Arg Gln Ser Arg Arg  
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<210> 97

<211> 9

<212> PRT

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<223> Description of sequence: trafficking sequence TAT(s2-72) (see Table 1)

<400> 97

Arg Lys Lys Arg Arg Gln Ser Arg Arg  
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<210> 98

<211> 9

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

<400> 98

Arg Thr Lys Arg Arg Gln Arg Arg Arg  
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<210> 99

<211> 9

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<212> PRT  
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 Arg Lys Thr Arg Arg Gln Arg Arg Arg  
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 Arg Lys Lys Thr Arg Gln Arg Arg Arg  
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 <210> 101  
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 Arg Lys Lys Arg Arg Thr Arg Arg Arg  
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 <223> Description of sequence: trafficking sequence TAT(s2-77) (see Table 1)  
  
 <400> 102  
 Arg Lys Lys Arg Arg Gln Thr Arg Arg  
 1 5  
  
 <210> 103  
 <211> 9  
 <212> PRT  
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 <220>  
 <223> Description of sequence: trafficking sequence TAT(s2-78) (see Table 1)  
  
 <400> 103

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Arg Lys Lys Arg Arg Gln Arg Thr Arg  
1 5

<210> 104  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-79) (see Table 1)

<400> 104

Arg Val Lys Arg Arg Gln Arg Arg Arg  
1 5

<210> 105  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-80) (see Table 1)

<400> 105

Arg Lys Val Arg Arg Gln Arg Arg Arg  
1 5

<210> 106  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-81) (see Table 1)

<400> 106

Arg Lys Lys Val Arg Gln Arg Arg Arg  
1 5

<210> 107  
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<223> Description of sequence: trafficking sequence TAT(s2-82) (see Table 1)

<400> 107

Arg Lys Lys Arg Arg Val Arg Arg Arg  
1 5

<210> 108  
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<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-83) (see Table 1)

<400> 108

Arg Lys Lys Arg Arg Gln Val Arg Arg  
1 5

<210> 109

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-84) (see Table 1)

<400> 109

Arg Lys Lys Arg Arg Gln Arg Val Arg  
1 5

<210> 110

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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

<400> 110

Arg Trp Lys Arg Arg Gln Arg Arg Arg  
1 5

<210> 111

<211> 9

<212> PRT

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<220>

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

<400> 111

Arg Lys Trp Arg Arg Gln Arg Arg Arg  
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<210> 112

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence TAT(s2-87) (see Table 1)

<400> 112

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Arg Lys Lys Trp Arg Gln Arg Arg Arg  
1 5

<210> 113  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-88) (see Table 1)

<400> 113

Arg Lys Lys Arg Arg Trp Arg Arg Arg  
1 5

<210> 114  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-89) (see Table 1)

<400> 114

Arg Lys Lys Arg Arg Gln Trp Arg Arg  
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<210> 115  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-90) (see Table 1)

<400> 115

Arg Lys Lys Arg Arg Gln Arg Trp Arg  
1 5

<210> 116  
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<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-91) (see Table 1)

<400> 116

Arg Tyr Lys Arg Arg Gln Arg Arg Arg  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-92) (see Table 1)

<400> 117

Arg Lys Tyr Arg Arg Gln Arg Arg Arg  
1 5

<210> 118  
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<223> Description of sequence: trafficking sequence TAT(s2-93) (see Table 1)

<400> 118

Arg Lys Lys Tyr Arg Gln Arg Arg Arg  
1 5

<210> 119  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-94) (see Table 1)

<400> 119

Arg Lys Lys Arg Arg Tyr Arg Arg Arg  
1 5

<210> 120  
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<223> Description of sequence: trafficking sequence TAT(s2-95) (see Table 1)

<400> 120

Arg Lys Lys Arg Arg Gln Tyr Arg Arg  
1 5

<210> 121  
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<220>  
<223> Description of sequence: trafficking sequence TAT(s2-96) (see Table 1)

<400> 121

Arg Lys Lys Arg Arg Gln Arg Tyr Arg

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5

<210> 122  
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<223> Description of sequence: trafficking sequence r3R6 (see Table 1)

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<400> 122

Arg Arg Arg Arg Arg Arg Arg Arg  
1 5

<210> 123  
<211> 9  
<212> PRT  
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<220>  
<223> Description of sequence: trafficking sequence L-R9 (see Table 1)

<400> 123

Arg Arg Arg Arg Arg Arg Arg Arg  
1 5

<210> 124  
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<220>  
<223> Description of sequence: trafficking sequence L-R8 (see Table 1)

<400> 124

Arg Arg Arg Arg Arg Arg Arg Arg  
1 5

<210> 125  
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<213> Artificial Sequence

<220>  
<223> Description of sequence: trafficking sequence L-R7 (see Table 1)

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<400> 125

Arg Arg Arg Arg Arg Arg Arg  
1 5

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<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence L-R6 (see Table 1)

<400> 126

Arg Arg Arg Arg Arg Arg  
1 5

<210> 127

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence L-R5 (see Table 1)

<400> 127

Arg Arg Arg Arg Arg  
1 5

<210> 128

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence PTD-4 (see Table 1)

<400> 128

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala  
1 5 10

<210> 129

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<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence PTD-4 (variant 1)  
(see Table 1)

<400> 129

Trp Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala  
1 5 10

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<211> 11

<212> PRT

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<213> Artificial Sequence

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<223> Description of sequence: trafficking sequence PTD-4 (variant 2)  
(see Table 1)

<400> 130

Trp Ala Arg Ala Gln Arg Ala Ala Ala Arg Ala  
1 5 10

<210> 131

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<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence L-P1 (Penetratin)  
(see Table 1)

<400> 131

Arg Gln Val Lys Val Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys  
1 5 10 15

<210> 132

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence D-P1 (Penetratin)  
(see Table 1)

<400> 132

Lys Lys Trp Lys Met Arg Arg Asn Gln Phe Trp Val Lys Val Gln Arg  
1 5 10 15

<210> 133

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence JNK1, bestfit (see  
Table 1)

<400> 133

Trp Lys Arg Ala Ala Ala Arg Lys Ala Arg Ala Met Ser Leu Asn Leu  
1 5 10 15

Phe

<210> 134

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence JNK1, bestfit  
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(variant 1) (see Table 1)

<400> 134

Trp Lys Arg Ala Ala Ala Arg Ala Ala Arg Ala Met Ser Leu Asn Leu  
1 5 10 15

Phe

<210> 135

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<212> PRT

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<223> Description of sequence: trafficking sequence MDCK transcytose  
sequence (see Table 1)

<400> 135

Arg Tyr Arg Gly Asp Leu Gly Arg Arg  
1 5

<210> 136

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<213> Artificial Sequence

<220>

<223> Description of sequence: trafficking sequence YKGL (see Table 1)

<400> 136

Tyr Lys Gly Leu  
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<210> 137

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<221> misc\_feature

<223> description of sequence: rat IB1 cDNA sequence

<400> 137

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gtgtcatcaa	tggggaggag	catgagcaaa	cccatcgggc	tatattcagg	tttgtgcctc	1620
ggcatgaaga	tgaacttgag	ctggaagtgg	acgaccctct	gctggtggag	ctgcaggcag	1680
aagactattg	gtatgaggcc	tataacatgc	gcactggagc	ccgtggtgtc	tttcctgcct	1740
actatgccat	tgaggtcacc	aaggagcctg	agcacatggc	agcccttgcc	aaaaacagcg	1800
actggattga	ccagttccgg	gtgaagtcc	tgggctctgt	ccaggttcct	tatcacagg	1860
gcaatgatgt	cctctgtgct	gctatgcaaa	agatcgccac	caccgcccgg	ctcaccgtgc	1920
actttaaccc	gccctccagc	tgtgtccttg	aaatcagcgt	taggggtgtc	aagatagggtg	1980
tcaaagctga	tgaagctcag	gaggccaagg	gaaataaatg	tagccacttt	ttccagctaa	2040
aaaacatctc	tttctgtggg	taccatccaa	agaacaacaa	gtactttggg	tttatcacta	2100
agcaccctgc	tgaccaccgg	tttgccctgc	atgtctttgt	gtctgaagat	tccaccaaag	2160
ccctggcaga	gtctgtgggg	cgtgcatttc	agcagttcta	caagcaattt	gtggaatata	2220
cctgtcctac	agaagatatc	tacttgaggt	agcagcaacc	cccctctctg	cagccccctca	2280
gccccaggcc	agtactagga	cagctgactg	ctgacaggat	gttgtagctgc	cacgagagaa	2340
tgggggagtg	agggctgttg	gggtcggggg	gcaggggttt	ggggagaggc	agatgcagtt	2400
tattgtaata	tatgggggta	gattaatcta	tggaggacag	tacaggctct	ctcggggctg	2460
gggaagggca	gggctggggg	gggggtcagg	catctggcca	caaaggggtc	ccctaggggac	2520

# Sequence Listing 221209\_ST25

```

agaggcgctg caccatcctg ggcttgtttc atactagagg ccctggcttt ctggctcttg      2580
ggctctgcct tgacaaagcc cagccacctg gaagtgtcac cttcccttgt ccacctcacc      2640
cagtgccctg agctcatgct gagcccaagc acctccgaag gactttccag taaggaaatg      2700
gcaacatgtg acagtgagac cctgtttctca tctgtggggc tccggcagct ccgaccccca      2760
gcctggccag cacgctgacc ctggcaagct tgtgtgttca aagaaggaga gggccacagc      2820
aagccctgcc tgccagggaa ggttccctct cagctggccc cagccaactg gtcactgtct      2880
tgtcacctgg ctactactat taaagtgccca tttcttgtct gaaaaaaaaa aaaaaaaaaa      2940
aaaaaaaaactc gag                                                         2953

```

```

<210> 138
<211> 714
<212> PRT
<213> Rattus norvegicus

```

```

<220>
<221> misc_feature
<223> description of sequence: amino acid sequence encoded by of rat
      IB1 cDNA sequence

```

<400> 138

```

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

```

```

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

```

```

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

```

```

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

```

```

Ser Leu Gln Cys Lys Asp Thr Leu Ser Leu Arg Pro Pro Arg Ala Gly
      65           70           75           80

```

```

Leu Leu Ser Ala Gly Ser Ser Gly Ser Ala Gly Ser Arg Leu Gln Ala
      85           90           95

```

```

Glu Met Leu Gln Met Asp Leu Ile Asp Ala Ala Ser Asp Thr Pro Gly
      100          105          110

```

```

Ala Glu Asp Asp Glu Glu Asp Asp Asp Glu Leu Ala Ala Gln Arg Pro
      115          120          125

```

```

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

```

```

Ser Gln Gly Gln Gly Gln Gly Pro Gly Thr Gly Cys Gly Asp Thr Tyr
      145          150          155          160

```

# Sequence Listing 221209\_ST25

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  
 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



# Sequence Listing 221209\_ST25

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 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  
 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

# Sequence Listing 221209\_ST25

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

<210> 139  
<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> 139

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

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

# Sequence Listing 221209\_ST25

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 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  
 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

# Sequence Listing 221209\_ST25

```

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

Thr Glu Asp Ile Tyr Leu Glu
705                               710

```

<210> 140  
<211> 2136

# Sequence Listing 221209\_ST25

<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> 140
atggcggagc gagaaagcgg cggcctggga gggggggccg cgtccccgcc cgccgcctcc      60
ccgttccttg ggctgcacat cgcttcgcct cccaatttca ggctcaccca tgacatcagc      120
ctggaggagt ttgaggatga agacctctcg gagatcactg atgagtgtgg catcagctta      180
cagtgcaaag acaccctgtc cttacggccc ccgcgcgccg ggctgctctc tgcgggcggc      240
ggcggcgccg ggagccggtt gcaggccgag atgctgcaga tggacctgat cgacgcgacg      300
ggggacactc ccggggccga ggacgacgag gaggacgacg acgaggagcg cgcggcccgg      360
cggccggggag cggggccgcc caaggccgag tccggccagg agccggcgtc ccgcggccag      420
ggccagagcc aaggccagag ccaggggccc ggacgcgggg acacgtaccg gccaagcgg      480
cccaccacgc tcaacctctt tccgcaggtg ccgcggtctc aggacacact gaataataat      540
tctctgggca aaaagcacag ttggcaggat cgggtgtctc gatcatctc acccctgaag      600
acaggggagc agacaccacc gcatgaacac atctgcctga gcgatgagct gccccccag      660
agcggccccg cccccaccac agatcgaggc acctccaccg acagcccttg ccgccgcagc      720
acagccacc agatggcacc tccgggtggt cccctgctg cccgccttg gggtcggggc      780
cactcgcac gagaccgaat ccactaccag gccgatgtgc gactagaggc cactgaggag      840
atctacctga cccagtgca gaggcccca gacgtgcag agccacctc cgccttcctg      900
ccgccccactg agagccggat gtcagtcagc tccgatccag accctgccgc ctaccctcc      960
acggcagggc ggccgcaccc ctccatcagt gaagaggaag agggcttcga ctgcctgtcg     1020
tccccagagc gggctgagcc ccagggcga ggggtggcgg ggagcctgg ggagccgccg     1080
ccacctccac gggcctctct gagctcggac accagcgccc tgtcctatga ctctgtcaag     1140
tacacgctgg tggtagatga gcatgcacag ctggagctgg tgagcctgcg gccgtgcttc     1200
ggagactaca gtgacgagag tgactctgcc accgtctatg acaactgtgc ctccgtctcc     1260
tcgccctatg agtcggccat cggagaggaa tatgaggagg cccgcgggcc ccagccccct     1320
gcctgcctct ccgaggactc cacgcctgat gaacccgacg tccatttctc caagaaattc     1380
ctgaacgtct tcatgagtgg ccgctccgc tcctccagtg ctgagtcctt cgggctgttc     1440
tcctgcatca tcaacgggga ggagcaggag cagaccacc gggccatatt caggtttgtg     1500
cctcgacacg aagacgaact tgagctggaa gtggatgacc ctctgctagt ggagctccag     1560
gctgaagact actggtacga ggcctacaac atgcgcactg gtgcccgggg tgtctttcct     1620
gcctattacg ccatcgaggt caccaaggag cccgagcaca tggcagccct ggccaaaaac     1680
agtgactggg tggaccagtt ccgggtgaag ttctgggct cagtccaggt tccctatcac     1740
```

# Sequence Listing 221209\_ST25

```

aagggcaatg acgtcctctg tgctgctatg caaaagattg ccaccaccg cgggtcacc      1800
gtgcacttta acccgccctc cagctgtgtc ctggagatca gcgtgcgggg tgtgaagata      1860
ggcgtcaagg ccgatgactc ccaggaggcc aaggggaata aatgtagcca cttttccag      1920
ttaaaaaaca tctctttctg cggatatcat ccaaagaaca acaagtactt tgggttcac      1980
accaagcacc ccgccgacca ccggtttgcc tgccacgtct ttgtgtctga agactccacc      2040
aaagccctgg cagagtccgt ggggagagca ttccagcagt tctacaagca gtttgtggag      2100
tacacctgcc ccacagaaga tatctacctg gagtag                                2136

```

```

<210> 141
<211> 19
<212> PRT
<213> Artificial

```

```

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

```

```

<400> 141

```

```

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

```

Ser Gln Asp

```

<210> 142
<211> 19
<212> PRT
<213> Artificial

```

```

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

```

```

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

```

```

<400> 142

```

```

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

```

Lys Pro Arg

```

<210> 143
<211> 19
<212> PRT
<213> Artificial

```

```

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

```

```

<220>
<221> misc_feature

```

# Sequence Listing 221209\_ST25

<223> Description of sequence: Description of sequence: general formula: NH<sub>2</sub>-Xnb-Xna-RPTTLXLXXXXXXXXXD-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>  
 <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> 143

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

Gln Asp Xaa

<210> 144  
 <211> 19  
 <212> PRT  
 <213> Artificial

# Sequence Listing 221209\_ST25

<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

<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



Sequence Listing 221209\_ST25  
represents an amino acid residue, preferably selected from any  
(native) amino acid residue;

<400> 144

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

Arg Xaa Xaa

<210> 145

<211> 29

<212> PRT

<213> Artificial

<220>

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

<400> 145

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> 146

<211> 27

<212> PRT

<213> Artificial

<220>

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

<400> 146

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> 147

<211> 29

<212> PRT

<213> Artificial

<220>

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

<400> 147

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> 148

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

<220>  
<223> Description of sequence: Peptide derived from ATF2 (see Table 3)  
<400> 148

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> 149  
<211> 23  
<212> PRT  
<213> Artificial

<220>  
<223> Description of sequence: Peptide L-IB1 (see Table 3)  
<400> 149

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> 150  
<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> 150

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

<210> 151  
<211> 19  
<212> PRT  
<213> Artificial

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

# Sequence Listing 221209\_ST25

```

<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> 151
Xaa Arg Pro Thr Thr Leu Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Gln
1          5          10          15

```

Asp Xaa Xaa

```

<210> 152
<211> 19
<212> PRT
<213> Artificial

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

<220>
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<223> Xaa is selected from any amino acid residue

<220>
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<222> (2)..(2)
<223> Xaa is selected from serine or threonine

<220>
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<222> (5)..(11)
<223> Xaa is selected from any amino acid residue

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<223> Xaa is selected from any amino acid residue

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<220>  
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 <222> (19)..(19)  
 <223> Xaa is selected from any amino acid residue  
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 Xaa Xaa Asp Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Leu Thr Thr  
 1 5 10 15

Pro Arg Xaa

<210> 153  
 <211> 13  
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<220>  
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Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp  
 1 5 10

<210> 154  
 <211> 13  
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<220>  
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 <400> 154

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

<210> 155  
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<220>  
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Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser  
 1 5 10

<210> 156  
 <211> 13  
 <212> PRT  
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<220>  
 <223> Description of sequence: L-IB1(s4) (see Table 3)  
 <400> 156

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

<210> 157  
<211> 13  
<212> PRT  
<213> Artificial

<220>  
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<400> 157

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

<210> 158  
<211> 13  
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<213> Artificial

<220>  
<223> Description of sequence: L-IB1(s6) (see Table 3)  
<400> 158

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

<210> 159  
<211> 13  
<212> PRT  
<213> Artificial

<220>  
<223> Description of sequence: L-IB1(s7) (see Table 3)  
<400> 159

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

<210> 160  
<211> 12  
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<220>  
<223> Description of sequence: L-IB1(s8) (see Table 3)  
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Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp  
1 5 10

<210> 161  
<211> 12  
<212> PRT  
<213> Artificial

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

# Sequence Listing 221209\_ST25

<400> 161

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

<210> 162

<211> 12

<212> PRT

<213> Artificial

<220>

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

<400> 162

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

<210> 163

<211> 12

<212> PRT

<213> Artificial

<220>

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

<400> 163

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

<210> 164

<211> 12

<212> PRT

<213> Artificial

<220>

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

<400> 164

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

<210> 165

<211> 12

<212> PRT

<213> Artificial

<220>

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

<400> 165

Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln Val  
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<210> 166

<211> 12

<212> PRT

<213> Artificial

<220>

Sequence Listing 221209\_ST25

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

<400> 166

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

<210> 167

<211> 12

<212> PRT

<213> Artificial

<220>

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

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

<210> 168

<211> 11

<212> PRT

<213> Artificial

<220>

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

<400> 168

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

<210> 169

<211> 11

<212> PRT

<213> Artificial

<220>

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

<400> 169

Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln  
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<210> 170

<211> 11

<212> PRT

<213> Artificial

<220>

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

<400> 170

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

<210> 171

<211> 11

<212> PRT

<213> Artificial

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<220>  
<223> Description of sequence: L-IB1(s19) (see Table 3)

<400> 171

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

<210> 172  
<211> 11  
<212> PRT  
<213> Artificial

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

<400> 172

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

<210> 173  
<211> 11  
<212> PRT  
<213> Artificial

<220>  
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<400> 173

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

<210> 174  
<211> 11  
<212> PRT  
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<220>  
<223> Description of sequence: L-IB1(s22) (see Table 3)

<400> 174

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

<210> 175  
<211> 11  
<212> PRT  
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<220>  
<223> Description of sequence: L-IB1(s23) (see Table 3)

<400> 175

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

<210> 176  
<211> 11



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<212> PRT  
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<220>  
<223> Description of sequence: L-IB1(s24) (see Table 3)

<400> 176

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

<210> 177  
<211> 10  
<212> PRT  
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<220>  
<223> Description of sequence: L-IB1(s25) (see Table 3)

<400> 177

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

<210> 178  
<211> 10  
<212> PRT  
<213> Artificial

<220>  
<223> Description of sequence: L-IB1(s26) (see Table 3)

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

<210> 179  
<211> 10  
<212> PRT  
<213> Artificial

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

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

<210> 180  
<211> 10  
<212> PRT  
<213> Artificial

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

<400> 180

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

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<210> 181  
<211> 10  
<212> PRT  
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<220>  
<223> Description of sequence: L-IB1(s29) (see Table 3)

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

<210> 182  
<211> 10  
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<220>  
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1 5 10

<210> 183  
<211> 10  
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<220>  
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Arg Pro Thr Thr Leu Asn Leu Phe Pro Gln  
1 5 10

<210> 184  
<211> 10  
<212> PRT  
<213> Artificial

<220>  
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Lys Arg Pro Thr Thr Leu Asn Leu Phe Pro  
1 5 10

<210> 185  
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<220>  
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Pro Lys Arg Pro Thr Thr Leu Asn Leu Phe  
1 5 10

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<210> 186  
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 <212> PRT  
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<220>  
 <223> Description of sequence: L-IB1(s34) (see Table 3)  
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Arg Pro Lys Arg Pro Thr Thr Leu Asn Leu  
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<210> 187  
 <211> 13  
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<220>  
 <223> Description of sequence: D-IB1(s1) (see Table 3)

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 <222> (1)..(13)  
 <223> all amino acids are D-amino acids  
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Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro Arg  
 1 5 10

<210> 188  
 <211> 13  
 <212> PRT  
 <213> Artificial

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

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 <222> (1)..(13)  
 <223> all amino acids are D-amino acids  
 <400> 188

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

<210> 189  
 <211> 13  
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<220>  
 <223> Description of sequence: D-IB1(s3) (see Table 3)

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 <222> (1)..(13)

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<223> all amino acids are D-amino acids

<400> 189

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

<210> 190

<211> 13

<212> PRT

<213> Artificial

<220>

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

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<222> (1)..(13)

<223> all amino acids are D-amino acids

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

<210> 191

<211> 13

<212> PRT

<213> Artificial

<220>

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

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<222> (1)..(13)

<223> all amino acids are D-amino acids

<400> 191

Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro  
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<210> 192

<211> 13

<212> PRT

<213> Artificial

<220>

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

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<222> (1)..(13)

<223> all amino acids are D-amino acids

<400> 192

Gln Ser Arg Pro Val Gln Pro Phe Leu Asn Leu Thr Thr  
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<210> 193  
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<220>  
 <223> Description of sequence: D-IB1(s7) (see Table 3)

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<400> 193

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

<210> 194  
 <211> 12  
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<220>  
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Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys Pro Arg  
 1 5 10

<210> 195  
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 <212> PRT  
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<220>  
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 1 5 10

<210> 196  
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<220>  
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# Sequence Listing 221209\_ST25

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Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys  
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 <212> PRT  
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<220>  
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<400> 197

Pro Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg  
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<210> 198  
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<220>  
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<210> 199  
 <211> 12  
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<220>  
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 <223> all amino acids are D-amino acids

<400> 199

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1 5 10

<210> 200  
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<220>  
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<223> all amino acids are D-amino acids

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

<210> 201  
<211> 12  
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<220>  
<223> Description of sequence: D-IB1(s15) (see Table 3)

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<223> all amino acids are D-amino acids

<400> 201

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

<210> 202  
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<220>  
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<400> 202

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

<210> 203  
<211> 11  
<212> PRT  
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<220>  
<223> Description of sequence: D-IB1(s17) (see Table 3)

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<221> MUTAGEN  
<222> (1)..(11)  
<223> all amino acids are D-amino acids  
  
<400> 203

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

<210> 204  
<211> 11  
<212> PRT  
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<220>  
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<222> (1)..(11)  
<223> all amino acids are D-amino acids  
  
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Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg Lys  
1 5 10

<210> 205  
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<212> PRT  
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<220>  
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<222> (1)..(11)  
<223> all amino acids are D-amino acids  
  
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Val Gln Pro Phe Leu Asn Leu Thr Thr Pro Arg  
1 5 10

<210> 206  
<211> 11  
<212> PRT  
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<220>  
<223> Description of sequence: D-IB1(s20) (see Table 3)

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<222> (1)..(11)



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<223> all amino acids are D-amino acids

<400> 206

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

<210> 207

<211> 11

<212> PRT

<213> Artificial

<220>

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

<220>

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<222> (1)..(11)

<223> all amino acids are D-amino acids

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1 5 10

<210> 208

<211> 11

<212> PRT

<213> Artificial

<220>

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

<220>

<221> MUTAGEN

<222> (1)..(11)

<223> all amino acids are D-amino acids

<400> 208

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

<210> 209

<211> 11

<212> PRT

<213> Artificial

<220>

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

<220>

<221> MUTAGEN

<222> (1)..(11)

<223> all amino acids are D-amino acids

<400> 209

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

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<210> 210  
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<220>  
 <223> Description of sequence: D-IB1(s24) (see Table 3)

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<400> 210

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

<210> 211  
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 <212> PRT  
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<220>  
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 <222> (1)..(10)  
 <223> all amino acids are D-amino acids

<400> 211

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

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

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

<210> 213  
 <211> 10  
 <212> PRT  
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<220>  
 <223> Description of sequence: D-IB1(s27) (see Table 3)

# Sequence Listing 221209\_ST25

<220>  
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 <223> all amino acids are D-amino acids

<400> 213

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

<210> 214  
 <211> 10  
 <212> PRT  
 <213> Artificial

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

<220>  
 <221> MUTAGEN  
 <222> (1)..(10)  
 <223> all amino acids are D-amino acids

<400> 214

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

<210> 215  
 <211> 10  
 <212> PRT  
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<220>  
 <223> Description of sequence: D-IB1(s29) (see Table 3)

<220>  
 <221> MUTAGEN  
 <222> (1)..(10)  
 <223> all amino acids are D-amino acids

<400> 215

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

<210> 216  
 <211> 10  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: D-IB1(s30) (see Table 3)

<220>  
 <221> MUTAGEN  
 <222> (1)..(10)  
 <223> all amino acids are D-amino acids

<400> 216

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

<210> 217  
<211> 10  
<212> PRT  
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<220>  
<223> Description of sequence: D-IB1(s31) (see Table 3)

<220>  
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<222> (1)..(10)  
<223> all amino acids are D-amino acids

<400> 217

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

<210> 218  
<211> 10  
<212> PRT  
<213> Artificial

<220>  
<223> Description of sequence: D-IB1(s32) (see Table 3)

<220>  
<221> MUTAGEN  
<222> (1)..(10)  
<223> all amino acids are D-amino acids

<400> 218

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

<210> 219  
<211> 10  
<212> PRT  
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<220>  
<223> Description of sequence: D-IB1(s33) (see Table 3)

<220>  
<221> MUTAGEN  
<222> (1)..(10)  
<223> all amino acids are D-amino acids

<400> 219

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

<210> 220  
<211> 10  
<212> PRT  
<213> Artificial

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

<220>  
<221> MUTAGEN  
<222> (1)..(10)  
<223> all amino acids are D-amino acids

<400> 220

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

<210> 221  
<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> 221

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

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

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Asn Thr Ser Arg Ser Glu Glu Asp Arg Asn Arg Asp Leu Ala Thr Ala  
165 170  
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> 222  
<211> 168  
<212> PRT  
<213> Homo sapiens  
<220>  
<221> MISC\_FEATURE  
<223> Description of sequence: amino acid sequence of Bad (human)  
<400> 222

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  
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

# Sequence Listing 221209\_ST25

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> 223  
<211> 483  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Description of sequence: amino acid sequence of Noxa1 (human)  
<400> 223

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

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

Sequence Listing 221209\_ST25

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

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



# Sequence Listing 221209\_ST25

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> 224  
<211> 193  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> Description of sequence: amino acid sequence of Puma (human)  
<400> 224

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

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

# Sequence Listing 221209\_ST25

Gly Leu Leu Pro Leu Pro Arg Gly His Arg Ala Pro Glu Met Glu Pro  
180 185 190

Asn

<210> 225  
<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> 225

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

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

# Sequence Listing 221209\_ST25

Leu Val Trp Arg Met His  
195

<210> 226  
<211> 160  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<223> Description of sequence: amino acid sequence of Bik (human)  
<400> 226

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

<210> 227  
<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)

# Sequence Listing 221209\_ST25

<400> 227

Ala Leu Ala Leu Arg Leu Ala Cys Ile Gly Asp Glu Met Asp Val Ser  
1 5 10 15

Leu Arg

<210> 228

<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> 228

Arg Tyr Gly Arg Glu Leu Arg Arg Met Ser Asp Glu Phe Val Asp Ser  
1 5 10 15

Phe Lys

<210> 229

<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> 229

Asn Ile Ala Arg His Leu Ala Gln Val Gly Asp Ser Met Asp Arg Ser  
1 5 10 15

Ile Pro

<210> 230

<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 Bmf (Bmf BH3)

<400> 230

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

# Sequence Listing 221209\_ST25

His Val

<210> 231  
<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> 231

Leu Thr Ala Ala Arg Leu Lys Ala Ile Gly Asp Glu Leu His Gln Arg  
1 5 10 15

Thr Met

<210> 232  
<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> 232

Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn Ala Tyr  
1 5 10 15

Tyr Ala

<210> 233  
<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 Noxa (Noxa BH3)

<400> 233

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

Gln Lys

# Sequence Listing 221209\_ST25

<210> 234  
 <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> 234

Glu Ile Gly Ala Gln Leu Arg Arg Met Ala Asp Asp Leu Asn Ala Gln  
 1 5 10 15

Tyr Glu

<210> 235  
 <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> 235

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

Met Glu

<210> 236  
 <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> 236

Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn Arg Arg  
 1 5 10 15

Tyr Asp

<210> 237  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

# Sequence Listing 221209\_ST25

<220>  
 <221> misc\_feature  
 <223> Description of sequence: native L-amino acid sequence of the  
 BH3-domain of Bok (Bok BH3)

<400> 237

Glu Val Cys Thr Val Leu Leu Arg Leu Gly Asp Glu Leu Glu Gln Ile  
 1 5 10 15

Arg Pro

<210> 238  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of sequence: signal sequence or localisation sequence

<400> 238

Lys Asp Glu Leu  
 1

<210> 239  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of sequence: signal sequence or localisation sequence

<400> 239

Asp Asp Glu Leu  
 1

<210> 240  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of sequence: signal sequence or localisation sequence

<400> 240

Asp Glu Glu Leu  
 1

<210> 241  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of sequence: signal sequence or localisation sequence

<400> 241

# Sequence Listing 221209\_ST25

Gln Glu Asp Leu  
1

<210> 242  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of sequence: signal sequence or localisation sequence  
<400> 242

Arg Asp Glu Leu  
1

<210> 243  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of sequence: signal sequence or localisation sequence  
<400> 243

Pro Lys Lys Lys Arg Lys Val  
1 5

<210> 244  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of sequence: signal sequence or localisation sequence  
<400> 244

Pro Gln Lys Lys Ile Lys Ser  
1 5

<210> 245  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of sequence: signal sequence or localisation sequence  
<400> 245

Gln Pro Lys Lys Pro  
1 5

<210> 246  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of sequence: signal sequence or localisation sequence



# Sequence Listing 221209\_ST25

<400> 246

Arg Lys Lys Arg  
1

<210> 247

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: signal sequence or localisation sequence

<400> 247

Arg Lys Lys Arg Arg Gln Arg Arg Arg Ala His Gln  
1 5 10

<210> 248

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: signal sequence or localisation sequence

<400> 248

Arg Gln Ala Arg Arg Asn Arg Arg Arg Arg Trp Arg Glu Arg Gln Arg  
1 5 10 15

<210> 249

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: signal sequence or localisation sequence

<400> 249

Met Pro Leu Thr Arg Arg Arg Pro Ala Ala Ser Gln Ala Leu Ala Pro  
1 5 10 15

Pro Thr Pro

<210> 250

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of sequence: signal sequence or localisation sequence

<400> 250

Met Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro  
1 5 10 15

<210> 251

# Sequence Listing 221209\_ST25

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

<220>  
 <223> Description of artificial sequence: D-TAT

<220>  
 <221> VARIANT  
 <222> (1)..(9)  
 <223> all amino acids are D-enantiomeric amino acids

<400> 251

Arg Arg Arg Gln Arg Arg Lys Lys Arg  
 1 5

<210> 252  
 <211> 9  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: consensus sequence rXXXrXXXr

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> Arg is D-enantiomeric Arg

<220>  
 <221> misc\_feature  
 <222> (2)..(4)  
 <223> Xaa can be any naturally occurring amino acid

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> Arg is D-enantiomeric Arg

<220>  
 <221> misc\_feature  
 <222> (6)..(8)  
 <223> Xaa can be any naturally occurring amino acid

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> Arg is D-enantiomeric Arg

<400> 252

Arg Xaa Xaa Xaa Arg Xaa Xaa Xaa Arg  
 1 5

<210> 253  
 <211> 5  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: Conserved sequence motif  
 Trp-Ser-X-Trp-Ser/cytokines of class I of the family of cytokines

# Sequence Listing 221209\_ST25

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> Xaa can be any naturally occurring amino acid

<400> 253

Trp Ser Xaa Trp Ser  
 1 5

<210> 254  
 <211> 4  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: Positionally conserved cystein residues  
 cytokines of class I of the family of cytokines

<400> 254

Cys Cys Cys Cys  
 1

<210> 255  
 <211> 5  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: Peptidic linker sequence

<400> 255

Gly Gly Gly Gly Gly  
 1 5

<210> 256  
 <211> 4  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: Peptidic linker sequence

<400> 256

Gly Gly Gly Gly  
 1

<210> 257  
 <211> 9  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: all D transporter construct (all amino  
 acid residues are D-amino acids)

<400> 257

Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5

# Sequence Listing 221209\_ST25

<210> 258  
 <211> 9  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: D/L transporter construct (D and L amino acid residues alternate, beginning wit D amino acids)

<400> 258

Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5

<210> 259  
 <211> 9  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: DD/LL transporter construct

<400> 259

Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5

<210> 260  
 <211> 9  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: DDD/LLL (r6R3) transporter construct

<400> 260

Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5

<210> 261  
 <211> 9  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of sequence: DDDD/LLLL transporter construct

<400> 261

Arg Arg Arg Arg Arg Arg Arg Arg Arg  
 1 5

<210> 262  
 <211> 21  
 <212> DNA  
 <213> Artificial

<220>  
 <223> Description of sequence: AP-1 doubled labeled probe

<400> 262

cgcttgatga gtcagccgga a      Sequence Listing 221209\_ST25

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