562451_1
SEQUENCE LISTING

<110> HOSPIRA ADELAIDE PTY LTD

<120> Method of producing a recombinant peptide

<130> 39357PCT

<160> 20

<170> PatentIn version 3.5

<210> 1
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> wherein Xaa is any amino acid except arginine or lysine, and Xbb is arginine or lysine.

<220>
<221> misc_feature
<222> (1)..(3)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa can be any naturally occurring amino acid

<400> 1

Xaa Xaa Xaa Asn Xaa Asn Xbb
1 5

<210> 2
<211> 37
<212> PRT
<213> Homo sapiens

<400> 2

Glu Val Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly
1 5 10 15

Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val
20 25 30

Ser Pro Ala Gln Arg
35

<210> 3
<211> 73
<212> PRT
<213> Bos primigenius

<400> 3

Met Lys Glu Val Lys Ser Leu Leu Leu Asp Leu Gln Leu Leu Leu Glu
1 5 10 15

562451_1

Lys Val Lys Asn Pro Glu Asn Leu Lys Leu Ser Arg Met His Thr Phe
20 25 30

Asp Phe Tyr Val Pro Lys Val Asn Ala Thr Glu Leu Lys His Leu Lys
35 40 45

Ala Leu Leu Glu Glu Leu Lys Leu Leu Glu Glu Val Leu Asn Leu Ala
50 55 60

Pro Ser Lys Asn Leu Asn Val Asp Arg
65 70

<210> 4
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Enteropeptidase (enterokinase) peptide cleavage site

<400> 4

Asp Asp Asp Asp Lys
1 5

<210> 5
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Tobacco etch virus protease peptide cleavage site. Where X is any amino acid.

<220>
<221> misc_feature
<222> (2)..(3)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa can be any naturally occurring amino acid. Xbb is Gly or Ser.

<400> 5

Glu Xaa Xaa Tyr Xaa Gln Xbb
1 5

<210> 6
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Tobacco etch virus protease peptide cleavage site. Where X is any amino acid.

<220>
<221> misc_feature

<222> (1)..(1)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid. Xbb is Gly or Ser.

<400> 6

Xaa Tyr Xaa Gln Xbb
1 5

<210> 7
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombin cleavage site.

<400> 7

Leu Val Pro Arg Gly Ser
1 5

<210> 8
<211> 37
<212> PRT
<213> Pongo pygmaeus

<400> 8

Glu Val Val Pro Pro Gln Val Leu Ser Glu Gln Asn Glu Glu Ala Gly
1 5 10 15

Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val
20 25 30

Ser Pro Ala Gln Arg
35

<210> 9
<211> 37
<212> PRT
<213> Felis catus

<400> 9

Glu Val Val Pro Pro Gln Val Leu Ser Glu Gln Asn Glu Glu Ala Gly
1 5 10 15

Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Ala Gly Glu Val
20 25 30

Asn Pro Ala Gln Arg
35

<210> 10
<211> 73

<212> PRT
<213> Artificial Sequence

<220>
<223>

<400> 10

Met Lys Glu Val Lys Ser Leu Leu Leu Asp Leu Gln Leu Leu Leu Glu
1 5 10 15

Lys Val Lys Asn Pro Glu Asn Leu Lys Leu Ser Arg Met His Thr Phe
20 25 30

Asp Phe Tyr Val Pro Lys Val Asn Ala Thr Glu Leu Lys His Leu Lys
35 40 45

Ala Leu Leu Glu Glu Leu Lys Leu Leu Glu Glu Val Leu Asn Leu Ala
50 55 60

Pro Ser Lys Asn Leu Asn Val Gln Arg
65 70

<210> 11
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223>

<400> 11

Met Lys Glu Val Lys Ser Leu Leu Leu Asp Leu Gln Leu Leu Leu Glu
1 5 10 15

Lys Val Lys Asn Pro Glu Asn Leu Lys Leu Ser Arg Met His Thr Phe
20 25 30

Asp Phe Tyr Val Pro Lys Val Asn Ala Thr Glu Leu Lys His Leu Lys
35 40 45

Ala Leu Leu Glu Glu Leu Lys Leu Leu Glu Glu Val Leu Asn Leu Ala
50 55 60

Pro Ser Lys Asn Leu Asn Val Asp Arg Glu Val Val Pro Pro Gln Val
65 70 75 80

Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro
85 90 95

Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg
100 105 110

<210> 12
<211> 184

<212> PRT
<213> Artificial Sequence

<220>
<223>

<400> 12

Met Lys Glu Val Lys Ser Leu Leu Leu Asp Leu Gln Leu Leu Leu Glu
1 5 10 15

Lys Val Lys Asn Pro Glu Asn Leu Lys Leu Ser Arg Met His Thr Phe
20 25 30

Asp Phe Tyr Val Pro Lys Val Asn Ala Thr Glu Leu Lys His Leu Lys
35 40 45

Ala Leu Leu Glu Glu Leu Lys Leu Leu Glu Glu Val Leu Asn Leu Ala
50 55 60

Pro Ser Lys Asn Leu Asn Val Asp Arg Glu Val Val Pro Pro Gln Val
65 70 75 80

Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro
85 90 95

Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg Glu Val
100 105 110

Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala
115 120 125

Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro
130 135 140

Ala Gln Arg Glu Val Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu
145 150 155 160

Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr
165 170 175

Gly Glu Val Ser Pro Ala Gln Arg
180

<210> 13
<211> 443
<212> PRT
<213> Artificial Sequence

<220>
<223>

<400> 13

Met Lys Glu Val Lys Ser Leu Leu Leu Asp Leu Gln Leu Leu Leu Glu
1 5 10 15

```
Lys Val Lys Asn Pro Glu Asn Leu Lys Leu Ser Arg Met His Thr Phe
            20                  25                  30

Asp Phe Tyr Val Pro Lys Val Asn Ala Thr Glu Leu Lys His Leu Lys
        35                  40                  45

Ala Leu Leu Glu Glu Leu Lys Leu Leu Glu Glu Val Leu Asn Leu Ala
    50                  55                  60

Pro Ser Lys Asn Leu Asn Val Asp Arg Glu Val Val Pro Pro Gln Val
65                  70                  75                  80

Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro
                85                  90                  95

Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg Glu Val
            100                 105                 110

Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala
        115                 120                 125

Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro
    130                 135                 140

Ala Gln Arg Glu Val Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu
145                 150                 155                 160

Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr
                165                 170                 175

Gly Glu Val Ser Pro Ala Gln Arg Glu Val Val Pro Pro Gln Val Leu
            180                 185                 190

Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro Glu
        195                 200                 205

Val Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg Glu Val Val
    210                 215                 220

Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu
225                 230                 235                 240

Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro Ala
                245                 250                 255

Gln Arg Glu Val Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu
            260                 265                 270

Ala Gly Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly
        275                 280                 285
```

Glu Val Ser Pro Ala Gln Arg Glu Val Val Pro Pro Gln Val Leu Ser
290 295 300

Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro Glu Val
305 310 315 320

Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg Glu Val Val Pro
325 330 335

Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser
340 345 350

Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu Val Ser Pro Ala Gln
355 360 365

Arg Glu Val Val Pro Pro Gln Val Leu Ser Glu Pro Asn Glu Glu Ala
370 375 380

Gly Ala Ala Leu Ser Pro Leu Pro Glu Val Pro Pro Trp Thr Gly Glu
385 390 395 400

Val Ser Pro Ala Gln Arg Glu Val Val Pro Pro Gln Val Leu Ser Glu
405 410 415

Pro Asn Glu Glu Ala Gly Ala Ala Leu Ser Pro Leu Pro Glu Val Pro
420 425 430

Pro Trp Thr Gly Glu Val Ser Pro Ala Gln Arg
435 440

<210> 14
<211> 340
<212> DNA
<213> Artificial Sequence

<220>
<223> B72R-VSDL (340 bp)

<400> 14
catatgaaag aagtgaagtc attgctgctg gatttacagt tgcttttgga gaaagttaaa 60

aatcctgaga acctcaagct ctccaggatg catacatttg acttttacgt gcccaaggtt 120

aacgctacag aattgaaaca tcttaaggcg ttactagaag aactcaaact tctagaggaa 180

gtactaaatt tagctccaag caaaaacctg aacgtcgacc gtgaagttgt accgccgcag 240

gttctgtctg aaccgaacga agaagcgggt gcggcgctgt ctccgctgcc ggaagttccg 300

ccgtggaccg gtgaagtgag cccagcgcag cgttaagctt 340

<210> 15
<211> 562
<212> DNA
<213> Artificial Sequence

<220>
<223> B72R-(VSDL)3 (562 bp)

<400> 15
catatgaaag aagtgaagtc attgctgctg gatttacagt tgcttttgga gaaagttaaa 60

aatcctgaga acctcaagct ctccaggatg catacatttg acttttacgt gcccaaggtt 120

aacgctacag aattgaaaca tcttaaggcg ttactagaag aactcaaact tctagaggaa 180

gtactaaatt tagctccaag caaaaacctg aacgtcgacc gtgaagttgt accgccgcag 240

gttctgtctg aaccgaacga agaagcgggt gcggcgctgt ctccgctgcc ggaagttccg 300

ccgtggaccg gtgaggtgag cccagcgcag cgcgaagttg taccgccgca ggttctgtct 360

gaaccgaacg aagaagcggg tgcggcgctg tctccgctgc cggaagttcc gccatggacc 420

ggcgaagtga gcccagcgca gcgcgaagtt gtaccgccgc aggttctgtc tgaaccgaac 480

gaagaagcgg gtgcggcgct gtctccgctg ccggaagttc cgccatggac cggtgaagtg 540

agcccagcgc agcgttaagc tt 562

<210> 16
<211> 562
<212> DNA
<213> Artificial Sequence

<220>
<223> B72(Q)R-(VSDL)3 (562 bp)

<400> 16
catatgaaag aagtgaagtc attgctgctg gatttacagt tgcttttgga gaaagttaaa 60

aatcctgaga acctcaagct ctccaggatg catacatttg acttttacgt gcccaaggtt 120

aacgctacag aattgaaaca tcttaaggcg ttactagaag aactcaaact tctagaggaa 180

gtactaaatt tagctccaag caaaaacctg aacgtccagc gtgaagttgt accgccgcag 240

gttctgtctg aaccgaacga agaagcgggt gcggcgctgt ctccgctgcc ggaagttccg 300

ccgtggaccg gtgaggtgag cccagcgcag cgcgaagttg taccgccgca ggttctgtct 360

gaaccgaacg aagaagcggg tgcggcgctg tctccgctgc cggaagttcc gccatggacc 420

ggcgaagtga gcccagcgca gcgcgaagtt gtaccgccgc aggttctgtc tgaaccgaac 480

gaagaagcgg gtgcggcgct gtctccgctg ccggaagttc cgccatggac cggtgaagtg 540

agcccagcgc agcgttaagc tt 562

<210> 17
<211> 895
<212> DNA
<213> Artificial Sequence

<220>
<223> B72(Q)R-(VSDL)6 (895 bp)

<400> 17
catatgaaag aagtgaagtc attgctgctg gatttacagt tgcttttgga gaaagttaaa 60

aatcctgaga acctcaagct ctccaggatg catacatttg acttttacgt gcccaaggtt 120

aacgctacag aattgaaaca tcttaaggcg ttactagaag aactcaaact tctagaggaa 180

gtactaaatt tagctccaag caaaaacctg aacgtccagc gtgaagtggt tccgccgcag 240

gttctgagcg aaccgaacga agaagcaggt gcagcactgt ctccgctgcc ggaagtcccg 300

ccgtggaccg gtgaagttag tccggcgcaa cgtgaagtgg ttccgccgca ggttctgagc 360

gaaccgaacg aagaagcagg tgcagcactg tctccgctgc cggaagtccc gccgtggacc 420

ggtgaagtta gtccggcgca acgtgaagtg gttccgccgc aggttctgag cgaaccgaac 480

gaagaagcag gtgcagcact gtctccgctg ccggaagtcc cgccgtggac cggtgaagtt 540

agtccggcgc aacgtgaagt ggttccgccg caggttctga gcgaaccgaa cgaagaagca 600

ggtgcagcac tgtctccgct gccggaagtc ccgccgtgga ccggtgaagt tagtccggcg 660

caacgtgaag tggttccgcc gcaggttctg agcgaaccga acgaagaagc aggtgcagca 720

ctgtctccgc tgccggaagt cccgccgtgg accggtgaag ttagtccggc gcaacgtgaa 780

gtggttccgc cgcaggttct gagcgaaccg aacgaagaag caggtgcagc actgtctccg 840

ctgccggaag tcccgccgtg gaccggtgaa gttagtccgg cgcaacgtta agctt 895

<210> 18
<211> 1117
<212> DNA
<213> Artificial Sequence

<220>
<223> B72(Q)R-(VSDL)8 (1117 bp)

<400> 18
catatgaaag aagtgaagtc attgctgctg gatttacagt tgcttttgga gaaagttaaa 60

aatcctgaga acctcaagct ctccaggatg catacatttg acttttacgt gcccaaggtt 120

aacgctacag aattgaaaca tcttaaggcg ttactagaag aactcaaact tctagaggaa 180

gtactaaatt tagctccaag caaaaacctg aacgtccagc gtgaagtggt tccgccgcag 240

gttctgagcg aaccgaacga agaagcaggt gcagcactgt ctccgctgcc ggaagtcccg 300

ccgtggaccg gtgaagttag tccggcgcaa cgtgaagtgg ttccgccgca ggttctgagc 360

gaaccgaacg aagaagcagg tgcagcactg tctccgctgc cggaagtccc gccgtggacc 420

ggtgaagtta gtccggcgca acgtgaagtg gttccgccgc aggttctgag cgaaccgaac 480

gaagaagcag gtgcagcact gtctccgctg ccggaagtcc cgccgtggac cggtgaagtt 540

agtccggcgc aacgtgaagt ggttccgccg caggttctga gcgaaccgaa cgaagaagca 600

ggtgcagcac tgtctccgct gccggaagtc ccgccgtgga ccggtgaagt tagtccggcg 660

caacgtgaag tggttccgcc gcaggttctg agcgaaccga acgaagaagc aggtgcagca 720

ctgtctccgc tgccggaagt cccgccgtgg accggtgaag ttagtccggc gcaacgtgaa 780

gtggttccgc cgcaggttct gagcgaaccg aacgaagaag caggtgcagc actgtctccg 840

ctgccggaag tcccgccgtg gaccggtgaa gttagtccgg cgcaacgtga agtggttccg 900

ccgcaggttc tgagcgaacc gaacgaagaa gcaggtgcag cactgtctcc gctgccggaa 960

gtcccgccgt ggaccggtga agttagtccg gcgcaacgtg aagtggttcc gccgcaggtt 1020

ctgagcgaac cgaacgaaga agcaggtgca gcactgtctc cgctgccgga agtcccgccg 1080

tggaccggtg aagttagtcc ggcgcaacgt taagctt 1117

<210> 19
<211> 1339
<212> DNA
<213> Artificial Sequence

<220>
<223> B72(Q)R-(VSDL)10 (1339 bp)

<400> 19
catatgaaag aagtgaagtc attgctgctg gatttacagt tgcttttgga gaaagttaaa 60

aatcctgaga acctcaagct ctccaggatg catacatttg acttttacgt gcccaaggtt 120

aacgctacag aattgaaaca tcttaaggcg ttactagaag aactcaaact tctagaggaa 180

gtactaaatt tagctccaag caaaaacctg aacgtccagc gtgaagtggt tccgccgcag 240

gttctgagcg aaccgaacga agaagcaggt gcagcactgt ctccgctgcc ggaagtcccg 300

ccgtggaccg gtgaagttag tccggcgcaa cgtgaagtgg ttccgccgca ggttctgagc 360

gaaccgaacg aagaagcagg tgcagcactg tctccgctgc cggaagtccc gccgtggacc 420

ggtgaagtta gtccggcgca acgtgaagtg gttccgccgc aggttctgag cgaaccgaac 480

gaagaagcag gtgcagcact gtctccgctg ccggaagtcc cgccgtggac cggtgaagtt 540

agtccggcgc aacgtgaagt ggttccgccg caggttctga gcgaaccgaa cgaagaagca 600

ggtgcagcac tgtctccgct gccggaagtc ccgccgtgga ccggtgaagt tagtccggcg 660

caacgtgaag tggttccgcc gcaggttctg agcgaaccga acgaagaagc aggtgcagca 720

ctgtctccgc tgccggaagt cccgccgtgg accggtgaag ttagtccggc gcaacgtgaa 780

gtggttccgc cgcaggttct gagcgaaccg aacgaagaag caggtgcagc actgtctccg 840

ctgccggaag tcccgccgtg gaccggtgaa gttagtccgg cgcaacgtga agtggttccg 900

ccgcaggttc tgagcgaacc gaacgaagaa gcaggtgcag cactgtctcc gctgccggaa 960

gtcccgccgt ggaccggtga agttagtccg gcgcaacgtg aagtggttcc gccgcaggtt 1020

ctgagcgaac cgaacgaaga agcaggtgca gcactgtctc cgctgccgga agtcccgccg 1080

tggaccggtg aagttagtcc ggcgcaacgt gaagtggttc cgccgcaggt tctgagcgaa 1140

ccgaacgaag aagcaggtgc agcactgtct ccgctgccgg aagtcccgcc gtggaccggt 1200

gaagttagtc cggcgcaacg tgaagtggtt ccgccgcagg ttctgagcga accgaacgaa 1260

gaagcaggtg cagcactgtc tccgctgccg gaagtcccgc cgtggaccgg tgaagttagt 1320

ccggcgcaac gttaagctt 1339

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

<220>
<223> wherein X is any amino acid except arginine or lysine

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (11)..(11)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 20

Ser Ser Asp Xaa Ser Ala Leu Leu Xaa Ser Xaa Leu Xaa Ala Leu Leu
1 5 10 15

Thr Ala Pro Arg
20