SEQUENCE LISTING

<110> Salipro Biotech AB

<120> Production of Salipro particles

<130> 181522EP

<160> 46

<170> PatentIn version 3.5

<210> 1
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1

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

Met Leu Lys Asp Asn Ala Thr Glu Glu Glu Ile Leu Val Tyr Leu Glu
20 25 30

Lys Thr Cys Asp Trp Leu Pro Lys Pro Asn Met Ser Ala Ser Cys Lys
35 40 45

Glu Ile Val Asp Ser Tyr Leu Pro Val Ile Leu Asp Ile Ile Lys Gly
50 55 60

Glu Met Ser Arg Pro Gly Glu Val Cys Ser Ala Leu Asn Leu Cys Glu
65 70 75 80

Ser

<210> 2
<211> 79
<212> PRT
<213> Homo sapiens

<400> 2

Gly Asp Val Cys Gln Asp Cys Ile Gln Met Val Thr Asp Ile Gln Thr
1 5 10 15

Ala Val Arg Thr Asn Ser Thr Phe Val Gln Ala Leu Val Glu His Val
            20   25   30

Lys Glu Glu Cys Asp Arg Leu Gly Pro Gly Met Ala Asp Ile Cys Lys
        35   40   45

Asn Tyr Ile Ser Gln Tyr Ser Glu Ile Ala Ile Gln Met Met Met His
    50   55   60

Met Gln Pro Lys Glu Ile Cys Ala Leu Val Gly Phe Cys Asp Glu
65   70   75

<210> 3
<211> 80
<212> PRT
<213> Homo sapiens

<400> 3

Asp Val Tyr Cys Glu Val Cys Glu Phe Leu Val Lys Glu Val Thr Lys
1   5   10   15

Leu Ile Asp Asn Asn Lys Thr Glu Lys Glu Ile Leu Asp Ala Phe Asp
            20   25   30

Lys Met Cys Ser Lys Leu Pro Lys Ser Leu Ser Glu Glu Cys Gln Glu
        35   40   45

Val Val Asp Thr Tyr Gly Ser Ser Ile Leu Ser Ile Leu Leu Glu Glu
    50   55   60

Val Ser Pro Glu Leu Val Cys Ser Met Leu His Leu Cys Ser Gly Thr
65   70   75   80

<210> 4
<211> 78
<212> PRT
<213> Homo sapiens

<400> 4

Gly Phe Cys Glu Val Cys Lys Lys Leu Val Gly Tyr Leu Asp Arg Asn
1   5   10   15

```
Leu Glu Lys Asn Ser Thr Lys Gln Glu Ile Leu Ala Ala Leu Glu Lys
            20                  25                  30

Gly Cys Ser Phe Leu Pro Asp Pro Tyr Gln Lys Gln Cys Asp Gln Phe
        35                  40                  45

Val Ala Glu Tyr Glu Pro Val Leu Ile Glu Ile Leu Val Glu Val Met
    50                  55                  60

Asp Pro Ser Phe Val Cys Leu Lys Ile Gly Ala Cys Pro Ser
65                  70                  75
```

<210> 5
<211> 145
<212> PRT
<213> Homo sapiens

<400> 5

```
Met Ala Thr Trp Ala Leu Leu Leu Leu Ala Ala Met Leu Leu Gly Asn
1               5                   10                  15

Pro Gly Leu Val Phe Ser Arg Leu Ser Pro Glu Tyr Tyr Asp Leu Ala
            20                  25                  30

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

Glu Gly Pro Gln Gly Asp Leu Leu Thr Lys Thr Gln Glu Leu Gly Arg
    50                  55                  60

Asp Tyr Arg Thr Cys Leu Thr Ile Val Gln Lys Leu Lys Lys Met Val
65                  70                  75                  80

Asp Lys Pro Thr Gln Arg Ser Val Ser Asn Ala Ala Thr Arg Val Cys
                85                  90                  95

Arg Thr Gly Arg Ser Arg Trp Arg Asp Val Cys Arg Asn Phe Met Arg
            100                 105                 110

Arg Tyr Gln Ser Arg Val Thr Gln Gly Leu Val Ala Gly Glu Thr Ala
        115                 120                 125
```

```
Gln Gln Ile Cys Glu Asp Leu Arg Leu Cys Ile Pro Ser Thr Gly Pro
    130                 135                 140


Leu
145


<210>  6
<211>  129
<212>  PRT
<213>  Sus scrofa

<400>  6

Pro Gly Leu Ala Phe Ser Gly Leu Thr Pro Glu His Ser Ala Leu Ala
1               5                   10                  15


Arg Ala His Pro Cys Asp Gly Glu Gln Phe Cys Gln Asn Leu Ala Pro
            20                  25                  30


Glu Asp Pro Gln Gly Asp Gln Leu Leu Gln Arg Glu Glu Leu Gly Leu
        35                  40                  45


Ile Cys Glu Ser Cys Arg Lys Ile Ile Gln Lys Leu Glu Asp Met Val
    50                  55                  60


Gly Pro Gln Pro Asn Glu Asp Thr Val Thr Gln Ala Ala Ser Arg Val
65                  70                  75                  80


Cys Asp Lys Met Lys Ile Leu Arg Gly Val Cys Lys Lys Ile Met Arg
                85                  90                  95


Thr Phe Leu Arg Arg Ile Ser Lys Asp Ile Leu Thr Gly Lys Lys Pro
            100                 105                 110


Gln Ala Ile Cys Val Asp Ile Lys Ile Cys Lys Glu Lys Thr Gly Leu
        115                 120                 125


Ile



<210>  7
<211>  77
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<212> PRT
<213> Entamoeba histolytica

<400> 7

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

Asp Leu Val Leu Gly Gly Ala Val Asp Lys Val Thr Asp Tyr Leu Glu
            20   25   30

Thr Leu Cys Ala Lys Ala Asp Gly Leu Val Glu Thr Leu Cys Thr Lys
        35   40   45

Ile Val Ser Tyr Gly Ile Asp Lys Leu Ile Glu Lys Ile Leu Glu Gly
    50   55   60

Gly Ser Ala Lys Leu Ile Cys Gly Leu Ile His Ala Cys
65   70   75

<210> 8
<211> 75
<212> PRT
<213> Entamoeba dispar

<400> 8

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

Val Ile Gly Gly Ala Val Asp Lys Ala Thr Asp Tyr Leu Glu Thr Leu
            20   25   30

Cys Ala Lys Ala Asp Gly Val Ile Glu Thr Val Cys Ser Lys Ile Val
        35   40   45

Ser Tyr Gly Ile Asp Lys Leu Ile Glu Lys Ile Ile Glu Gly Gly Ser
    50   55   60

Ala Lys Leu Ile Cys Gly Leu Ile His Ala Cys
65   70   75

<210> 9
<211> 77

<212> PRT
<213> Entamoeba histolytica

<400> 9

Gly Ala Ile Leu Cys Asn Leu Cys Lys Asp Thr Val Lys Leu Val Glu
1   5   10   15

Asn Leu Leu Thr Val Asp Gly Ala Gln Ala Val Arg Gln Tyr Ile Asp
            20   25   30

Asn Leu Cys Gly Lys Ala Ser Gly Phe Leu Gly Thr Leu Cys Glu Lys
        35   40   45

Ile Leu Ser Phe Gly Val Asp Glu Leu Val Lys Leu Ile Glu Asn His
    50   55   60

Val Asp Pro Val Val Val Cys Glu Lys Ile His Ala Cys
65   70   75

<210> 10
<211> 75
<212> PRT
<213> Entamoeba dispar

<400> 10

Gly Leu Cys Asn Leu Cys Lys Asp Thr Val Asn Leu Ile Glu Asn Leu
1   5   10   15

Leu Thr Val Asp Gly Ala Gln Ala Val Arg Gln Tyr Ile Asp Asn Leu
            20   25   30

Cys Ala Lys Ala Asp Gly Phe Leu Gly Thr Leu Cys Asn Lys Ile Leu
        35   40   45

Ser Phe Gly Val Asp Glu Leu Val Lys Leu Ile Glu Asn His Val Asp
    50   55   60

Pro Val Val Ile Cys Glu Lys Ile His Ala Cys
65   70   75

<210> 11
<211> 77

<212> PRT
<213> Entamoeba histolytica

<400> 11

Gly Glu Ile Leu Cys Asn Leu Cys Thr Gly Leu Ile Asn Thr Leu Glu
1   5   10   15

Asn Leu Leu Thr Thr Lys Gly Ala Asp Lys Val Lys Asp Tyr Ile Ser
            20   25   30

Ser Leu Cys Asn Lys Ala Ser Gly Phe Ile Ala Thr Leu Cys Thr Lys
        35   40   45

Val Leu Asp Phe Gly Ile Asp Lys Leu Ile Gln Leu Ile Glu Asp Lys
    50   55   60

Val Asp Ala Asn Ala Ile Cys Ala Lys Ile His Ala Cys
65   70   75

<210> 12
<211> 75
<212> PRT
<213> Entamoeba dispar

<400> 12

Ile Val Cys Asn Leu Cys Thr Gly Leu Ile Asn Thr Leu Glu Asn Leu
1   5   10   15

Leu Thr Thr Lys Gly Ala Asp Lys Val Lys Asp Tyr Ile Asp Ser Leu
            20   25   30

Cys Asn Lys Ala Ser Gly Phe Ile Ala Thr Leu Cys Thr Lys Val Leu
        35   40   45

Asp Phe Gly Val Asp Lys Leu Ile Gln Leu Ile Glu Asp Lys Val Asp
    50   55   60

Ala Asn Ala Ile Cys Ala Lys Ile His Ala Cys
65   70   75

<210> 13
<211> 83

<212> PRT
<213> Sus scrofa

<400> 13

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

Met Val Gly Pro Gln Pro Asn Glu Asp Thr Val Thr Gln Ala Ala Ser
20 25 30

Arg Val Cys Asp Lys Met Lys Ile Leu Arg Gly Val Cys Lys Lys Ile
35 40 45

Met Arg Thr Phe Leu Arg Arg Ile Ser Lys Asp Ile Leu Thr Gly Lys
50 55 60

Lys Pro Gln Ala Ile Cys Val Asp Ile Lys Ile Cys Lys Glu Lys Thr
65 70 75 80

Gly Leu Ile

<210> 14
<211> 78
<212> PRT
<213> Sus scrofa

<400> 14

Gly Tyr Phe Cys Glu Ser Cys Arg Lys Ile Ile Gln Lys Leu Glu Asp
1 5 10 15

Met Val Gly Pro Gln Pro Asn Glu Asp Thr Val Thr Gln Ala Ala Ser
20 25 30

Gln Val Cys Asp Lys Leu Lys Ile Leu Arg Gly Leu Cys Lys Lys Ile
35 40 45

Met Arg Ser Phe Leu Arg Arg Ile Ser Trp Asp Ile Leu Thr Gly Lys
50 55 60

Lys Pro Gln Ala Ile Cys Val Asp Ile Lys Ile Cys Lys Glu
65 70 75

<210> 15
<211> 83
<212> PRT
<213> Equus caballus

<400> 15

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

Leu Val Gly Glu Gln Pro Asn Glu Ala Thr Ile Asn Glu Ala Ala Ser
            20   25   30

Arg Val Cys Arg Asn Leu Gly Leu Leu Arg Gly Ala Cys Lys Lys Ile
        35   40   45

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

Lys Pro Gln Glu Val Cys Val Asp Ile Lys Leu Cys Lys His Lys Ala
65   70   75   80

Gly Leu Ile

<210> 16
<211> 84
<212> PRT
<213> Bos taurus

<400> 16

Gly Leu Leu Cys Gly Ser Cys Gln Arg Ile Ile Gln His Leu Met Asp
1   5   10   15

Lys Leu Gly Asp Gln Pro Asp Glu Asn Thr Val Ile Glu Ala Ala Ser
            20   25   30

Lys Val Cys Gly Lys Met Gly Pro Leu Lys Gly Leu Cys Lys Ser Ile
        35   40   45

Thr Lys Arg Phe Leu Arg Arg Ile Ala Ala Asp Ile Thr Ala Gly Lys
    50   55   60

Thr Ser Arg Val Val Cys Glu Asp Ile Lys Met Cys Lys Ser Lys Pro
65 70 75 80

Val Gly Phe Ile

<210> 17
<211> 81
<212> PRT
<213> Fasciola hepatica

<400> 17

Glu Glu Pro His Leu Asp Ile Ser Leu Cys Glu Ser Cys Thr Asn Thr
1 5 10 15

Val Asn Leu Val Lys Arg Leu Leu Gln Asn Ser Val Val Glu Thr His
20 25 30

Ile Arg Tyr Leu Val Lys Tyr Leu Cys Lys Gly Ala Gly Ser Ser Gln
35 40 45

Asp Ala Cys Ile Lys Phe Ile Gln Tyr Glu Val Asp Gly Ala Val Gly
50 55 60

Tyr Leu Ile Gln His Asn Ala Thr Asp Ile Cys His Val Ile Arg Leu
65 70 75 80

Cys

<210> 18
<211> 83
<212> PRT
<213> Homo sapiens

<400> 18

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

Met Val Asp Lys Pro Thr Gln Thr Ser Val Ser Asn Ala Ala Thr Arg
20 25 30

Val Cys Arg Thr Gly Arg Ser Arg Trp Arg Asp Val Cys Arg Asn Phe
35 40 45

Met Arg Arg Tyr Gln Ser Arg Val Ile Gln Gly Leu Val Ala Gly Glu
50 55 60

Thr Ala Gln Gln Ile Cys Glu Asp Leu Arg Leu Cys Ile Pro Ser Thr
65 70 75 80

Gly Pro Leu

<210> 19
<211> 83
<212> PRT
<213> Naegleria fowleri

<400> 19

Ser Gly Ile Cys Asn Met Cys Gln Leu Leu Val Thr Gln Val Glu Asn
1 5 10 15

Trp Val Glu Ser Asn Asp Thr Ile Met Thr Leu Glu Lys Lys Leu Glu
20 25 30

Gln Val Cys Ser Val Ile Pro Gly Gln Tyr Ser Ala Leu Cys Thr Tyr
35 40 45

Ala Val Glu Gln Tyr Leu Pro Ile Phe Ile His Gln Val Glu Lys Gln
50 55 60

Phe Pro Ala Leu Thr Ile Cys Gln Asp Val His Leu Cys Ser Ser Ala
65 70 75 80

Gln Ala Ala

<210> 20
<211> 73
<212> PRT
<213> Clonorchis sinensis

<400> 20

Cys Lys His Cys Lys Thr Leu Val Gly Arg Ile Gln Asp Cys Trp Gln
1 5 10 15

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

Lys Leu Thr Gly His Ser Glu Glu Gln Cys Thr Glu His Ala Glu Glu
35 40 45

Phe Met Lys His Leu Asp Asp Trp Ile Thr Gly Lys Thr Pro Glu Glu
50 55 60

Leu Cys Arg Ser Leu His Met Cys Lys
65 70

<210> 21
<211> 83
<212> PRT
<213> Naegleria fowleri

<400> 21

Pro Ser Glu Phe Cys Asp Val Cys Lys Tyr Ala Val Gln Gln Val Asp
1 5 10 15

Gln Leu Ala Leu Gln Asn Glu Ala Ala Ile Gln Asn Ala Leu Leu Ala
20 25 30

Ala Cys Gln Gln Leu Gly Asp Asn Gln Phe Gly Lys Ile Cys Asn Thr
35 40 45

Val Val Leu Val Tyr Gly Asn Glu Leu Val Asn Ala Leu Val Thr Tyr
50 55 60

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

Asn Asn Thr

<210> 22

<211> 88
<212> PRT
<213> Caenorhabditis elegans

<400> 22

Asn Pro Ala Asn Pro Leu Asn Leu Lys Lys His His Gly Val Phe Cys
1 5 10 15

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

Asp Leu Asp Ala Trp Leu Asp Val Asn Ile Gly Thr Leu Cys Trp Thr
35 40 45

Met Leu Leu Pro Leu His His Glu Cys Glu Glu Glu Leu Lys Lys Val
50 55 60

Lys Lys Glu Leu Lys Lys Asp Ile Glu Asn Lys Asp Ser Pro Asp Lys
65 70 75 80

Ala Cys Lys Asp Val Asp Leu Cys
85

<210> 23
<211> 83
<212> PRT
<213> Homo sapiens

<400> 23

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

Met Leu Lys Asp Asn Ala Thr Glu Glu Glu Ile Leu Val Tyr Leu Glu
20 25 30

Lys Thr Cys Asp Trp Leu Pro Lys Pro Asn Met Ser Ala Ser Cys Lys
35 40 45

Glu Ile Val Asp Ser Tyr Leu Pro Val Ile Leu Asp Ile Ile Lys Gly
50 55 60

Glu Met Ser Arg Pro Gly Glu Val Cys Ser Ala Leu Asn Leu Cys Glu

65 70 75 80

Ser Leu Gln

<210> 24
<211> 83
<212> PRT
<213> Bos taurus

<400> 24

Ser Leu Pro Cys Asp Ile Cys Lys Asp Val Ile Thr Ala Ala Gly Asn
1 5 10 15

Leu Leu Lys Asp Asn Ala Thr Glu Gln Glu Ile Leu Met Tyr Leu Glu
20 25 30

Arg Thr Cys Asp Trp Leu Pro Lys Pro Asn Met Ser Ala Ser Cys Lys
35 40 45

Glu Ile Val Asp Ser Tyr Leu Pro Val Ile Leu Asp Met Ile Lys Gly
50 55 60

Gln Met Ser His Pro Gly Glu Val Cys Ser Ala Leu Asn Leu Cys Glu
65 70 75 80

Ser Leu Gln

<210> 25
<211> 83
<212> PRT
<213> Mus musculus

<400> 25

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

Leu Leu Lys Asp Asn Ala Thr Gln Glu Glu Ile Leu His Tyr Leu Glu
20 25 30

Lys Thr Cys Glu Trp Ile His Asp Ser Ser Leu Ser Ala Ser Cys Lys

```
        35                  40                  45

Glu Val Val Asp Ser Tyr Leu Pro Val Ile Leu Asp Met Ile Lys Gly
    50                  55                  60

Glu Met Ser Asn Pro Gly Glu Val Cys Ser Ala Leu Asn Leu Cys Gln
65                  70                  75                  80

Ser Leu Gln
```

<210> 26
<211> 83
<212> PRT
<213> Gallus gallus

<400> 26

```
Ser Ile Pro Cys Asp Leu Cys Lys Glu Leu Val Thr Val Val Gly Lys
1               5                   10                  15

Val Leu Lys Asp Asn Gly Thr Glu Asp Glu Ile Arg Ser Tyr Leu Glu
            20                  25                  30

Lys Thr Cys Glu Phe Leu Pro Asp Gln Gly Leu Ala Ser Glu Cys Lys
        35                  40                  45

Glu Ile Val Asp Ser Tyr Leu Pro Val Ile Met Asp Met Ile Lys Glu
    50                  55                  60

Glu Phe Asp Lys Pro Glu Val Val Cys Ser Ala Leu Ser Leu Cys Gln
65                  70                  75                  80

Ser Leu Gln
```

<210> 27
<211> 83
<212> PRT
<213> Danio rerio

<400> 27

```
Thr Val Pro Cys Asp Leu Cys Lys Glu Val Leu Val Val Val Glu Gln
```

```
1               5                   10                  15

Leu Leu Lys Asp Asn Val Thr Glu Ser Glu Leu Leu Gly Tyr Leu Glu
            20                  25                  30

Lys Ala Cys Gln Leu Ile Pro Asp Glu Gly Leu Ala Asn Gln Cys Lys
        35                  40                  45

Glu Ile Val Asp Asn Tyr Phe Pro Val Leu Met Gly Ile Ile Gln Gly
    50                  55                  60

Glu Leu Asp Asp Pro Gly Val Val Cys Gly Ala Leu Gly Leu Cys Val
65                  70                  75                  80

Ser Gln Gln
```

<210> 28
<211> 83
<212> PRT
<213> Xenopus laevis

<400> 28

```
Ser Met Pro Cys Asp Phe Cys Lys Glu Val Val Thr Val Leu Gly Asn
1               5                   10                  15

Tyr Leu Lys Asp Asn Ile Thr Gln Asp Glu Ile Lys Gln Tyr Leu Asn
            20                  25                  30

Lys Val Cys Asp Phe Ile Pro Asp Pro Gly Leu Ala Ser Thr Cys Lys
        35                  40                  45

Gln Glu Val Ser Asp Tyr Phe Thr Ile Val Leu Asn Leu Leu Glu Gln
    50                  55                  60

Glu Leu Ser Asn Pro Gly Val Leu Cys Ser Ser Leu Gly Leu Cys Thr
65                  70                  75                  80

Ser Leu Gln
```

<210> 29
<211> 80
<212> PRT
<213> Homo sapiens

<400> 29

Asp Val Tyr Cys Glu Val Cys Glu Phe Leu Val Lys Glu Val Thr Lys
1   5   10   15

Leu Ile Asp Asn Asn Lys Thr Glu Lys Glu Ile Leu Asp Ala Phe Asp
            20   25   30

Lys Met Cys Ser Lys Leu Pro Lys Ser Leu Ser Glu Glu Cys Gln Glu
        35   40   45

Val Val Asp Thr Tyr Gly Ser Ser Ile Leu Ser Ile Leu Leu Glu Glu
    50   55   60

Val Ser Pro Glu Leu Val Cys Ser Met Leu His Leu Cys Ser Gly Thr
65   70   75   80

<210> 30
<211> 79
<212> PRT
<213> Bos taurus

<400> 30

Asp Ile Tyr Cys Glu Val Cys Glu Phe Val Val Lys Glu Val Ala Lys
1   5   10   15

Leu Ile Asp Asn Asn Arg Thr Glu Glu Glu Ile Leu His Ala Leu Asp
            20   25   30

Lys Val Cys Ser Lys Leu Pro Thr Ser Leu Ala Glu Gln Cys Gln Glu
        35   40   45

Val Val Asp Thr Tyr Gly Arg Ser Ile Leu Ser Ile Leu Leu Asp Glu
    50   55   60

Ala Ser Pro Glu Leu Val Cys Ser Met Leu His Leu Cys Ser Ser
65   70   75

<210> 31
<211> 79
<212> PRT
<213> Mus musculus

<400> 31

Val Ile Leu Cys Gln Thr Cys Gln Phe Val Met Asn Lys Phe Ser Glu
1   5   10   15

Leu Ile Val Asn Asn Ala Thr Glu Glu Leu Leu Val Lys Gly Leu Ser
            20   25   30

Asn Ala Cys Gly Val Leu Pro Asp Pro Ala Arg Thr Lys Cys Gln Glu
        35   40   45

Val Val Gly Thr Phe Gly Pro Ser Leu Leu Asp Ile Phe Ile His Glu
    50   55   60

Val Asn Pro Ser Ser Leu Cys Gly Val Ile Gly Leu Cys Ala Ala
65   70   75

<210> 32
<211> 80
<212> PRT
<213> Gallus gallus

<400> 32

Phe Ser Val Cys Glu Ile Cys Glu Thr Met Val Lys Glu Val Thr Gly
1   5   10   15

Leu Leu Glu Ser Asn Lys Thr Glu Glu Glu Ile Val His Glu Met Glu
            20   25   30

Val Val Cys Tyr Leu Leu Pro Ala Ser Val Lys Asp Gln Cys Lys Asp
        35   40   45

Phe Ile Glu Val Tyr Gly Gln Ala Leu Ile Asp Met Leu Leu Glu Ala
    50   55   60

Thr Asn Pro Glu Ala Val Cys Val Met Leu Lys Cys Cys Ala Ala Asn
65   70   75   80

<210> 33
<211> 79
<212> PRT
<213> Xenopus laevis

<400> 33

Asn Val Leu Cys Glu Val Cys Glu Leu Met Val Ser Gln Leu Glu Lys
1   5   10   15

Leu Leu Asp Asn Asn Arg Thr Arg Glu Asn Ile Lys His Gly Leu Glu
            20   25   30

Lys Val Cys Lys Leu Leu Pro Ser Gln Tyr Thr Gln Lys Cys Glu Asp
        35   40   45

Met Ile Glu Glu Tyr Ser Asp Ala Leu Ile Glu Leu Leu Glu Gln Glu
    50   55   60

Ala Asn Pro Gln Ala Ile Cys Thr Ala Leu Gly Tyr Cys Ser Gly
65   70   75

<210> 34
<211> 79
<212> PRT
<213> Danio rerio

<400> 34

Ser Pro Gln Cys Ala Ile Cys Glu Tyr Val Met Lys Glu Ile Glu Asn
1   5   10   15

Met Ile Gln Asp Gln Thr Ser Glu Ala Glu Ile Val Gln Ala Val Glu
            20   25   30

Lys Val Cys Asn Ile Leu Pro Ser Thr Leu Thr Ala Gln Cys Lys Asp
        35   40   45

Leu Ile Glu Thr Tyr Gly Gln Ala Ile Ile Asp Leu Leu Val Gln Glu
    50   55   60

Ala Asp Pro Lys Thr Val Cys Ser Phe Leu Ala Leu Cys Ser Gly
65   70   75

<210> 35
<211> 81
<212> PRT
<213> Homo sapiens

<400> 35

Gly Gly Phe Cys Glu Val Cys Lys Lys Leu Val Gly Tyr Leu Asp Arg
1   5   10   15

Asn Leu Glu Lys Asn Ser Thr Lys Gln Glu Ile Leu Ala Ala Leu Glu
            20   25   30

Lys Gly Cys Ser Phe Leu Pro Asp Pro Tyr Gln Lys Gln Cys Asp Gln
        35   40   45

Phe Val Ala Glu Tyr Glu Pro Val Leu Ile Glu Ile Leu Val Glu Val
    50   55   60

Met Asp Pro Ser Phe Val Cys Leu Lys Ile Gly Ala Cys Pro Ser Ala
65   70   75   80

His

<210> 36
<211> 81
<212> PRT
<213> Bos taurus

<400> 36

Gly Gly Phe Cys Glu Val Cys Lys Lys Leu Val Gly Tyr Leu Asp Arg
1   5   10   15

Asn Leu Glu Lys Asn Ser Thr Lys Glu Gln Ile Leu Ala Ala Leu Glu
            20   25   30

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

Phe Val Thr Glu Tyr Glu Pro Val Leu Ile Glu Ile Leu Val Glu Val
    50   55   60

Met Asp Pro Ser Phe Val Cys Leu Lys Ile Gly Ala Cys Pro Ala Ala
65 70 75 80

His

<210> 37
<211> 81
<212> PRT
<213> Mus musculus

<400> 37

Gly Gly Phe Cys Glu Val Cys Lys Lys Leu Val Leu Tyr Leu Glu His
1 5 10 15

Asn Leu Glu Lys Asn Ser Thr Lys Glu Glu Ile Leu Ala Ala Leu Glu
20 25 30

Lys Gly Cys Ser Phe Leu Pro Asp Pro Tyr Gln Lys Gln Cys Asp Asp
35 40 45

Phe Val Ala Glu Tyr Glu Pro Leu Leu Leu Glu Ile Leu Val Glu Val
50 55 60

Met Asp Pro Gly Phe Val Cys Ser Lys Ile Gly Val Cys Pro Ser Ala
65 70 75 80

Tyr

<210> 38
<211> 81
<212> PRT
<213> Gallus gallus

<400> 38

Gly Gly Phe Cys Asp Ile Cys Lys Met Ile Val Ala Tyr Ala Asp Lys
1 5 10 15

Glu Leu Glu Lys Asn Ala Thr Thr Thr Glu Ile Glu Ala Leu Leu Glu
20 25 30

Lys Val Cys His Phe Leu Pro Glu Ser Val Ser Asp Gln Cys Val Gln
        35   40   45

Phe Val Glu Gln Tyr Glu Pro Val Val Val Gln Leu Leu Ala Glu Met
    50   55   60

Met Asp Pro Thr Phe Val Cys Thr Lys Leu Gly Val Cys Gly Ala Ala
65   70   75   80

Lys

<210> 39
<211> 81
<212> PRT
<213> Danio rerio

<400> 39

Gly Gly Phe Cys Asp Val Cys Lys Met Ala Val Arg Tyr Val Asp Gly
1   5   10   15

Ile Leu Glu Gln Asn Ala Thr Gln Ser Glu Ile Glu Glu Ala Val Leu
            20   25   30

Lys Val Cys Ser Phe Leu Pro Asp Ala Val Lys Asp Glu Cys Asn Gln
        35   40   45

Leu Ile Glu Gln Tyr Glu Pro Leu Leu Val Gln Leu Leu Leu Gln Thr
    50   55   60

Leu Asp Pro Asp Phe Val Cys Met Lys Leu Gly Ala Cys Pro Glu Ala
65   70   75   80

Val

<210> 40
<211> 81
<212> PRT
<213> Xenopus laevis

<400> 40

Gly Asp Tyr Cys Ala Val Cys Lys Met Leu Met Arg Tyr Val Asp Glu
1   5   10   15

Leu Leu Glu Lys Asn Ala Thr Glu Ile Arg Ile Lys Ala Phe Leu Gly
            20   25   30

Arg Ile Cys Asn Phe Leu Pro Asp Ser Met Gln Asn Glu Cys Ser Ala
        35   40   45

Leu Val Asn Glu Tyr Glu Pro Leu Phe Ile Gln Leu Leu Leu Glu Ala
    50   55   60

Leu Asp Pro Ser Phe Ile Cys Ile Lys Val Asn Leu Cys Gln Asn Lys
65   70   75   80

Lys

<210> 41
<211> 79
<212> PRT
<213> Homo sapiens

<400> 41

Gly Asp Val Cys Gln Asp Cys Ile Gln Met Val Thr Asp Ile Gln Thr
1   5   10   15

Ala Val Arg Thr Asn Ser Thr Phe Val Gln Ala Leu Val Glu His Val
            20   25   30

Lys Glu Glu Cys Asp Arg Leu Gly Pro Gly Met Ala Asp Ile Cys Lys
        35   40   45

Asn Tyr Ile Ser Gln Tyr Ser Glu Ile Ala Ile Gln Met Met Met His
    50   55   60

Met Gln Pro Lys Glu Ile Cys Ala Leu Val Gly Phe Cys Asp Glu
65   70   75

<210> 42
<211> 79
<212> PRT

<213> Bos taurus

<400> 42

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

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

Lys Glu Glu Cys Asp Arg Leu Gly Pro Gly Met Ser Asp Met Cys Lys
35 40 45

Asn Tyr Ile Asn Gln Tyr Ser Glu Val Ala Ile Gln Met Val Met His
50 55 60

Met Gln Pro Lys Glu Ile Cys Val Leu Ala Gly Phe Cys Asp Glu
65 70 75

<210> 43
<211> 83
<212> PRT
<213> Gallus gallus

<400> 43

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

Ala Val Arg Thr Asn Ala Thr Phe Val Lys Ser Leu Val Ala His Ala
20 25 30

Lys Glu Glu Cys Asp Arg Leu Gly Pro Gly Met Ser Asp Met Cys Lys
35 40 45

Ser Tyr Ile Ser Glu Tyr Ser Asp Leu Ala Ile Gln Met Met Met His
50 55 60

Met Lys Asp Gln Gln Pro Lys Asp Ile Cys Ala Met Val Gly Phe Cys
65 70 75 80

Pro Ser Val

<210> 44
<211> 83
<212> PRT
<213> Mus musculus

<400> 44

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

Ala Val Lys Thr Asn Ser Ser Phe Ile Gln Gly Phe Val Asp His Val
            20   25   30

Lys Glu Asp Cys Asp Arg Leu Gly Pro Gly Val Ser Asp Ile Cys Lys
        35   40   45

Asn Tyr Val Asp Gln Tyr Ser Glu Val Cys Val Gln Met Leu Met His
    50   55   60

Met Gln Asp Gln Gln Pro Lys Glu Ile Cys Val Leu Ala Gly Phe Cys
65   70   75   80

Asn Glu Val

<210> 45
<211> 79
<212> PRT
<213> Danio rerio

<400> 45

Gly Asp Val Cys Gln Asp Cys Val Thr Phe Ile Ser Asp Thr Gln Asp
1   5   10   15

Glu Ala Arg Val Asn Ser Ser Phe Ile Asn Thr Leu Ile Ala Gln Val
            20   25   30

Glu Asn Gln Cys Glu Leu Leu Gly Pro Gly Met Ser Asp Met Cys Lys
        35   40   45

Glu Tyr Ile Ser Gln Tyr Gly Pro Leu Val Phe Gln Gln Leu Met Ser
    50   55   60

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Met Gln Pro Lys Asp Ile Cys Ala Arg Ala Gly Phe Cys Pro Thr
65                  70                  75
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<210> 46
<211> 79
<212> PRT
<213> Xenopus laevis

<400> 46

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Gly Asp Ile Cys Asn Asp Cys Thr Lys Leu Val Ser Asp Val Gln Asp
1               5                   10                  15


Ala Leu Arg Ser Asn Ser Ser Phe Ser Lys Lys Leu Val Asp His Phe
            20                  25                  30


Leu Gln Glu Cys Asn Leu Leu Asp Pro Ala Ile Ala Glu Met Cys Lys
        35                  40                  45


Ser Tyr Ile Asn Gln Tyr Ser Asp Ile Ala Ile Gln Val Leu Leu Gln
    50                  55                  60


Met Gln Pro Lys Gln Leu Cys Gly Met Ala Gly Phe Cys Asp Gln
65                  70                  75
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