SEQUENCE LISTING

<110> AbGenomics Corporation

<120> ANTIBODIES

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<160> 100

<170> FastSEQ for Windows Version 4.0

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 1   5   10   15

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<213> Mus musculus

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Lys Val Ser Asn Arg Phe Ser
 1   5

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<213> Mus musculus

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Phe Gln Gly Ser Tyr Val Pro Leu Thr
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Ser Phe Gly Met His
 1   5

<210> 5
<211> 17
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<213> Mus musculus

<400> 5
Tyr Ile Asn Gly Gly Ser Ser Thr Ile Phe Tyr Ala Asn Ala Val Lys
 1   5   10   15
Gly

<210> 6
<211> 11
<212> PRT
<213> Mus musculus

<400> 6
Tyr Ala Ser Tyr Gly Gly Gly Ala Met Asp Tyr
 1   5   10

<210> 7
<211> 12
<212> PRT
<213> Mus musculus

<400> 7
Arg Ala Ser Ser Thr Val Asn Ser Thr Tyr Leu His
 1   5   10

<210> 8
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<212> PRT
<213> Mus musculus

<400> 8
Gly Ser Ser Asn Leu Ala Ser
 1   5

<210> 9
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<212> PRT
<213> Mus musculus

<400> 9
Gln Gln Tyr Ser Gly Tyr Pro Leu Thr
 1   5

<210> 10
<211> 5
<212> PRT
<213> Mus musculus

<400> 10

Ala Tyr Tyr Ile His
1 5

<210> 11
<211> 16
<212> PRT
<213> Mus musculus

<400> 11
Val Asn Pro Asn Thr Gly Gly Thr Ser Tyr Asn Pro Lys Phe Lys Gly
1 5 10 15

<210> 12
<211> 10
<212> PRT
<213> Mus musculus

<400> 12
Ser Gly Ser Pro Tyr Tyr Arg Tyr Asp Asp
1 5 10

<210> 13
<211> 16
<212> PRT
<213> Mus musculus

<400> 13
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1 5 10 15

<210> 14
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<213> Mus musculus

<400> 14
Lys Val Ser Asn Arg Phe Ser
1 5

<210> 15
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<213> Mus musculus

<400> 15
Phe Gln Gly Ser His Val Pro Trp Thr
1 5

<210> 16
<211> 16
<212> PRT
<213> Mus musculus

<400> 16
Thr Asn Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
1 5 10 15

<210> 17
<211> 9
<212> PRT
<213> Mus musculus

<400> 17
Thr Tyr Tyr Ala Asp Ser Val Lys Asp
1 5

<210> 18
<211> 9
<212> PRT
<213> Mus musculus

<400> 18
Gly Gly Ser Tyr Trp Tyr Phe Asp Val
1 5

<210> 19
<211> 131
<212> PRT
<213> Mus musculus

<400> 19
Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
1 5 10 15
Ser Ser Ser Asp Ile Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
20 25 30
Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile
35 40 45
Val His Asn Asp Gly Asn Thr Tyr Phe Glu Trp Tyr Leu Gln Lys Pro
50 55 60
Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
65 70 75 80
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr His Phe Thr
85 90 95
Leu Asn Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys
100 105 110
Phe Gln Gly Ser Tyr Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu
115 120 125
Glu Leu Lys
130

<210> 20
<211> 139
<212> PRT
<213> Mus musculus

<400> 20
Met Asp Ser Arg Leu Asn Leu Val Phe Leu Val Leu Ile Leu Lys Gly
1 5 10 15

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Val Gln Cys Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
            20                  25                  30
Pro Gly Gly Ser Arg Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
        35                  40                  45
Ser Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu
    50                  55                  60
Glu Trp Val Ala Tyr Ile Asn Gly Gly Ser Ser Thr Ile Phe Tyr Ala
65                  70                  75                  80
Asn Ala Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn
                85                  90                  95
Thr Leu Phe Leu Gln Met Thr Ile Leu Arg Ser Glu Asp Thr Ala Ile
            100                 105                 110
Tyr Tyr Cys Gly Arg Tyr Ala Ser Tyr Gly Gly Gly Ala Met Asp Tyr
        115                 120                 125
Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
    130                 135
```

<210> 21
<211> 130
<212> PRT
<213> Mus musculus

<400> 21

```
Met Asp Phe Leu Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser
 1               5                  10                  15
Val Ala Met Ser Arg Gly Glu Asn Val Leu Thr Gln Ser Pro Ala Ile
            20                  25                  30
Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Arg Ala Ser
        35                  40                  45
Ser Thr Val Asn Ser Thr Tyr Leu His Trp Phe Gln Gln Lys Ser Gly
    50                  55                  60
Ala Ser Pro Lys Leu Trp Ile Tyr Gly Ser Ser Asn Leu Ala Ser Gly
65                  70                  75                  80
Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu
                85                  90                  95
Thr Ile Ser Ser Val Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln
            100                 105                 110
Gln Tyr Ser Gly Tyr Pro Leu Thr Phe Gly Ala Gly Thr Thr Leu Glu
        115                 120                 125
Leu Lys
    130
```

<210> 22
<211> 138
<212> PRT
<213> Mus musculus

<400> 22

```
Met Glu Trp Ser Trp Val Phe Leu Phe Leu Leu Ser Val Thr Thr Gly
 1               5                  10                  15
Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Val Lys
            20                  25                  30
Pro Gly Ala Leu Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe
        35                  40                  45
Thr Ala Tyr Tyr Ile His Trp Val Lys Gln Ser His Gly Lys Ser Leu
    50                  55                  60
Glu Trp Ile Gly Arg Val Asn Pro Asn Thr Gly Gly Thr Ser Tyr Asn
```

```
65                  70                  75                  80
Pro Lys Phe Lys Gly Lys Ala Ile Leu Asn Val Asp Lys Ser Ser Ser
                85                  90                  95
Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
            100                 105                 110
Tyr Tyr Cys Ala Arg Ser Gly Ser Pro Tyr Tyr Arg Tyr Asp Asp Trp
        115                 120                 125
Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
    130                 135
```

<210> 23
<211> 131
<212> PRT
<213> Mus musculus

<400> 23

```
Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
 1               5                  10                  15
Ser Ser Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
            20                  25                  30
Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile
        35                  40                  45
Val Asn Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro
    50                  55                  60
Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
65                  70                  75                  80
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
                85                  90                  95
Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys
            100                 105                 110
Phe Gln Gly Ser His Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu
        115                 120                 125
Glu Ile Lys
    130
```

<210> 24
<211> 139
<212> PRT
<213> Mus musculus

<400> 24

```
Met Leu Leu Gly Leu Lys Trp Val Phe Phe Val Val Phe Tyr Gln Gly
 1               5                  10                  15
Val His Cys Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Val Gln
            20                  25                  30
Pro Lys Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
        35                  40                  45
Asn Thr Asn Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
    50                  55                  60
Glu Trp Val Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr
65                  70                  75                  80
Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Thr
                85                  90                  95
Gln Ser Met Ile Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
            100                 105                 110
Gly Met Tyr Tyr Cys Val Arg Gly Gly Ser Tyr Trp Tyr Phe Asp Val
        115                 120                 125
```

```
Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser
    130                 135


<210> 25
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 25
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1               5                  10                  15
Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Ile Val His Asn
            20                  25                  30
Asp Gly Asn Thr Tyr Phe Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ala
        35                  40                  45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
    50                  55                  60
Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr His Phe Thr Leu Thr Ile
65                  70                  75                  80
Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
                85                  90                  95
Ser Tyr Val Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105                 110


<210> 26
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetically generated peptide

<400> 26
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1               5                  10                  15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
            20                  25                  30
Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45
Ala Tyr Ile Asn Gly Gly Ser Ser Thr Ile Phe Tyr Ala Asn Ala Val
    50                  55                  60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65                  70                  75                  80
Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95
Ala Arg Tyr Ala Ser Tyr Gly Gly Gly Ala Met Asp Tyr Trp Gly Gln
            100                 105                 110
Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210> 27
<211> 393
<212> DNA
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<213> Mus musculus

<220>
<221> CDS
<222> (1)...(393)

<400> 27
atg aag ttg cct gtt agg ctg ttg gtg ctg atg ttc tgg att cct gct 48
Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
 1   5   10   15

tcc agc agt gat att ttg atg acc caa act cca ctg tcc ctg cct gtc 96
Ser Ser Ser Asp Ile Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
            20   25   30

agt ctt gga gat caa gcc tca ata tct tgc aga tct agt cag agc att 144
Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile
        35   40   45

gta cat aat gat gga aac acc tat ttt gaa tgg tac ctg cag aaa cca 192
Val His Asn Asp Gly Asn Thr Tyr Phe Glu Trp Tyr Leu Gln Lys Pro
    50   55   60

ggc cag tct cca aaa ctc ctg atc tac aaa gtt tcc aat cga ttt tct 240
Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
65   70   75   80

ggg gtc cca gac agg ttc agt ggc agt gga tca ggg aca cat ttc aca 288
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr His Phe Thr
                85   90   95

ctc aac atc agc aga gtg gag gct gag gat ctg gga att tat tac tgc 336
Leu Asn Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys
            100   105   110

ttt caa ggt tca tat gtt cct ctc acg ttc ggt gct ggg acc aag ctg 384
Phe Gln Gly Ser Tyr Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu
        115   120   125

gag ctg aaa 393
Glu Leu Lys
    130

<210> 28
<211> 417
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (1)...(417)

<400> 28
atg gac tcc agg ctc aat tta gtt ttc ctt gtc ctt att tta aaa ggt 48
Met Asp Ser Arg Leu Asn Leu Val Phe Leu Val Leu Ile Leu Lys Gly
 1   5   10   15

gtc cag tgt gat gtg cag ctg gtg gag tct ggg gga ggc tta gtg cag 96

```
Val Gln Cys Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
            20                  25                  30

cct gga ggg tcc cgg aaa ctc tcc tgt gca gcc tct gga ttc act ttc   144
Pro Gly Gly Ser Arg Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
         35                  40                  45

agt agc ttt gga atg cac tgg gtt cgt cag gct cca gag aag ggg ctg   192
Ser Ser Phe Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu
     50                  55                  60

gag tgg gtc gca tac att aat ggt ggc agt agt acc atc ttc tat gca   240
Glu Trp Val Ala Tyr Ile Asn Gly Gly Ser Ser Thr Ile Phe Tyr Ala
 65                  70                  75                  80

aac gca gtg aag ggc cga ttc acc atc tcc aga gac aat ccc aag aat   288
Asn Ala Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn
                85                  90                  95

acc ctg ttc ctg caa atg acc att cta agg tct gag gac acg gcc att   336
Thr Leu Phe Leu Gln Met Thr Ile Leu Arg Ser Glu Asp Thr Ala Ile
            100                 105                 110

tat tac tgt gga agg tat gct agt tac gga ggg ggt gct atg gac tat   384
Tyr Tyr Cys Gly Arg Tyr Ala Ser Tyr Gly Gly Gly Ala Met Asp Tyr
        115                 120                 125

tgg ggt caa gga acc tca gtc acc gtc tcc tca                       417
Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
    130                 135
```

<210> 29
<211> 390
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (1)...(390)

<400> 29

```
atg gat ttt ctg gtg cag att ttc agc ttc ttg cta atc agt gcc tca   48
Met Asp Phe Leu Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser
 1               5                  10                  15

gtt gca atg tcc aga gga gaa aat gtg ctc acc cag tct cca gca atc   96
Val Ala Met Ser Arg Gly Glu Asn Val Leu Thr Gln Ser Pro Ala Ile
            20                  25                  30

atg tct gca tct cca ggg gaa aag gtc acc atg acc tgc agg gcc agc   144
Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Arg Ala Ser
        35                  40                  45

tca act gta aat tcc act tac ttg cac tgg ttc cag cag aag tca ggt   192
Ser Thr Val Asn Ser Thr Tyr Leu His Trp Phe Gln Gln Lys Ser Gly
    50                  55                  60

gcc tcc ccc aaa ctc tgg att tat ggc tca tcc aac ttg gct tct gga   240
```

```
Ala Ser Pro Lys Leu Trp Ile Tyr Gly Ser Ser Asn Leu Ala Ser Gly
 65                  70                  75                  80

gtc cct gct cgc ttc agt ggc agt ggg tct ggg acc tct tac tct ctc   288
Val Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu
                 85                  90                  95

aca atc agc agt gtg gag gct gaa gat gct gcc act tat tac tgc cag   336
Thr Ile Ser Ser Val Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln
            100                 105                 110

cag tac agt ggt tac cca ctc acg ttc ggt gct ggg acc acg ctg gag   384
Gln Tyr Ser Gly Tyr Pro Leu Thr Phe Gly Ala Gly Thr Thr Leu Glu
        115                 120                 125

ctg aaa                                                          390
Leu Lys
    130
```

<210> 30
<211> 414
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (1)...(414)

<400> 30

```
atg gaa tgg agc tgg gtc ttt ctc ttc ctc ctg tca gtc act aca ggt   48
Met Glu Trp Ser Trp Val Phe Leu Phe Leu Leu Ser Val Thr Thr Gly
 1               5                  10                  15

gtc cac tct gag gtc cag ctg cag cag tct gga cct gac ctg gtg aag   96
Val His Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Val Lys
            20                  25                  30

cct ggg gct tta gtg aag ata tcc tgc aag gct tct ggt tac tca ttc   144
Pro Gly Ala Leu Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe
        35                  40                  45

act gcc tac tac att cac tgg gtg aag cag agc cat gga aag agc ctt   192
Thr Ala Tyr Tyr Ile His Trp Val Lys Gln Ser His Gly Lys Ser Leu
    50                  55                  60

gag tgg att gga cgt gtt aat cct aat act ggt ggt act agc tac aac   240
Glu Trp Ile Gly Arg Val Asn Pro Asn Thr Gly Gly Thr Ser Tyr Asn
 65                  70                  75                  80

ccg aag ttc aag ggc aag gcc ata tta aat gta gat aag tca tcc agc   288
Pro Lys Phe Lys Gly Lys Ala Ile Leu Asn Val Asp Lys Ser Ser Ser
                85                  90                  95

aca gcc tac atg gag ctc cgc agc ctg aca tct gag gac tct gcg gtc   336
Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val
            100                 105                 110

tat tac tgt gca aga tcg gga tcc ccc tac tat agg tac gac gac tgg   384
```

```
Tyr Tyr Cys Ala Arg Ser Gly Ser Pro Tyr Tyr Arg Tyr Asp Asp Trp
        115                 120                 125

ggc caa ggc acc act ctc aca gtc tcc tca                          414
Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
    130                 135


<210> 31
<211> 393
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (1)...(393)

<400> 31
atg aag ttg cct gtt agg ctg ttg gtg ctg atg ttc tgg att cct gct   48
Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala
 1               5                  10                  15

tcc agc agt gat gtt ttg atg acc caa act cca ctc tcc ctg cct gtc   96
Ser Ser Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val
            20                  25                  30

agt ctt gga gat caa gcc tcc atc tct tgc aga tct agt cag agc att   144
Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile
        35                  40                  45

gta aat agt aat gga aac acc tat tta gaa tgg tac ctg cag aaa cca   192
Val Asn Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro
    50                  55                  60

ggc cag tct cca aag ctc ctg atc tac aaa gtt tcc aac cga ttt tct   240
Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser
65                  70                  75                  80

ggg gtc cca gac agg ttc agt ggc agt gga tca ggg aca gat ttc aca   288
Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
                85                  90                  95

ctc aag atc agc aga gtg gag gct gag gat ctg gga gtt tat tac tgc   336
Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys
            100                 105                 110

ttt caa ggt tca cat gtt ccg tgg acg ttc ggt gga ggc acc aag ctg   384
Phe Gln Gly Ser His Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu
        115                 120                 125

gaa atc aaa                                                      393
Glu Ile Lys
    130


<210> 32
<211> 417
<212> DNA
<213> Mus musculus
```

<220>
<221> CDS
<222> (1)...(417)

<400> 32
```
atg ctg ttg ggg ctg aag tgg gtt ttc ttt gtt gtt ttt tat caa ggt   48
Met Leu Leu Gly Leu Lys Trp Val Phe Phe Val Val Phe Tyr Gln Gly
 1               5                  10                  15

gtg cat tgt gag gtg cag ctt gtt gag act ggt gga gga ttg gtg cag   96
Val His Cys Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Val Gln
            20                  25                  30

cct aaa ggg tca ttg aaa ctc tca tgt gca gcc tct gga ttc acc ttc   144
Pro Lys Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
        35                  40                  45

aat acc aat gcc atg aac tgg gtc cgc cag gct cca gga aag ggt ttg   192
Asn Thr Asn Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
    50                  55                  60

gaa tgg gtt gct cgc ata aga agt aaa agt aat aat tat gca aca tat   240
Glu Trp Val Ala Arg Ile Arg Ser Lys Ser Asn Asn Tyr Ala Thr Tyr
65                  70                  75                  80

tat gcc gat tca gtg aaa gac agg ttc acc atc tcc aga gat gat aca   288
Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Thr
                85                  90                  95

caa agc atg atc tat ctg caa atg aac aac ttg aaa act gag gac aca   336
Gln Ser Met Ile Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
            100                 105                 110

ggc atg tat tac tgt gtg aga ggg gga agc tac tgg tac ttc gat gtc   384
Gly Met Tyr Tyr Cys Val Arg Gly Gly Ser Tyr Trp Tyr Phe Asp Val
        115                 120                 125

tgg ggc gca ggg acc acg gtc acc gtc tcc tca                      417
Trp Gly Ala Gly Thr Thr Val Thr Val Ser Ser
    130                 135
```

<210> 33
<211> 111
<212> PRT
<213> Mus musculus

<400> 33
```
Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ser Val Ser Leu Gly
 1               5                  10                  15
Glu Arg Ala Ser Ile Ser Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
            20                  25                  30
Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro
        35                  40                  45
Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Glu Ser Gly Ile Pro Ala
    50                  55                  60
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
65                  70                  75                  80
```

```
Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Ser Asn
                85                  90                  95
Glu Asp Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105                 110


<210> 34
<211> 112
<212> PRT
<213> Mus musculus

<400> 34
Asp Ile Leu Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly
 1               5                  10                  15
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Asn
            20                  25                  30
Asp Gly Asn Thr Tyr Phe Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
        35                  40                  45
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
    50                  55                  60
Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr His Phe Thr Leu Asn Ile
65                  70                  75                  80
Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Tyr Cys Phe Gln Gly
                85                  90                  95
Ser Tyr Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
            100                 105                 110


<210> 35
<211> 116
<212> PRT
<213> Mus musculus

<400> 35
Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1               5                  10                  15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
            20                  25                  30
Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
        35                  40                  45
Ala Ser Ile Ser Thr Gly Gly Ser Thr Tyr Tyr Pro Asp Ser Val Lys
    50                  55                  60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65                  70                  75                  80
Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala
                85                  90                  95
Arg Asp Tyr Asp Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
            100                 105                 110
Thr Val Ser Ser
        115


<210> 36
<211> 120
<212> PRT
<213> Mus musculus

<400> 36
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
```

```
 1               5                  10                  15
Ser Arg Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
            20                  25                  30
Gly Met His Trp Val Arg Gln Ala Pro Glu Lys Gly Leu Glu Trp Val
        35                  40                  45
Ala Tyr Ile Asn Gly Gly Ser Ser Thr Ile Phe Tyr Ala Asn Ala Val
    50                  55                  60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr Leu Phe
65                  70                  75                  80
Leu Gln Met Thr Ile Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95
Gly Arg Tyr Ala Ser Tyr Gly Gly Gly Ala Met Asp Tyr Trp Gly Gln
            100                 105                 110
Gly Thr Ser Val Thr Val Ser Ser
        115                 120
```

<210> 37
<211> 111
<212> PRT
<213> Homo sapiens

<400> 37

```
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1               5                  10                  15
Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
            20                  25                  30
Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
        35                  40                  45
Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Glu Ser Gly Ile Pro Ser
    50                  55                  60
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
65                  70                  75                  80
Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn
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Glu Asp Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
            100                 105                 110
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
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Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45
Ala Ser Ile Ser Thr Gly Gly Ser Thr Tyr Tyr Pro Asp Ser Val Lys
    50                  55                  60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu
65                  70                  75                  80
Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
                85                  90                  95
Arg Asp Tyr Asp Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
            100                 105                 110
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Thr Val Ser Ser
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