SEQUENCE LISTING

<110> Novartis AG

<120> Novel vertebrate cells and methods for recombinantly expressing a polypeptide of interest

<130> PAT056118-WO-PCT

<150> US 61/985,589
<151> 2014-04-29

<150> US 61/994,310
<151> 2014-05-16

<160> 69

<170> PatentIn version 3.5

<210> 1
<211> 855
<212> PRT
<213> Cricetulus griseus

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Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Ser Ser Lys Asp Phe
1 5 10 15

Gly Ala Arg Leu Lys Tyr Ser Ser Gly Leu Glu Asn Met Asn Gly Phe
20 25 30

Glu Glu Gly Val Glu Phe Leu Pro Val Asn Asn Ala Lys Lys Val Glu
35 40 45

Lys Arg Gly Pro Arg Arg Cys Val Val Leu Val Val Leu Leu Val Ser
50 55 60

Phe Leu Phe Leu Ser Leu Val Ala Gly Phe Leu Val Trp His Phe Leu
65 70 75 80

Tyr Ser Asn Val Arg Ile Gln Lys Val Phe Asn Gly His Leu Arg Val
85 90 95

```
Thr Asn Glu Asn Phe Leu Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu
            100                 105                 110

Phe Lys Asp Leu Ala Asn Gln Val Lys Glu Ala Leu Lys Leu Leu Tyr
        115                 120                 125

Ser Glu Val Pro Val Leu Gly Pro Tyr His Lys Arg Ser Ala Val Thr
    130                 135                 140

Ala Phe Ser Glu Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser
145                 150                 155                 160

Ile Pro Pro His Leu Ala Glu Glu Val Asp Arg Ala Met Ala Val Glu
                165                 170                 175

Arg Val Val Thr Leu Pro Pro Arg Ala Arg Ala Leu Lys Ser Phe Val
            180                 185                 190

Leu Thr Ser Val Val Ala Phe Pro Thr Asp Pro Arg Leu Leu Gly Arg
        195                 200                 205

Thr Gln Asp Asn Ser Cys Asn Phe Ala Leu His Ala His Gly Gly Glu
    210                 215                 220

Val Met Arg Phe Thr Thr Pro Gly Phe Pro Asn Ser Pro Tyr Pro Ala
225                 230                 235                 240

His Ala Arg Cys Gln Trp Val Leu Arg Gly Asp Ala Asp Ser Val Leu
                245                 250                 255

Ser Leu Thr Phe Arg Ser Phe Asp Val Ala Pro Cys Asp Glu Leu Gly
            260                 265                 270

Asn Asp Leu Val Thr Val Tyr Asp Thr Leu Ser Pro Met Glu Pro His
        275                 280                 285
```

```
Ala Val Val Arg Leu Cys Gly Thr Tyr Pro Pro Ser Tyr Asn Leu Thr
    290                 295                 300

Phe Leu Ser Ser Gln Asn Val Phe Leu Val Thr Leu Ile Thr Asn Thr
305                 310                 315                 320

Asp Arg Arg His Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Lys
                325                 330                 335

Met Arg Ser Cys Gly Gly Ser Leu Ser Glu Ala Gln Gly Leu Phe Ser
            340                 345                 350

Ser Pro Tyr Tyr Pro Gly His Tyr Pro Pro Asn Ile Asp Cys Thr Trp
        355                 360                 365

Asn Ile Lys Val Pro Asn Asn Arg Asn Val Lys Val Arg Phe Lys Leu
    370                 375                 380

Phe Tyr Leu Val Asp Pro Asn Ile Pro Leu Gly Thr Cys Pro Lys Asp
385                 390                 395                 400

Tyr Val Glu Ile Asn Gly Glu Arg Tyr Cys Gly Glu Lys Ser Gln Phe
                405                 410                 415

Val Val Ser Ser Asn Ser Ser Lys Ile Thr Val Arg Phe His Ser Asp
            420                 425                 430

His Ser Tyr Thr Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp
        435                 440                 445

Ser Asn Asp Pro Cys Pro Gly Met Phe Met Cys Asn Thr Gly Arg Cys
    450                 455                 460

Ile Arg Lys Asp Leu Arg Cys Asp Gly Trp Ala Asp Cys Pro Asp Tyr
465                 470                 475                 480
```

```
Ser Asp Glu His Phe Cys Arg Cys Asn Thr Thr His Gln Phe Met Cys
                485                 490                 495

Lys Asn Lys Leu Cys Lys Pro Leu Phe Trp Val Cys Asp Asn Ile Asn
            500                 505                 510

Asp Cys Gly Asp Gly Ser Asp Glu Glu Gly Cys Ser Cys Pro Ala Glu
        515                 520                 525

Thr Phe Lys Cys Ser Asn Gly Lys Cys Leu Pro Gln Ser Gln Lys Cys
    530                 535                 540

Asp Gly Lys Asp Asn Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Asp
545                 550                 555                 560

Arg Val Lys Val Val Ser Cys Thr Lys Tyr Thr Tyr Arg Cys His Asn
                565                 570                 575

Gly Leu Cys Leu Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Lys Asp
            580                 585                 590

Cys Ser Asp Gly Ser Asp Glu Lys Asn Cys Asp Cys Gly Leu Arg Ser
        595                 600                 605

Phe Thr Lys Gln Ala Arg Val Val Gly Gly Thr Asn Ala Asp Glu Gly
    610                 615                 620

Glu Trp Pro Trp Gln Val Ser Leu His Ala Leu Gly Gln Gly His Leu
625                 630                 635                 640

Cys Gly Ala Ser Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His
                645                 650                 655

Cys Phe Met Asp Asp Arg Asn Phe Lys Tyr Ser Asp His Thr Lys Trp
            660                 665                 670
```

```
Thr Ala Phe Leu Gly Leu Leu Asp Gln Ser Lys Arg Ser Ser Thr Gly
        675                 680                 685

Val Gln Glu His Lys Leu Lys Arg Ile Ile Thr His Pro Leu Phe Asn
    690                 695                 700

Glu Ile Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro
705                 710                 715                 720

Ala Glu Tyr Ser Thr Val Val Arg Pro Ile Cys Leu Pro Asp Thr Thr
                725                 730                 735

His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His
            740                 745                 750

Thr Gln Glu Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile
        755                 760                 765

Arg Val Ile Asn Gln Thr Thr Cys Glu Asp Leu Met Pro Gln Gln Ile
    770                 775                 780

Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser
785                 790                 795                 800

Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser Ser Val Glu Thr Glu Gly
                805                 810                 815

Arg Ile Phe Gln Ala Gly Val Val Ser Trp Gly Glu Gly Cys Ala Gln
            820                 825                 830

Arg Asn Lys Pro Gly Val Tyr Thr Arg Leu Pro Ala Val Arg Asp Trp
        835                 840                 845

Ile Lys Glu Gln Thr Gly Val
    850                 855
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<210> 2
<211> 855
<212> PRT
<213> Homo sapiens

<400> 2

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Met Gly Ser Asp Arg Ala Arg Lys Gly Gly Gly Gly Pro Lys Asp Phe
1               5                  10                  15


Gly Ala Gly Leu Lys Tyr Asn Ser Arg His Glu Lys Val Asn Gly Leu
            20                  25                  30


Glu Glu Gly Val Glu Phe Leu Pro Val Asn Asn Val Lys Lys Val Glu
        35                  40                  45


Lys His Gly Pro Gly Arg Trp Val Val Leu Ala Ala Val Leu Ile Gly
    50                  55                  60


Leu Leu Leu Val Leu Leu Gly Ile Gly Phe Leu Val Trp His Leu Gln
65                  70                  75                  80


Tyr Arg Asp Val Arg Val Gln Lys Val Phe Asn Gly Tyr Met Arg Ile
                85                  90                  95


Thr Asn Glu Asn Phe Val Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu
            100                 105                 110


Phe Val Ser Leu Ala Ser Lys Val Lys Asp Ala Leu Lys Leu Leu Tyr
        115                 120                 125


Ser Gly Val Pro Phe Leu Gly Pro Tyr His Lys Glu Ser Ala Val Thr
    130                 135                 140


Ala Phe Ser Glu Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser
145                 150                 155                 160
```

```
Ile Pro Gln His Leu Val Glu Glu Ala Glu Arg Val Met Ala Glu Glu
                165                 170                 175

Arg Val Val Met Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val
            180                 185                 190

Val Thr Ser Val Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg
        195                 200                 205

Thr Gln Asp Asn Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu
    210                 215                 220

Leu Met Arg Phe Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala
225                 230                 235                 240

His Ala Arg Cys Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val Leu
                245                 250                 255

Ser Leu Thr Phe Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu Arg Gly
            260                 265                 270

Ser Asp Leu Val Thr Val Tyr Asn Thr Leu Ser Pro Met Glu Pro His
        275                 280                 285

Ala Leu Val Gln Leu Cys Gly Thr Tyr Pro Pro Ser Tyr Asn Leu Thr
    290                 295                 300

Phe His Ser Ser Gln Asn Val Leu Leu Ile Thr Leu Ile Thr Asn Thr
305                 310                 315                 320

Glu Arg Arg His Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Arg
                325                 330                 335

Met Ser Ser Cys Gly Gly Arg Leu Arg Lys Ala Gln Gly Thr Phe Asn
            340                 345                 350
```

```
Ser Pro Tyr Tyr Pro Gly His Tyr Pro Pro Asn Ile Asp Cys Thr Trp
        355                 360                 365

Asn Ile Glu Val Pro Asn Asn Gln His Val Lys Val Arg Phe Lys Phe
    370                 375                 380

Phe Tyr Leu Leu Glu Pro Gly Val Pro Ala Gly Thr Cys Pro Lys Asp
385                 390                 395                 400

Tyr Val Glu Ile Asn Gly Glu Lys Tyr Cys Gly Glu Arg Ser Gln Phe
                405                 410                 415

Val Val Thr Ser Asn Ser Asn Lys Ile Thr Val Arg Phe His Ser Asp
            420                 425                 430

Gln Ser Tyr Thr Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp
        435                 440                 445

Ser Ser Asp Pro Cys Pro Gly Gln Phe Thr Cys Arg Thr Gly Arg Cys
    450                 455                 460

Ile Arg Lys Glu Leu Arg Cys Asp Gly Trp Ala Asp Cys Thr Asp His
465                 470                 475                 480

Ser Asp Glu Leu Asn Cys Ser Cys Asp Ala Gly His Gln Phe Thr Cys
                485                 490                 495

Lys Asn Lys Phe Cys Lys Pro Leu Phe Trp Val Cys Asp Ser Val Asn
            500                 505                 510

Asp Cys Gly Asp Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln
        515                 520                 525

Thr Phe Arg Cys Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys
    530                 535                 540
```

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Asn Gly Lys Asp Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro
545                 550                 555                 560

Lys Val Asn Val Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn
                565                 570                 575

Gly Leu Cys Leu Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp
            580                 585                 590

Cys Ser Asp Gly Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser
        595                 600                 605

Phe Thr Arg Gln Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly
    610                 615                 620

Glu Trp Pro Trp Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile
625                 630                 635                 640

Cys Gly Ala Ser Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His
                645                 650                 655

Cys Tyr Ile Asp Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp
            660                 665                 670

Thr Ala Phe Leu Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly
        675                 680                 685

Val Gln Glu Arg Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn
    690                 695                 700

Asp Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro
705                 710                 715                 720

Ala Glu Tyr Ser Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser
                725                 730                 735
```

```
His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His
            740                 745                 750


Thr Gln Tyr Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile
        755                 760                 765


Arg Val Ile Asn Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile
    770                 775                 780


Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser
785                 790                 795                 800


Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly
                805                 810                 815


Arg Ile Phe Gln Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln
            820                 825                 830


Arg Asn Lys Pro Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp
        835                 840                 845


Ile Lys Glu Asn Thr Gly Val
    850                 855
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<210> 3
<211> 855
<212> PRT
<213> Mus musculus

<400> 3

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Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Gly Ser Gln Asp Phe
1               5                   10                  15


Gly Ala Gly Leu Lys Tyr Asn Ser Arg Leu Glu Asn Met Asn Gly Phe
            20                  25                  30
```

```
Glu Glu Gly Val Glu Phe Leu Pro Ala Asn Asn Ala Lys Lys Val Glu
        35                  40                  45

Lys Arg Gly Pro Arg Arg Trp Val Val Leu Val Ala Val Leu Phe Ser
    50                  55                  60

Phe Leu Leu Leu Ser Leu Met Ala Gly Leu Leu Val Trp His Phe His
65                  70                  75                  80

Tyr Arg Asn Val Arg Val Gln Lys Val Phe Asn Gly His Leu Arg Ile
                85                  90                  95

Thr Asn Glu Ile Phe Leu Asp Ala Tyr Glu Asn Ser Thr Ser Thr Glu
            100                 105                 110

Phe Ile Ser Leu Ala Ser Gln Val Lys Glu Ala Leu Lys Leu Leu Tyr
        115                 120                 125

Asn Glu Val Pro Val Leu Gly Pro Tyr His Lys Lys Ser Ala Val Thr
    130                 135                 140

Ala Phe Ser Glu Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser
145                 150                 155                 160

Ile Pro Pro His Leu Ala Glu Glu Val Asp Arg Ala Met Ala Val Glu
                165                 170                 175

Arg Val Val Thr Leu Pro Pro Arg Ala Arg Ala Leu Lys Ser Phe Val
            180                 185                 190

Leu Thr Ser Val Val Ala Phe Pro Ile Asp Pro Arg Met Leu Gln Arg
        195                 200                 205

Thr Gln Asp Asn Ser Cys Ser Phe Ala Leu His Ala His Gly Ala Ala
    210                 215                 220
```

```
Val Thr Arg Phe Thr Thr Pro Gly Phe Pro Asn Ser Pro Tyr Pro Ala
225                 230                 235                 240


His Ala Arg Cys Gln Trp Val Leu Arg Gly Asp Ala Asp Ser Val Leu
                245                 250                 255


Ser Leu Thr Phe Arg Ser Phe Asp Val Ala Pro Cys Asp Glu His Gly
            260                 265                 270


Ser Asp Leu Val Thr Val Tyr Asp Ser Leu Ser Pro Met Glu Pro His
        275                 280                 285


Ala Val Val Arg Leu Cys Gly Thr Phe Ser Pro Ser Tyr Asn Leu Thr
    290                 295                 300


Phe Leu Ser Ser Gln Asn Val Phe Leu Val Thr Leu Ile Thr Asn Thr
305                 310                 315                 320


Asp Arg Arg His Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Lys
                325                 330                 335


Met Ser Ser Cys Gly Gly Phe Leu Ser Asp Thr Gln Gly Thr Phe Ser
            340                 345                 350


Ser Pro Tyr Tyr Pro Gly His Tyr Pro Pro Asn Ile Asn Cys Thr Trp
        355                 360                 365


Asn Ile Lys Val Pro Asn Asn Arg Asn Val Lys Val Arg Phe Lys Leu
    370                 375                 380


Phe Tyr Leu Val Asp Pro Asn Val Pro Val Gly Ser Cys Thr Lys Asp
385                 390                 395                 400


Tyr Val Glu Ile Asn Gly Glu Lys Tyr Cys Gly Glu Arg Ser Gln Phe
                405                 410                 415
```

```
Val Val Ser Ser Asn Ser Ser Lys Ile Thr Val His Phe His Ser Asp
            420                 425                 430

His Ser Tyr Thr Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp
        435                 440                 445

Ser Asn Asp Pro Cys Pro Gly Met Phe Met Cys Lys Thr Gly Arg Cys
    450                 455                 460

Ile Arg Lys Glu Leu Arg Cys Asp Gly Trp Ala Asp Cys Pro Asp Tyr
465                 470                 475                 480

Ser Asp Glu Arg Tyr Cys Arg Cys Asn Ala Thr His Gln Phe Thr Cys
                485                 490                 495

Lys Asn Gln Phe Cys Lys Pro Leu Phe Trp Val Cys Asp Ser Val Asn
            500                 505                 510

Asp Cys Gly Asp Gly Ser Asp Glu Glu Gly Cys Ser Cys Pro Ala Gly
        515                 520                 525

Ser Phe Lys Cys Ser Asn Gly Lys Cys Leu Pro Gln Ser Gln Lys Cys
    530                 535                 540

Asn Gly Lys Asp Asn Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Asp
545                 550                 555                 560

Ser Val Asn Val Val Ser Cys Thr Lys Tyr Thr Tyr Arg Cys Gln Asn
                565                 570                 575

Gly Leu Cys Leu Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Thr Asp
            580                 585                 590

Cys Ser Asp Gly Ser Asp Glu Lys Asn Cys Asp Cys Gly Leu Arg Ser
        595                 600                 605
```

```
Phe Thr Lys Gln Ala Arg Val Val Gly Gly Thr Asn Ala Asp Glu Gly
    610                 615                 620

Glu Trp Pro Trp Gln Val Ser Leu His Ala Leu Gly Gln Gly His Leu
625                 630                 635                 640

Cys Gly Ala Ser Leu Ile Ser Pro Asp Trp Leu Val Ser Ala Ala His
                645                 650                 655

Cys Phe Gln Asp Asp Lys Asn Phe Lys Tyr Ser Asp Tyr Thr Met Trp
            660                 665                 670

Thr Ala Phe Leu Gly Leu Leu Asp Gln Ser Lys Arg Ser Ala Ser Gly
        675                 680                 685

Val Gln Glu Leu Lys Leu Lys Arg Ile Ile Thr His Pro Ser Phe Asn
    690                 695                 700

Asp Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Ser
705                 710                 715                 720

Val Glu Tyr Ser Thr Val Val Arg Pro Ile Cys Leu Pro Asp Ala Thr
                725                 730                 735

His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His
            740                 745                 750

Thr Lys Glu Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile
        755                 760                 765

Arg Val Ile Asn Gln Thr Thr Cys Glu Asp Leu Met Pro Gln Gln Ile
    770                 775                 780

Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser
785                 790                 795                 800
```

```
Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser Ser Ala Glu Lys Asp Gly
                805                 810                 815


Arg Met Phe Gln Ala Gly Val Val Ser Trp Gly Glu Gly Cys Ala Gln
            820                 825                 830


Arg Asn Lys Pro Gly Val Tyr Thr Arg Leu Pro Val Val Arg Asp Trp
        835                 840                 845


Ile Lys Glu His Thr Gly Val
    850                 855
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<210> 4
<211> 855
<212> PRT
<213> Rattus norvegicus

<400> 4

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Met Gly Asn Asn Arg Gly Arg Lys Ala Gly Gly Gly Ser Gln Asp Phe
1               5                   10                  15


Gly Ala Gly Leu Lys Tyr Asn Ser Arg Leu Glu Asn Met Asn Gly Phe
            20                  25                  30


Glu Glu Gly Val Glu Phe Leu Pro Val Asn Asn Ala Lys Gln Val Glu
        35                  40                  45


Lys Arg Gly Pro Arg Arg Trp Val Val Met Val Ala Val Val Phe Ser
    50                  55                  60


Phe Leu Leu Leu Ser Leu Met Ala Gly Leu Leu Val Trp His Phe His
65                  70                  75                  80


Tyr Arg Asn Val Arg Ile Gln Lys Val Phe Asn Gly His Leu Arg Ile
                85                  90                  95


Thr Asn Glu Asn Phe Leu Asp Ala Tyr Glu Asn Ser Thr Ser Thr Glu
```

```
            100                 105                 110

Phe Ile Ser Leu Ala Ser Gln Val Lys Glu Ala Leu Lys Leu Met Tyr
        115                 120                 125

Ser Glu Val Pro Val Leu Gly Pro Tyr His Lys Lys Ser Thr Val Thr
    130                 135                 140

Ala Phe Ser Glu Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser
145                 150                 155                 160

Ile Pro Pro His Leu Glu Glu Glu Val Asp Arg Ala Met Ala Val Glu
                165                 170                 175

Arg Val Val Thr Leu Pro Pro Arg Ala Arg Ala Leu Lys Ser Phe Val
            180                 185                 190

Leu Thr Ser Val Val Ala Phe Pro Ile Asp Pro Arg Met Leu Gln Arg
        195                 200                 205

Thr Gln Asp Asn Ser Cys Ser Phe Ala Leu His Ala Arg Gly Arg Thr
    210                 215                 220

Val Thr Arg Phe Thr Thr Pro Gly Phe Pro Asn Ser Pro Tyr Pro Ala
225                 230                 235                 240

His Ala Arg Cys Gln Trp Val Leu Arg Gly Asp Ala Asp Ser Val Leu
                245                 250                 255

Ser Leu Thr Phe Arg Ser Phe Asp Val Ala Pro Cys Asp Gly His Asp
            260                 265                 270

Ser Asp Leu Val Thr Val Tyr Asp Ser Leu Ser Pro Met Glu Pro His
        275                 280                 285

Ala Val Val Arg Leu Cys Gly Thr Phe Ser Pro Ser Tyr Asn Leu Thr
```

```
    290                 295                 300

Phe Leu Ser Ser Gln Asn Val Phe Leu Val Thr Leu Ile Thr Asn Thr
305                 310                 315                 320

Asp Arg Arg His Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Lys
                325                 330                 335

Met Ser Ser Cys Gly Gly Leu Leu Ser Glu Ala Gln Gly Thr Phe Ser
            340                 345                 350

Ser Pro Tyr Tyr Pro Gly His Tyr Pro Pro Asn Ile Asn Cys Thr Trp
        355                 360                 365

Asn Ile Lys Val Pro Asn Asn Arg Asn Val Lys Val Arg Phe Lys Leu
    370                 375                 380

Phe Tyr Leu Val Asp Pro Asn Ile Pro Val Gly Ser Cys Thr Lys Asp
385                 390                 395                 400

Tyr Val Glu Ile Asn Gly Glu Lys Phe Cys Gly Glu Arg Ser Gln Phe
                405                 410                 415

Val Val Ser Ser Asn Ser Ser Lys Ile Thr Val His Phe His Ser Asp
            420                 425                 430

His Ser Tyr Thr Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp
        435                 440                 445

Ser Asn Asp Pro Cys Pro Gly Met Phe Met Cys Lys Thr Gly Arg Cys
    450                 455                 460

Ile Arg Lys Asp Leu Arg Cys Asp Gly Trp Ala Asp Cys Pro Asp Tyr
465                 470                 475                 480

Ser Asp Glu Arg His Cys Arg Cys Asn Ala Thr His Gln Phe Met Cys
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```
                485                 490                 495

Lys Asn Gln Phe Cys Lys Pro Leu Phe Trp Val Cys Asp Ser Val Asn
            500                 505                 510

Asp Cys Gly Asp Gly Ser Asp Glu Glu Gly Cys Ser Cys Pro Ala Gly
        515                 520                 525

Ser Phe Lys Cys Ser Asn Gly Lys Cys Leu Pro Gln Ser Gln Gln Cys
    530                 535                 540

Asn Gly Lys Asp Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Asp
545                 550                 555                 560

Asn Val Asn Ala Val Ser Cys Thr Lys Tyr Thr Tyr Arg Cys Gln Asn
                565                 570                 575

Gly Leu Cys Leu Asn Lys Gly Asn Pro Glu Cys Asp Gly Lys Lys Asp
            580                 585                 590

Cys Ser Asp Gly Ser Asp Glu Lys Asn Cys Asp Cys Gly Leu Arg Ser
        595                 600                 605

Phe Thr Lys Gln Ala Arg Val Val Gly Gly Thr Asn Ala Asp Glu Gly
    610                 615                 620

Glu Trp Pro Trp Gln Val Ser Leu His Ala Leu Gly Gln Gly His Leu
625                 630                 635                 640

Cys Gly Ala Ser Leu Ile Ser Pro Asp Trp Leu Val Ser Ala Ala His
                645                 650                 655

Cys Phe Gln Asp Glu Thr Ile Phe Lys Tyr Ser Asp His Thr Met Trp
            660                 665                 670

Thr Ala Phe Leu Gly Leu Leu Asp Gln Ser Lys Arg Ser Ala Ser Gly
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675 680 685

Val Gln Glu His Lys Leu Lys Arg Ile Ile Thr His Pro Ser Phe Asn
690 695 700

Asp Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro
705 710 715 720

Ala Glu Tyr Ser Thr Val Val Arg Pro Ile Cys Leu Pro Asp Asn Thr
725 730 735

His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His
740 745 750

Thr Lys Glu Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile
755 760 765

Arg Val Ile Asn Gln Thr Thr Cys Glu Glu Leu Leu Pro Gln Gln Ile
770 775 780

Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser
785 790 795 800

Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser Ser Val Glu Lys Asp Gly
805 810 815

Arg Ile Phe Gln Ala Gly Val Val Ser Trp Gly Glu Gly Cys Ala Gln
820 825 830

Arg Asn Lys Pro Gly Val Tyr Thr Arg Ile Pro Glu Val Arg Asp Trp
835 840 845

Ile Lys Glu Gln Thr Gly Val
850 855

<210> 5

<211> 855
<212> PRT
<213> Pan troglodytes

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<222> (561)..(561)
<223> Xaa can be any naturally occurring amino acid

<400> 5

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1               5                  10                  15


Gly Ala Gly Leu Lys Tyr Asn Ser Arg His Glu Lys Val Asn Gly Leu
            20                  25                  30


Glu Glu Gly Val Glu Phe Leu Pro Val Asn Asn Val Lys Lys Val Glu
        35                  40                  45


Lys His Gly Pro Gly Arg Trp Val Val Leu Ala Ala Val Leu Ile Gly
    50                  55                  60


Leu Leu Leu Val Leu Leu Gly Ile Gly Phe Leu Val Trp His Leu Gln
65                  70                  75                  80


Tyr Arg Asp Val Arg Val Gln Lys Val Phe Asn Gly Tyr Met Arg Ile
                85                  90                  95


Thr Asn Glu Asn Phe Val Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu
            100                 105                 110


Phe Val Ser Leu Ala Ser Lys Val Lys Asp Ala Leu Lys Leu Leu Tyr
        115                 120                 125


Ser Gly Val Pro Phe Leu Gly Pro Tyr His Lys Glu Ser Ala Val Thr
    130                 135                 140
```

```
Ala Phe Ser Glu Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser
145                 150                 155                 160


Ile Pro Gln His Leu Val Glu Glu Ala Glu Arg Val Met Ala Glu Glu
                165                 170                 175


Arg Val Val Met Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val
            180                 185                 190


Val Thr Ser Val Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg
        195                 200                 205


Thr Gln Asp Asn Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu
    210                 215                 220


Leu Met Arg Phe Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala
225                 230                 235                 240


His Ala Arg Cys Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val Leu
                245                 250                 255


Ser Leu Thr Phe Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu Arg Gly
            260                 265                 270


Ser Asp Leu Val Met Val Tyr Asn Thr Leu Ser Pro Met Glu Pro His
        275                 280                 285


Ala Leu Val Gln Leu Cys Gly Thr Tyr Pro Pro Ser Tyr Asn Leu Thr
    290                 295                 300


Phe His Ser Ser Gln Asn Val Leu Leu Val Thr Leu Ile Thr Asn Thr
305                 310                 315                 320


Arg Arg Arg His Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Arg
                325                 330                 335
```

```
Met Arg Ser Cys Gly Gly Arg Leu Arg Lys Ala Gln Gly Thr Phe Asn
            340                 345                 350

Ser Pro Tyr Tyr Pro Gly His Tyr Pro Pro Asn Ile Asp Cys Thr Trp
        355                 360                 365

Asn Ile Glu Val Pro Asn Asn Gln His Val Lys Val Arg Phe Lys Phe
    370                 375                 380

Phe Tyr Leu Leu Glu Pro Gly Val Pro Ala Gly Thr Cys Pro Lys Asp
385                 390                 395                 400

Tyr Val Glu Ile Asn Gly Glu Lys Tyr Cys Gly Glu Arg Ser Gln Phe
                405                 410                 415

Val Val Thr Ser Asn Ser Asn Lys Ile Thr Val Arg Phe His Ser Asp
            420                 425                 430

Gln Ser Tyr Thr Asp Thr Gly Phe Leu Ala Glu Tyr Val Ser Tyr Asp
        435                 440                 445

Ser Ser Asp Pro Cys Pro Gly Gln Phe Thr Cys Arg Thr Gly Arg Cys
    450                 455                 460

Ile Arg Lys Glu Leu Arg Cys Asp Gly Trp Ala Asp Cys Thr Asp His
465                 470                 475                 480

Ser Asp Glu Leu Asn Cys Ser Cys Asp Ala Ser His Gln Phe Thr Cys
                485                 490                 495

Lys Asn Lys Phe Cys Lys Pro Leu Phe Trp Val Cys Asp Ser Val Asn
            500                 505                 510

Asp Cys Gly Asp Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln
        515                 520                 525
```

```
Thr Phe Arg Cys Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys
    530                 535                 540

Asn Gly Lys Asp Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro
545                 550                 555                 560

Xaa Val Asn Val Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn
                565                 570                 575

Gly Leu Cys Leu Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp
            580                 585                 590

Cys Ser Asp Gly Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser
        595                 600                 605

Phe Thr Arg Gln Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly
    610                 615                 620

Glu Trp Pro Trp Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile
625                 630                 635                 640

Cys Gly Ala Ser Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His
                645                 650                 655

Cys Tyr Ile Asp Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp
            660                 665                 670

Thr Ala Phe Leu Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly
        675                 680                 685

Val Gln Glu Arg Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn
    690                 695                 700

Asp Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro
705                 710                 715                 720
```

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Ala Glu Tyr Ser Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser
                725                 730                 735

His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His
            740                 745                 750

Thr Gln Tyr Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile
        755                 760                 765

Arg Val Ile Asn Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile
    770                 775                 780

Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser
785                 790                 795                 800

Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly
                805                 810                 815

Arg Ile Phe Gln Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln
            820                 825                 830

Arg Asn Lys Pro Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp
        835                 840                 845

Ile Lys Glu Asn Thr Gly Val
    850                 855
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<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Matriptase/MT-SP1 - sense sequence of siRNA

<400> 6
gcaagaucac uguucgcuut t 21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Matriptase/MT-SP1 Antisense sequence of siRNA

<400> 7
aagcgaacag ugaucuugct g 21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> C1ra - Sense sequence of siRNA

<400> 8
gaugucuuuu cucaaaauat t 21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> C1ra - Antisense sequence of siRNA

<400> 9
uauuuugaga aaagacauca t 21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Gm5077 - sense sequence of siRNA

<400> 10
cgcugaacgu gugauuauut t 21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Gm5077 - Antisense sequence of siRNA

<400> 11
aauaaucaca cguucagcgg t 21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Plat - Sense sequence of siRNA

<400> 12
gaaacaagau gaagacagat t 21

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Plat - Antisense sequence of siRNA

<400> 13
ucugucuuca ucuuguuucc c 21

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Prss35 - Sense sequence of siRNA

<400> 14
ggccuuagac uacgacuaut t 21

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Prss35 - Antisense sequence of siRNA

<400> 15
auagucguag ucuaaggccg g 21

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Matriptase/MT-SP1 - Forward Primer Sequence

<400> 16
cgctgagtac ctgtcctacg a 21

<210> 17
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Matriptase/MT-SP1 - Reverse Primer Sequence

<400> 17
accgtccagt gttacacatg aac 23

<210> 18
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Matriptase/MT-SP1 Reporter 1 Sequence

<400> 18
ccaatgaccc atgccc 16

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> C1ra Forward Primer Sequence

<400> 19
acctgcaaac aaggctacca 20

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

<220>
<223> C1ra Reverse Primer Sequence

<400> 20
tggcaaacag ctgtgaagga 20

<210> 21
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> C1ra Reporter 1 Sequence

<400> 21
cagcacctgg tttcc 15

<210> 22
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Gm5077 Forward Primer Sequence

<400> 22
tgcgaggagc catattacta catg 24

<210> 23
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Gm5077 Reverse Primer Sequence

<400> 23
gcagcgcagc gatactc 17

<210> 24
<211> 16
<212> DNA
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<220>
<223> Gm5077 Reporter 1 Sequence

<400> 24
ccgccgtgtt cttcat 16

<210> 25
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Plat Forward Primer Sequence

<400> 25
agctgacatg ggaatactgt gatg 24

<210> 26
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Plat Reverse Primer Sequence

<400> 26
cctttaattc gaaactgtgg ctgtt 25

<210> 27
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Plat Reporter 1 Sequence

<400> 27
ccgtgctcca cctgc 15

<210> 28
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Prss35 Forward Primer Sequence

<400> 28
aggagagcac cacacaaaga c 21

<210> 29
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Prss35 Reverse Primer Sequence

<400> 29
acacgagtcc actggaagga 20

<210> 30
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Prss35 Reporter 1 Sequence

<400> 30
ccccggaccc ctcctg 16

<210> 31
<211> 345
<212> DNA
<213> Cricetulus griseus

<400> 31
tttttgccc agtcctggtt cttccaaact cacaggtgtc actgaacctc cggggctggg 60

aagctattgt cggggagcgt ctctgagtcc tgaaatatct ttctgtttag aacatgaatg 120

gctttgagga gggtgtggag tttctgcctg tgaataatgc caagaaagtg gagaagcgag 180

gcccccggcg ctgtgtggtg cttgtggtcc tgctggtcag tttcctcttt ctctcactcg 240

tggctggctt cctggtgtgg cacttcctct gtgagtacag tgggggctgt gggagggcga 300

cagaggggta gtgttctctc ttctctcaga ggacagacca aaggg 345

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward Primer Sequence

<400> 32
tttttgccc agtcctggtt 20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse Primer Sequence

<400> 33
ccctttggtc tgtcctctga 20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Cut. Primer

<400> 34
gtggagtttc tgcctgtgaa 20

<210> 35
<211> 160
<212> DNA
<213> Cricetulus griseus

<400> 35
aacatgaatg gctttgagga gggtgtggag tttctgcctg tgaataatgc caagaaagtg 60

gagaagcgag gcccccggcg ctgtgtggtg cttgtggtcc tgctggtcag tttcctcttt 120

ctctcactcg tggctggctt cctggtgtgg cacttcctct 160

<210> 36
<211> 156
<212> DNA
<213> Cricetulus griseus

<400> 36
aacatgaatg gctttgagga gggtgtggag ttcctgtgaa taatgccaag aaagtggaga 60

agcgaggccc ccggcgctgt gtggtgcttg tggtcctgct ggtcagtttc ctctttctct 120

cactcgtggc tggcttcctg gtgtggcact tcctct 156

<210> 37
<211> 156
<212> DNA
<213> Cricetulus griseus

<400> 37
aacatgaatg gctttgagga gggtgtggag tttctgtgaa taatgccaag aaagtggaga 60

agcgaggccc ccggcgctgt gtggtgcttg tggtcctgct ggtcagtttc ctctttctct 120

cactcgtggc tggcttcctg gtgtggcact tcctct 156

<210> 38
<211> 143

<212> DNA
<213> Cricetulus griseus

<400> 38
aacatgaatg gctttgagga gggtgaataa tgccaagaaa gtggagaagc gaggcccccg 60

gcgctgtgtg gtgcttgtgg tcctgctggt cagtttcctc tttctctcac tcgtggctgg 120

cttcctggtg tggcacttcc tct 143

<210> 39
<211> 17
<212> DNA
<213> Cricetulus griseus

<400> 39
tggagtttct gcctgtg 17

<210> 40
<211> 146
<212> DNA
<213> Cricetulus griseus

<400> 40
aacatgaatg gctttgagga gggtgtggaa taatgccaag aaagtggaga agcgaggccc 60

ccggcgctgt gtggtgcttg tggtcctgct ggtcagtttc ctctttctct cactcgtggc 120

tggcttcctg gtgtggcact tcctct 146

<210> 41
<211> 14
<212> DNA
<213> Cricetulus griseus

<400> 41
gtttctgcct gtga 14

<210> 42
<211> 156
<212> DNA
<213> Cricetulus griseus

<400> 42

aacatgaatg gctttgagga gggtgtggag tgcctgtgaa taatgccaag aaagtggaga 60

agcgaggccc ccggcgctgt gtggtgcttg tggtcctgct ggtcagtttc ctctttctct 120

cactcgtggc tggcttcctg gtgtggcact tcctct 156

<210> 43
<211> 149
<212> DNA
<213> Cricetulus griseus

<400> 43
aacatgaatg gctttgagga gggtgtggag taataatgcc aagaaagtgg agaagcgagg 60

cccccggcgc tgtgtggtgc ttgtggtcct gctggtcagt ttcctctttc tctcactcgt 120

ggctggcttc ctggtgtggc acttcctct 149

<210> 44
<211> 11
<212> DNA
<213> Cricetulus griseus

<400> 44
ttctgcctgt g 11

<210> 45
<211> 153
<212> DNA
<213> Cricetulus griseus

<400> 45
aacatgaatg gctttgagga gggtgtgggc ctgtgaataa tgccaagaaa gtggagaagc 60

gaggcccccg gcgctgtgtg gtgcttgtgg tcctgctggt cagtttcctc tttctctcac 120

tcgtggctgg cttcctggtg tggcacttcc tct 153

<210> 46
<211> 145
<212> DNA
<213> Cricetulus griseus

<400> 46

aacatgaatg gctttgagga gggtgtgaat aatgccaaga aagtggagaa gcgaggcccc 60

cggcgctgtg tggtgcttgt ggtcctgctg gtcagtttcc tctttctctc actcgtggct 120

ggcttcctgg tgtggcactt cctct 145

<210> 47
<211> 15
<212> DNA
<213> Cricetulus griseus

<400> 47
gagtttctgc ctgtg 15

<210> 48
<211> 124
<212> PRT
<213> Cricetulus griseus

<400> 48

Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Ser Ser Lys Asp Phe
1 5 10 15

Gly Ala Arg Leu Lys Tyr Ser Ser Gly Leu Glu Asn Met Asn Gly Phe
20 25 30

Glu Glu Gly Val Glu Phe Leu Pro Val Asn Asn Ala Lys Lys Val Glu
35 40 45

Lys Arg Gly Pro Arg Arg Cys Val Val Leu Val Val Leu Leu Val Ser
50 55 60

Phe Leu Phe Leu Ser Leu Val Ala Gly Phe Leu Val Trp His Phe Leu
65 70 75 80

Tyr Ser Asn Val Arg Ile Gln Lys Val Phe Asn Gly His Leu Arg Val
85 90 95

Thr Asn Glu Asn Phe Leu Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu

100 105 110

Phe Lys Asp Leu Ala Asn Gln Val Lys Glu Ala Leu
115 120

<210> 49
<211> 39
<212> PRT
<213> Cricetulus griseus

<400> 49

Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Ser Ser Lys Asp Phe
1 5 10 15

Gly Ala Arg Leu Lys Tyr Ser Ser Gly Leu Glu Asn Met Asn Gly Phe
20 25 30

Glu Glu Gly Val Glu Phe Leu
35

<210> 50
<211> 52
<212> PRT
<213> Cricetulus griseus

<400> 50

Ile Met Pro Arg Lys Trp Arg Ser Glu Ala Pro Gly Ala Val Trp Cys
1 5 10 15

Leu Trp Ser Cys Trp Ser Val Ser Ser Phe Ser His Ser Trp Leu Ala
20 25 30

Ser Trp Cys Gly Thr Ser Ser Thr Gln Met Phe Gly Ser Lys Arg Ser
35 40 45

Ser Met Val Ile
50

<210> 51
<211> 25
<212> PRT
<213> Cricetulus griseus

<400> 51

Gly Ser Gln Met Arg Thr Phe Trp Met Pro Met Arg Thr Gln Thr Pro
1 5 10 15

Gln Ser Ser Lys Thr Trp Pro Thr Arg
20 25

<210> 52
<211> 39
<212> PRT
<213> Cricetulus griseus

<400> 52

Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Ser Ser Lys Asp Phe
1 5 10 15

Gly Ala Arg Leu Lys Tyr Ser Ser Gly Leu Glu Asn Met Asn Gly Phe
20 25 30

Glu Glu Gly Val Glu Phe Leu
35

<210> 53
<211> 52
<212> PRT
<213> Cricetulus griseus

<400> 53

Ile Met Pro Arg Lys Trp Arg Ser Glu Ala Pro Gly Ala Val Trp Cys
1 5 10 15

Leu Trp Ser Cys Trp Ser Val Ser Ser Phe Ser His Ser Trp Leu Ala
20 25 30

Ser Trp Cys Gly Thr Ser Ser Thr Gln Met Phe Gly Ser Lys Arg Ser
35 40 45

Ser Met Val Ile
50

<210> 54
<211> 25
<212> PRT
<213> Cricetulus griseus

<400> 54

Gly Ser Gln Met Arg Thr Phe Trp Met Pro Met Arg Thr Gln Thr Pro
1 5 10 15

Gln Ser Ser Lys Thr Trp Pro Thr Arg
20 25

<210> 55
<211> 36
<212> PRT
<213> Cricetulus griseus

<400> 55

Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Ser Ser Lys Asp Phe
1 5 10 15

Gly Ala Arg Leu Lys Tyr Ser Ser Gly Leu Glu Asn Met Asn Gly Phe
20 25 30

Glu Glu Gly Glu
35

<210> 56
<211> 55
<212> PRT
<213> Cricetulus griseus

<400> 56

Cys Gln Glu Ser Gly Glu Ala Arg Pro Pro Ala Leu Cys Gly Ala Cys
1 5 10 15

Gly Pro Ala Gly Gln Phe Pro Leu Ser Leu Thr Arg Gly Trp Leu Pro
20 25 30

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

Trp Ser Ser Glu Gly His Lys
50 55

<210> 57
<211> 6
<212> PRT
<213> Cricetulus griseus

<400> 57

Glu Leu Ser Gly Cys Leu
1 5

<210> 58
<211> 23
<212> PRT
<213> Cricetulus griseus

<400> 58

Glu Leu Lys Leu His Arg Val Gln Arg Pro Gly Gln Pro Gly Glu Gly
1 5 10 15

Ser Ala Glu Ala Val Val Gln
20

<210> 59
<211> 37
<212> PRT

<213> Cricetulus griseus

<400> 59

Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Ser Ser Lys Asp Phe
1 5 10 15

Gly Ala Arg Leu Lys Tyr Ser Ser Gly Leu Glu Asn Met Asn Gly Phe
20 25 30

Glu Glu Gly Val Glu
35

<210> 60
<211> 55
<212> PRT
<213> Cricetulus griseus

<400> 60

Cys Gln Glu Ser Gly Glu Ala Arg Pro Pro Ala Leu Cys Gly Ala Cys
1 5 10 15

Gly Pro Ala Gly Gln Phe Pro Leu Ser Leu Thr Arg Gly Trp Leu Pro
20 25 30

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

Trp Ser Ser Glu Gly His Lys
50 55

<210> 61
<211> 6
<212> PRT
<213> Cricetulus griseus

<400> 61

Glu Leu Ser Gly Cys Leu
1 5

<210> 62
<211> 23
<212> PRT
<213> Cricetulus griseus

<400> 62

Glu Leu Lys Leu His Arg Val Gln Arg Pro Gly Gln Pro Gly Glu Gly
1 5 10 15

Ser Ala Glu Ala Val Val Gln
20

<210> 63
<211> 39
<212> PRT
<213> Cricetulus griseus

<400> 63

Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Ser Ser Lys Asp Phe
1 5 10 15

Gly Ala Arg Leu Lys Tyr Ser Ser Gly Leu Glu Asn Met Asn Gly Phe
20 25 30

Glu Glu Gly Val Glu Cys Leu
35

<210> 64
<211> 52
<212> PRT
<213> Cricetulus griseus

<400> 64

Ile Met Pro Arg Lys Trp Arg Ser Glu Ala Pro Gly Ala Val Trp Cys
1 5 10 15

Leu Trp Ser Cys Trp Ser Val Ser Ser Phe Ser His Ser Trp Leu Ala

20 25 30

Ser Trp Cys Gly Thr Ser Ser Thr Gln Met Phe Gly Ser Lys Arg Ser
35 40 45

Ser Met Val Ile
50

<210> 65
<211> 25
<212> PRT
<213> Cricetulus griseus

<400> 65

Gly Ser Gln Met Arg Thr Phe Trp Met Pro Met Arg Thr Gln Thr Pro
1 5 10 15

Gln Ser Ser Lys Thr Trp Pro Thr Arg
20 25

<210> 66
<211> 37
<212> PRT
<213> Cricetulus griseus

<400> 66

Met Gly Ser Asn Arg Gly Arg Lys Ala Gly Gly Ser Ser Lys Asp Phe
1 5 10 15

Gly Ala Arg Leu Lys Tyr Ser Ser Gly Leu Glu Asn Met Asn Gly Phe
20 25 30

Glu Glu Gly Val Glu
35

<210> 67
<211> 55
<212> PRT

<213> Cricetulus griseus

<400> 67

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Cys Gln Glu Ser Gly Glu Ala Arg Pro Pro Ala Leu Cys Gly Ala Cys
1               5                   10                  15


Gly Pro Ala Gly Gln Phe Pro Leu Ser Leu Thr Arg Gly Trp Leu Pro
            20                  25                  30


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


Trp Ser Ser Glu Gly His Lys
    50                  55
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<210> 68
<211> 6
<212> PRT
<213> Cricetulus griseus

<400> 68

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Glu Leu Ser Gly Cys Leu
1               5
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<210> 69
<211> 23
<212> PRT
<213> Cricetulus griseus

<400> 69

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Glu Leu Lys Leu His Arg Val Gln Arg Pro Gly Gln Pro Gly Glu Gly
1               5                   10                  15


Ser Ala Glu Ala Val Val Gln
            20
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