Squence listing

<110> MEDIPOST CO., LTD.

<120> TSP-1, TSP-2, IL-17BR and HB-EGF associated with stem cell activity and use thereof

<130> PX034949US

<150> KR10-2010-0045128
<151> 2010-05-13

<150> US61/182,484
<151> 2009-05-29

<160> 10

<170> KopatentIn 1.71

<210> 1
<211> 1172
<212> PRT
<213> Homo sapiens

<400> 1

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Met Val Trp Arg Leu Val Leu Leu Ala Leu Trp Val Trp Pro Ser Thr
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Gln Ala Gly His Gln Asp Lys Asp Thr Thr Phe Asp Leu Phe Ser Ile
             20                  25                  30

Ser Asn Ile Asn Arg Lys Thr Ile Gly Ala Lys Gln Phe Arg Gly Pro
         35                  40                  45

Asp Pro Gly Val Pro Ala Tyr Arg Phe Val Arg Phe Asp Tyr Ile Pro
     50                  55                  60

Pro Val Asn Ala Asp Asp Leu Ser Lys Ile Thr Lys Ile Met Arg Gln
 65                  70                  75                  80

Lys Glu Gly Phe Phe Leu Thr Ala Gln Leu Lys Gln Asp Gly Lys Ser
                 85                  90                  95

Arg Gly Thr Leu Leu Ala Leu Glu Gly Pro Gly Leu Ser Gln Arg Gln
            100                 105                 110

Phe Glu Ile Val Ser Asn Gly Pro Ala Asp Thr Leu Asp Leu Thr Tyr
        115                 120                 125

Trp Ile Asp Gly Thr Arg His Val Val Ser Leu Glu Asp Val Gly Leu
    130                 135                 140

Ala Asp Ser Gln Trp Lys Asn Val Thr Val Gln Val Ala Gly Glu Thr
145                 150                 155                 160

Tyr Ser Leu His Val Gly Cys Asp Leu Ile Asp Ser Phe Ala Leu Asp
                165                 170                 175

Glu Pro Phe Tyr Glu His Leu Gln Ala Glu Lys Ser Arg Met Tyr Val
            180                 185                 190

Ala Lys Gly Ser Ala Arg Glu Ser His Phe Arg Gly Leu Leu Gln Asn
        195                 200                 205

Val His Leu Val Phe Glu Asn Ser Val Glu Asp Ile Leu Ser Lys Lys
    210                 215                 220

Gly Cys Gln Gln Gly Gln Gly Ala Glu Ile Asn Ala Ile Ser Glu Asn
225                 230                 235                 240
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Thr Glu Thr Leu Arg Leu Gly Pro His Val Thr Thr Glu Tyr Val Gly
                245                 250                 255

Pro Ser Ser Glu Arg Arg Pro Glu Val Cys Glu Arg Ser Cys Glu Glu
            260                 265                 270

Leu Gly Asn Met Val Gln Glu Leu Ser Gly Leu His Val Leu Val Asn
        275                 280                 285

Gln Leu Ser Glu Asn Leu Lys Arg Val Ser Asn Asp Asn Gln Phe Leu
    290                 295                 300

Trp Glu Leu Ile Gly Gly Pro Pro Lys Thr Arg Asn Met Ser Ala Cys
305                 310                 315                 320

Trp Gln Asp Gly Arg Phe Phe Ala Glu Asn Glu Thr Trp Val Val Asp
                325                 330                 335

Ser Cys Thr Thr Cys Thr Cys Lys Lys Phe Lys Thr Ile Cys His Gln
            340                 345                 350

Ile Thr Cys Pro Pro Ala Thr Cys Ala Ser Pro Ser Phe Val Glu Gly
        355                 360                 365

Glu Cys Cys Pro Ser Cys Leu His Ser Val Asp Gly Glu Glu Gly Trp
    370                 375                 380

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

Thr Gln Gln Arg Gly Arg Ser Cys Asp Val Thr Ser Asn Thr Cys Leu
                405                 410                 415

Gly Pro Ser Ile Gln Thr Arg Ala Cys Ser Leu Ser Lys Cys Asp Thr
            420                 425                 430

Arg Ile Arg Gln Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser
        435                 440                 445

Cys Ser Val Thr Cys Gly Val Gly Asn Ile Thr Arg Ile Arg Leu Cys
    450                 455                 460

Asn Ser Pro Val Pro Gln Met Gly Gly Lys Asn Cys Lys Gly Ser Gly
465                 470                 475                 480

Arg Glu Thr Lys Ala Cys Gln Gly Ala Pro Cys Pro Ile Asp Gly Arg
                485                 490                 495

Trp Ser Pro Trp Ser Pro Trp Ser Ala Cys Thr Val Thr Cys Ala Gly
            500                 505                 510

Gly Ile Arg Glu Arg Thr Arg Val Cys Asn Ser Pro Glu Pro Gln Tyr
        515                 520                 525

Gly Gly Lys Ala Cys Val Gly Asp Val Gln Glu Arg Gln Met Cys Asn
    530                 535                 540

Lys Arg Ser Cys Pro Val Asp Gly Cys Leu Ser Asn Pro Cys Phe Pro
545                 550                 555                 560

Gly Ala Gln Cys Ser Ser Phe Pro Asp Gly Ser Trp Ser Cys Gly Ser
                565                 570                 575

Cys Pro Val Gly Phe Leu Gly Asn Gly Thr His Cys Glu Asp Leu Asp
            580                 585                 590

Glu Cys Ala Leu Val Pro Asp Ile Cys Phe Ser Thr Ser Lys Val Pro
        595                 600                 605
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Arg Cys Val Asn Thr Gln Pro Gly Phe His Cys Leu Pro Cys Pro Pro
    610                 615                 620

Arg Tyr Arg Gly Asn Gln Pro Val Gly Val Gly Leu Glu Ala Ala Lys
625                 630                 635                 640

Thr Glu Lys Gln Val Cys Glu Pro Glu Asn Pro Cys Lys Asp Lys Thr
                645                 650                 655

His Asn Cys His Lys His Ala Glu Cys Ile Tyr Leu Gly His Phe Ser
            660                 665                 670

Asp Pro Met Tyr Lys Cys Glu Cys Gln Thr Gly Tyr Ala Gly Asp Gly
        675                 680                 685

Leu Ile Cys Gly Glu Asp Ser Asp Leu Asp Gly Trp Pro Asn Leu Asn
    690                 695                 700

Leu Val Cys Ala Thr Asn Ala Thr Tyr His Cys Ile Lys Asp Asn Cys
705                 710                 715                 720

Pro His Leu Pro Asn Ser Gly Gln Glu Asp Phe Asp Lys Asp Gly Ile
                725                 730                 735

Gly Asp Ala Cys Asp Asp Asp Asp Asp Asn Asp Gly Val Thr Asp Glu
            740                 745                 750

Lys Asp Asn Cys Gln Leu Leu Phe Asn Pro Arg Gln Ala Asp Tyr Asp
        755                 760                 765

Lys Asp Glu Val Gly Asp Arg Cys Asp Asn Cys Pro Tyr Val His Asn
    770                 775                 780

Pro Ala Gln Ile Asp Thr Asp Asn Asn Gly Glu Gly Asp Ala Cys Ser
785                 790                 795                 800

Val Asp Ile Asp Gly Asp Asp Val Phe Asn Glu Arg Asp Asn Cys Pro
                805                 810                 815

Tyr Val Tyr Asn Thr Asp Gln Arg Asp Thr Asp Gly Asp Gly Val Gly
            820                 825                 830

Asp His Cys Asp Asn Cys Pro Leu Val His Asn Pro Asp Gln Thr Asp
        835                 840                 845

Val Asp Asn Asp Leu Val Gly Asp Gln Cys Asp Asn Asn Glu Asp Ile
    850                 855                 860

Asp Asp Asp Gly His Gln Asn Asn Gln Asp Asn Cys Pro Tyr Ile Ser
865                 870                 875                 880

Asn Ala Asn Gln Ala Asp His Asp Arg Asp Gly Gln Gly Asp Ala Cys
                885                 890                 895

Asp Pro Asp Asp Asp Asn Asp Gly Val Pro Asp Asp Arg Asp Asn Cys
            900                 905                 910

Arg Leu Val Phe Asn Pro Asp Gln Glu Asp Leu Asp Gly Asp Gly Arg
        915                 920                 925

Gly Asp Ile Cys Lys Asp Asp Phe Asp Asn Asp Asn Ile Pro Asp Ile
    930                 935                 940

Asp Asp Val Cys Pro Glu Asn Asn Ala Ile Ser Glu Thr Asp Phe Arg
945                 950                 955                 960

Asn Phe Gln Met Val Pro Leu Asp Pro Lys Gly Thr Thr Gln Ile Asp
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               965                 970                 975

Pro Asn Trp Val Ile Arg His Gln Gly Lys Glu Leu Val Gln Thr Ala
            980                 985                 990

Asn Ser Asp Pro Gly Ile Ala Val Gly Phe Asp Glu Phe Gly Ser Val
        995                1000                1005

Asp Phe Ser Gly Thr Phe Tyr Val Asn Thr Asp Arg Asp Asp Asp Tyr
   1010                1015                1020

Ala Gly Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val
1025               1030                1035                1040

Met Trp Lys Gln Val Thr Gln Thr Tyr Trp Glu Asp Gln Pro Thr Arg
               1045                1050                1055

Ala Tyr Gly Tyr Ser Gly Val Ser Leu Lys Val Val Asn Ser Thr Thr
           1060                1065                1070

Gly Thr Gly Glu His Leu Arg Asn Ala Leu Trp His Thr Gly Asn Thr
       1075                1080                1085

Pro Gly Gln Val Arg Thr Leu Trp His Asp Pro Arg Asn Ile Gly Trp
   1090                1095                1100

Lys Asp Tyr Thr Ala Tyr Arg Trp His Leu Thr His Arg Pro Lys Thr
1105               1110                1115                1120

Gly Tyr Ile Arg Val Leu Val His Glu Gly Lys Gln Val Met Ala Asp
               1125                1130                1135

Ser Gly Pro Ile Tyr Asp Gln Thr Tyr Ala Gly Gly Arg Leu Gly Leu
           1140                1145                1150

Phe Val Phe Ser Gln Glu Met Val Tyr Phe Ser Asp Leu Lys Tyr Glu
       1155                1160                1165

Cys Arg Asp Ile
   1170


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<211>    1172
<212>    PRT
<213>    Mus musculus

<400>    2
Met Leu Trp Ala Leu Ala Leu Leu Ala Leu Gly Ile Gly Pro Arg Ala
  1               5                  10                  15

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

Ser Asn Ile Asn Arg Lys Thr Ile Gly Ala Lys Gln Phe Arg Gly Pro
         35                  40                  45

Asp Pro Gly Val Pro Ala Tyr Arg Phe Val Arg Phe Asp Tyr Ile Pro
     50                  55                  60

Pro Val Asn Thr Asp Asp Leu Asn Arg Ile Val Lys Leu Ala Arg Arg
 65                  70                  75                  80

Lys Glu Gly Phe Phe Leu Thr Ala Gln Leu Lys Gln Asp Arg Lys Ser
                 85                  90                  95

Arg Gly Thr Leu Leu Val Leu Glu Gly Pro Gly Thr Ser Gln Arg Gln
            100                 105                 110
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```
Phe Glu Ile Val Ser Asn Gly Pro Gly Asp Thr Leu Asp Leu Asn Tyr
        115                 120                 125

Trp Val Glu Gly Asn Gln His Thr Asn Phe Leu Glu Asp Val Gly Leu
    130                 135                 140

Ala Asp Ser Gln Trp Lys Asn Val Thr Val Gln Val Ala Ser Asp Thr
145                 150                 155                 160

Tyr Ser Leu Tyr Val Gly Cys Asp Leu Ile Asp Ser Val Thr Leu Glu
                165                 170                 175

Glu Pro Phe Tyr Glu Gln Leu Glu Val Asp Arg Ser Arg Met Tyr Val
            180                 185                 190

Ala Lys Gly Ala Ser Arg Glu Ser His Phe Arg Gly Leu Leu Gln Asn
        195                 200                 205

Val His Leu Val Phe Ala Asp Ser Val Glu Asp Ile Leu Ser Lys Lys
    210                 215                 220

Gly Cys Gln His Ser Gln Gly Ala Glu Val Asn Thr Ile Ser Glu His
225                 230                 235                 240

Thr Glu Thr Leu His Leu Ser Pro His Ile Thr Thr Asp Leu Val Val
                245                 250                 255

Gln Gly Val Glu Lys Ala Gln Glu Val Cys Thr His Ser Cys Glu Glu
            260                 265                 270

Leu Ser Asn Met Met Asn Glu Leu Ser Gly Leu His Val Met Val Asn
        275                 280                 285

Gln Leu Ser Lys Asn Leu Glu Arg Val Ser Ser Asp Asn Gln Phe Leu
    290                 295                 300

Leu Glu Leu Ile Gly Gly Pro Leu Lys Thr Arg Asn Met Ser Ala Cys
305                 310                 315                 320

Val Gln Glu Gly Arg Ile Phe Ala Glu Asn Glu Thr Trp Val Val Asp
                325                 330                 335

Ser Cys Thr Thr Cys Thr Cys Lys Lys Phe Lys Thr Val Cys His Gln
            340                 345                 350

Ile Thr Cys Ser Pro Ala Thr Cys Ala Asn Pro Ser Phe Val Glu Gly
        355                 360                 365

Glu Cys Cys Pro Ser Cys Ser His Ser Ala Asp Ser Asp Glu Gly Trp
    370                 375                 380

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

Thr Gln Gln Arg Gly Arg Ser Cys Asp Val Thr Ser Asn Thr Cys Leu
                405                 410                 415

Gly Pro Ser Ile Gln Thr Arg Thr Cys Ser Leu Gly Lys Cys Asp Thr
            420                 425                 430

Arg Ile Arg Gln Asn Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser
        435                 440                 445

Cys Ser Val Thr Cys Gly Val Gly Asn Val Thr Arg Ile Arg Leu Cys
    450                 455                 460

Asn Ser Pro Val Pro Gln Met Gly Gly Lys Asn Cys Lys Gly Ser Gly
```

```
465                 470                 475                 480

Arg Glu Thr Lys Pro Cys Gln Arg Asp Pro Cys Pro Ile Asp Gly Arg
                485                 490                 495

Trp Ser Pro Trp Ser Pro Trp Ser Ala Cys Thr Val Thr Cys Ala Gly
            500                 505                 510

Gly Ile Arg Glu Arg Ser Arg Val Cys Asn Ser Pro Glu Pro Gln Tyr
        515                 520                 525

Gly Gly Lys Asp Cys Val Gly Asp Val Thr Glu His Gln Met Cys Asn
    530                 535                 540

Lys Arg Ser Cys Pro Ile Asp Gly Cys Leu Ser Asn Pro Cys Phe Pro
545                 550                 555                 560

Gly Ala Lys Cys Asn Ser Phe Pro Asp Gly Ser Trp Ser Cys Gly Ser
                565                 570                 575

Cys Pro Val Gly Phe Leu Gly Asn Gly Thr His Cys Glu Asp Leu Asp
            580                 585                 590

Glu Cys Ala Val Val Thr Asp Ile Cys Phe Ser Thr Asn Lys Ala Pro
        595                 600                 605

Arg Cys Val Asn Thr Asn Pro Gly Phe His Cys Leu Pro Cys Pro Pro
    610                 615                 620

Arg Tyr Lys Gly Asn Gln Pro Phe Gly Val Gly Leu Glu Asp Ala Arg
625                 630                 635                 640

Thr Glu Lys Gln Val Cys Glu Pro Glu Asn Pro Cys Lys Asp Lys Thr
                645                 650                 655

His Ser Cys His Lys Asn Ala Glu Cys Ile Tyr Leu Gly His Phe Ser
            660                 665                 670

Asp Pro Met Tyr Lys Cys Glu Cys Gln Ile Gly Tyr Ala Gly Asp Gly
        675                 680                 685

Leu Ile Cys Gly Glu Asp Ser Asp Leu Asp Gly Trp Pro Asn Asn Asn
    690                 695                 700

Leu Val Cys Ala Thr Asn Ala Thr Tyr His Cys Ile Lys Asp Asn Cys
705                 710                 715                 720

Pro Lys Leu Pro Asn Ser Gly Gln Glu Asp Phe Asp Lys Asp Gly Ile
                725                 730                 735

Gly Asp Ala Cys Asp Glu Asp Asp Asp Asn Asp Gly Val Ser Asp Glu
            740                 745                 750

Lys Asp Asn Cys Gln Leu Leu Phe Asn Pro Arg Gln Leu Asp Tyr Asp
        755                 760                 765

Lys Asp Glu Val Gly Asp Arg Cys Asp Asn Cys Pro Tyr Val His Asn
    770                 775                 780

Pro Ala Gln Ile Asp Thr Asp Asn Asn Gly Glu Gly Asp Ala Cys Ser
785                 790                 795                 800

Val Asp Ile Asp Gly Asp Asp Val Phe Asn Glu Arg Asp Asn Cys Pro
                805                 810                 815

Tyr Val Tyr Asn Thr Asp Gln Arg Asp Thr Asp Gly Asp Gly Val Gly
            820                 825                 830
```

```
Asp His Cys Asp Asn Cys Pro Leu Met His Asn Pro Asp Gln Ile Asp
        835                 840                 845

Gln Asp Asn Asp Leu Val Gly Asp Gln Cys Asp Asn Asn Glu Asp Ile
    850                 855                 860

Asp Asp Asp Gly His Gln Asn Asn Gln Asp Asn Cys Pro Tyr Ile Ser
865                 870                 875                 880

Asn Ser Asn Gln Ala Asp His Asp Asn Asp Gly Lys Gly Asp Ala Cys
                885                 890                 895

Asp Ser Asp Asp Asp Asn Asp Gly Val Pro Asp Asp Arg Asp Asn Cys
            900                 905                 910

Arg Leu Val Phe Asn Pro Asp Gln Glu Asp Ser Asp Gly Asp Gly Arg
        915                 920                 925

Gly Asp Ile Cys Lys Asp Asp Phe Asp Asn Asp Asn Val Pro Asp Ile
    930                 935                 940

Asp Asp Val Cys Pro Glu Asn Asn Ala Ile Thr Glu Thr Asp Phe Arg
945                 950                 955                 960

Asn Phe Gln Met Val Pro Leu Asp Pro Lys Gly Thr Thr Gln Ile Asp
                965                 970                 975

Pro Asn Trp Val Ile Arg His Gln Gly Lys Glu Leu Val Gln Thr Ala
            980                 985                 990

Asn Ser Asp Pro Gly Ile Ala Val Gly Phe Asp Glu Phe Gly Ser Val
        995                1000                1005

Asp Phe Ser Gly Thr Phe Tyr Val Asn Thr Asp Arg Asp Asp Asp Tyr
   1010                1015                1020

Ala Gly Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val
1025                1030                1035                1040

Met Trp Lys Gln Val Thr Gln Thr Tyr Trp Glu Asp Lys Pro Ser Arg
                1045                1050                1055

Ala Tyr Gly Tyr Ser Gly Val Ser Leu Lys Val Val Asn Ser Thr Thr
           1060                1065                1070

Gly Thr Gly Glu His Leu Arg Asn Ala Leu Trp His Thr Gly Asn Thr
       1075                1080                1085

Glu Gly Gln Val Arg Thr Leu Trp His Asp Pro Lys Asn Ile Gly Trp
   1090                1095                1100

Lys Asp Tyr Thr Ala Tyr Arg Trp His Leu Ile His Arg Pro Lys Thr
1105                1110                1115                1120

Gly Tyr Met Arg Val Leu Val His Glu Gly Lys Gln Val Met Ala Asp
                1125                1130                1135

Ser Gly Pro Ile Tyr Asp Gln Thr Tyr Ala Gly Gly Arg Leu Gly Leu
           1140                1145                1150

Phe Val Phe Ser Gln Glu Met Val Tyr Phe Ser Asp Leu Lys Tyr Glu
       1155                1160                1165

Cys Arg Asp Ala
   1170
```

<210> 3

<211> 1170
<212> PRT
<213> Homo sapiens

<400> 3

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Met Gly Leu Ala Trp Gly Leu Gly Val Leu Phe Leu Met His Val Cys
  1               5                  10                  15

Gly Thr Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe Asp
             20                  25                  30

Ile Phe Glu Leu Thr Gly Ala Ala Arg Lys Gly Ser Gly Arg Arg Leu
         35                  40                  45

Val Lys Gly Pro Asp Pro Ser Ser Pro Ala Phe Arg Ile Glu Asp Ala
     50                  55                  60

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

Ala Val Arg Ala Glu Lys Gly Phe Leu Leu Leu Ala Ser Leu Arg Gln
                 85                  90                  95

Met Lys Lys Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His
            100                 105                 110

Ser Gly Gln Val Phe Ser Val Val Ser Asn Gly Lys Ala Gly Thr Leu
        115                 120                 125

Asp Leu Ser Leu Thr Val Gln Gly Lys Gln His Val Val Ser Val Glu
    130                 135                 140

Glu Ala Leu Leu Ala Thr Gly Gln Trp Lys Ser Ile Thr Leu Phe Val
145                 150                 155                 160

Gln Glu Asp Arg Ala Gln Leu Tyr Ile Asp Cys Glu Lys Met Glu Asn
                165                 170                 175

Ala Glu Leu Asp Val Pro Ile Gln Ser Val Phe Thr Arg Asp Leu Ala
            180                 185                 190

Ser Ile Ala Arg Leu Arg Ile Ala Lys Gly Gly Val Asn Asp Asn Phe
        195                 200                 205

Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe Gly Thr Thr Pro Glu
    210                 215                 220

Asp Ile Leu Arg Asn Lys Gly Cys Ser Ser Ser Thr Ser Val Leu Leu
225                 230                 235                 240

Thr Leu Asp Asn Asn Val Val Asn Gly Ser Ser Pro Ala Ile Arg Thr
                245                 250                 255

Asn Tyr Ile Gly His Lys Thr Lys Asp Leu Gln Ala Ile Cys Gly Ile
            260                 265                 270

Ser Cys Asp Glu Leu Ser Ser Met Val Leu Glu Leu Arg Gly Leu Arg
        275                 280                 285

Thr Ile Val Thr Thr Leu Gln Asp Ser Ile Arg Lys Val Thr Glu Glu
    290                 295                 300

Asn Lys Glu Leu Ala Asn Glu Leu Arg Arg Pro Pro Leu Cys Tyr His
305                 310                 315                 320

Asn Gly Val Gln Tyr Arg Asn Asn Glu Glu Trp Thr Val Asp Ser Cys
                325                 330                 335
```

```
Thr Glu Cys His Cys Gln Asn Ser Val Thr Ile Cys Lys Lys Val Ser
            340                 345                 350

Cys Pro Ile Met Pro Cys Ser Asn Ala Thr Val Pro Asp Gly Glu Cys
        355                 360                 365

Cys Pro Arg Cys Trp Pro Ser Asp Ser Ala Asp Asp Gly Trp Ser Pro
    370                 375                 380

Trp Ser Glu Trp Thr Ser Cys Ser Thr Ser Cys Gly Asn Gly Ile Gln
385                 390                 395                 400

Gln Arg Gly Arg Ser Cys Asp Ser Leu Asn Asn Arg Cys Glu Gly Ser
                405                 410                 415

Ser Val Gln Thr Arg Thr Cys His Ile Gln Glu Cys Asp Lys Arg Phe
            420                 425                 430

Lys Gln Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser Cys Ser
        435                 440                 445

Val Thr Cys Gly Asp Gly Val Ile Thr Arg Ile Arg Leu Cys Asn Ser
    450                 455                 460

Pro Ser Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg Glu
465                 470                 475                 480

Thr Lys Ala Cys Lys Lys Asp Ala Cys Pro Ile Asn Gly Gly Trp Gly
                485                 490                 495

Pro Trp Ser Pro Trp Asp Ile Cys Ser Val Thr Cys Gly Gly Gly Val
            500                 505                 510

Gln Lys Arg Ser Arg Leu Cys Asn Asn Pro Thr Pro Gln Phe Gly Gly
        515                 520                 525

Lys Asp Cys Val Gly Asp Val Thr Glu Asn Gln Ile Cys Asn Lys Gln
    530                 535                 540

Asp Cys Pro Ile Asp Gly Cys Leu Ser Asn Pro Cys Phe Ala Gly Val
545                 550                 555                 560

Lys Cys Thr Ser Tyr Pro Asp Gly Ser Trp Lys Cys Gly Ala Cys Pro
                565                 570                 575

Pro Gly Tyr Ser Gly Asn Gly Ile Gln Cys Thr Asp Val Asp Glu Cys
            580                 585                 590

Lys Glu Val Pro Asp Ala Cys Phe Asn His Asn Gly Glu His Arg Cys
        595                 600                 605

Glu Asn Thr Asp Pro Gly Tyr Asn Cys Leu Pro Cys Pro Pro Arg Phe
    610                 615                 620

Thr Gly Ser Gln Pro Phe Gly Gln Gly Val Glu His Ala Thr Ala Asn
625                 630                 635                 640

Lys Gln Val Cys Lys Pro Arg Asn Pro Cys Thr Asp Gly Thr His Asp
                645                 650                 655

Cys Asn Lys Asn Ala Lys Cys Asn Tyr Leu Gly His Tyr Ser Asp Pro
            660                 665                 670

Met Tyr Arg Cys Glu Cys Lys Pro Gly Tyr Ala Gly Asn Gly Ile Ile
        675                 680                 685

Cys Gly Glu Asp Thr Asp Leu Asp Gly Trp Pro Asn Glu Asn Leu Val
    690                 695                 700
```

```
Cys Val Ala Asn Ala Thr Tyr His Cys Lys Lys Asp Asn Cys Pro Asn
705                 710                 715                 720

Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys Asp Gly Ile Gly Asp
                725                 730                 735

Ala Cys Asp Asp Asp Asp Asp Asn Asp Lys Ile Pro Asp Asp Arg Asp
            740                 745                 750

Asn Cys Pro Phe His Tyr Asn Pro Ala Gln Tyr Asp Tyr Asp Arg Asp
        755                 760                 765

Asp Val Gly Asp Arg Cys Asp Asn Cys Pro Tyr Asn His Asn Pro Asp
    770                 775                 780

Gln Ala Asp Thr Asp Asn Asn Gly Glu Gly Asp Ala Cys Ala Ala Asp
785                 790                 795                 800

Ile Asp Gly Asp Gly Ile Leu Asn Glu Arg Asp Asn Cys Gln Tyr Val
                805                 810                 815

Tyr Asn Val Asp Gln Arg Asp Thr Asp Met Asp Gly Val Gly Asp Gln
            820                 825                 830

Cys Asp Asn Cys Pro Leu Glu His Asn Pro Asp Gln Leu Asp Ser Asp
        835                 840                 845

Ser Asp Arg Ile Gly Asp Thr Cys Asp Asn Asn Gln Asp Ile Asp Glu
    850                 855                 860

Asp Gly His Gln Asn Asn Leu Asp Asn Cys Pro Tyr Val Pro Asn Ala
865                 870                 875                 880

Asn Gln Ala Asp His Asp Lys Asp Gly Lys Gly Asp Ala Cys Asp His
                885                 890                 895

Asp Asp Asp Asn Asp Gly Ile Pro Asp Asp Lys Asp Asn Cys Arg Leu
            900                 905                 910

Val Pro Asn Pro Asp Gln Lys Asp Ser Asp Gly Asp Gly Arg Gly Asp
        915                 920                 925

Ala Cys Lys Asp Asp Phe Asp His Asp Ser Val Pro Asp Ile Asp Asp
    930                 935                 940

Ile Cys Pro Glu Asn Val Asp Ile Ser Glu Thr Asp Phe Arg Arg Phe
945                 950                 955                 960

Gln Met Ile Pro Leu Asp Pro Lys Gly Thr Ser Gln Asn Asp Pro Asn
                965                 970                 975

Trp Val Val Arg His Gln Gly Lys Glu Leu Val Gln Thr Val Asn Cys
            980                 985                 990

Asp Pro Gly Leu Ala Val Gly Tyr Asp Glu Phe Asn Ala Val Asp Phe
        995                1000                1005

Ser Gly Thr Phe Phe Ile Asn Thr Glu Arg Asp Asp Asp Tyr Ala Gly
   1010                1015                1020

Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val Met Trp
1025                1030                1035                1040

Lys Gln Val Thr Gln Ser Tyr Trp Asp Thr Asn Pro Thr Arg Ala Gln
                1045                1050                1055

Gly Tyr Ser Gly Leu Ser Val Lys Val Val Asn Ser Thr Thr Gly Pro
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1060 1065 1070

Gly Glu His Leu Arg Asn Ala Leu Trp His Thr Gly Asn Thr Pro Gly
1075 1080 1085

Gln Val Arg Thr Leu Trp His Asp Pro Arg His Ile Gly Trp Lys Asp
1090 1095 1100

Phe Thr Ala Tyr Arg Trp Arg Leu Ser His Arg Pro Lys Thr Gly Phe
1105 1110 1115 1120

Ile Arg Val Val Met Tyr Glu Gly Lys Lys Ile Met Ala Asp Ser Gly
1125 1130 1135

Pro Ile Tyr Asp Lys Thr Tyr Ala Gly Gly Arg Leu Gly Leu Phe Val
1140 1145 1150

Phe Ser Gln Glu Met Val Phe Phe Ser Asp Leu Lys Tyr Glu Cys Arg
1155 1160 1165

Asp Pro
1170

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<211> 1171
<212> PRT
<213> Mus musculus

<400> 4
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1 5 10 15

Gly Ser Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Gly Val Phe Asp
20 25 30

Ile Phe Glu Leu Ile Gly Gly Ala Arg Arg Gly Pro Gly Arg Arg Leu
35 40 45

Val Lys Gly Gln Asp Leu Ser Ser Pro Ala Phe Arg Ile Glu Asn Ala
50 55 60

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

Ala Val Trp Ala Asp Lys Gly Phe Ile Phe Leu Ala Ser Leu Arg Gln
85 90 95

Met Lys Lys Thr Arg Gly Thr Leu Leu Ala Val Glu Arg Lys Asp Asn
100 105 110

Thr Gly Gln Ile Phe Ser Val Val Ser Asn Gly Lys Ala Gly Thr Leu
115 120 125

Asp Leu Ser Leu Ser Leu Pro Gly Lys Gln Gln Val Val Ser Val Glu
130 135 140

Glu Ala Leu Leu Ala Thr Gly Gln Trp Lys Ser Ile Thr Leu Phe Val
145 150 155 160

Gln Glu Asp Arg Ala Gln Leu Tyr Ile Asp Cys Asp Lys Met Glu Ser
165 170 175

Ala Glu Leu Asp Val Pro Ile Gln Ser Ile Phe Thr Arg Asp Leu Ala
180 185 190

Ser Val Ala Arg Leu Arg Val Ala Lys Gly Asp Val Asn Asp Asn Phe
195 200 205

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Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe Gly Thr Thr Pro Glu
    210                 215                 220

Asp Ile Leu Arg Asn Lys Gly Cys Ser Ser Ser Ala Thr Asn Val Leu
225                 230                 235                 240

Leu Thr Leu Asp Asn Asn Val Val Asn Gly Ser Ser Pro Ala Ile Arg
                245                 250                 255

Thr Asn Tyr Ile Gly His Lys Thr Lys Asp Leu Gln Ala Ile Cys Gly
            260                 265                 270

Leu Ser Cys Asp Glu Leu Ser Ser Met Val Leu Glu Leu Lys Gly Leu
        275                 280                 285

Arg Thr Ile Val Thr Thr Leu Gln Asp Ser Ile Arg Lys Val Thr Glu
    290                 295                 300

Glu Asn Arg Glu Leu Val Ser Glu Leu Lys Arg Pro Pro Leu Cys Phe
305                 310                 315                 320

His Asn Gly Val Gln Tyr Lys Asn Asn Glu Glu Trp Thr Val Asp Ser
                325                 330                 335

Cys Thr Glu Cys His Cys Gln Asn Ser Val Thr Ile Cys Lys Lys Val
            340                 345                 350

Ser Cys Pro Ile Met Pro Cys Ser Asn Ala Thr Val Pro Asp Gly Glu
        355                 360                 365

Cys Cys Pro Arg Cys Trp Pro Ser Asp Ser Ala Asp Asp Gly Trp Ser
    370                 375                 380

Pro Trp Ser Glu Trp Thr Ser Cys Ser Ala Thr Cys Gly Asn Gly Ile
385                 390                 395                 400

Gln Gln Arg Gly Arg Ser Cys Asp Ser Leu Asn Asn Arg Cys Glu Gly
                405                 410                 415

Ser Ser Val Gln Thr Arg Thr Cys His Ile Gln Glu Cys Asp Lys Arg
            420                 425                 430

Phe Lys Gln Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser Cys
        435                 440                 445

Ser Val Thr Cys Gly Asp Gly Val Ile Thr Arg Ile Arg Leu Cys Asn
    450                 455                 460

Ser Pro Ser Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg
465                 470                 475                 480

Glu Thr Lys Ala Cys Lys Lys Asp Ala Cys Pro Ile Asn Gly Gly Trp
                485                 490                 495

Gly Pro Trp Ser Pro Trp Asp Ile Cys Ser Val Thr Cys Gly Gly Gly
            500                 505                 510

Val Gln Arg Arg Ser Arg Leu Cys Asn Asn Pro Thr Pro Gln Phe Gly
        515                 520                 525

Gly Lys Asp Cys Val Gly Asp Val Thr Glu Asn Gln Val Cys Asn Lys
    530                 535                 540

Gln Asp Cys Pro Ile Asp Gly Cys Leu Ser Asn Pro Cys Phe Ala Gly
545                 550                 555                 560

Ala Lys Cys Thr Ser Tyr Pro Asp Gly Ser Trp Lys Cys Gly Ala Cys
```

565 570 575

Pro Pro Gly Tyr Ser Gly Asn Gly Ile Gln Cys Lys Asp Val Asp Glu
580 585 590

Cys Lys Glu Val Pro Asp Ala Cys Phe Asn His Asn Gly Glu His Arg
595 600 605

Cys Lys Asn Thr Asp Pro Gly Tyr Asn Cys Leu Pro Cys Pro Pro Arg
610 615 620

Phe Thr Gly Ser Gln Pro Phe Gly Arg Gly Val Glu His Ala Met Ala
625 630 635 640

Asn Lys Gln Val Cys Lys Pro Arg Asn Pro Cys Thr Asp Gly Thr His
645 650 655

Asp Cys Asn Lys Asn Ala Lys Cys Asn Tyr Leu Gly His Tyr Ser Asp
660 665 670

Pro Met Tyr Arg Cys Glu Cys Lys Pro Gly Tyr Ala Gly Asn Gly Ile
675 680 685

Ile Cys Gly Glu Asp Thr Asp Leu Asp Gly Trp Pro Asn Glu Asn Leu
690 695 700

Val Cys Val Ala Asn Ala Thr Tyr His Cys Lys Lys Asp Asn Cys Pro
705 710 715 720

Asn Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys Asp Gly Ile Gly
725 730 735

Asp Ala Cys Asp Asp Asp Asp Asp Asn Asp Lys Ile Pro Asp Asp Arg
740 745 750

Asp Asn Cys Pro Phe His Tyr Asn Pro Ala Gln Tyr Asp Tyr Asp Arg
755 760 765

Asp Asp Val Gly Asp Arg Cys Asp Asn Cys Pro Tyr Asn His Asn Pro
770 775 780

Asp Gln Ala Asp Thr Asp Lys Asn Gly Glu Gly Asp Ala Cys Ala Val
785 790 795 800

Asp Ile Asp Gly Asp Gly Ile Leu Asn Glu Arg Asp Asn Cys Gln Tyr
805 810 815

Val Tyr Asn Val Asp Gln Arg Asp Thr Asp Met Asp Gly Val Gly Asp
820 825 830

Gln Cys Asp Asn Cys Pro Leu Glu His Asn Pro Asp Gln Leu Asp Ser
835 840 845

Asp Ser Asp Leu Ile Gly Asp Thr Cys Asp Asn Asn Gln Asp Ile Asp
850 855 860

Glu Asp Gly His Gln Asn Asn Leu Asp Asn Cys Pro Tyr Val Pro Asn
865 870 875 880

Ala Asn Gln Ala Asp His Asp Lys Asp Gly Lys Gly Asp Ala Cys Asp
885 890 895

His Asp Asp Asp Asn Asp Gly Ile Pro Asp Asp Arg Asp Asn Cys Arg
900 905 910

Leu Val Pro Asn Pro Asp Gln Lys Asp Ser Asp Gly Asp Gly Arg Gly
915 920 925

```
Asp Ala Cys Lys Asp Asp Phe Asp His Asp Asn Val Pro Asp Ile Asp
    930                 935                 940

Asp Ile Cys Pro Glu Asn Phe Asp Ile Ser Glu Thr Asp Phe Arg Gln
945                 950                 955                 960

Phe Gln Met Ile Pro Leu Asp Pro Lys Gly Thr Ser Gln Asn Asp Pro
                965                 970                 975

Asn Trp Val Val Arg His Gln Gly Lys Glu Leu Val Gln Thr Val Asn
            980                 985                 990

Cys Asp Pro Gly Leu Ala Val Gly Tyr Asp Glu Phe Asn Ala Val Asp
        995                1000                1005

Phe Ser Gly Thr Phe Phe Ile Asn Thr Glu Arg Asp Asp Asp Tyr Ala
   1010                1015                1020

Gly Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val Met
1025                1030                1035                1040

Trp Lys Gln Val Thr Gln Ser Tyr Trp Asp Thr Asn Pro Thr Arg Ala
               1045                1050                1055

Gln Gly Tyr Ser Gly Leu Ser Val Lys Val Val Asn Ser Thr Thr Gly
           1060                1065                1070

Pro Gly Glu His Leu Arg Asn Ala Leu Trp His Thr Gly Asn Thr Pro
       1075                1080                1085

Gly Gln Val Arg Thr Leu Trp His Asp Pro Arg His Ile Gly Trp Lys
   1090                1095                1100

Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser His Arg Pro Lys Thr Gly
1105                1110                1115                1120

Tyr Ile Arg Val Val Met Tyr Glu Gly Lys Lys Ile Met Ala Asp Ser
               1125                1130                1135

Gly Pro Ile Tyr Asp Lys Thr Tyr Ala Gly Gly Arg Leu Gly Leu Phe
           1140                1145                1150

Val Phe Ser Gln Glu Met Val Phe Phe Ser Asp Met Lys Tyr Glu Cys
       1155                1160                1165

Arg Asp Ser
   1170


<210>    5
<211>    288
<212>    PRT
<213>    Homo sapiens

<400>    5
Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
  1               5                  10                  15

Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
             20                  25                  30

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
         35                  40                  45

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

Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
```

65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
85 90 95

Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
100 105 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
115 120 125

Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
130 135 140

Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145 150 155 160

Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
165 170 175

Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
180 185 190

Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
195 200 205

Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
210 215 220

Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
225 230 235 240

Gly Asp Ser Glu Gly Ala Thr Val Gln Val Lys Phe Ser Glu Leu Leu
245 250 255

Trp Gly Gly Lys Gly His Arg Arg Leu Phe His His Ser Leu Leu Leu
260 265 270

Arg Met Ser Ser Leu Leu Ser Asn Ala Leu Leu Pro Ala Asp Thr Ser
275 280 285

<210> 6
<211> 499
<212> PRT
<213> Mus musculus

<400> 6
Met Leu Leu Val Leu Leu Ile Leu Ala Ala Ser Cys Arg Ser Ala Leu
1 5 10 15

Pro Arg Glu Pro Thr Ile Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
20 25 30

Glu Trp Met Val Gln His Thr Leu Thr Pro Gly Asp Leu Arg Asp Leu
35 40 45

Gln Val Glu Leu Val Lys Thr Ser Val Ala Ala Glu Glu Phe Ser Ile
50 55 60

Leu Met Asn Ile Ser Trp Ile Leu Arg Ala Asp Ala Ser Ile Arg Leu
65 70 75 80

Leu Lys Ala Thr Lys Ile Cys Val Ser Gly Lys Asn Asn Met Asn Ser
85 90 95

```
Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Ser Gln Thr
            100                 105                 110

Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Val Gly Phe Pro Val
        115                 120                 125

Glu Leu Ser Thr Leu Tyr Leu Ile Ser Ala His Asn Ile Pro Asn Ala
    130                 135                 140

Asn Met Asn Glu Asp Ser Pro Ser Leu Ser Val Asn Phe Thr Ser Pro
145                 150                 155                 160

Gly Cys Leu Asn His Val Met Lys Tyr Lys Lys Gln Cys Thr Glu Ala
                165                 170                 175

Gly Ser Leu Trp Asp Pro Asp Ile Thr Ala Cys Lys Lys Asn Glu Lys
            180                 185                 190

Met Val Glu Val Asn Phe Thr Thr Asn Pro Leu Gly Asn Arg Tyr Thr
        195                 200                 205

Ile Leu Ile Gln Arg Asp Thr Thr Leu Gly Phe Ser Arg Val Leu Glu
    210                 215                 220

Asn Lys Leu Met Arg Thr Ser Val Ala Ile Pro Val Thr Glu Glu Ser
225                 230                 235                 240

Glu Gly Ala Val Val Gln Leu Thr Pro Tyr Leu His Thr Cys Gly Asn
                245                 250                 255

Asp Cys Ile Arg Arg Glu Gly Thr Val Val Leu Cys Ser Glu Thr Ser
            260                 265                 270

Ala Pro Ile Pro Pro Asp Asp Asn Arg Arg Met Leu Gly Gly Trp Leu
        275                 280                 285

Pro Leu Phe Leu Val Leu Leu Val Ala Val Trp Val Leu Ala Ala Gly
    290                 295                 300

Ile Tyr Leu Thr Trp Arg Gln Gly Arg Ser Thr Lys Thr Ser Phe Pro
305                 310                 315                 320

Ile Ser Thr Met Leu Leu Pro Leu Ile Lys Val Leu Val Val Tyr Pro
                325                 330                 335

Ser Glu Ile Cys Phe His His Thr Val Cys Arg Phe Thr Asp Phe Leu
            340                 345                 350

Gln Asn Tyr Cys Arg Ser Glu Val Ile Leu Glu Lys Trp Gln Lys Lys
        355                 360                 365

Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Thr Thr Gln Lys Gln
    370                 375                 380

Ala Ala Asp Lys Val Val Phe Leu Leu Pro Ser Asp Val Pro Thr Leu
385                 390                 395                 400

Cys Asp Ser Ala Cys Gly His Asn Glu Gly Ser Ala Arg Glu Asn Ser
                405                 410                 415

Gln Asp Leu Phe Pro Leu Ala Phe Asn Leu Phe Cys Ser Asp Phe Ser
            420                 425                 430

Ser Gln Thr His Leu His Lys Tyr Leu Val Val Tyr Leu Gly Gly Ala
        435                 440                 445

Asp Leu Lys Gly Asp Tyr Asn Ala Leu Ser Val Cys Pro Gln Tyr His
    450                 455                 460
```

```
Leu Met Lys Asp Ala Thr Ala Phe His Thr Glu Leu Leu Lys Ala Thr
465                 470                 475                 480

Gln Ser Met Ser Val Lys Lys Arg Ser Gln Ala Cys His Asp Ser Cys
                485                 490                 495

Ser Pro Leu
```

<210> 7
<211> 208
<212> PRT
<213> Homo sapiens

<400> 7

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Met Lys Leu Leu Pro Ser Val Val Leu Lys Leu Phe Leu Ala Ala Val
  1               5                  10                  15

Leu Ser Ala Leu Val Thr Gly Glu Ser Leu Glu Arg Leu Arg Arg Gly
             20                  25                  30

Leu Ala Ala Gly Thr Ser Asn Pro Asp Pro Pro Thr Val Ser Thr Asp
         35                  40                  45

Gln Leu Leu Pro Leu Gly Gly Gly Arg Asp Arg Lys Val Arg Asp Leu
     50                  55                  60

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

Gln Ala Leu Ala Thr Pro Asn Lys Glu Glu His Gly Lys Arg Lys Lys
                 85                  90                  95

Lys Gly Lys Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr
            100                 105                 110

Lys Asp Phe Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg
        115                 120                 125

Ala Pro Ser Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His
    130                 135                 140

Gly Leu Ser Leu Pro Val Glu Asn Arg Leu Tyr Thr Tyr Asp His Thr
145                 150                 155                 160

Thr Ile Leu Ala Val Val Ala Val Val Leu Ser Ser Val Cys Leu Leu
                165                 170                 175

Val Ile Val Gly Leu Leu Met Phe Arg Tyr His Arg Arg Gly Gly Tyr
            180                 185                 190

Asp Val Glu Asn Glu Glu Lys Val Lys Leu Gly Met Thr Asn Ser His
        195                 200                 205
```

<210> 8
<211> 208
<212> PRT
<213> Mus musculus

<400> 8

```
Met Lys Leu Leu Pro Ser Val Met Leu Lys Leu Phe Leu Ala Ala Val
  1               5                  10                  15
```

Leu Ser Ala Leu Val Thr Gly Glu Ser Leu Glu Arg Leu Arg Arg Gly
20 25 30

Leu Ala Ala Ala Thr Ser Asn Pro Asp Pro Pro Thr Gly Ser Thr Asn
35 40 45

Gln Leu Leu Pro Thr Gly Gly Asp Arg Ala Gln Gly Val Gln Asp Leu
50 55 60

Glu Gly Thr Asp Leu Asn Leu Phe Lys Val Ala Phe Ser Ser Lys Pro
65 70 75 80

Gln Gly Leu Ala Thr Pro Ser Lys Glu Arg Asn Gly Lys Lys Lys Lys
85 90 95

Lys Gly Lys Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr
100 105 110

Lys Asp Tyr Cys Ile His Gly Glu Cys Arg Tyr Leu Gln Glu Phe Arg
115 120 125

Thr Pro Ser Cys Lys Cys Leu Pro Gly Tyr His Gly His Arg Cys His
130 135 140

Gly Leu Thr Leu Pro Val Glu Asn Pro Leu Tyr Thr Tyr Asp His Thr
145 150 155 160

Thr Val Leu Ala Val Val Ala Val Val Leu Ser Ser Val Cys Leu Leu
165 170 175

Val Ile Val Gly Leu Leu Met Phe Arg Tyr His Arg Arg Gly Gly Tyr
180 185 190

Asp Leu Glu Ser Glu Glu Lys Val Lys Leu Gly Val Ala Ser Ser His
195 200 205

<210> 9
<211> 21
<212> RNA
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<220>
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<220>
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<222> (20)
<223> n is dT.

<220>
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<222> (21)
<223> n is dT.

<400> 9
cauuaagguu ccaguuauan n 21

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

<220>
<223> siRNA antisense strand for TSP-2 mRNA

<220>
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<220>
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<223> n is dT.

<400> 10
uauaacugga accuuaaugn n 21