eolf-seql
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<151> 2014-10-10

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<151> 2015-07-06

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<170> PatentIn version 3.5

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<213> Homo sapiens

<400> 1

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

His Thr Asn Asp Val His Ser Arg Leu Glu Gln Thr Ser Glu Asp Ser
35 40 45

Ser Lys Cys Val Asn Ala Ser Arg Cys Met Gly Gly Val Ala Arg Leu
50 55 60

Phe Thr Lys Val Gln Gln Ile Arg Arg Ala Glu Pro Asn Val Leu Leu
65 70 75 80

Leu Asp Ala Gly Asp Gln Tyr Gln Gly Thr Ile Trp Phe Thr Val Tyr

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                85                  90                  95

Lys Gly Ala Glu Val Ala His Phe Met Asn Ala Leu Arg Tyr Asp Ala
            100                 105                 110

Met Ala Leu Gly Asn His Glu Phe Asp Asn Gly Val Glu Gly Leu Ile
        115                 120                 125

Glu Pro Leu Leu Lys Glu Ala Lys Phe Pro Ile Leu Ser Ala Asn Ile
    130                 135                 140

Lys Ala Lys Gly Pro Leu Ala Ser Gln Ile Ser Gly Leu Tyr Leu Pro
145                 150                 155                 160

Tyr Lys Val Leu Pro Val Gly Asp Glu Val Val Gly Ile Val Gly Tyr
                165                 170                 175

Thr Ser Lys Glu Thr Pro Phe Leu Ser Asn Pro Gly Thr Asn Leu Val
            180                 185                 190

Phe Glu Asp Glu Ile Thr Ala Leu Gln Pro Glu Val Asp Lys Leu Lys
        195                 200                 205

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

Met Asp Lys Leu Ile Ala Gln Lys Val Arg Gly Val Asp Val Val Val
225                 230                 235                 240

Gly Gly His Ser Asn Thr Phe Leu Tyr Thr Gly Asn Pro Pro Ser Lys
                245                 250                 255

Glu Val Pro Ala Gly Lys Tyr Pro Phe Ile Val Thr Ser Asp Asp Gly
            260                 265                 270

Arg Lys Val Pro Val Val Gln Ala Tyr Ala Phe Gly Lys Tyr Leu Gly
        275                 280                 285

Tyr Leu Lys Ile Glu Phe Asp Glu Arg Gly Asn Val Ile Ser Ser His
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    290                 295                 300

Gly Asn Pro Ile Leu Leu Asn Ser Ser Ile Pro Glu Asp Pro Ser Ile
305                 310                 315                 320

Lys Ala Asp Ile Asn Lys Trp Arg Ile Lys Leu Asp Asn Tyr Ser Thr
                325                 330                 335

Gln Glu Leu Gly Lys Thr Ile Val Tyr Leu Asp Gly Ser Ser Gln Ser
            340                 345                 350

Cys Arg Phe Arg Glu Cys Asn Met Gly Asn Leu Ile Cys Asp Ala Met
        355                 360                 365

Ile Asn Asn Asn Leu Arg His Thr Asp Glu Met Phe Trp Asn His Val
    370                 375                 380

Ser Met Cys Ile Leu Asn Gly Gly Gly Ile Arg Ser Pro Ile Asp Glu
385                 390                 395                 400

Arg Asn Asn Gly Thr Ile Thr Trp Glu Asn Leu Ala Ala Val Leu Pro
                405                 410                 415

Phe Gly Gly Thr Phe Asp Leu Val Gln Leu Lys Gly Ser Thr Leu Lys
            420                 425                 430

Lys Ala Phe Glu His Ser Val His Arg Tyr Gly Gln Ser Thr Gly Glu
        435                 440                 445

Phe Leu Gln Val Gly Gly Ile His Val Val Tyr Asp Leu Ser Arg Lys
    450                 455                 460

Pro Gly Asp Arg Val Val Lys Leu Asp Val Leu Cys Thr Lys Cys Arg
465                 470                 475                 480

Val Pro Ser Tyr Asp Pro Leu Lys Met Asp Glu Val Tyr Lys Val Ile
                485                 490                 495

Leu Pro Asn Phe Leu Ala Asn Gly Gly Asp Gly Phe Gln Met Ile Lys
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500 505 510

Asp Glu Leu Leu Arg His Asp Ser Gly Asp Gln Asp Ile Asn Val Val
515 520 525

Ser Thr Tyr Ile Ser Lys Met Lys Val Ile Tyr Pro Ala Val Glu Gly
530 535 540

Arg Ile Lys Phe Ser Thr Gly Ser His Cys His Gly Ser Phe Ser Leu
545 550 555 560

Ile Phe Leu Ser Leu Trp Ala Val Ile Phe Val Leu Tyr Gln
565 570

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<211> 553
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<213> Homo sapiens

<400> 2

Met Cys Pro Arg Ala Ala Arg Ala Pro Ala Thr Leu Leu Leu Ala Leu
1 5 10 15

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

His Thr Asn Asp Val His Ser Arg Leu Glu Gln Thr Ser Glu Asp Ser
35 40 45

Ser Lys Cys Val Asn Ala Ser Arg Cys Met Gly Gly Val Ala Arg Leu
50 55 60

Phe Thr Lys Val Gln Gln Ile Arg Arg Ala Glu Pro Asn Val Leu Leu
65 70 75 80

Leu Asp Ala Gly Asp Gln Tyr Gln Gly Thr Ile Trp Phe Thr Val Tyr
85 90 95

Lys Gly Ala Glu Val Ala His Phe Met Asn Ala Leu Arg Tyr Asp Ala
100 105 110

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Met Ala Leu Gly Asn His Glu Phe Asp Asn Gly Val Glu Gly Leu Ile
        115                 120                 125

Glu Pro Leu Leu Lys Glu Ala Lys Phe Pro Ile Leu Ser Ala Asn Ile
    130                 135                 140

Lys Ala Lys Gly Pro Leu Ala Ser Gln Ile Ser Gly Leu Tyr Leu Pro
145                 150                 155                 160

Tyr Lys Val Leu Pro Val Gly Asp Glu Val Val Gly Ile Val Gly Tyr
                165                 170                 175

Thr Ser Lys Glu Thr Pro Phe Leu Ser Asn Pro Gly Thr Asn Leu Val
            180                 185                 190

Phe Glu Asp Glu Ile Thr Ala Leu Gln Pro Glu Val Asp Lys Leu Lys
        195                 200                 205

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

Met Asp Lys Leu Ile Ala Gln Lys Val Arg Gly Val Asp Val Val Val
225                 230                 235                 240

Gly Gly His Ser Asn Thr Phe Leu Tyr Thr Gly Asn Pro Pro Ser Lys
                245                 250                 255

Glu Val Pro Ala Gly Lys Tyr Pro Phe Ile Val Thr Ser Asp Asp Gly
            260                 265                 270

Arg Lys Val Pro Val Val Gln Ala Tyr Ala Phe Gly Lys Tyr Leu Gly
        275                 280                 285

Tyr Leu Lys Ile Glu Phe Asp Glu Arg Gly Asn Val Ile Ser Ser His
    290                 295                 300

Gly Asn Pro Ile Leu Leu Asn Ser Ser Ile Pro Glu Asp Pro Ser Ile
305                 310                 315                 320
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Lys Ala Asp Ile Asn Lys Trp Arg Ile Lys Leu Asp Asn Tyr Ser Thr
                325                 330                 335

Gln Glu Leu Gly Lys Thr Ile Val Tyr Leu Asp Gly Ser Ser Gln Ser
            340                 345                 350

Cys Arg Phe Arg Glu Cys Asn Met Gly Asn Leu Ile Cys Asp Ala Met
        355                 360                 365

Ile Asn Asn Asn Leu Arg His Thr Asp Glu Met Phe Trp Asn His Val
    370                 375                 380

Ser Met Cys Ile Leu Asn Gly Gly Gly Ile Arg Ser Pro Ile Asp Glu
385                 390                 395                 400

Arg Asn Asn Gly Thr Ile Thr Trp Glu Asn Leu Ala Ala Val Leu Pro
                405                 410                 415

Phe Gly Gly Thr Phe Asp Leu Val Gln Leu Lys Gly Ser Thr Leu Lys
            420                 425                 430

Lys Ala Phe Glu His Ser Val His Arg Tyr Gly Gln Ser Thr Gly Glu
        435                 440                 445

Phe Leu Gln Val Gly Gly Ile His Val Val Tyr Asp Leu Ser Arg Lys
    450                 455                 460

Pro Gly Asp Arg Val Val Lys Leu Asp Val Leu Cys Thr Lys Cys Arg
465                 470                 475                 480

Val Pro Ser Tyr Asp Pro Leu Lys Met Asp Glu Val Tyr Lys Val Ile
                485                 490                 495

Leu Pro Asn Phe Leu Ala Asn Gly Gly Asp Gly Phe Gln Met Ile Lys
            500                 505                 510

Asp Glu Leu Leu Arg His Asp Ser Gly Asp Gln Asp Ile Asn Val Val
        515                 520                 525
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Ser Thr Tyr Ile Ser Lys Met Lys Val Ile Tyr Pro Ala Val Glu Gly
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Arg Ile Lys His His His His His His
545                 550


<210>  3
<211>  120
<212>  PRT
<213>  mus musculus

<400>  3

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


Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Ser Tyr
            20                  25                  30


Asn Met Tyr Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
        35                  40                  45


Gly Tyr Ile Asp Pro Tyr Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe
    50                  55                  60


Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65                  70                  75                  80


Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                85                  90                  95


Ala Arg Gly Tyr Gly Asn Tyr Lys Ala Trp Phe Ala Tyr Trp Gly Gln
            100                 105                 110


Gly Thr Leu Val Thr Val Ser Ala
        115                 120


<210>  4
<211>  106
<212>  PRT
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<213> Mus musculus

<400> 4

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Asp Ala Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly
1               5                  10                  15


Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp
            20                  25                  30


Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
        35                  40                  45


Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
    50                  55                  60


Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala
65                  70                  75                  80


Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Leu Thr
                85                  90                  95


Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
            100                 105
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<210> 5
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<212> PRT
<213> Mus musculus

<400> 5

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Ser Tyr Asn Met Tyr
1               5
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<210> 6
<211> 7
<212> PRT
<213> Mus musculus

<400> 6

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Gly Tyr Ala Phe Thr Ser Tyr
1               5
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<210> 7
<211> 8
<212> PRT
<213> Mus musculus

<400> 7

Gly Tyr Ala Phe Thr Ser Tyr Asn
1   5

<210> 8
<211> 17
<212> PRT
<213> Mus musculus

<400> 8

Tyr Ile Asp Pro Tyr Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe Lys
1   5   10   15

Gly

<210> 9
<211> 4
<212> PRT
<213> Mus musculus

<400> 9

Pro Tyr Asn Gly
1

<210> 10
<211> 8
<212> PRT
<213> Mus musculus

<400> 10

Ile Asp Pro Tyr Asn Gly Gly Thr
1   5

<210> 11
<211> 11

<212> PRT
<213> Mus musculus

<400> 11

Gly Tyr Gly Asn Tyr Lys Ala Trp Phe Ala Tyr
1 5 10

<210> 12
<211> 9
<212> PRT
<213> Mus musculus

<400> 12

Tyr Gly Asn Tyr Lys Ala Trp Phe Ala
1 5

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

<400> 13

Ala Arg Gly Tyr Gly Asn Tyr Lys Ala Trp Phe Ala Tyr
1 5 10

<210> 14
<211> 11
<212> PRT
<213> Mus musculus

<400> 14

Lys Ala Ser Gln Ser Val Thr Asn Asp Val Ala
1 5 10

<210> 15
<211> 7
<212> PRT
<213> Mus musculus

<400> 15

Ser Gln Ser Val Thr Asn Asp
1 5

<210> 16
<211> 6
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<213> Mus musculus

<400> 16

Gln Ser Val Thr Asn Asp
1   5

<210> 17
<211> 7
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<213> Mus musculus

<400> 17

Tyr Ala Ser Asn Arg Tyr Thr
1   5

<210> 18
<211> 3
<212> PRT
<213> Mus musculus

<400> 18

Tyr Ala Ser
1

<210> 19
<211> 8
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<213> Mus musculus

<400> 19

Gln Gln Asp Tyr Ser Ser Leu Thr
1   5

<210> 20
<211> 5
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<400> 20

Asp Tyr Ser Ser Leu
1 5

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

<400> 21

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Thr Ser Tyr
20 25 30

Asn Met Tyr Trp Val Lys Gln Ser His Gly Lys Arg Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Asp Pro Tyr Asn Gly Gly Ser Ser Tyr Asn Gln Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met His Leu Asn Asn Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Tyr Asn Asn Tyr Lys Ala Trp Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ala
115 120

<210> 22
<211> 106
<212> PRT
<213> Mus musculus

<400> 22

Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly
1 5 10 15

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Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp
            20                  25                  30


Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
        35                  40                  45


Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly
    50                  55                  60


Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Met Gln Ala
65                  70                  75                  80


Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Leu Thr
                85                  90                  95


Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
            100                 105


<210>  23
<211>  17
<212>  PRT
<213>  Mus musculus

<400>  23

Tyr Ile Asp Pro Tyr Asn Gly Gly Ser Ser Tyr Asn Gln Lys Phe Lys
1               5                   10                  15


Gly



<210>  24
<211>  8
<212>  PRT
<213>  Mus musculus

<400>  24

Ile Asp Pro Tyr Asn Gly Gly Ser
1               5
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<210> 25
<211> 11
<212> PRT
<213> Mus musculus

<400> 25

Gly Tyr Asn Asn Tyr Lys Ala Trp Phe Ala Tyr
1 5 10

<210> 26
<211> 9
<212> PRT
<213> Mus musculus

<400> 26

Tyr Asn Asn Tyr Lys Ala Trp Phe Ala
1 5

<210> 27
<211> 13
<212> PRT
<213> Mus musculus

<400> 27

Ala Arg Gly Tyr Asn Asn Tyr Lys Ala Trp Phe Ala Tyr
1 5 10

<210> 28
<211> 126
<212> PRT
<213> Mus musculus

<400> 28

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ala Ser Tyr
20 25 30

Asn Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Asp Trp Ile
35 40 45

```
Gly Tyr Ile Asp Pro Tyr Asn Gly Gly Ser Ser Tyr Asn Leu Thr Phe
    50                  55                  60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr Thr Ala Tyr
65                  70                  75                  80

Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Arg Gly Tyr Gly Asn Tyr Lys Ala Trp Phe Ala Tyr Trp Gly Gln
            100                 105                 110

Gly Thr Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro
        115                 120                 125
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<210> 29
<211> 112
<212> PRT
<213> Mus musculus

<400> 29

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

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Ser Asn Asp
            20                  25                  30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
        35                  40                  45

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

Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala
65                  70                  75                  80

Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Leu Thr
                85                  90                  95

Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Thr Val Ala Ala Pro
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100 105 110

<210> 30
<211> 5
<212> PRT
<213> Mus musculus

<400> 30

Ser Tyr Asn Met Asn
1 5

<210> 31
<211> 7
<212> PRT
<213> Mus musculus

<400> 31

Gly Tyr Ala Phe Ala Ser Tyr
1 5

<210> 32
<211> 8
<212> PRT
<213> Mus musculus

<400> 32

Gly Tyr Ala Phe Ala Ser Tyr Asn
1 5

<210> 33
<211> 17
<212> PRT
<213> Mus musculus

<400> 33

Tyr Ile Asp Pro Tyr Asn Gly Gly Ser Ser Tyr Asn Leu Thr Phe Lys
1 5 10 15

Gly

<210> 34

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

<400> 34

Ser Gln Ser Val Ser Asn Asp
1 5

<210> 35
<211> 6
<212> PRT
<213> Mus musculus

<400> 35

Gln Ser Val Ser Asn Asp
1 5

<210> 36
<211> 126
<212> PRT
<213> Mus musculus

<400> 36

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ala Ser Tyr
20 25 30

Asn Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Asp Trp Ile
35 40 45

Gly Tyr Ile Asp Pro Tyr Asn Gly Gly Ser Ser Tyr Asn Leu Thr Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr Thr Ala Tyr
65 70 75 80

Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Tyr Gly Asn Tyr Lys Ala Trp Phe Ala Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro
115 120 125

<210> 37
<211> 112
<212> PRT
<213> Mus musculus

<400> 37

Asp Val Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Ser Asn Asp
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45

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

Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala
65 70 75 80

Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Leu Thr
85 90 95

Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Thr Val Ala Ala Pro
100 105 110

<210> 38
<211> 5
<212> PRT
<213> Mus musculus

<220>
<221> X
<222> (5)..(5)

<223> X is any amino acid

<400> 38

Ser Tyr Asn Met Xaa
1   5

<210> 39
<211> 17
<212> PRT
<213> mus musculus

<220>
<221> X
<222> (9)..(9)
<223> X is any amino acid

<220>
<221> X
<222> (13)..(13)
<223> X is any amino acid

<220>
<221> X
<222> (14)..(14)
<223> X is any amino acid

<400> 39

Tyr Ile Asp Pro Tyr Asn Gly Gly Xaa Ser Tyr Asn Xaa Xaa Phe Lys
1   5   10   15

Gly

<210> 40
<211> 9
<212> PRT
<213> Mus musculus

<220>
<221> X
<222> (9)..(9)
<223> X is any amino acid

<400> 40

Tyr Ile Asp Pro Tyr Asn Gly Gly Xaa
1 5

<210> 41
<211> 13
<212> PRT
<213> Mus musculus

<220>
<221> X
<222> (3)..(3)
<223> X is any amino acid

<400> 41

Gly Tyr Xaa Ala Ala Asn Tyr Lys Ala Trp Phe Ala Tyr
1 5 10

<210> 42
<211> 11
<212> PRT
<213> Mus musculus

<220>
<221> X
<222> (7)..(7)
<223> X is any amino acid

<400> 42

Lys Ala Ser Gln Ser Val Xaa Asn Asp Val Ala
1 5 10

<210> 43
<211> 7
<212> PRT
<213> Mus musculus

<220>
<221> X
<222> (4)..(4)
<223> X is any amino acid

<400> 43

Tyr Ala Ser Xaa Arg Tyr Thr

1 5

<210> 44
<211> 11
<212> PRT
<213> Mus musculus

<400> 44

Lys Ala Ser Gln Ser Val Ser Asn Asp Val Ala
1 5 10

<210> 45
<211> 45
<212> DNA
<213> Homo sapiens

<400> 45
tacgactcac aagcttgccg ccaccatgtg tccccgagcc gcgcg 45

<210> 46
<211> 57
<212> DNA
<213> Homo sapiens

<400> 46
ccgccccgac tctagatcag tgatggtgat gatggtgctt gatccgacct tcaactg 57