SEQUENCE LISTING

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<120> Novel anti-netrin-1 antibody

<130> BET 14L3009

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<170> PatentIn version 3.5

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Gly Gln Ala Ala Gln Pro Asp Pro Cys Ser Asp Glu Asn Gly His Pro
        35                  40                  45

Arg Arg Cys Ile Pro Asp Phe Val Asn Ala Ala Phe Gly Lys Asp Val
    50                  55                  60

Arg Val Ser Ser Thr Cys Gly Arg Pro Pro Ala Arg Tyr Cys Val Val
65                  70                  75                  80

Ser Glu Arg Gly Glu Glu Arg Leu Arg Ser Cys His Leu Cys Asn Ala
                85                  90                  95

Ser Asp Pro Lys Lys Ala His Pro Pro Ala Phe Leu Thr Asp Leu Asn
            100                 105                 110

Asn Pro His Asn Leu Thr Cys Trp Gln Ser Glu Asn Tyr Leu Gln Phe
        115                 120                 125

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

Thr Tyr Val Ser Leu Gln Phe Cys Ser Pro Arg Pro Glu Ser Met Ala
145                 150                 155                 160

Ile Tyr Lys Ser Met Asp Tyr Gly Arg Thr Trp Val Pro Phe Gln Phe
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                165                 170                 175

Tyr Ser Thr Gln Cys Arg Lys Met Tyr Asn Arg Pro His Arg Ala Pro
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Ile Thr Lys Gln Asn Glu Gln Glu Ala Val Cys Thr Asp Ser His Thr
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Asp Met Arg Pro Leu Ser Gly Gly Leu Ile Ala Phe Ser Thr Leu Asp
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Gly Arg Pro Ser Ala His Asp Phe Asp Asn Ser Pro Val Leu Gln Asp
225                 230                 235                 240

Trp Val Thr Ala Thr Asp Ile Arg Val Ala Phe Ser Arg Leu His Thr
                245                 250                 255

Phe Gly Asp Glu Asn Glu Asp Asp Ser Glu Leu Ala Arg Asp Ser Tyr
            260                 265                 270

Phe Tyr Ala Val Ser Asp Leu Gln Val Gly Gly Arg Cys Lys Cys Asn
        275                 280                 285

Gly His Ala Ala Arg Cys Val Arg Asp Arg Asp Asp Ser Leu Val Cys
    290                 295                 300

Asp Cys Arg His Asn Thr Ala Gly Pro Glu Cys Asp Arg Cys Lys Pro
305                 310                 315                 320

Phe His Tyr Asp Arg Pro Trp Gln Arg Ala Thr Ala Arg Glu Ala Asn
                325                 330                 335

Glu Cys Val Ala Cys Asn Cys Asn Leu His Ala Arg Arg Cys Arg Phe
            340                 345                 350

Asn Met Glu Leu Tyr Lys Leu Ser Gly Arg Lys Ser Gly Gly Val Cys
        355                 360                 365

Leu Asn Cys Arg His Asn Thr Ala Gly Arg His Cys His Tyr Cys Lys
    370                 375                 380

Glu Gly Tyr Tyr Arg Asp Met Gly Lys Pro Ile Thr His Arg Lys Ala
385                 390                 395                 400

Cys Lys Ala Cys Asp Cys His Pro Val Gly Ala Ala Gly Lys Thr Cys
                405                 410                 415

Asn Gln Thr Thr Gly Gln Cys Pro Cys Lys Asp Gly Val Thr Gly Ile
            420                 425                 430

Thr Cys Asn Arg Cys Ala Lys Gly Tyr Gln Gln Ser Arg Ser Pro Ile
        435                 440                 445
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Ala Pro Cys Ile Lys Ile Pro Val Ala Pro Pro Thr Thr Ala Ala Ser
    450                 455                 460

Ser Val Glu Glu Pro Glu Asp Cys Asp Ser Tyr Cys Lys Ala Ser Lys
465                 470                 475                 480

Gly Lys Leu Lys Ile Asn Met Lys Lys Tyr Cys Lys Lys Asp Tyr Ala
                485                 490                 495

Val Gln Ile His Ile Leu Lys Ala Asp Lys Ala Gly Asp Trp Trp Lys
            500                 505                 510

Phe Thr Val Asn Ile Ile Ser Val Tyr Lys Gln Gly Thr Ser Arg Ile
        515                 520                 525

Arg Arg Gly Asp Gln Ser Leu Trp Ile Arg Ser Arg Asp Ile Ala Cys
    530                 535                 540

Lys Cys Pro Lys Ile Lys Pro Leu Lys Lys Tyr Leu Leu Leu Gly Asn
545                 550                 555                 560

Ala Glu Asp Ser Pro Asp Gln Ser Gly Ile Val Ala Asp Lys Ser Ser
                565                 570                 575

Leu Val Ile Gln Trp Arg Asp Thr Trp Ala Arg Arg Leu Arg Lys Phe
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Gln Gln Arg Glu Lys Lys Gly Lys Cys Lys Lys Ala
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ggcaaggacg tgcgcgtgtc cagcacctgc ggccggcccc cggcgcgcta ctgcgtggtg      240

agcgagcgcg gcgaggagcg gctgcgctcg tgccacctct gcaacgcgtc cgaccccaag      300

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

Asn Met His Trp Val Lys Gln Thr Pro Arg Gln Gly Leu Glu Trp Ile
35 40 45

Gly Ala Ile Tyr Pro Gly Asn Gly Asp 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 Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Ser Ala
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Ser Ile 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

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            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 Pro Trp
                85                  90                  95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
            100                 105
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Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30

Asn Met His Trp Val Lys Gln Thr Pro Arg Gln Gly Leu Glu Trp Ile
        35                  40                  45

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

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

Pro Gly Ser Ala Ala Gln Thr Asn Ser Met Val Thr Leu Gly Cys Leu
    130                 135                 140

Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Val Thr Trp Asn Ser Gly
145                 150                 155                 160

Ser Leu Ser Ser Gly Val His Thr Phe Pro Ala Val Leu Glu Ser Asp
                165                 170                 175

Leu Tyr Thr Leu Ser Ser Ser Val Thr Val Pro Ser Ser Pro Arg Pro
            180                 185                 190

Ser Glu Thr Val Thr Cys Asn Val Ala His Pro Ala Ser Ser Thr Lys
        195                 200                 205

Val Asp Lys Lys Ile Val Pro Arg Asp Cys Gly Cys Lys Pro Cys Ile
    210                 215                 220

Cys Thr Val Pro Glu Val Ser Ser Val Phe Ile Phe Pro Pro Lys Pro
225                 230                 235                 240

Lys Asp Val Leu Thr Ile Thr Leu Thr Pro Lys Val Thr Cys Val Val
                245                 250                 255

Val Asp Ile Ser Lys Asp Asp Pro Glu Val Gln Phe Ser Trp Phe Val
            260                 265                 270

Asp Asp Val Glu Val His Thr Ala Gln Thr Gln Pro Arg Glu Glu Gln
        275                 280                 285

Phe Asn Ser Thr Phe Arg Ser Val Ser Glu Leu Pro Ile Met His Gln
    290                 295                 300

Asp Trp Leu Asn Gly Lys Glu Phe Lys Cys Arg Val Asn Ser Ala Ala
305                 310                 315                 320

Phe Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Arg Pro
                325                 330                 335

Lys Ala Pro Gln Val Tyr Thr Ile Pro Pro Pro Lys Glu Gln Met Ala
            340                 345                 350

Lys Asp Lys Val Ser Leu Thr Cys Met Ile Thr Asp Phe Phe Pro Glu
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Asp Ile Thr Val Glu Trp Gln Trp Asn Gly Gln Pro Ala Glu Asn Tyr
    370                 375                 380
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Lys Asn Thr Gln Pro Ile Met Asn Thr Asn Gly Ser Tyr Phe Val Tyr
385                 390                 395                 400


Ser Lys Leu Asn Val Gln Lys Ser Asn Trp Glu Ala Gly Asn Thr Phe
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Ser Leu Ser His Ser Pro Gly Lys
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Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly
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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 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 Pro Trp
                85                  90                  95


Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala
            100                 105                 110


Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu Gln Leu Thr Ser Gly
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        115                 120                 125

Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr Pro Lys Asp Ile
    130                 135                 140

Asn Val Lys Trp Lys Ile Asp Gly Ser Glu Arg Gln Asn Gly Val Leu
145                 150                 155                 160

Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr Tyr Ser Met Ser
                165                 170                 175

Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg His Asn Ser Tyr
            180                 185                 190

Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser Pro Ile Val Lys Ser
        195                 200                 205

Phe Asn Arg Asn Glu Cys
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Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
1               5                   10                  15

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

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

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

Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr Ile Asn Asn Ile Glu Ser
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65 70 75 80

Glu Asp Ala Ala Tyr Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Trp
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Thr Phe Gly Gln Gly
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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
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Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Ser Asn Asp
20 25 30

Val Ala Trp Phe Gln Gln Arg Pro Gly Gln Ser Pro Arg Arg Leu Ile
35 40 45

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

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Glu Ala
65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Asp Tyr Ser Ser Pro Trp
85 90 95

Thr Phe Gly Gln Gly
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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
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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 Ala Pro Arg Leu Leu Ile
        35   40   45

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

Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr Ile Asn Asn Ile Glu Ser
65   70   75   80

Glu Asp Ala Ala Tyr Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Trp
                85   90   95

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser Leu Glu Ala
65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Asp Tyr Ser Ser Pro Trp
85 90 95

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

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

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

Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr Ile Asn Asn Ile Glu Ser
65   70   75   80

Glu Asp Ala Ala Tyr Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Trp
                85   90   95

Thr Phe Gly Gln Gly
            100

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Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro Gly
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Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Asn Asp
            20   25   30

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

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

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser
65   70   75   80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Asp Tyr Ser Ser Pro Trp
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Thr Phe Gly Gln Gly
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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30


Asn Met His Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
        35                  40                  45


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


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


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


Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln Gly
            100                 105
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Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

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

Lys Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr
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Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln Gly
100 105

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

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Tyr Thr Phe Thr Ser Tyr

```
            20                  25                  30

Asn Met His Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

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

Lys Gly Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val Val
65                  70                  75                  80

Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys
                85                  90                  95

Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln Gly
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<223> CDR according to IGMT

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

Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30

Asn Met His Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
        35                  40                  45

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
65                  70                  75                  80

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

Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln Gly
100 105

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<223> CDR according to IGMT

<400> 24

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

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Asn Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

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

Lys Gly Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser
65 70 75 80

Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln Gly
100 105

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


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


Asn Met His Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
        35                  40                  45


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


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


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


Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln Gly
            100                 105
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Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1               5                   10                  15


Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Tyr Thr Phe Thr Ser Tyr
            20                  25                  30


Asn Met His Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
        35                  40                  45


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


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


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


Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln Gly
            100                 105


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<220>
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<223>  CDR according to IGMT

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


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


Asn Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
        35                  40                  45


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

Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr
65 70 75 80

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

Ala Arg Gly Gly Thr Gly Phe Ala Tyr Trp Gly Gln
100 105

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<400> 28

Ser Tyr Asn Met His
1 5

<210> 29
<211> 17
<212> PRT
<213> Mus musculus

<400> 29

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

Gly

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

<400> 30

Gly Gly Thr Gly Phe Ala Tyr
1 5

<210> 31
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Lys Ala Ser Gln Ser Val Ser Asn Asp Val Ala
1 5 10

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Tyr Ala Ser Asn Arg Tyr Thr
1 5

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<400> 33
aaaagtactg caagaaggac tatgc 25

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<220>
<223> reverse primer for PCR of human netrin-1 gene

<400> 34
ccctgcttat acacggagat g 21

<210> 35
<211> 22
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<213> Homo sapiens

<400> 35

Ala Arg Arg Cys Arg Phe Asn Met Glu Leu Tyr Lys Leu Ser Gly Arg
1 5 10 15

Lys Ser Gly Gly Val Cys
20

<210> 36
<211> 66
<212> DNA
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<400> 36
gcccggcgct gccgcttcaa catggagctc tacaagcttt cggggcgcaa gagcggaggt 60

gtctgc 66