SEQUENCE LISTING

<110> NVIP Pty Ltd

<120> ANTI-NERVE GROWTH FACTOR ANTIBODIES AND METHODS OF PREPARING AND USING THE SAME

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<151> 2011-05-06

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<151> 2011-09-06

<160> 33

<170> PatentIn version 3.5

<210> 1
<211> 217
<212> PRT
<213> Artificial Sequence

<220>
<223> full V+C light chain from chimeric

<400> 1

```
Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Leu Gly
1               5                  10                  15


Glu Thr Val Thr Ile Glu Cys Arg Ala Ser Glu Asp Ile Tyr Asn Ala
            20                  25                  30


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


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


Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Ser
65                  70                  75                  80


Glu Asp Val Ala Ser Tyr Phe Cys Gln His Tyr Phe His Tyr Pro Arg
                85                  90                  95


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


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


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

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

Glu Ser Thr Thr Glu Gln Asn Ser Lys Asp Ser Thr Tyr Ser Leu Ser
                165                 170                 175

Ser Thr Leu Thr Met Ser Arg Thr Glu Tyr Gln Ser His Glu Lys Phe
            180                 185                 190

Ser Cys Glu Val Thr His Lys Ser Leu Ala Ser Thr Leu Val Lys Ser
        195                 200                 205

Phe Asn Arg Ser Glu Cys Gln Arg Glu
    210                 215
```

<210> 2
<211> 457
<212> PRT
<213> Artificial Sequence

<220>
<223> full V+C heavy chain from chimeric

<400> 2

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

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

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

Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

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

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

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
            100                 105                 110

Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser Thr Thr Ala Pro
        115                 120                 125
```

```
Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser Gly Ala Thr
    130                 135                 140

Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu Pro Val Thr
145                 150                 155                 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
                165                 170                 175

Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser Met Val Thr
            180                 185                 190

Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys Asn Val Ala
        195                 200                 205

His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg Lys Thr Asp
    210                 215                 220

His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys Pro Pro Pro
225                 230                 235                 240

Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro Lys Pro Lys
                245                 250                 255

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

Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp Phe Val Asp
        275                 280                 285

Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu Glu Gln Phe
    290                 295                 300

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu His Gln Asp
305                 310                 315                 320

Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser Lys Ser Leu
                325                 330                 335

Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Ala Lys Gly Gln Pro His
            340                 345                 350

Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu Leu Ser Arg
        355                 360                 365

Asn Lys Val Ser Val Thr Cys Leu Ile Lys Ser Phe His Pro Pro Asp
    370                 375                 380
```

```
Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro Glu Asn Asn
385                 390                 395                 400

Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr Tyr Phe Val
                405                 410                 415

Tyr Ser Lys Leu Ser Val Asp Arg Ser His Trp Gln Arg Gly Asn Thr
            420                 425                 430

Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His His Thr Gln
        435                 440                 445

Lys Ser Leu Thr Gln Ser Pro Gly Lys
    450                 455
```

<210> 3
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> light chain variable domain from felinised

<400> 3

```
Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly
1               5                   10                  15

Glu Pro Ala Ser Ile Ser Cys Arg Ala Ser Glu Asp Ile Tyr Asn Ala
            20                  25                  30

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

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

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

Asp Asp Val Gly Val Tyr Phe Cys Gln His Tyr Phe His Tyr Pro Arg
                85                  90                  95

Thr Phe Gly Pro Gly Thr Lys Leu Glu Ile Lys
            100                 105
```

<210> 4
<211> 122
<212> PRT

<213> Artificial Sequence

<220>
<223> heavy chain variable domain from felinised (HC derived from BAA32229.1)

<400> 4

```
Gln Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Ser Leu Thr Asn Asn
            20                  25                  30


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


Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60


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


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


Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
            100                 105                 110


Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120
```

<210> 5
<211> 217
<212> PRT
<213> Artificial Sequence

<220>
<223> full light chain from felinised

<400> 5

```
Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly
1               5                   10                  15


Glu Pro Ala Ser Ile Ser Cys Arg Ala Ser Glu Asp Ile Tyr Asn Ala
            20                  25                  30


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


Tyr Asn Thr Asp Thr Leu His Thr Gly Val Pro Asp Arg Phe Ser Gly
```

```
    50                  55                  60

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

Asp Asp Val Gly Val Tyr Phe Cys Gln His Tyr Phe His Tyr Pro Arg
                85                  90                  95

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

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

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

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

Glu Ser Thr Thr Glu Gln Asn Ser Lys Asp Ser Thr Tyr Ser Leu Ser
                165                 170                 175

Ser Thr Leu Thr Met Ser Arg Thr Glu Tyr Gln Ser His Glu Lys Phe
            180                 185                 190

Ser Cys Glu Val Thr His Lys Ser Leu Ala Ser Thr Leu Val Lys Ser
        195                 200                 205

Phe Asn Arg Ser Glu Cys Gln Arg Glu
    210                 215


<210>  6
<211>  457
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  full heavy chain from felinised (HC derived from BAA32229.1)

<400>  6

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

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Ser Leu Thr Asn Asn
            20                  25                  30

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

```
Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

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

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

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
            100                 105                 110

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

Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser Gly Ala Thr
    130                 135                 140

Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu Pro Val Thr
145                 150                 155                 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
                165                 170                 175

Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser Met Val Thr
            180                 185                 190

Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys Asn Val Ala
        195                 200                 205

His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg Lys Thr Asp
    210                 215                 220

His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys Pro Pro Pro
225                 230                 235                 240

Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro Lys Pro Lys
                245                 250                 255

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

Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp Phe Val Asp
        275                 280                 285

Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu Glu Gln Phe
```

```
    290                 295                 300

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu His Gln Asp
305                 310                 315                 320

Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser Lys Ser Leu
                325                 330                 335

Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Ala Lys Gly Gln Pro His
            340                 345                 350

Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu Leu Ser Arg
        355                 360                 365

Asn Lys Val Ser Val Thr Cys Leu Ile Lys Ser Phe His Pro Pro Asp
    370                 375                 380

Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro Glu Asn Asn
385                 390                 395                 400

Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr Tyr Phe Val
                405                 410                 415

Tyr Ser Lys Leu Ser Val Asp Arg Ser His Trp Gln Arg Gly Asn Thr
            420                 425                 430

Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His His Thr Gln
        435                 440                 445

Lys Ser Leu Thr Gln Ser Pro Gly Lys
    450                 455
```

<210> 7
<211> 457
<212> PRT
<213> Artificial Sequence

<220>
<223> aglycosylated full heavy chain from felinised (modified HC from BAA32229.1)

<400> 7

```
Gln Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Ser Leu Thr Asn Asn
            20                  25                  30

Asn Val Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
```

```
        35                  40                  45

Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

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

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

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
            100                 105                 110

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

Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser Gly Ala Thr
    130                 135                 140

Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu Pro Val Thr
145                 150                 155                 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
                165                 170                 175

Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser Met Val Thr
            180                 185                 190

Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys Asn Val Ala
        195                 200                 205

His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg Lys Thr Asp
    210                 215                 220

His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys Pro Pro Pro
225                 230                 235                 240

Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro Lys Pro Lys
                245                 250                 255

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

Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp Phe Val Asp
        275                 280                 285
```

```
Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu Glu Gln Phe
    290                 295                 300

Ala Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu His Gln Asp
305                 310                 315                 320

Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser Lys Ser Leu
                325                 330                 335

Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Ala Lys Gly Gln Pro His
            340                 345                 350

Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu Leu Ser Arg
        355                 360                 365

Asn Lys Val Ser Val Thr Cys Leu Ile Lys Ser Phe His Pro Pro Asp
    370                 375                 380

Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro Glu Asn Asn
385                 390                 395                 400

Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr Tyr Phe Val
                405                 410                 415

Tyr Ser Lys Leu Ser Val Asp Arg Ser His Trp Gln Arg Gly Asn Thr
            420                 425                 430

Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His His Thr Gln
        435                 440                 445

Lys Ser Leu Thr Gln Ser Pro Gly Lys
    450                 455


<210>  8
<211>  23
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Light chain FR1

<400>  8

Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val Thr Pro Gly
1               5                   10                  15

Glu Pro Ala Ser Ile Ser Cys
            20


<210>  9
```

<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Light chain FR2

<400> 9

Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Arg Arg Leu Ile Tyr
1 5 10 15

<210> 10
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Light chain FR3

<400> 10

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Arg Ile Ser Arg Val Glu Ala Asp Asp Val Gly Val Tyr Phe Cys
20 25 30

Gln

<210> 11
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Light chain FR4

<400> 11

Phe Gly Pro Gly Thr Lys Leu Glu Ile Lys
1 5 10

<210> 12
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy chain FR1

<400> 12

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

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Ser Leu Thr
20 25 30

<210> 13
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy chain FR2

<400> 13

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 14
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy chain FR3

<400> 14

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15

Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Thr Tyr Tyr Cys Ala Arg
20 25 30

<210> 15
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Heavy chain FR4

<400> 15

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> 16
<211> 457
<212> PRT
<213> Artificial Sequence

<220>
<223> Alternate full V+C heavy chain chimera (Chimeric anti-NGF alternate HC constant domain from BAA32230.1)

<400> 16

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

```
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Asn
            20                  25                  30

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

Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

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

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

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
            100                 105                 110

Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser Thr Thr Ala Pro
        115                 120                 125

Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser Gly Ala Thr
    130                 135                 140

Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu Pro Val Thr
145                 150                 155                 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
                165                 170                 175

Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser Met Val Thr
            180                 185                 190

Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys Asn Val Ala
        195                 200                 205

His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg Lys Thr Asp
    210                 215                 220

His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys Pro Pro Pro
225                 230                 235                 240

Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro Lys Pro Lys
                245                 250                 255

Asp Thr Leu Ser Ile Ser Arg Thr Pro Glu Val Thr Cys Leu Val Val
```

```
            260                 265                 270

Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp Phe Val Asp
        275                 280                 285

Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu Glu Gln Phe
    290                 295                 300

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu His Gln Asp
305                 310                 315                 320

Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser Lys Ser Leu
                325                 330                 335

Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Asp Lys Gly Gln Pro His
            340                 345                 350

Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu Leu Ser Arg
        355                 360                 365

Asn Lys Val Ser Val Thr Cys Leu Ile Glu Gly Phe Tyr Pro Ser Asp
    370                 375                 380

Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro Glu Asn Asn
385                 390                 395                 400

Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr Tyr Phe Leu
                405                 410                 415

Tyr Ser Arg Leu Ser Val Asp Arg Ser Arg Trp Gln Arg Gly Asn Thr
            420                 425                 430

Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His His Thr Gln
        435                 440                 445

Lys Ser Leu Thr Gln Ser Pro Gly Lys
    450                 455
```

<210> 17
<211> 457
<212> PRT
<213> Artificial Sequence

<220>
<223> Alternate full heavy chain from felinised (Felinised anti-NGF V domain fused to alternate HC constant domain from BAA32230.1)

<400> 17

```
Gln Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln Pro Gly Gly
```

```
1               5                   10                  15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Ser Leu Thr Asn Asn
            20                  25                  30

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

Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

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

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

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
            100                 105                 110

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

Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser Gly Ala Thr
    130                 135                 140

Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu Pro Val Thr
145                 150                 155                 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
                165                 170                 175

Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser Met Val Thr
            180                 185                 190

Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys Asn Val Ala
        195                 200                 205

His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg Lys Thr Asp
    210                 215                 220

His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys Pro Pro Pro
225                 230                 235                 240

Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro Lys Pro Lys
                245                 250                 255
```

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

Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp Phe Val Asp
        275                 280                 285

Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu Glu Gln Phe
    290                 295                 300

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu His Gln Asp
305                 310                 315                 320

Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser Lys Ser Leu
                325                 330                 335

Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Asp Lys Gly Gln Pro His
            340                 345                 350

Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu Leu Ser Arg
        355                 360                 365

Asn Lys Val Ser Val Thr Cys Leu Ile Glu Gly Phe Tyr Pro Ser Asp
    370                 375                 380

Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro Glu Asn Asn
385                 390                 395                 400

Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr Tyr Phe Leu
                405                 410                 415

Tyr Ser Arg Leu Ser Val Asp Arg Ser Arg Trp Gln Arg Gly Asn Thr
            420                 425                 430

Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His His Thr Gln
        435                 440                 445

Lys Ser Leu Thr Gln Ser Pro Gly Lys
    450                 455
```

<210> 18
<211> 457
<212> PRT
<213> Artificial Sequence

<220>
<223> Aglycosyl Alternate full heavy chain from felinised (Felinised anti-NGF V domain fused to alternate HC constant domain from BAA32230.1, with N-glycolylation site substituted)

<400> 18

```
Gln Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Gln Pro Gly Gly
1               5                  10                  15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Ser Leu Thr Asn Asn
            20                  25                  30

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

Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

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

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

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
            100                 105                 110

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

Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser Gly Ala Thr
    130                 135                 140

Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu Pro Val Thr
145                 150                 155                 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
                165                 170                 175

Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser Met Val Thr
            180                 185                 190

Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys Asn Val Ala
        195                 200                 205

His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg Lys Thr Asp
    210                 215                 220

His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys Pro Pro Pro
225                 230                 235                 240

Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro Lys Pro Lys
                245                 250                 255
```

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

Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp Phe Val Asp
        275                 280                 285

Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu Glu Gln Phe
    290                 295                 300

Ala Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu His Gln Asp
305                 310                 315                 320

Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser Lys Ser Leu
                325                 330                 335

Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Asp Lys Gly Gln Pro His
            340                 345                 350

Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu Leu Ser Arg
        355                 360                 365

Asn Lys Val Ser Val Thr Cys Leu Ile Glu Gly Phe Tyr Pro Ser Asp
    370                 375                 380

Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro Glu Asn Asn
385                 390                 395                 400

Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr Tyr Phe Leu
                405                 410                 415

Tyr Ser Arg Leu Ser Val Asp Arg Ser Arg Trp Gln Arg Gly Asn Thr
            420                 425                 430

Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His His Thr Gln
        435                 440                 445

Lys Ser Leu Thr Gln Ser Pro Gly Lys
    450                 455
```

<210> 19
<211> 457
<212> PRT
<213> Artificial Sequence

<220>
<223> Aglycosyl chimeric HC (derived from SEQ ID NO:2)

<400> 19

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

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

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

Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
    50                  55                  60

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

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

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
            100                 105                 110

Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser Thr Thr Ala Pro
        115                 120                 125

Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser Gly Ala Thr
    130                 135                 140

Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu Pro Val Thr
145                 150                 155                 160

Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
                165                 170                 175

Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser Met Val Thr
            180                 185                 190

Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys Asn Val Ala
        195                 200                 205

His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg Lys Thr Asp
    210                 215                 220

His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys Pro Pro Pro
225                 230                 235                 240

Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro Lys Pro Lys
                245                 250                 255
```

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

Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp Phe Val Asp
        275                 280                 285

Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu Glu Gln Phe
    290                 295                 300

Ala Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu His Gln Asp
305                 310                 315                 320

Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser Lys Ser Leu
                325                 330                 335

Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Ala Lys Gly Gln Pro His
            340                 345                 350

Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu Leu Ser Arg
        355                 360                 365

Asn Lys Val Ser Val Thr Cys Leu Ile Lys Ser Phe His Pro Pro Asp
    370                 375                 380

Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro Glu Asn Asn
385                 390                 395                 400

Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr Tyr Phe Val
                405                 410                 415

Tyr Ser Lys Leu Ser Val Asp Arg Ser His Trp Gln Arg Gly Asn Thr
            420                 425                 430

Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His His Thr Gln
        435                 440                 445

Lys Ser Leu Thr Gln Ser Pro Gly Lys
    450                 455
```

<210> 20
<211> 237
<212> PRT
<213> Artificial Sequence

<220>
<223> light chain of chimeric feline-rat antibody with leader sequence

<400> 20

```
Met Gly Val Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp Ile Thr
1               5                  10                  15

Asp Ala Ile Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
            20                  25                  30

Ala Ser Leu Gly Glu Thr Val Thr Ile Glu Cys Arg Ala Ser Glu Asp
        35                  40                  45

Ile Tyr Asn Ala Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro
    50                  55                  60

Gln Leu Leu Ile Tyr Asn Thr Asp Thr Leu His Thr Gly Val Pro Ser
65                  70                  75                  80

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

Ser Leu Gln Ser Glu Asp Val Ala Ser Tyr Phe Cys Gln His Tyr Phe
            100                 105                 110

His Tyr Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys Arg
        115                 120                 125

Ser Asp Ala Gln Pro Ser Val Phe Leu Phe Gln Pro Ser Leu Asp Glu
    130                 135                 140

Leu His Thr Gly Ser Ala Ser Ile Val Cys Ile Leu Asn Asp Phe Tyr
145                 150                 155                 160

Pro Lys Glu Val Asn Val Lys Trp Lys Val Asp Gly Val Val Gln Thr
                165                 170                 175

Lys Ala Ser Lys Glu Ser Thr Thr Glu Gln Asn Ser Lys Asp Ser Thr
            180                 185                 190

Tyr Ser Leu Ser Ser Thr Leu Thr Met Ser Arg Thr Glu Tyr Gln Ser
        195                 200                 205

His Glu Lys Phe Ser Cys Glu Val Thr His Lys Ser Leu Ala Ser Thr
    210                 215                 220

Leu Val Lys Ser Phe Asn Arg Ser Glu Cys Gln Arg Glu
225                 230                 235
```

<210> 21
<211> 476

<212> PRT
<213> Artificial Sequence

<220>
<223> heavy chain of chimeric feline-rat antibody with leader sequence

<400> 21

```
Met Ala Val Leu Val Leu Leu Leu Cys Leu Val Thr Phe Pro Thr Cys
1               5                  10                  15


Val Leu Ser Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Gln
            20                  25                  30


Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Leu
        35                  40                  45


Thr Asn Asn Asn Val Asn Trp Val Arg Gln Ala Thr Gly Arg Gly Leu
    50                  55                  60


Glu Trp Met Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser
65                  70                  75                  80


Ala Leu Lys Ser Arg Leu Thr Ile Thr Arg Asp Thr Ser Lys Ser Gln
                85                  90                  95


Val Phe Leu Lys Met His Ser Leu Gln Ser Glu Asp Thr Ala Thr Tyr
            100                 105                 110


Tyr Cys Ala Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met
        115                 120                 125


Asp Ala Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser Thr
    130                 135                 140


Thr Ala Pro Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser
145                 150                 155                 160


Gly Ala Thr Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu
                165                 170                 175


Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
            180                 185                 190


Thr Phe Pro Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser
        195                 200                 205


Met Val Thr Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys
    210                 215                 220
```

```
Asn Val Ala His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg
225                 230                 235                 240

Lys Thr Asp His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys
                245                 250                 255

Pro Pro Pro Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro
            260                 265                 270

Lys Pro Lys Asp Thr Leu Ser Ile Ser Arg Thr Pro Glu Val Thr Cys
        275                 280                 285

Leu Val Val Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp
    290                 295                 300

Phe Val Asp Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu
305                 310                 315                 320

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu
                325                 330                 335

His Gln Asp Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser
            340                 345                 350

Lys Ser Leu Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Ala Lys Gly
        355                 360                 365

Gln Pro His Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu
    370                 375                 380

Leu Ser Arg Asn Lys Val Ser Val Thr Cys Leu Ile Lys Ser Phe His
385                 390                 395                 400

Pro Pro Asp Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro
                405                 410                 415

Glu Asn Asn Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr
            420                 425                 430

Tyr Phe Val Tyr Ser Lys Leu Ser Val Asp Arg Ser His Trp Gln Arg
        435                 440                 445

Gly Asn Thr Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His
    450                 455                 460

His Thr Gln Lys Ser Leu Thr Gln Ser Pro Gly Lys
465                 470                 475
```

<210> 22
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> alternative felinised anti-NGF VH heavy chain (feN2-VH)

<400> 22

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

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Ser Leu Thr Asn Asn
20 25 30

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

Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys
50 55 60

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

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

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ala
115 120

<210> 23
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Alternative felinised anti-NGF Vk light chain (feN2-Vk)

<400> 23

Asp Ile Glu Met Thr Gln Ser Pro Leu Ser Leu Ser Val Thr Pro Gly
1 5 10 15

Glu Ser Val Ser Ile Ser Cys Arg Ala Ser Glu Asp Ile Tyr Asn Ala
20 25 30

Leu Ala Trp Tyr Leu Gln Lys Pro Gly Arg Ser Pro Arg Leu Leu Ile

```
        35                  40                  45

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

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

Glu Asp Val Gly Val Tyr Phe Cys Gln His Tyr Phe His Tyr Pro Arg
                85                  90                  95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Leu Lys
            100                 105
```

<210> 24
<211> 476
<212> PRT
<213> Artificial Sequence

<220>
<223> Alternative complete feline anti-NGF IgG heavy chain (feN2-HC2)

<400> 24

```
Met Ala Val Leu Val Leu Leu Leu Cys Leu Val Thr Phe Pro Thr Cys
1               5                   10                  15

Val Leu Ser Gln Val Gln Leu Val Glu Ser Gly Ala Glu Leu Val Gln
            20                  25                  30

Pro Gly Glu Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Phe Ser Leu
        35                  40                  45

Thr Asn Asn Asn Val Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
    50                  55                  60

Glu Trp Met Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser
65                  70                  75                  80

Ala Leu Lys Ser Arg Leu Thr Ile Thr Arg Asp Thr Ser Lys Asn Thr
                85                  90                  95

Val Phe Leu Gln Met His Ser Leu Gln Ser Glu Asp Thr Ala Thr Tyr
            100                 105                 110

Tyr Cys Ala Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met
        115                 120                 125

Asp Ala Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ala Ala Ser Thr
    130                 135                 140
```

```
Thr Ala Pro Ser Val Phe Pro Leu Ala Pro Ser Cys Gly Thr Thr Ser
145                 150                 155                 160

Gly Ala Thr Val Ala Leu Ala Cys Leu Val Leu Gly Tyr Phe Pro Glu
                165                 170                 175

Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
            180                 185                 190

Thr Phe Pro Ala Val Leu Gln Ala Ser Gly Leu Tyr Ser Leu Ser Ser
        195                 200                 205

Met Val Thr Val Pro Ser Ser Arg Trp Leu Ser Asp Thr Phe Thr Cys
    210                 215                 220

Asn Val Ala His Pro Pro Ser Asn Thr Lys Val Asp Lys Thr Val Arg
225                 230                 235                 240

Lys Thr Asp His Pro Pro Gly Pro Lys Pro Cys Asp Cys Pro Lys Cys
                245                 250                 255

Pro Pro Pro Glu Met Leu Gly Gly Pro Ser Ile Phe Ile Phe Pro Pro
            260                 265                 270

Lys Pro Lys Asp Thr Leu Ser Ile Ser Arg Thr Pro Glu Val Thr Cys
        275                 280                 285

Leu Val Val Asp Leu Gly Pro Asp Asp Ser Asp Val Gln Ile Thr Trp
    290                 295                 300

Phe Val Asp Asn Thr Gln Val Tyr Thr Ala Lys Thr Ser Pro Arg Glu
305                 310                 315                 320

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Pro Ile Leu
                325                 330                 335

His Gln Asp Trp Leu Lys Gly Lys Glu Phe Lys Cys Lys Val Asn Ser
            340                 345                 350

Lys Ser Leu Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Ala Lys Gly
        355                 360                 365

Gln Pro His Glu Pro Gln Val Tyr Val Leu Pro Pro Ala Gln Glu Glu
    370                 375                 380

Leu Ser Arg Asn Lys Val Ser Val Thr Cys Leu Ile Lys Ser Phe His
```

385 390 395 400

Pro Pro Asp Ile Ala Val Glu Trp Glu Ile Thr Gly Gln Pro Glu Pro
405 410 415

Glu Asn Asn Tyr Arg Thr Thr Pro Pro Gln Leu Asp Ser Asp Gly Thr
420 425 430

Tyr Phe Val Tyr Ser Lys Leu Ser Val Asp Arg Ser His Trp Gln Arg
435 440 445

Gly Asn Thr Tyr Thr Cys Ser Val Ser His Glu Ala Leu His Ser His
450 455 460

His Thr Gln Lys Ser Leu Thr Gln Ser Pro Gly Lys
465 470 475

<210> 25
<211> 237
<212> PRT
<213> Artificial Sequence

<220>
<223> Alternative complete feline anti-NGF IgG kappa light chain (feN2-kLC)

<400> 25

Met Gly Val Pro Thr Gln Leu Leu Gly Leu Leu Leu Leu Trp Ile Thr
1 5 10 15

Asp Ala Ile Cys Asp Ile Glu Met Thr Gln Ser Pro Leu Ser Leu Ser
20 25 30

Val Thr Pro Gly Glu Ser Val Ser Ile Ser Cys Arg Ala Ser Glu Asp
35 40 45

Ile Tyr Asn Ala Leu Ala Trp Tyr Leu Gln Lys Pro Gly Arg Ser Pro
50 55 60

Arg Leu Leu Ile Tyr Asn Thr Asp Thr Leu His Thr Gly Val Pro Asp
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser
85 90 95

Arg Val Gln Thr Glu Asp Val Gly Val Tyr Phe Cys Gln His Tyr Phe
100 105 110

His Tyr Pro Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Leu Lys Arg

```
        115                 120                 125

Ser Asp Ala Gln Pro Ser Val Phe Leu Phe Gln Pro Ser Leu Asp Glu
    130                 135                 140

Leu His Thr Gly Ser Ala Ser Ile Val Cys Ile Leu Asn Asp Phe Tyr
145                 150                 155                 160

Pro Lys Glu Val Asn Val Lys Trp Lys Val Asp Gly Val Val Gln Thr
                165                 170                 175

Lys Ala Ser Lys Glu Ser Thr Thr Glu Gln Asn Ser Lys Asp Ser Thr
            180                 185                 190

Tyr Ser Leu Ser Ser Thr Leu Thr Met Ser Arg Thr Glu Tyr Gln Ser
        195                 200                 205

His Glu Lys Phe Ser Cys Glu Val Thr His Lys Ser Leu Ala Ser Thr
    210                 215                 220

Leu Val Lys Ser Phe Asn Arg Ser Glu Cys Gln Arg Glu
225                 230                 235


<210>  26
<211>  23
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  alternative light chain FR1 (feN2-kLC)

<400>  26

Asp Ile Glu Met Thr Gln Ser Pro Leu Ser Leu Ser Val Thr Pro Gly
1               5                   10                  15

Glu Ser Val Ser Ile Ser Cys
            20


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

<220>
<223>  alternative light chain FR2 (feN2-kLC)

<400>  27

Trp Tyr Leu Gln Lys Pro Gly Arg Ser Pro Arg Leu Leu Ile Tyr
1               5                   10                  15
```

<210> 28
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> alternative light chain FR3 (feN2-kLC)

<400> 28

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15

Leu Lys Ile Ser Arg Val Gln Thr Glu Asp Val Gly Val Tyr Phe Cys
20 25 30

<210> 29
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> alternative light chain FR4 (feN2-kLC)

<400> 29

Phe Gly Gln Gly Thr Lys Leu Glu Leu Lys
1 5 10

<210> 30
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> alternative heavy chain FR1 (feN2-VH)

<400> 30

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

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly
20 25

<210> 31
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> alternative heavy chain FR2 (feN2-VH)

<400> 31

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met Gly
1 5 10

<210> 32
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> alternative heavy chain FR3 (feN2-VH)

<400> 32

Arg Leu Thr Ile Thr Arg Asp Thr Ser Lys Asn Thr Val Phe Leu Gln
1 5 10 15

Met His Ser Leu Gln Ser Glu Asp Thr Ala Thr Tyr Tyr Cys Ala Arg
20 25 30

<210> 33
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> alternative heavy chain FR4 (feN2-VH)

<400> 33

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ala
1 5 10