SEQUENCE LISTING

<110> Singh, Sanjaya
Waterman, Alisa
Depla, Erik
Laeremans, Toon
Van Hoorick, Diane
Ververken, Cedric J

<120> CX3CR1-BINDING POLYPEPTIDES

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<150> 61/603,622

<151> 2012-02-27

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<170> PatentIn version 3.5

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

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

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

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

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

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<400> 3

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

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

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

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

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr

85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 4
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<400> 4

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

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<400> 5

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn

20 25 30

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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<400> 6

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asn Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

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<400> 7

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser
        115
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<400> 8

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asn Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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<400> 9

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

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<400> 10

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser
        115
```

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<400> 11

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Pro Pro Gly Lys Gln Arg Asp Leu
        35                  40                  45

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

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

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

Thr Ser Asp Gly Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly
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100 105 110

Thr Gln Val Thr Val Ser Ser
115

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<400> 12

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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<400> 13

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val

35 40 45

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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<400> 14

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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<400> 15

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asn Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser
        115
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<210> 16
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<400> 16

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

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

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

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 17
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<212> PRT
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<400> 17

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asn Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 18
<211> 118
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<400> 18

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Phe Gly Lys Gln Arg Asp Leu Val
35 40 45

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 19
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<400> 19

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Phe Gly Lys Gln Arg Asp Leu Val
35 40 45

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser

115

<210> 20
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<400> 20

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 21
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<400> 21

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

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

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

Ala Ala Ile Asn Ser Val Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys

50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 22
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<400> 22

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 23
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<212> PRT
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<400> 23

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 24
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<212> PRT
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<220>
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<400> 24

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

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

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

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

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

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

```
Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser
        115
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<210> 25
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<400> 25

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

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

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

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser
        115
```

<210> 26
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<212> PRT
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<220>
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<400> 26

```
Glu Val Gln Leu Val Glu Ser Arg Gly Gly Ser Val Gln Ala Gly Glu
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
            20                  25                  30
```

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

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 27
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 27

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

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

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

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 28

<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 28

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Leu Gly Lys Gln Arg Asp Leu Val
        35                  40                  45

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asn Thr Lys Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser
        115
```

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

<220>
<223> Nanobody sequence

<400> 29

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

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

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

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

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val His Leu
```

65 70 75 80

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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

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<400> 30

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

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

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

Ala Gly Ile Asn Ser Val Gly Ile Ala Lys Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

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<212> PRT
<213> Artificial Sequence

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<223> Nanobody sequence

<400> 31

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu

1 5 10 15

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 32
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 32

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 33
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 33

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 34
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 34

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 35
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 35

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

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

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

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 36
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 36

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

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

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

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 37
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 37

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

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

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

Ala Gly Ile Asn Ser Val Asp Ile Thr Arg Tyr Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr

85 90 95

Ser Asp Pro Arg Arg Gly Trp Asn Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 38
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 38

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 39
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 39

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn

20 25 30

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 40
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 40

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 41
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 41

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 42
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 42

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Leu Gly Lys Gln Arg Asp Leu Val
35 40 45

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 43
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 43

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 44
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 44

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Leu Gly Lys Gln Arg Asp Leu Val
35 40 45

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 45
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 45

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asn Thr Arg Tyr Trp Gly Gln Gly Thr

100 105 110

Leu Val Thr Val Ser Ser
115

<210> 46
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 46

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

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

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

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 47
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 47

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val

35 40 45

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

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

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

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 48
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 48

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

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

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

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

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

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

Ser Asp Gly Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 49
<211> 120
<212> PRT

<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 49

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

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

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

Ala Gly Ile Ser Gly Ser Ala Ser Arg Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 50
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 50

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

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

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Arg Glu Arg Ala Phe Val
35 40 45

Ala Gly Ile Ser Gly Ser Ala Ser Arg Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 51
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 51

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

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

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

Ala Gly Ile Ser Gly Ser Gly Ser Arg Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 52
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 52

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

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

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

Ala Gly Ile Ser Gly Ser Gly Ser Arg Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 53
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 53

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

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

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

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

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

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

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Ala
100 105 110

Gln Val Thr Val Ser Ser

115

<210> 54
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 54

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Ser Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 55
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 55

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

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

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

Ala Ser Ile Ser Asn Ser Gly Ser Thr Asn Tyr Ala Asp Ser Ala Lys

50 55 60

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 56
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 56

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

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

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Pro Val Thr Val Ser Ser
115

<210> 57
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 57

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

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

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 58
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 58

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

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

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

Ala Ser Ile Ser Ser Thr Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Pro Val Thr Val Ser Ser
115

<210> 59
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 59

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Ser Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 60
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 60

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

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

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

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

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

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

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 61
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 61

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 62

<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 62

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser
        115
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<210> 63
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 63

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

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

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

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

Gly Arg Phe Thr Val Ser Arg Asp Asn Asp Lys Ser Thr Gly Tyr Leu
```

65 70 75 80

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 64
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 64

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 65
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 65

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

1 5 10 15

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

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

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

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

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
85 90 95

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 66
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 66

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 67
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 67

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 68
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 68

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 69
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 69

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

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

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

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

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

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

Ile Asp Gly Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 70
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 70

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 71
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 71

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

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

Ala Met Gly Trp Tyr Arg Gln Ala Leu Gly Lys Lys Arg Asp Leu Val
35 40 45

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

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr

85 90 95

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 72
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 72

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

Ser Leu Arg Leu Ser Cys Ala Thr Ser Lys Thr Ile Phe Arg Ser Asn
20 25 30

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 73
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 73

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

Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Ile Ile Phe Ser Asn Asn

20 25 30

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 74
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 74

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

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

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

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

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

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
85 90 95

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 75
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 75

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

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

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Pro Val Thr Val Ser Ser
115

<210> 76
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 76

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Ser Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Arg Val Thr Val Ser Ser
115

<210> 77
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 77

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 78
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 78

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser
        115


<210>  79
<211>  118
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Nanobody sequence

<400>  79

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

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

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

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

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

Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
                85                  90                  95

Leu Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
```

100 105 110

Gln Val Thr Val Ser Ser
115

<210> 80
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 80

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

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

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

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

Gly Arg Phe Thr Val Ser Arg Asp Asn Asp Arg Asn Thr Gly Tyr Leu
65 70 75 80

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 81
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 81

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

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

Ala Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Lys Arg Asp Leu Val

35 40 45

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 82
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 82

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

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

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

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

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

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

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 83
<211> 118
<212> PRT

<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 83

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

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

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

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

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

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

Ile Asp Gly Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 84
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 84

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

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

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

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

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

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

Ile Asp Gly Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 85
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 85

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 86
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 86

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

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

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

Ala Ser Ile Ser Asn Ser Gly Ser Ala Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 87
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 87

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

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

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

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

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

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
85 90 95

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser

115

<210> 88
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 88

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Phe Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 89
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 89

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

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

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

Ala Ser Ile Ser Ser Thr Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys

50 55 60

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Pro Val Thr Val Ser Ser
115

<210> 90
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 90

Glu Val Gln Leu Met Glu Ser Gly Gly Gly Met Val Gln Val Gly Gly
1 5 10 15

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

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

Ala Ser Ile Ser Ser Thr Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Pro Val Thr Val Ser Ser
115

<210> 91
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 91

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

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

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

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

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

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

Ile Asp Gly Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 92
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 92

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

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

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Pro Val Thr Val Ser Ser
115

<210> 93
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 93

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

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

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

Ala Ser Ile Ser Asn Ser Gly Ser Thr Asn His Ala Asp Ser Val Lys
50 55 60

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 94
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 94

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 95
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 95

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 96

<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 96

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Ser Gly Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser
        115
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<210> 97
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 97

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

Ser Leu Arg Leu Pro Cys Ala Thr Ser Lys Thr Ile Phe Arg Ser Asn
            20                  25                  30

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

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

Gly Arg Phe Thr Val Ser Arg Asp Asn Asp Lys Asn Thr Gly Tyr Leu
```

65 70 75 80

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 98
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 98

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

Ser Leu Arg Leu Ser Cys Ala Thr Ser Lys Thr Ile Phe Arg Ser Asn
20 25 30

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 99
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 99

Glu Val Gln Leu Met Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

1 5 10 15

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

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

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

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

Gln Met Ser Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
85 90 95

Leu Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 100
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 100

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

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

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

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

Gly Arg Phe Thr Val Ser Arg Asp Asn Asp Arg Asn Thr Val Tyr Leu
65 70 75 80

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 101
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 101

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

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

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

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

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

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
85 90 95

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 102
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 102

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 103
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 103

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

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

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

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

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

Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr Val
85 90 95

Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 104
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 104

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

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Ile Phe Arg Ser Asn
20 25 30

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 105
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 105

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

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

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

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

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

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr

85 90 95

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 106
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 106

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

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

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

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

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

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

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 107
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 107

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

Ser Leu Arg Leu Ser Cys Ala Thr Ser Lys Pro Ile Phe Arg Ser Asn

20 25 30

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 108
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 108

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

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

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

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

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

Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
85 90 95

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 109
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 109

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

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

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

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

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

Gln Met Asn Ser Pro Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
85 90 95

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 110
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 110

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

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

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Pro Val Thr Val Ser Ser
115

<210> 111
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 111

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 112
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 112

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

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

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Pro Val Thr Val Ser Ser
        115


<210>  113
<211>  118
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Nanobody sequence

<400>  113

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Leu Asp Asp Tyr
            20                  25                  30

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
```

100 105 110

Gln Val Thr Val Ser Ser
115

<210> 114
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 114

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

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

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

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

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 115
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 115

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

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

Ala Met Gly Trp Tyr Arg Gln Val Pro Gly Lys Lys Arg Asp Leu Val

35 40 45

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

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

Arg Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
85 90 95

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 116
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 116

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

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

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

Ala Ser Ile Ser Ser Thr Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ile Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Pro Val Thr Val Ser Ser
115

<210> 117
<211> 118
<212> PRT

<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 117

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

Ser Leu Arg Leu Ser Cys Ala Thr Ser Lys Thr Ile Phe Arg Ser Asn
20 25 30

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 118
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 118

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 119
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 119

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 120
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 120

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

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

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

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

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

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

Val Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser
115

<210> 121
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 121

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser

115

<210> 122
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 122

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 123
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 123

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

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

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

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys

50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 124
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 124

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 125
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 125

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 126
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 126

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 127
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 127

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 128
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 128

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 129
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 129

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 130

<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 130

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser
        115
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<210> 131
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<220>
<223> Nanobody sequence

<400> 131

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

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

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

Ala Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 132
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 132

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

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

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

Ala Ala Ile Gln Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 133
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
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<400> 133

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu

1 5 10 15

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

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

Ala Ala Ile Gly Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 134
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 134

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

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

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

Ala Ala Ile Thr Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 135
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
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<400> 135

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 136
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
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<400> 136

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 137
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
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<400> 137

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 138
<211> 118
<212> PRT
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<220>
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<400> 138

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

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

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

Ala Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 139
<211> 118
<212> PRT
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<220>
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<400> 139

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

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

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

Ala Ala Ile Ser Thr Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

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

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr

85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 140
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 140

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

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

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

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 141
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<220>
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<400> 141

Gly Ser Ile Phe Ser Ser Asn Ala Met Ala
1 5 10

<210> 142

<211> 10
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<213> Artificial Sequence

<220>
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<400> 142

Gly Thr Ile Phe Ser Ser Asn Ala Met Ala
1 5 10

<210> 143
<211> 10
<212> PRT
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<220>
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<400> 143

Gly Ser Ile Phe Ser Ser Asn Ala Lys Ala
1 5 10

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<220>
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<400> 144

Gly Ser Ile Phe Ser Arg Asn Ala Met Ala
1 5 10

<210> 145
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<400> 145

Gly Gly Ile Phe Ser Arg Asn Ala Met Ala
1 5 10

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<220>
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<400> 146

Gly Arg Thr Phe Ser Ser Tyr Ala Met Gly
1 5 10

<210> 147
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<220>
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<400> 147

Gly Thr Ile Phe Ser Asn Asn Ala Met Gly
1 5 10

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<220>
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<400> 148

Gly Thr Ile Phe Ser Asn Thr Ala Met Gly
1 5 10

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<400> 149

Gly Ile Ile Phe Ser Asn Asn Ala Met Gly
1 5 10

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<220>
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<400> 150

Arg Thr Ile Phe Arg Ser Asn Ala Met Gly
1 5 10

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<220>
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<400> 151

Gly Thr Ile Phe Arg Ser Asn Ala Met Gly

1 5 10

<210> 152
<211> 10
<212> PRT
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<220>
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<400> 152

Gly Thr Ile Phe Arg Thr Asn Ala Met Gly
1 5 10

<210> 153
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 153

Lys Thr Ile Phe Arg Ser Asn Ala Met Gly
1 5 10

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<211> 10
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<220>
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<400> 154

Gly Thr Thr Phe Arg Ser Asn Ala Met Gly
1 5 10

<210> 155
<211> 10
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<213> Artificial Sequence

<220>
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<400> 155

Ala Thr Ile Phe Arg Ser Asn Ala Met Gly
1 5 10

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<211> 10
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<220>
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<400> 156

Gly Leu Ile Phe Ser Asn Asn Ala Met Gly
1 5 10

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<211> 10
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<213> Artificial Sequence

<220>
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<400> 157

Gly Ser Ile Phe Arg Ser Asn Ala Met Gly
1 5 10

<210> 158
<211> 10
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<213> Artificial Sequence

<220>
<223> CDR sequence

<400> 158

Arg Thr Ile Phe Ser Asn Asn Ala Met Gly
1 5 10

<210> 159
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 159

Gly Thr Val Phe Ser Asn Asn Ala Met Gly
1 5 10

<210> 160
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<220>
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<400> 160

Lys Pro Ile Phe Arg Ser Asn Ala Met Gly
1 5 10

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<220>
<223> CDR sequence

<400> 161

Gly Leu Thr Leu Asp Asp Tyr Ala Met Gly
1 5 10

<210> 162
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<213> Artificial Sequence

<220>
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<400> 162

Ala Ile Asn Ser Val Gly Val Thr Lys
1 5

<210> 163
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<220>
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<400> 163

Val Ile Asn Ser Val Gly Ile Thr Lys
1 5

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<400> 164

Gly Ile Asn Ser Val Gly Ile Thr Lys
1 5

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<400> 165

Gly Ile Asn Ser Val Asp Ile Thr Lys
1 5

<210> 166
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<220>
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<400> 166

Ala Ile Asn Ser Val Gly Ile Thr Lys
1 5

<210> 167
<211> 9
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<220>
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<400> 167

Leu Ile Asn Ser Val Gly Ile Thr Lys
1 5

<210> 168
<211> 9
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<220>
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<400> 168

Val Ile Asn Thr Val Gly Ile Thr Lys
1 5

<210> 169
<211> 9
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<220>
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<400> 169

Leu Ile Asp Ser Ala Gly Ile Thr Lys
1 5

<210> 170
<211> 9
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<220>
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<400> 170

Gly Ile Asn Ser Val Gly Ile Ala Lys
1 5

<210> 171
<211> 9
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<220>
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<400> 171

Val Ile Asn Lys Val Gly Ile Thr Lys
1 5

<210> 172
<211> 9
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<220>
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<400> 172

Ser Ile Asn Ser Val Gly Ile Thr Lys
1 5

<210> 173
<211> 9
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<220>
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<400> 173

Gly Ile Asn Ser Val Asp Ile Thr Arg
1 5

<210> 174
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<400> 174

Ala Ile Asn Ser Val Gly Thr Thr Lys
1 5

<210> 175
<211> 9
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<220>
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<400> 175

Ser Ile Asp Ser Val Gly Ile Thr Lys
1 5

<210> 176

<211> 10
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<220>
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<400> 176

Gly Ile Ser Gly Ser Ala Ser Arg Lys Tyr
1 5 10

<210> 177
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<220>
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<400> 177

Gly Ile Ser Gly Ser Gly Ser Arg Lys Tyr
1 5 10

<210> 178
<211> 9
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<400> 178

Ser Ile Ser Ser Ser Gly Ser Thr Asn
1 5

<210> 179
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<220>
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<400> 179

Ser Ile Ser Asn Ser Gly Ser Thr Asn
1 5

<210> 180
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<400> 180

Ser Ile Gly Ser Thr Tyr Ser Thr Asn
1 5

<210> 181
<211> 9
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<400> 181

Ser Ile Ser Ser Thr Tyr Ser Thr Asn
1 5

<210> 182
<211> 9
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<220>
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<400> 182

Ser Ile Thr Asn Ser Gly Ser Thr Asn
1 5

<210> 183
<211> 9
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<220>
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<400> 183

Ser Ile Ser Asn Ser Gly Ser Ala Asn
1 5

<210> 184
<211> 9
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<220>
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<400> 184

Ser Ile Ser Ile Ser Gly Ser Thr Asn
1 5

<210> 185
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<220>
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<400> 185

Ser Ile Thr Asn Thr Gly Ser Thr Asn

1 5

<210> 186
<211> 10
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<220>
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<400> 186

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr
1 5 10

<210> 187
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<213> Artificial Sequence

<220>
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<400> 187

Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr
1 5 10

<210> 188
<211> 10
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<220>
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<400> 188

Asp Pro Arg Arg Gly Trp Asn Thr Arg Tyr
1 5 10

<210> 189
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<400> 189

Asp Gly Arg Arg Gly Trp Asp Thr Arg Tyr
1 5 10

<210> 190
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<220>
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<400> 190

Asp Ala Arg Arg Gly Trp Asn Thr Lys Tyr
1 5 10

<210> 191
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<220>
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<400> 191

Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr
1 5 10

<210> 192
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
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<400> 192

Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr
1 5 10

<210> 193
<211> 10
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<220>
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<400> 193

Asp Ala Arg Arg Gly Trp Asn Ser Gly Tyr
1 5 10

<210> 194
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<213> Artificial Sequence

<220>
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<400> 194

Asp Ala Arg Arg Gly Trp Asn Thr Gly Tyr
1 5 10

<210> 195
<211> 10
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<213> Artificial Sequence

<220>
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<400> 195

Asp Gly Arg Arg Gly Trp Asn Thr Gly Tyr
1 5 10

<210> 196
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<213> Artificial Sequence

<220>
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<400> 196

Asp Ala Arg Arg Gly Trp Asn Thr Gly Phe
1 5 10

<210> 197
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<220>
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<222> (2)..(2)
<223> X = Pro, Ala or Gly

<220>
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<223> X = Asp or Asn

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<220>
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<223> X = Arg, Lys, Ala or Gly

<220>
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<223> X = Tyr or Phe

<400> 197

Asp Xaa Arg Arg Gly Trp Xaa Xaa Xaa Xaa
1 5 10

<210> 198
<211> 25
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<220>
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<400> 198

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 199
<211> 25
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<220>
<223> Framework sequence

<400> 199

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 200
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<400> 200

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 201
<211> 25
<212> PRT
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<400> 201

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 202
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<212> PRT

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<220>
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<400> 202

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 203
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Framework sequence

<400> 203

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 204
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Framework sequence

<400> 204

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser
20 25

<210> 205
<211> 14
<212> PRT
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<220>
<223> Framework sequence

<400> 205

Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
1 5 10

<210> 206
<211> 14
<212> PRT

<213> Artificial Sequence

<220>
<223> Framework sequence

<400> 206

Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val Ala
1 5 10

<210> 207
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Framework sequence

<400> 207

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

<210> 208
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Framework sequence

<400> 208

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

<210> 209
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Framework sequence

<400> 209

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
1 5 10 15

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr
20 25 30

Ala Val Tyr Tyr Cys Thr Ser
35

<210> 210
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Framework sequence

<400> 210

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
1 5 10 15

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
20 25 30

Ala Val Tyr Tyr Cys Thr Ser
35

<210> 211
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<400> 211

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

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

<220>
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<400> 212

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

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

<220>
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<400> 213

Gly Ser Ile Phe Ser Ser Thr Ala Met Ala
1 5 10

<210> 214
<211> 9
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<220>
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<400> 214

Ala Ile Ser Ser Val Gly Val Thr Lys

1 5

<210> 215
<211> 9
<212> PRT
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<220>
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<400> 215

Ala Ile Gln Ser Val Gly Val Thr Lys
1 5

<210> 216
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<220>
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<400> 216

Ala Ile Gly Ser Val Gly Val Thr Lys
1 5

<210> 217
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<223> CDR sequence

<400> 217

Ala Ile Thr Ser Val Gly Val Thr Lys
1 5

<210> 218
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR sequence

<400> 218

Ala Ile Asn Thr Val Gly Val Thr Lys
1 5

<210> 219
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR sequence

<400> 219

Ala Ile Asn Gly Val Gly Val Thr Lys
1 5

<210> 220
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR sequence

<400> 220

Ala Ile Asn Pro Val Gly Val Thr Lys
1 5

<210> 221
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR sequence

<400> 221

Ala Ile Ser Thr Val Gly Val Thr Lys
1 5

<210> 222
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 222

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

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

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

Ala Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr

100 105 110

Leu Val Thr Val Ser Ser
115

<210> 223
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 223

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

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

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

Ala Ala Ile Ser Thr Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 224
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 224

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

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

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val

35 40 45

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

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

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

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 225
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 225

Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
115 120 125

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
130 135 140

```
Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly
145                 150                 155                 160

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
                165                 170                 175

Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
            180                 185                 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
        195                 200                 205

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
    210                 215                 220

Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val
225                 230                 235                 240

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
                245                 250                 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
            260                 265                 270

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala Met Ala Trp Tyr
        275                 280                 285

Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Ser Ser
    290                 295                 300

Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
305                 310                 315                 320

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
                325                 330                 335

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
            340                 345                 350

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
        355                 360                 365

Ser
```

<210> 226
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 226

```
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                  10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr
            20                  25                  30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
        35                  40                  45

Ala Ala Ile Ser Thr Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
        115                 120                 125

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
    130                 135                 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly
145                 150                 155                 160

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
                165                 170                 175

Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
            180                 185                 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
        195                 200                 205

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
    210                 215                 220

Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val
225                 230                 235                 240

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
                245                 250                 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
```

260 265 270

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala Met Ala Trp Tyr
275 280 285

Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Ser Thr
290 295 300

Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
305 310 315 320

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
325 330 335

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
340 345 350

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
355 360 365

Ser

<210> 227
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 227

Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

```
Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
        115                 120                 125

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
    130                 135                 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly
145                 150                 155                 160

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
                165                 170                 175

Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
            180                 185                 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
        195                 200                 205

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
    210                 215                 220

Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val
225                 230                 235                 240

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
                245                 250                 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
            260                 265                 270

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr
        275                 280                 285

Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Asn Ser
    290                 295                 300

Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
305                 310                 315                 320

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
                325                 330                 335

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
            340                 345                 350

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
        355                 360                 365

Ser
```

<210> 228
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> CX3CR1 N-terminal sequence

<400> 228

Met Asp Gln Phe Pro Glu Ser Val Thr Glu Asn Phe Glu Tyr Asp Asp
1 5 10 15

Leu Ala Glu Ala Cys
20

<210> 229
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> CX3CR1-EC3

<400> 229

Lys Leu Tyr Asp Phe Phe Pro Ser Cys Asp Met Arg Lys Asp Leu Arg
1 5 10 15

Leu

<210> 230
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 230

Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Ser Phe
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Glu Pro Glu Trp Val
35 40 45

Ser Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys

85 90 95

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Gln Val Thr
100 105 110

Val Ser Ser
115

<210> 231
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 231

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 232
<211> 117
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 232

Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Gly Gly Gly
1 5 10 15

Ser Leu Arg Leu Ala Cys Ala Ala Ser Glu Arg Ile Phe Asp Leu Asn

20 25 30

Leu Met Gly Trp Tyr Arg Gln Gly Pro Gly Asn Glu Arg Glu Leu Val
35 40 45

Ala Thr Cys Ile Thr Val Gly Asp Ser Thr Asn Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Met Asp Tyr Thr Lys Gln Thr Val Tyr
65 70 75 80

Leu His Met Asn Ser Leu Arg Pro Glu Asp Thr Gly Leu Tyr Tyr Cys
85 90 95

Lys Ile Arg Arg Thr Trp His Ser Glu Leu Trp Gly Gln Gly Thr Gln
100 105 110

Val Thr Val Ser Ser
115

<210> 233
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 233

Gly Gly Gly Gly Ser
1 5

<210> 234
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 234

Ser Gly Gly Ser Gly Gly Ser
1 5

<210> 235
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 235

Gly Gly Gly Gly Ser Gly Gly Gly Ser
1 5

<210> 236
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 236

Gly Gly Gly Gly Ser Gly Gly Gly Ser
1 5

<210> 237
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 237

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 238
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 238

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 239
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 239

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly
1 5 10 15

Gly Ser

<210> 240
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 240

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser
20

<210> 241
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 241

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25

<210> 242
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 242

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

<210> 243
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 243

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser
35

<210> 244
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 244

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10 15

<210> 245
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 245

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Pro Lys Ser Cys Asp Lys
1 5 10 15

Thr His Thr Cys Pro Pro Cys Pro
20

<210> 246
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 246

Glu Pro Lys Thr Pro Lys Pro Gln Pro Ala Ala Ala
1 5 10

<210> 247
<211> 62
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 247

Glu Leu Lys Thr Pro Leu Gly Asp Thr Thr His Thr Cys Pro Arg Cys
1 5 10 15

Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro
20 25 30

Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Glu
35 40 45

Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro
50 55 60

<210> 248
<211> 3
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker sequence

<400> 248

Ala Ala Ala
1

<210> 249
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 249

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
115 120 125

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
130 135 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly
145 150 155 160

```
Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
                165                 170                 175

Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
            180                 185                 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
        195                 200                 205

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
    210                 215                 220

Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val
225                 230                 235                 240

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
                245                 250                 255

Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser
            260                 265                 270

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr
        275                 280                 285

Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Asn Ser
    290                 295                 300

Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
305                 310                 315                 320

Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
                325                 330                 335

Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
            340                 345                 350

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
        355                 360                 365

Ser
```

<210> 250
<211> 223
<212> PRT
<213> Artificial Sequence

<220>
<223> Mouse Fc domain

<400> 250

```
Pro Pro Cys Lys Cys Pro Ala Pro Asn Leu Leu Gly Gly Pro Ser Val
```

1 5 10 15

Phe Ile Phe Pro Pro Lys Ile Lys Asp Val Leu Met Ile Ser Leu Ser
20 25 30

Pro Ile Val Thr Cys Val Val Val Ala Val Ser Glu Asp Asp Pro Asp
35 40 45

Val Gln Ile Ser Trp Phe Val Asn Asn Val Glu Val His Thr Ala Gln
50 55 60

Thr Gln Thr His Arg Glu Asp Tyr Asn Ser Thr Leu Arg Val Val Ser
65 70 75 80

Ala Leu Pro Ile Gln His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys
85 90 95

Cys Lys Val Asn Asn Lys Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile
100 105 110

Ser Lys Pro Lys Gly Ser Val Arg Ala Pro Gln Val Tyr Val Leu Pro
115 120 125

Pro Pro Glu Glu Glu Met Thr Lys Lys Gln Val Thr Leu Thr Cys Met
130 135 140

Val Thr Asp Phe Met Pro Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn
145 150 155 160

Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser
165 170 175

Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn
180 185 190

Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser Val Val His Glu Gly Leu
195 200 205

His Asn His His Thr Thr Lys Ser Phe Ser Arg Thr Pro Gly Lys
210 215 220

<210> 251
<211> 356
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody with Fc domain

<400> 251

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

```
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
        35                  40                  45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Gly Ser Pro Pro Cys Lys Cys Pro Ala Pro Asn Leu Leu
    130                 135                 140

Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys Ile Lys Asp Val Leu
145                 150                 155                 160

Met Ile Ser Leu Ser Pro Ile Val Thr Cys Val Val Val Ala Val Ser
                165                 170                 175

Glu Asp Asp Pro Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val Glu
            180                 185                 190

Val His Thr Ala Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser Thr
        195                 200                 205

Leu Arg Val Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met Ser
    210                 215                 220

Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Asp Leu Pro Ala Pro
225                 230                 235                 240

Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly Ser Val Arg Ala Pro Gln
                245                 250                 255

Val Tyr Val Leu Pro Pro Pro Glu Glu Glu Met Thr Lys Lys Gln Val
            260                 265                 270

Thr Leu Thr Cys Met Val Thr Asp Phe Met Pro Glu Asp Ile Tyr Val
        275                 280                 285
```

```
Glu Trp Thr Asn Asn Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr Glu
    290                 295                 300

Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu Arg
305                 310                 315                 320

Val Glu Lys Lys Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser Val
                325                 330                 335

Val His Glu Gly Leu His Asn His His Thr Thr Lys Ser Phe Ser Arg
            340                 345                 350

Thr Pro Gly Lys
        355


<210>  252
<211>  222
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Human Fc domain

<400>  252

Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly Pro Ser Val Phe
1               5                   10                  15

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
            20                  25                  30

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
        35                  40                  45

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
    50                  55                  60

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
65                  70                  75                  80

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
                85                  90                  95

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
            100                 105                 110

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
        115                 120                 125

Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
    130                 135                 140

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
```

145 150 155 160

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
165 170 175

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
180 185 190

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
195 200 205

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215 220

<210> 253
<211> 355
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody with Fc domain

<400> 253

Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly
130 135 140

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
145 150 155 160

```
Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
                165                 170                 175

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
            180                 185                 190

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
        195                 200                 205

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
    210                 215                 220

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
225                 230                 235                 240

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
                245                 250                 255

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
            260                 265                 270

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
        275                 280                 285

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
    290                 295                 300

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
305                 310                 315                 320

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
                325                 330                 335

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
            340                 345                 350

Pro Gly Lys
        355
```

<210> 254
<211> 355
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody with Fc domain

<400> 254

```
Asp Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr
```

```
            20                  25                  30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
        35                  40                  45

Ala Ala Ile Ser Thr Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Gly Ser Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly
    130                 135                 140

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
145                 150                 155                 160

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
                165                 170                 175

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
            180                 185                 190

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
        195                 200                 205

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
    210                 215                 220

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
225                 230                 235                 240

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
                245                 250                 255

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
            260                 265                 270

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
        275                 280                 285

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
```

290 295 300

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
305 310 315 320

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
325 330 335

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
340 345 350

Pro Gly Lys
355

<210> 255
<211> 355
<212> PRT
<213> Homo sapiens

<400> 255

Met Asp Gln Phe Pro Glu Ser Val Thr Glu Asn Phe Glu Tyr Asp Asp
1 5 10 15

Leu Ala Glu Ala Cys Tyr Ile Gly Asp Ile Val Val Phe Gly Thr Val
20 25 30

Phe Leu Ser Ile Phe Tyr Ser Val Ile Phe Ala Ile Gly Leu Val Gly
35 40 45

Asn Leu Leu Val Val Phe Ala Leu Thr Asn Ser Lys Lys Pro Lys Ser
50 55 60

Val Thr Asp Ile Tyr Leu Leu Asn Leu Ala Leu Ser Asp Leu Leu Phe
65 70 75 80

Val Ala Thr Leu Pro Phe Trp Thr His Tyr Leu Ile Asn Glu Lys Gly
85 90 95

Leu His Asn Ala Met Cys Lys Phe Thr Thr Ala Phe Phe Phe Ile Gly
100 105 110

Phe Phe Gly Ser Ile Phe Phe Ile Thr Val Ile Ser Ile Asp Arg Tyr
115 120 125

Leu Ala Ile Val Leu Ala Ala Asn Ser Met Asn Asn Arg Thr Val Gln
130 135 140

His Gly Val Thr Ile Ser Leu Gly Val Trp Ala Ala Ala Ile Leu Val
145 150 155 160

Ala Ala Pro Gln Phe Met Phe Thr Lys Gln Lys Glu Asn Glu Cys Leu
165 170 175

```
Gly Asp Tyr Pro Glu Val Leu Gln Glu Ile Trp Pro Val Leu Arg Asn
            180                 185                 190

Val Glu Thr Asn Phe Leu Gly Phe Leu Leu Pro Leu Leu Ile Met Ser
        195                 200                 205

Tyr Cys Tyr Phe Arg Ile Ile Gln Thr Leu Phe Ser Cys Lys Asn His
    210                 215                 220

Lys Lys Ala Lys Ala Ile Lys Leu Ile Leu Leu Val Val Ile Val Phe
225                 230                 235                 240

Phe Leu Phe Trp Thr Pro Tyr Asn Val Met Ile Phe Leu Glu Thr Leu
                245                 250                 255

Lys Leu Tyr Asp Phe Phe Pro Ser Cys Asp Met Arg Lys Asp Leu Arg
            260                 265                 270

Leu Ala Leu Ser Val Thr Glu Thr Val Ala Phe Ser His Cys Cys Leu
        275                 280                 285

Asn Pro Leu Ile Tyr Ala Phe Ala Gly Glu Lys Phe Arg Arg Tyr Leu
    290                 295                 300

Tyr His Leu Tyr Gly Lys Cys Leu Ala Val Leu Cys Gly Arg Ser Val
305                 310                 315                 320

His Val Asp Phe Ser Ser Ser Glu Ser Gln Arg Ser Arg His Gly Ser
                325                 330                 335

Val Leu Ser Ser Asn Phe Thr Tyr His Thr Ser Asp Gly Asp Ala Leu
            340                 345                 350

Leu Leu Leu
        355
```

<210> 256
<211> 355
<212> PRT
<213> Macaca fascicularis

<400> 256

```
Met Asp Pro Phe Pro Glu Ser Val Thr Glu Asn Phe Glu Tyr Asp Asp
1               5                   10                  15

Ser Ala Glu Ala Cys Tyr Ile Gly Asp Ile Val Ala Phe Gly Thr Val
            20                  25                  30

Phe Leu Ser Ile Phe Tyr Ser Val Val Phe Ala Ile Gly Leu Val Gly
        35                  40                  45
```

```
Asn Leu Leu Val Val Phe Ala Leu Thr Asn Ser Lys Lys Pro Lys Ser
    50                  55                  60

Val Thr Asp Ile Tyr Leu Leu Asn Leu Ala Leu Ser Asp Leu Leu Phe
65                  70                  75                  80

Val Ala Thr Leu Pro Phe Trp Thr His Tyr Val Ile Asn Glu Glu Gly
                85                  90                  95

Leu Gln Asn Ala Met Cys Lys Phe Thr Thr Ala Phe Phe Phe Ile Gly
            100                 105                 110

Phe Phe Gly Ser Ile Phe Phe Ile Thr Ile Ile Ser Ile Asp Arg Tyr
        115                 120                 125

Leu Ala Ile Val Leu Ala Ala Asn Ser Met Asn Asn Arg Thr Val Gln
    130                 135                 140

His Gly Val Thr Ile Ser Leu Gly Val Trp Ala Ala Ala Ile Leu Val
145                 150                 155                 160

Ala Ala Pro Gln Phe Met Phe Thr Lys Gln Lys Glu Asn Glu Cys Leu
                165                 170                 175

Gly Asp Tyr Pro Glu Val Leu Gln Glu Ile Trp Pro Val Leu Arg Asn
            180                 185                 190

Val Glu Ala Asn Phe Leu Gly Phe Leu Leu Pro Leu Leu Ile Met Ser
        195                 200                 205

Tyr Cys Tyr Phe Arg Ile Ile Gln Thr Leu Phe Ser Cys Lys Asn His
    210                 215                 220

Lys Lys Ala Lys Ala Ile Lys Leu Ile Leu Leu Val Val Val Val Phe
225                 230                 235                 240

Phe Leu Phe Trp Thr Pro Tyr Asn Val Met Ile Phe Leu Glu Thr Leu
                245                 250                 255

Lys Leu Tyr Asp Phe Phe Pro Ser Cys Asp Met Arg Arg Asp Leu Arg
            260                 265                 270

Leu Ala Leu Ser Val Thr Glu Thr Val Ala Phe Ser His Cys Cys Leu
        275                 280                 285

Asn Pro Leu Ile Tyr Ala Phe Ala Gly Glu Lys Phe Arg Arg Tyr Leu
    290                 295                 300

Tyr His Leu Tyr Gly Lys Cys Leu Ala Val Leu Cys Gly Arg Ser Val
305                 310                 315                 320
```

```
His Val Asp Phe Ser Pro Ser Glu Ser Gln Arg Ser Arg Gln Gly Ser
                325                 330                 335

Val Leu Ser Ser Asn Phe Thr Tyr His Thr Ser Asp Gly Asp Ala Ser
            340                 345                 350

Leu Leu Leu
        355
```

<210> 257
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 257

```
Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr
            20                  25                  30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
        35                  40                  45

Ala Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
        115                 120                 125

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
    130                 135                 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly
145                 150                 155                 160

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
                165                 170                 175

Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
```

180 185 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
195 200 205

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
210 215 220

Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val
225 230 235 240

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
245 250 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
260 265 270

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala Met Ala Trp Tyr
275 280 285

Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Ser Ser
290 295 300

Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
305 310 315 320

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
325 330 335

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
340 345 350

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
355 360 365

Ser

<210> 258
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 258

Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr
20 25 30

```
Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
        35                  40                  45

Ala Ala Ile Ser Thr Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
        115                 120                 125

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
    130                 135                 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly
145                 150                 155                 160

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
                165                 170                 175

Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
            180                 185                 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
        195                 200                 205

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
    210                 215                 220

Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val
225                 230                 235                 240

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
                245                 250                 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
            260                 265                 270

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala Met Ala Trp Tyr
        275                 280                 285

Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Ser Thr
    290                 295                 300
```

Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
305 310 315 320

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
325 330 335

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
340 345 350

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
355 360 365

Ser

<210> 259
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 259

Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
115 120 125

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
130 135 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly

145 150 155 160

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
165 170 175

Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
180 185 190

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
195 200 205

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
210 215 220

Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val
225 230 235 240

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
245 250 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
260 265 270

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr
275 280 285

Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Asn Ser
290 295 300

Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
305 310 315 320

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
325 330 335

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
340 345 350

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
355 360 365

Ser

<210> 260
<211> 368
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 260

```
Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
1               5                  10                  15

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala
            20                  25                  30

Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
        35                  40                  45

Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly
    50                  55                  60

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln
65                  70                  75                  80

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser
                85                  90                  95

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
        115                 120                 125

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu
    130                 135                 140

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly Met
145                 150                 155                 160

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
                165                 170                 175

Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly
            180                 185                 190

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln
        195                 200                 205

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile
    210                 215                 220

Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val Ser
225                 230                 235                 240

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
                245                 250                 255

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
            260                 265                 270
```

Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala Met Ala Trp Tyr Arg
275 280 285

Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Ser Ser Val
290 295 300

Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
305 310 315 320

Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg
325 330 335

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg Gly
340 345 350

Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
355 360 365

<210> 261
<211> 368
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 261

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
1 5 10 15

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala
20 25 30

Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
35 40 45

Ala Ile Ser Thr Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln
65 70 75 80

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser
85 90 95

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
115 120 125

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu

130 135 140

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly Met
145 150 155 160

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
165 170 175

Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly
180 185 190

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln
195 200 205

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile
210 215 220

Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val Ser
225 230 235 240

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
245 250 255

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
260 265 270

Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala Met Ala Trp Tyr Arg
275 280 285

Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Ser Thr Val
290 295 300

Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
305 310 315 320

Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg
325 330 335

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg Gly
340 345 350

Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
355 360 365

<210> 262
<211> 368
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 262

```
Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
1               5                  10                  15

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala
            20                  25                  30

Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
        35                  40                  45

Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly
    50                  55                  60

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln
65                  70                  75                  80

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser
                85                  90                  95

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
        115                 120                 125

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu
    130                 135                 140

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly Met
145                 150                 155                 160

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
                165                 170                 175

Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly
            180                 185                 190

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln
        195                 200                 205

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile
    210                 215                 220

Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val Ser
225                 230                 235                 240

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
                245                 250                 255

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
            260                 265                 270
```

Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr Arg
275 280 285

Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Asn Ser Val
290 295 300

Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
305 310 315 320

Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg
325 330 335

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg Gly
340 345 350

Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
355 360 365

<210> 263
<211> 355
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 263

Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly

130 135 140

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
145 150 155 160

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
165 170 175

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
180 185 190

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
195 200 205

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
210 215 220

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
225 230 235 240

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
245 250 255

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
260 265 270

Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
275 280 285

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
290 295 300

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
305 310 315 320

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
325 330 335

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
340 345 350

Pro Gly Lys
355

<210> 264
<211> 355
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 264

```
Ala Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                  10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr
            20                  25                  30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
        35                  40                  45

Ala Ala Ile Ser Thr Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Gly Ser Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly
    130                 135                 140

Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
145                 150                 155                 160

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
                165                 170                 175

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
            180                 185                 190

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
        195                 200                 205

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
    210                 215                 220

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
225                 230                 235                 240

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
                245                 250                 255

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
            260                 265                 270
```

```
Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
        275                 280                 285

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
    290                 295                 300

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
305                 310                 315                 320

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
                325                 330                 335

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
            340                 345                 350

Pro Gly Lys
        355
```

<210> 265
<211> 354
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 265

```
Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
1               5                   10                  15

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala
            20                  25                  30

Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
        35                  40                  45

Ala Ile Ser Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly
    50                  55                  60

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln
65                  70                  75                  80

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser
                85                  90                  95

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
        115                 120                 125

Gly Gly Gly Ser Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
```

130 135 140

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
145 150 155 160

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
165 170 175

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
180 185 190

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
195 200 205

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
210 215 220

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
225 230 235 240

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
245 250 255

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
260 265 270

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
275 280 285

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
290 295 300

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
305 310 315 320

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
325 330 335

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
340 345 350

Gly Lys

<210> 266
<211> 354
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 266

```
Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
1               5                  10                  15

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Thr Ala
            20                  25                  30

Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
        35                  40                  45

Ala Ile Ser Thr Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly
    50                  55                  60

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln
65                  70                  75                  80

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser
                85                  90                  95

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
        115                 120                 125

Gly Gly Gly Ser Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Gly
    130                 135                 140

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
145                 150                 155                 160

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
                165                 170                 175

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
            180                 185                 190

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
        195                 200                 205

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
    210                 215                 220

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
225                 230                 235                 240

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
                245                 250                 255

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
            260                 265                 270
```

Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
275 280 285

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
290 295 300

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
305 310 315 320

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
325 330 335

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
340 345 350

Gly Lys

<210> 267
<211> 273
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 267

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Arg Thr Phe Ser Ser Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Ala Phe Val
35 40 45

Ala Gly Ile Ser Gly Ser Ala Ser Arg Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly

130 135 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Lys Val Gln Leu Val
145 150 155 160

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
165 170 175

Cys Ala Thr Ser Gly Thr Ile Phe Ser Asn Asn Ala Met Gly Trp Tyr
180 185 190

Arg Gln Ala Pro Gly Lys Lys Arg Asp Leu Val Ala Ser Ile Ser Ser
195 200 205

Ser Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Val
210 215 220

Ser Arg Asp Asn Asp Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu
225 230 235 240

Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr Leu Asp Ala Arg Arg
245 250 255

Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Ala Gln Val Thr Val Ser
260 265 270

Ser

<210> 268
<211> 273
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 268

Lys Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Thr Ile Phe Ser Asn Asn
20 25 30

Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Lys Arg Asp Leu Val
35 40 45

Ala Ser Ile Ser Ser Ser Gly Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Val Ser Arg Asp Asn Asp Lys Asn Thr Gly Tyr Leu
65 70 75 80

```
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Gly Val Tyr Tyr Cys Thr
                85                  90                  95

Leu Asp Ala Arg Arg Gly Trp Asn Thr Ala Tyr Trp Gly Gln Gly Ala
            100                 105                 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
    130                 135                 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
145                 150                 155                 160

Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Val
                165                 170                 175

Ala Ser Gly Arg Thr Phe Ser Ser Tyr Ala Met Gly Trp Phe Arg Gln
            180                 185                 190

Ala Pro Gly Lys Glu Arg Ala Phe Val Ala Gly Ile Ser Gly Ser Ala
        195                 200                 205

Ser Arg Lys Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Val Ser
    210                 215                 220

Arg Asp Asn Ala Arg Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys
225                 230                 235                 240

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ser Asn Ser Tyr Pro
                245                 250                 255

Lys Val Gln Phe Asp Tyr Tyr Gly Gln Gly Thr Gln Val Thr Val Ser
            260                 265                 270

Ser
```

<210> 269
<211> 271
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 269

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
```

20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
35 40 45

Ala Gly Ile Asn Ser Val Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Lys Val Gln Leu Val Glu Ser
145 150 155 160

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
165 170 175

Thr Ser Gly Thr Ile Phe Ser Asn Asn Ala Met Gly Trp Tyr Arg Gln
180 185 190

Ala Pro Gly Lys Lys Arg Asp Leu Val Ala Ser Ile Ser Ser Ser Gly
195 200 205

Ser Thr Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Val Ser Arg
210 215 220

Asp Asn Asp Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu Lys Pro
225 230 235 240

Glu Asp Thr Gly Val Tyr Tyr Cys Thr Leu Asp Ala Arg Arg Gly Trp
245 250 255

Asn Thr Ala Tyr Trp Gly Gln Gly Ala Gln Val Thr Val Ser Ser
260 265 270

<210> 270
<211> 271
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 270

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1               5                  10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
        35                  40                  45

Ala Val Ile Asn Ser Val Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Gly Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Ala Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
    130                 135                 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
145                 150                 155                 160

Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser Cys Ala
                165                 170                 175

Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr Arg Gln
            180                 185                 190

Ala Pro Gly Lys Gln Arg Asp Leu Val Ala Val Ile Asn Ser Val Gly
        195                 200                 205

Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Gly
    210                 215                 220

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
225                 230                 235                 240

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Ala Arg Arg Gly Trp
                245                 250                 255
```

Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
260 265 270

<210> 271
<211> 273
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 271

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Pro Gly Lys Gln Arg Asp Leu
35 40 45

Val Ala Leu Ile Asn Ser Val Gly Ile Thr Lys Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr
65 70 75 80

Leu Glu Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Thr Ser Asp Gly Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
130 135 140

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu
145 150 155 160

Ser Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser Cys
165 170 175

Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr Arg
180 185 190

Gln Ala Pro Pro Gly Lys Gln Arg Asp Leu Val Ala Leu Ile Asn Ser
195 200 205

Val Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile

210 215 220

Ser Ser Asp Asn Ala Lys Asn Thr Val Tyr Leu Glu Met Asn Ser Leu
225 230 235 240

Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Gly Arg Arg
245 250 255

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
260 265 270

Ser

<210> 272
<211> 271
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 272

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
145 150 155 160

Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser Cys Ala
165 170 175

Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr Arg Gln
180 185 190

Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Asn Ser Val Gly
195 200 205

Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
210 215 220

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
225 230 235 240

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg Gly Trp
245 250 255

Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
260 265 270

<210> 273
<211> 271
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 273

Glu Met Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
35 40 45

Ala Leu Ile Asn Ser Val Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Gly Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser

115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Met Gln Leu Val Glu Ser
145 150 155 160

Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser Cys Ala
165 170 175

Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr Arg Gln
180 185 190

Ala Pro Gly Lys Gln Arg Asp Leu Val Ala Leu Ile Asn Ser Val Gly
195 200 205

Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
210 215 220

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
225 230 235 240

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Gly Arg Arg Gly Trp
245 250 255

Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
260 265 270

<210> 274
<211> 271
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 274

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val
35 40 45

Ala Gly Ile Asn Ser Val Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Ala Tyr Leu
65 70 75 80

```
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
    130                 135                 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
145                 150                 155                 160

Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser Cys Ala
                165                 170                 175

Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr Arg Gln
            180                 185                 190

Ala Pro Gly Lys Gln Arg Asp Leu Val Ala Gly Ile Asn Ser Val Gly
        195                 200                 205

Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
    210                 215                 220

Asp Asn Ala Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu Lys Pro
225                 230                 235                 240

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg Gly Trp
                245                 250                 255

Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            260                 265                 270


<210>  275
<211>  273
<212>  PRT
<213>  Artificial Sequence

<220>
<223>  Nanobody sequence

<400>  275

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Arg Thr Phe Ser Ser Tyr
            20                  25                  30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Ala Phe Val
```

35 40 45

Ala Gly Ile Ser Gly Ser Ala Ser Arg Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
130 135 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
145 150 155 160

Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser
165 170 175

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr
180 185 190

Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Asn Ser
195 200 205

Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
210 215 220

Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
225 230 235 240

Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
245 250 255

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
260 265 270

Ser

<210> 276
<211> 273
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 276

```
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                  10                  15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Arg Thr Phe Ser Ser Tyr
            20                  25                  30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Ala Phe Val
        35                  40                  45

Ala Gly Ile Ser Gly Ser Ala Ser Arg Lys Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ala Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln
            100                 105                 110

Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
        115                 120                 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
    130                 135                 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
145                 150                 155                 160

Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser
                165                 170                 175

Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr
            180                 185                 190

Arg Gln Ala Pro Gly Lys Gln Arg Asp Leu Val Ala Gly Ile Asn Ser
        195                 200                 205

Val Gly Ile Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile
    210                 215                 220

Ser Arg Asp Asn Ala Lys Asn Thr Ala Tyr Leu Gln Met Asn Ser Leu
225                 230                 235                 240

Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg
                245                 250                 255
```

Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
260 265 270

Ser

<210> 277
<211> 369
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 277

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
115 120 125

Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu Ser
130 135 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala
145 150 155 160

Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
165 170 175

Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly
180 185 190

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln

195 200 205

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser
210 215 220

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln
225 230 235 240

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
245 250 255

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu
260 265 270

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly Met
275 280 285

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
290 295 300

Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly
305 310 315 320

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln
325 330 335

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile
340 345 350

Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr Val Ser
355 360 365

Ser

<210> 278
<211> 395
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 278

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

```
Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
    130                 135                 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
145                 150                 155                 160

Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser Cys Ala
                165                 170                 175

Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr Arg Gln
            180                 185                 190

Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Asn Ser Val Gly
        195                 200                 205

Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
    210                 215                 220

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
225                 230                 235                 240

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg Gly Trp
                245                 250                 255

Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly
            260                 265                 270

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
        275                 280                 285

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
    290                 295                 300

Ser Gly Phe Thr Phe Ser Ser Phe Gly Met Ser Trp Val Arg Gln Ala
305                 310                 315                 320
```

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Ser
325 330 335

Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
340 345 350

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
355 360 365

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Arg
370 375 380

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
385 390 395

<210> 279
<211> 395
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 279

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
115 120 125

Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu Ser
130 135 140

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala

145 150 155 160

Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
165 170 175

Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly
180 185 190

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
195 200 205

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser
210 215 220

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln
225 230 235 240

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
245 250 255

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
260 265 270

Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
275 280 285

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
290 295 300

Ser Gly Phe Thr Phe Ser Ser Phe Gly Met Ser Trp Val Arg Gln Ala
305 310 315 320

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Ser
325 330 335

Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
340 345 350

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
355 360 365

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Arg
370 375 380

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
385 390 395

<210> 280
<211> 421
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 280

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1               5                  10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
            20                  25                  30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
        35                  40                  45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys
    50                  55                  60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65                  70                  75                  80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
                85                  90                  95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
    130                 135                 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
145                 150                 155                 160

Gly Gly Gly Ser Val Gln Ala Gly Glu Ser Leu Arg Leu Ser Cys Ala
                165                 170                 175

Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala Met Ala Trp Tyr Arg Gln
            180                 185                 190

Ala Pro Gly Lys Arg Arg Asp Leu Val Ala Ala Ile Asn Ser Val Gly
        195                 200                 205

Val Thr Lys Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
    210                 215                 220

Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro
225                 230                 235                 240

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser Asp Pro Arg Arg Gly Trp
                245                 250                 255
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Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly
260 265 270

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
275 280 285

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
290 295 300

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
305 310 315 320

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
325 330 335

Ser Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
340 345 350

Trp Val Ser Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp
355 360 365

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
370 375 380

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
385 390 395 400

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu
405 410 415

Val Thr Val Ser Ser
420

<210> 281
<211> 421
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 281

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn
20 25 30

Ala Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val
35 40 45

Ala Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys

50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
85 90 95

Ser Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr
100 105 110

Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
130 135 140

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
145 150 155 160

Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
165 170 175

Ala Ser Gly Phe Thr Phe Ser Ser Phe Gly Met Ser Trp Val Arg Gln
180 185 190

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
195 200 205

Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
210 215 220

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
225 230 235 240

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
245 250 255

Arg Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
260 265 270

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
275 280 285

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu
290 295 300

Val Gln Leu Val Glu Ser Gly Gly Gly Ser Val Gln Ala Gly Glu Ser
305 310 315 320

Leu Arg Leu Ser Cys Ala Ala Ser Gly Ser Ile Phe Ser Ser Asn Ala

325 330 335

Met Ala Trp Tyr Arg Gln Ala Pro Gly Lys Arg Arg Asp Leu Val Ala
340 345 350

Ala Ile Asn Ser Val Gly Val Thr Lys Tyr Ala Asp Ser Val Lys Gly
355 360 365

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln
370 375 380

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ser
385 390 395 400

Asp Pro Arg Arg Gly Trp Asp Thr Arg Tyr Trp Gly Gln Gly Thr Gln
405 410 415

Val Thr Val Ser Ser
420

<210> 282
<211> 275
<212> PRT
<213> Artificial Sequence

<220>
<223> Nanobody sequence

<400> 282

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Arg Thr Phe Ser Ser Tyr
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Ala Phe Val
35 40 45

Ala Gly Ile Ser Gly Ser Ala Ser Arg Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ala Ser Asn Ser Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

```
Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
    130                 135                 140

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val
145                 150                 155                 160

Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser
                165                 170                 175

Cys Val Ala Ser Gly Arg Thr Phe Ser Ser Tyr Ala Met Gly Trp Phe
            180                 185                 190

Arg Gln Ala Pro Gly Lys Glu Arg Ala Phe Val Ala Gly Ile Ser Gly
        195                 200                 205

Ser Ala Ser Arg Lys Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
    210                 215                 220

Val Ser Arg Asp Asn Ala Arg Asn Thr Val Tyr Leu Gln Met Asn Ser
225                 230                 235                 240

Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Ser Asn Ser
                245                 250                 255

Tyr Pro Lys Val Gln Phe Asp Tyr Tyr Gly Gln Gly Thr Leu Val Thr
            260                 265                 270

Val Ser Ser
        275
```