

eolf-seql  
SEQUENCE LISTING

<110> Ablynx NV  
Ablynx NV

<120> TREATMENT OF RSV INFECTION

<130> P8373PC00/22580.101

<150> US 62/062,469

<151> 2014-10-10

<150> EP 14193094.1

<151> 2014-11-13

<150> US 62/074,842

<151> 2014-11-04

<150> US 62/067,096

<151> 2014-10-22

<160> 101

<170> PatentIn version 3.5

<210> 1

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 1

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

<210> 2

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 2

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

# eolf-seq1

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

<210> 3  
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<220>  
<223> Nanobody sequence

<400> 3

Glu Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser

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Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 4

<211> 126

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<213> Artificial Sequence

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<223> Nanobody sequence

<400> 4

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

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

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

# eolf-seql

<210> 5  
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<223> Nanobody sequence

<400> 5

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

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

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 6  
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<213> Artificial Sequence

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<220>

<223> Nanobody sequence

<400> 6

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

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

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 7

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 7

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

eolf-seql

|     |     |     |     |
|-----|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Ser | Leu | Ser | Ile |
|     | 20  | Ser | Cys |
|     |     | Ala | Ala |
|     |     | 25  | Ser |
|     |     | Gly | Gly |
|     |     | Ser | Leu |
|     |     | 30  | Ser |
|     |     | Asn | Tyr |
| Val | Leu | Gly | Trp |
|     | 35  | Phe | Arg |
|     |     | Gln | Ala |
|     |     | 40  | Pro |
|     |     | Gly | Lys |
|     |     | Gly | Arg |
|     |     | 45  | Glu |
|     |     | Phe | Val |
| Ala | Ala | Ile | Asn |
|     | 50  | Trp | Arg |
|     |     | Gly | Asp |
|     |     | 55  | Ile |
|     |     | Thr | Ile |
|     |     | Gly | Pro |
|     |     | 60  | Pro |
|     |     | Asn | Val |
| Glu | Gly | Arg | Phe |
| 65  |     | Thr | Ile |
|     |     | 70  | Ser |
|     |     | Arg | Asp |
|     |     | Asn | Ser |
|     |     | 75  | Lys |
|     |     | Asn | Thr |
|     |     | Leu | Tyr |
| Leu | Gln | Met | Asn |
|     |     | 85  | Ser |
|     |     | Leu | Arg |
|     |     | Pro | Asp |
|     |     | 90  | Asp |
|     |     | Thr | Ala |
|     |     | Val | Tyr |
|     |     | 95  | Tyr |
|     |     | Cys |     |
| Gly | Ala | Gly | Thr |
|     | 100 | Pro | Leu |
|     |     | Asn | Pro |
|     |     | Gly | Ala |
|     |     | 105 | Tyr |
|     |     | Ile | Tyr |
|     |     | 110 | Asp |
|     |     | Trp | Ser |
| Tyr | Asp | Tyr | Trp |
|     | 115 | Gly | Gln |
|     |     | Gly | Thr |
|     |     | 120 | Leu |
|     |     | Val | Thr |
|     |     | 125 | Val |
|     |     | Ser | Ser |

<210> 8  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 8

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Gln | Leu | Leu | Glu | Ser | Gly | Gly | Gly | Leu | Val | Gln | Pro | Gly | Gly |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Ser | Leu | Ser | Ile | Ser | Cys | Ala | Ala | Ser | Gly | Gly | Ser | Leu | Ser | Asn | Tyr |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |

# eolf-seql

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

<210> 9  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 9

Glu Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val

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Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 10

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 10

Asp Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 11

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 11

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser

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Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 12

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 12

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

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<210> 13  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 13

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

<210> 14  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

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<220>

<223> Nanobody sequence

<400> 14

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 15

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 15

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

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1 5 10 15

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 16  
<211> 126  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 16

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

# eolf-seql

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

<210> 17  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<400> 17

Glu Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 18

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 18

Glu Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

# eolf-seql

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 19

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 19

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser

eolf-seql

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105

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Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 20

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 20

Glu Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

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<210> 21  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 21

Asp Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

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

eolf-seql

<220>

<223> Nanobody sequence

<400> 22

Glu Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 23

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 23

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

eolf-seql

|     |     |     |     |
|-----|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Ser | Leu | Arg | Leu |
|     | 20  |     |     |
| Ser | Cys | Ala | Ala |
|     |     | 25  |     |
| Ser | Gly | Gly | Ser |
|     |     |     | 30  |
| Leu | Ser | Asn | Tyr |
| Val | Leu | Gly | Trp |
|     | 35  |     |     |
| Phe | Arg | Gln | Ala |
|     |     | 40  |     |
| Pro | Gly | Lys | Gly |
|     |     |     | 45  |
| Arg | Glu | Phe | Val |
| Ala | Ala | Ile | Asn |
|     | 50  |     |     |
| Trp | Arg | Asp | Asp |
|     |     | 55  |     |
| Ile | Thr | Ile | Gly |
|     |     |     | 60  |
| Pro | Pro | Asn | Val |
| Glu | Gly | Arg | Phe |
|     | 65  |     |     |
| Thr | Ile | Ser | Arg |
|     | 70  |     |     |
| Asp | Asn | Ser | Lys |
|     |     | 75  |     |
| Asn | Thr | Leu | Tyr |
| Leu | Gln | Met | Asn |
|     |     | 85  |     |
| Ser | Leu | Arg | Pro |
|     |     |     | 90  |
| Glu | Asp | Thr | Ala |
|     |     |     | 95  |
| Val | Tyr | Tyr | Cys |
| Gly | Ala | Gly | Thr |
|     | 100 |     |     |
| Pro | Leu | Asn | Pro |
|     |     |     | 105 |
| Gly | Ala | Tyr | Ile |
|     |     |     | 110 |
| Tyr | Asp | Trp | Ser |
| Tyr | Trp | Gly | Gln |
|     | 115 |     |     |
| Gly | Thr | Leu | Val |
|     |     | 120 |     |
| Thr | Val | Ser | Ser |
|     |     | 125 |     |

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

<220>  
 <223> Nanobody sequence

<400> 24

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 | Gly | Ser | Leu | Ser | Asn | Tyr |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

<210> 25  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 25

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 Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val

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50

55

60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 26

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 26

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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

eolf-seql

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 27

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 27

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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser

eolf-seql

100

105

110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 28

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 28

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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

eolf-seql

<210> 29  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 29

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 Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

<210> 30  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

eolf-seql

<220>

<223> Nanobody sequence

<400> 30

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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 31

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 31

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

eolf-seql

|     |     |     |     |
|-----|-----|-----|-----|
| 1   | 5   | 10  | 15  |
| Ser | Leu | Arg | Leu |
|     | 20  |     |     |
| Ser | Cys | Ala | Ala |
|     |     | 25  |     |
| Ser | Gly | Gly | Ser |
|     |     |     | 30  |
| Leu | Ser | Asn | Tyr |
| Val | Leu | Gly | Trp |
|     | 35  |     |     |
| Phe | Arg | Gln | Ala |
|     |     | 40  |     |
| Pro | Gly | Lys | Glu |
|     |     |     | 45  |
| Arg | Glu | Phe | Val |
| Ala | Ala | Ile | Asn |
|     | 50  |     |     |
| Trp | Arg | Gly | Asp |
|     |     | 55  |     |
| Ile | Thr | Ile | Gly |
|     |     |     | 60  |
| Pro | Pro | Asn | Val |
| Glu | Gly | Arg | Phe |
|     | 65  |     |     |
| Thr | Ile | Ser | Arg |
|     | 70  |     |     |
| Asp | Asn | Ala | Lys |
|     |     | 75  |     |
| Asn | Thr | Gly | Tyr |
|     |     |     | 80  |
| Leu | Gln | Met | Asn |
|     | 85  |     |     |
| Ser | Leu | Arg | Pro |
|     |     |     | 90  |
| Asp | Asp | Thr | Ala |
|     |     |     | 95  |
| Val | Tyr | Tyr | Cys |
| Gly | Ala | Gly | Thr |
|     | 100 |     |     |
| Pro | Leu | Asn | Pro |
|     |     |     | 105 |
| Gly | Ala | Tyr | Ile |
|     |     |     | 110 |
| Tyr | Asp | Trp | Ser |
| Tyr | Trp | Gly | Arg |
|     | 115 |     |     |
| Gly | Thr | Leu | Val |
|     |     | 120 |     |
| Thr | Val | Ser | Ser |
|     |     | 125 |     |

<210> 32  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 32

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 | Gly | Ser | Leu | Ser | Asn | Tyr |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

<210> 33  
 <211> 126  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 33

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 Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val

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55

60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 34

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 34

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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

eolf-seql

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

<210> 35  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Framework sequence

<400> 35

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser  
20 25 30

<210> 36  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Framework sequence

<400> 36

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser  
20 25 30

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<210> 37  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 37

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

<210> 38  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 38

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

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

<210> 39  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 39

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

1 5 10 15 eolf-seq1

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

<210> 40  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Framework sequence

<400> 40

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser  
20 25 30

<210> 41  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Framework sequence

<400> 41

Asp Val Gln Leu Leu 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 Gly Ser Leu Ser  
20 25 30

<210> 42  
<211> 30  
<212> PRT  
<213> Artificial Sequence

eolf-seql

<220>

<223> Framework sequence

<400> 42

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser  
20 25 30

<210> 43

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Framework sequence

<400> 43

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

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

<210> 44

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Framework sequence

<400> 44

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 Gly Ser Leu Ser  
20 25 30

eolf-seql

<210> 45  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Framework sequence

<400> 45

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 Gly Ser Leu Ser  
20 25 30

<210> 46  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CDR sequence

<400> 46

Asn Tyr Val Leu Gly  
1 5

<210> 47  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Framework sequence

<400> 47

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

<210> 48

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

<220>  
 <223> Framework sequence

<400> 48

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

<210> 49  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CDR sequence

<400> 49

Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu  
 1 5 10 15

Gly

<210> 50  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CDR sequence

<400> 50

Ala Ile Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu  
 1 5 10 15

Gly

eolf-seql

<210> 51  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 51

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

Met Asn Ser Leu Ala Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala  
 20 25 30

<210> 52  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 52

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

Met Asn Ser Leu Ala Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala  
 20 25 30

<210> 53  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 53

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln

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1                      5                      10                      15

Met Asn Ser Leu Ala Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala  
                     20                      25                      30

<210> 54  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 54

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

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

<210> 55  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 55

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

Met Asn Ser Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala  
                     20                      25                      30

<210> 56  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

eolf-seql

<220>

<223> Framework sequence

<400> 56

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Ser | Leu | Arg | Pro | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Gly | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 57

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Framework sequence

<400> 57

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Ser | Leu | Ala | Pro | Asp | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Gly | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

<210> 58

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Framework sequence

<400> 58

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Ser | Leu | Ala | Pro | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Gly | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

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<210> 59  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 59

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

Met Asn Ser Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala  
 20 25 30

<210> 60  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 60

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

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

<210> 61  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CDR sequence

<400> 61

Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp

|   |   |           |    |
|---|---|-----------|----|
|   |   | eolf-seql |    |
| 1 | 5 | 10        | 15 |

Tyr

<210> 62  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 62

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Arg | Gly | Thr | Gln | Val | Thr | Val | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |

<210> 63  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 63

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

<210> 64  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Framework sequence

<400> 64

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gly | Arg | Gly | Thr | Leu | Val | Thr | Val | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |

# eolf-seql

<210> 65  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 65

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

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

eolf-seql

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 |     | 150 |     | 155 |     | 160 |     |     |     |     |     |     |     |     |     |
| Ile | Ser | Cys | Ala | Ala | Ser | Gly | Gly | Ser | Leu | Ser | Asn | Tyr | Val | Leu | Gly |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Trp | Phe | Arg | Gln | Ala | Pro | Gly | Lys | Glu | Arg | Glu | Phe | Val | Ala | Ala | Ile |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asn | Trp | Arg | Gly | Asp | Ile | Thr | Ile | Gly | Pro | Pro | Asn | Val | Glu | Gly | Arg |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Thr | Ile | Ser | Arg | Asp | Asn | Ala | Lys | Asn | Thr | Gly | Tyr | Leu | Gln | Met |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asn | Ser | Leu | Ala | Pro | Asp | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Gly | Ala | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Thr | Pro | Leu | Asn | Pro | Gly | Ala | Tyr | Ile | Tyr | Asp | Trp | Ser | Tyr | Asp | Tyr |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Trp | Gly | Arg | Gly | Thr | Gln | Val | Thr | Val | Ser | Ser | Gly | Gly | Gly | Gly | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gly | Gly | Gly | Gly | Ser | Gly | Gly | Gly | Gly | Ser | Glu | Val | Gln | Leu | Val | Glu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ser | Gly | Gly | Gly | Leu | Val | Gln | Ala | Gly | Gly | Ser | Leu | Ser | Ile | Ser | Cys |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ala | Ala | Ser | Gly | Gly | Ser | Leu | Ser | Asn | Tyr | Val | Leu | Gly | Trp | Phe | Arg |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Gln | Ala | Pro | Gly | Lys | Glu | Arg | Glu | Phe | Val | Ala | Ala | Ile | Asn | Trp | Arg |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Gly | Asp | Ile | Thr | Ile | Gly | Pro | Pro | Asn | Val | Glu | Gly | Arg | Phe | Thr | Ile |

eolf-seql

340

345

350

Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Ala Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Arg  
385 390 395 400

Gly Thr Gln Val Thr Val Ser Ser  
405

<210> 66  
<211> 384  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 66

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

eolf-seql

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Ala Ala  
115 120 125

Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly  
130 135 140

Gly Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn  
145 150 155 160

Tyr Val Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe  
165 170 175

Val Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn  
180 185 190

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

Tyr Leu Gln Met Asn Ser Leu Ala Pro Asp Asp Thr Ala Val Tyr Tyr  
210 215 220

Cys Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp  
225 230 235 240

Ser Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Ala  
245 250 255

Ala Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala  
260 265 270

eolf-seql

Gly Gly Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser  
275 280 285

Asn Tyr Val Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu  
290 295 300

Phe Val Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro  
305 310 315 320

Asn Val Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr  
325 330 335

Gly Tyr Leu Gln Met Asn Ser Leu Ala Pro Asp Asp Thr Ala Val Tyr  
340 345 350

Tyr Cys Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp  
355 360 365

Trp Ser Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser  
370 375 380

<210> 67  
<211> 396  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 67

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

Val Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val

## eolf-seql

35

40

45

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly  
 130 135 140

Gly Leu Val Gln Ala Gly Gly Ser Leu Ser Ile Ser Cys Ala Ala Ser  
 145 150 155 160

Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg Gln Ala Pro  
 165 170 175

Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Asn Trp Arg Gly Asp Ile  
 180 185 190

Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile Ser Arg Asp  
 195 200 205

Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu Ala Pro Asp  
 210 215 220

Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu Asn Pro Gly



eolf-seql

<220>

<223> Nanobody sequence

<400> 68

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
130 135 140

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala  
145 150 155 160

Gly Gly Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser  
165 170 175

eolf-seql

Asn Tyr Val Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu  
180 185 190

Phe Val Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro  
195 200 205

Asn Val Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr  
210 215 220

Gly Tyr Leu Gln Met Asn Ser Leu Ala Pro Asp Asp Thr Ala Val Tyr  
225 230 235 240

Tyr Cys Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp  
245 250 255

Trp Ser Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
275 280 285

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val  
290 295 300

Gln Ala Gly Gly Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser  
305 310 315 320

Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu  
325 330 335

Arg Glu Phe Val Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly  
340 345 350

Pro Pro Asn Val Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys  
355 360 365

# eolf-seql

Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu Ala Pro Asp Asp Thr Ala  
370 375 380

Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile  
385 390 395 400

Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val  
405 410 415

Ser Ser

<210> 69  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 69

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

eolf-seql

85

90

95

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Ser  
145 150 155 160

Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Ala Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

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

eolf-seql

275

280

285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

Ala Ala Ser Gly Leu Thr Leu Asp Tyr Tyr Ala Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Glu Arg Glu Gly Val Ser Cys Ile Ser Ser Ser  
325 330 335

Asp His Ser Thr Thr Tyr Thr Asp Ser Val Lys Gly Arg Phe Thr Ile  
340 345 350

Ser Trp Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Lys Pro Gly Asp Thr Ala Val Tyr Tyr Cys Ala Ala Asp Pro Ala Leu  
370 375 380

Gly Cys Tyr Ser Gly Ser Tyr Tyr Pro Arg Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Gln Val Thr Val Ser Ser  
405

<210> 70  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 70

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

eolf-seql

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Leu Thr Leu Asp Tyr Tyr Ala Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly Val Ser Cys Ile  
180 185 190

Ser Ser Ser Asp His Ser Thr Thr Tyr Thr Asp Ser Val Lys Gly Arg  
195 200 205

eolf-seql

Phe Thr Ile Ser Trp Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Lys Pro Gly Asp Thr Ala Val Tyr Tyr Cys Ala Ala Asp  
225 230 235 240

Pro Ala Leu Gly Cys Tyr Ser Gly Ser Tyr Tyr Pro Arg Tyr Asp Tyr  
245 250 255

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Ser Ile Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Ala Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Arg  
385 390 395 400

eolf-seql

Gly Thr Gln Val Thr Val Ser Ser  
405

<210> 71  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 71

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

Ser Leu Ser Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln

## eolf-seql

130

135

140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Ser  
 145 150 155 160

Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
 165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile  
 180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
 195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met  
 210 215 220

Asn Ser Leu Ala Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
 225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
 245 250 255

Trp Gly Arg Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu  
 275 280 285

Ser Gly Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Ser Ile Ser Cys  
 290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
 305 310 315 320

Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Asn Trp Arg

eolf-seql

325

330

335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Ala Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Arg  
385 390 395 400

Gly Thr Gln Val Thr Val Ser Ser  
405

<210> 72

<211> 408

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 72

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

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

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

eolf-seql

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Ile Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 73

<211> 408

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

eolf-seql

<400> 73

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

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

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Ile Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile

eolf-seql

180

185

190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Ile Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu

eolf-seql

370

375

380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 74

<211> 408

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 74

Glu Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

eolf-seql

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

eolf-seql

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 75  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 75

Asp Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

Val Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val

eolf-seql

35

40

45

Ala Ala Ile Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly

## eolf-seql

225                      230                      235                      240  
 Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
                                  245                      250                      255  
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
                                  260                      265                      270  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu  
                                  275                      280                      285  
 Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
                                  290                      295                      300  
 Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
 305                                   310                      315                      320  
 Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
                                  325                      330                      335  
 Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
                                  340                      345                      350  
 Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
                                  355                      360                      365  
 Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
                                  370                      375                      380  
 Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
 385                                   390                      395                      400  
 Gly Thr Leu Val Thr Val Ser Ser  
                                  405

&lt;210&gt; 76

eolf-seql

<211> 408  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 76

Glu Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
 130 135 140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
 145 150 155 160

eolf-seql

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

eolf-seql

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 77  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 77

Asp Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

## eolf-seql

85

90

95

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
 130 135 140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
 145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
 165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile  
 180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
 195 200 205

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met  
 210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
 225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
 245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 260 265 270

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

eolf-seql

275

280

285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 78

<211> 408

<212> PRT

<213> Artificial Sequence

<220>

<223> Nanobody sequence

<400> 78

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

eolf-seql

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

eolf-seql

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met  
 210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
 225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
 245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu  
 275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
 290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
 305 310 315 320

Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
 325 330 335

Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
 340 345 350

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
 355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
 370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
 385 390 395 400

eolf-seql

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 79  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 79

Asp Val Gln Leu Leu 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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn 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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln

eolf-seql

130

135

140

Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Leu Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Gly Arg Glu Phe Val Ala Ala Ile Asn Trp Arg

eolf-seql

325

330

335

Asp Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 80

<211> 408

<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 Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

eolf-seql

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

eolf-seql

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 81  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

eolf-seql

<400> 81

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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile

eolf-seql

180

185

190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu

eolf-seql

370

375

380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 82

<211> 408

<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 Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
100 105 110

eolf-seql

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
130 135 140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

eolf-seql

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 83  
<211> 408  
<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 Ala Ser Gly Gly Ser Leu Ser Asn Tyr  
20 25 30

Val Leu Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val

## eolf-seql

35

40

45

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
 130 135 140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
 145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
 165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile  
 180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
 195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met  
 210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly

## eolf-seql

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 225 |     | 230 |     | 235 |     | 240 |     |     |     |     |     |     |     |     |     |
| Thr | Pro | Leu | Asn | Pro | Gly | Ala | Tyr | Ile | Tyr | Asp | Trp | Ser | Tyr | Asp | Tyr |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Trp | Gly | Arg | Gly | Thr | Leu | Val | Thr | Val | Ser | Ser | Gly | Gly | Gly | Gly | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |
| Gly | Gly | Gly | Gly | Ser | Gly | Gly | Gly | Gly | Ser | Glu | Val | Gln | Leu | Val | Glu |
|     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |
| Ser | Gly | Gly | Gly | Leu | Val | Gln | Pro | Gly | Gly | Ser | Leu | Arg | Leu | Ser | Cys |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ala | Ala | Ser | Gly | Gly | Ser | Leu | Ser | Asn | Tyr | Val | Leu | Gly | Trp | Phe | Arg |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Gln | Ala | Pro | Gly | Lys | Glu | Arg | Glu | Phe | Val | Ala | Ala | Ile | Asn | Trp | Arg |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Gly | Asp | Ile | Thr | Ile | Gly | Pro | Pro | Asn | Val | Glu | Gly | Arg | Phe | Thr | Ile |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ser | Arg | Asp | Asn | Ala | Lys | Asn | Thr | Gly | Tyr | Leu | Gln | Met | Asn | Ser | Leu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Arg | Pro | Glu | Asp | Thr | Ala | Val | Tyr | Tyr | Cys | Gly | Ala | Gly | Thr | Pro | Leu |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Asn | Pro | Gly | Ala | Tyr | Ile | Tyr | Asp | Trp | Ser | Tyr | Asp | Tyr | Trp | Gly | Arg |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Gly | Thr | Leu | Val | Thr | Val | Ser | Ser |     |     |     |     |     |     |     |     |
|     |     |     |     | 405 |     |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 84

eolf-seql

<211> 408  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Nanobody sequence

<400> 84

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 Gly Ser Leu Ser Asn Tyr  
 20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
 50 55 60

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

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

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
 130 135 140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
 145 150 155 160

eolf-seql

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile  
180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met  
210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
245 250 255

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
260 265 270

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu  
275 280 285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

eolf-seql

Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Arg  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

<210> 85  
<211> 408  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Nanobody sequence

<400> 85

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 Gly Ser Leu Ser Asn Tyr  
20 25 30

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

Ala Ala Ile Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val  
50 55 60

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

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

## eolf-seql

85

90

95

Gly Ala Gly Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser  
 100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln  
 130 135 140

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg  
 145 150 155 160

Leu Ser Cys Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly  
 165 170 175

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile  
 180 185 190

Asn Trp Arg Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg  
 195 200 205

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met  
 210 215 220

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly  
 225 230 235 240

Thr Pro Leu Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr  
 245 250 255

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 260 265 270

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

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275

280

285

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys  
290 295 300

Ala Ala Ser Gly Gly Ser Leu Ser Asn Tyr Val Leu Gly Trp Phe Arg  
305 310 315 320

Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Ala Ile Asn Trp Arg  
325 330 335

Gly Asp Ile Thr Ile Gly Pro Pro Asn Val Glu Gly Arg Phe Thr Ile  
340 345 350

Ser Arg Asp Asn Ala Lys Asn Thr Gly Tyr Leu Gln Met Asn Ser Leu  
355 360 365

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly Ala Gly Thr Pro Leu  
370 375 380

Asn Pro Gly Ala Tyr Ile Tyr Asp Trp Ser Tyr Asp Tyr Trp Gly Gln  
385 390 395 400

Gly Thr Leu Val Thr Val Ser Ser  
405

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<211> 5

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<220>

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<400> 86

Gly Gly Gly Gly Ser  
1 5

eolf-seql

<210> 87  
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<400> 87

Ser Gly Gly Ser Gly Gly Ser  
1 5

<210> 88  
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Gly Gly Gly Gly Ser Gly Gly Gly Ser  
1 5

<210> 89  
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<400> 89

Gly Gly Gly Gly Ser Gly Gly Gly Ser  
1 5

<210> 90  
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<400> 90

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10

<210> 91

<211> 15

<212> PRT

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<400> 91

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10 15

<210> 92

<211> 18

<212> PRT

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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly  
1 5 10 15

Gly Ser

<210> 93

<211> 20

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eolf-seql

<400> 93

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> 94

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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

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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> 96

eolf-seql

<211> 35  
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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

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<400> 97

Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro  
 1 5 10 15

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Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Pro Lys Ser Cys Asp Lys  
 1 5 10 15

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Thr His Thr Cys Pro Pro Cys Pro  
20

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Glu Pro Lys Thr Pro Lys Pro Gln Pro Ala Ala Ala  
1 5 10

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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

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eolf-seql

<213> Artificial Sequence

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Ala Ala Ala

1