

SEQUENCE LISTING

<110> Ablynx N.V.

<120> Methods for providing improved immunoglobulin sequences

<130> P07-011-PCT-1

<160> 176

<170> PatentIn version 3.4

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Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Asp Ser Val
 35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
 50 55 60

Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala
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 35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Thr Ala Ser
 50 55 60

Asn Arg Gly Tyr Leu His Met Asn Asn Leu Thr Pro Glu Asp Thr Ala
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35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
50 55 60

Asn Met Val Tyr Leu Arg Met Asn Ser Leu Ile Pro Glu Asp Ala Ala
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35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys
 50 55 60

Asn Thr Val Trp Leu His Gly Ser Thr Leu Lys Pro Glu Asp Thr Ala
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35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Met Asp Tyr Thr Lys
50 55 60

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

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

Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Phe	Thr	Ile	Ser	Ser	Glu	Lys	Asp	Lys
							50			55				60	

Asn	Ser	Val	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala
65					70					75					80

Leu	Tyr	Ile	Cys	Ala	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Trp	Gly	Arg	Gly	Thr
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Ser Leu Arg Leu Ser Cys Val Ala Ser Gly Ser Thr Tyr Thr Xaa Xaa
 20 25 30

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

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ala Arg Asp Ser Thr Lys
 50 55 60

Asp Thr Phe Cys Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala
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 35 40 45

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Thr Asp Asn Ala Lys
 50 55 60

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

Xaa	Xaa	Xaa	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Arg	Glu	Phe	Val
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Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Phe	Thr	Ile	Ser	Arg	Asn	Ala	Thr	Lys
		50				55				60					

Asn	Thr	Leu	Thr	Leu	Arg	Met	Asp	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala
65					70					75					80

Val	Tyr	Tyr	Cys	Ala	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Trp	Gly	Gln	Gly	Thr
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Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Glu Lys Arg Glu Phe Val
35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ala Arg Glu Asn Ala Gly
 50 55 60

Asn Met Val Tyr Leu Gln Met Asn Asn Leu Lys Pro Asp Asp Thr Ala
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Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Val Phe Leu
35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Ser Ala Lys
50 55 60

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

Xaa	Xaa	Xaa	Trp	Phe	Arg	Gln	Thr	Pro	Trp	Gln	Glu	Arg	Asp	Phe	Val
		35					40					45			

Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Tyr	Lys
	50					55					60				

Asp	Thr	Val	Leu	Leu	Glu	Met	Asn	Phe	Leu	Lys	Pro	Glu	Asp	Thr	Ala
65					70					75					80

Ile	Tyr	Tyr	Cys	Ala	Ala	Xaa	Xaa	Xaa	Xaa	Xaa	Trp	Gly	Gln	Gly	Thr
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Xaa Xaa Xaa Trp Phe Arg Gln Ala Pro Gly Arg Asp Arg Glu Phe Val
 35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Val Ser Arg Asp Ser Ala Glu
 50 55 60

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

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

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Tyr Ala Gly
 50 55 60

Asn Thr Ala Phe Leu Gln Met Asp Ser Leu Lys Pro Glu Asp Thr Gly
 65 70 75 80

Val Tyr Tyr Cys Ala Thr Xaa Xaa Xaa Xaa Xaa Trp Gly Gln Gly Thr
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Gln Val Thr Val Ser Ser
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 20 25 30

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

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Val Ser Arg Asp Asn Gly Lys
 50 55 60

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

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

Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys
		50					55				60				

Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala
65					70					75					80

Val	Tyr	Tyr	Cys	Val	Lys	Xaa	Xaa	Xaa	Xaa	Xaa	Gly	Ser	Gln	Gly	Thr
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20 25 30

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35 40 45

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Lys Ile Ser Arg Asp Asn Ala Lys
 50 55 60

Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Gly Pro Glu Asp Thr Ala
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20 25 30

Xaa Xaa Xaa Trp Val Arg His Thr Pro Gly Lys Ala Glu Glu Trp Val
35 40 45

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
50 55 60

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

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

35 40 45

Ala Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys

50 55 60

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

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 35 40 45

Gly Xaa Xaa Xaa Xaa Xaa Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
 50 55 60

Asn Met Leu Tyr Leu His Leu Asn Asn Leu Lys Ser Glu Asp Thr Ala
 65 70 75 80

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Gln Val Thr Val Ser Ser
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<223> Xaa can be any naturally occurring amino acid

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<400> 22

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 Cys Val Ser Ser Gly Cys Thr Xaa Xaa
 20 25 30

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

Ser Xaa Xaa Xaa Xaa Xaa Arg Phe Lys Ile Ser Arg Asp Asn Ala Lys
 50 55 60

Lys Thr Leu Tyr Leu Gln Met Asn Ser Leu Gly Pro Glu Asp Thr Ala
 65 70 75 80

Met Tyr Tyr Cys Gln Arg Xaa Xaa Xaa Xaa Xaa Arg Gly Gln Gly Thr
 85 90 95

Gln Val Thr Val Ser Ser
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<210> 23

<211> 47

<212> DNA

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<220>

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<400> 23

gggaggttac tgaggcccag cgggcatgg cggaggtgca gctgggtg

47

<210> 24

<211> 39

<212> DNA

<213> Artificial

<220>

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<400> 24

ttgaaccaga cctccgccag actccaccag ctgcacctc

39

<210> 25

<211> 48

<212> DNA

<213> Artificial

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<223> Nanobody or Nanobody Fragment

<400> 25

ggaggtctgg ttcaagcagg cgggagcttg cgtctgagtt gcgctgcg

48

<210> 26

<211> 48

<212> DNA

<213> Artificial

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<400> 26

ggaggtctgg ttcaaccggg cgggagcttg cgtctgagtt gcgctgcg

48

<210> 27

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 27

tccgatgtcg tagtcatcaa atgtgaaacc gctgcgagcg caactcag

48

<210> 28

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 28

tccgatgtcg tagtcgctaa atgtgaaacc gctcgcagcg caactcag

48

<210> 29

<211> 39

<212> DNA

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<220>

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<400> 29

gactacgaca tcggatgggt tcgtcaggct ccgggcaaa

39

<210> 30

<211> 39

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 30

gactacgaca tcggatgggt tcgtcaggct ccgggcaaa

39

<210> 31

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 31

agaacttgaa atgccggaca caccttcgcg acctttgccc ggagcctg

48

<210> 32

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 32

agaacttgaa atgccggaca caccttcgag ttctttgccc ggagcctg

48

<210> 33

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 33

agaacttgaa atgccggaca cccattcgcg ttctttgccc ggagcctg

48

<210> 34

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 34

ggcatttcaa gttctgacgg caacacttat tac

33

<210> 35

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 35

acctttaacg ctgtctgcgt aataagtgtt gcc

33

<210> 36

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 36

gacagcggtta aaggtcgttt caccatttcg tccgataacg caaagaat

48

<210> 37

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 37

gacagcggtta aaggtcgttt caccatttcg cgtgataacg caaagaat

48

<210> 38

<211> 42

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 38

taagctattc atttgaaggt atacggtatt ctttgcgtta tc 42

<210> 39

<211> 42

<212> DNA

<213> Artificial

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<223> Nanobody or Nanobody Fragment

<400> 39

taagctattc atttgaaggt acagggtatt ctttgcgtta tc 42

<210> 40

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 40

caaataaata gcttacgccc ggaagatacc gccgtttact attgtgcc 48

<210> 41

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 41

caaataaata gcttaaaagc tgaagatacc gccgtttact attgtgcc 48

<210> 42

<211> 45

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 42

cagataccac gagctatctg gcggttcgc ggcacaatag taaac

45

<210> 43

<211> 45

<212> DNA

<213> Artificial

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<223> Nanobody or Nanobody Fragment

<400> 43

cagataccac gagctatctg gcggttcgc ggcacaatag taaac

45

<210> 44

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 44

agctcgtggt atctggatgg ctctctgaa ttctttaaat attggggt

48

<210> 45

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 45

gttgtgagga gacggtgacc tgcgtaccct gacccaata tttaaaga

48

<210> 46

<211> 48

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 46

gttgtgagga gacggtgacc agcgtaccct gacccaata tttaaaga

48

<210> 47

<211> 16

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 47

gggaggttac tgaggc

16

<210> 48

<211> 17

<212> DNA

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 48

gttgtgagga gacggtg

17

<210> 49

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 50

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 50

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 51
 <211> 127
 <212> PRT
 <213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 51

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 52

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 52

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 Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 53

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 53

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 Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 54

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 54

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 55

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 55

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 56

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 56

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 Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 57

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 58

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 58

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 Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 59

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 60

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 60

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 Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 61
 <211> 127
 <212> PRT
 <213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 61

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 62

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 62

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 63

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 63

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 64

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 64

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 65

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 65

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 66

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 66

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 Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 67

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 68

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 68

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 Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 69

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 70

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 71

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 72

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 73

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 73

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 Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 74

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 74

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 75

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 76

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 76

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 77

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 77

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 78

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Trp Val
 35 40 45

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 79

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 79

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 Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 80

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 80

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 81
 <211> 127
 <212> PRT
 <213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 81

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 Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 82

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 83

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 83

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Lys 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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 84

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 84

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 85

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 86

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Lys 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 87

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 87

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 88

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 89

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 90

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 90

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 Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 91
 <211> 127
 <212> PRT
 <213> Artificial

<220>
 <223> Nanobody or Nanobody Fragment

<400> 91

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 92

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 92

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Glu Arg Glu Trp Val
 35 40 45

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 93

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 93

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 94

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 94

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 95

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 95

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 96

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 96

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 Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 97

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 97

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 Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

Lys Gly Arg Phe Thr Ile Ser Ser 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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 98

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Lys 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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 99

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 99

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Lys 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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 100

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Lys 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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 101

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 102

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 102

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 103

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 103

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 Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 104

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 104

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 Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 105

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 105

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 106

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 106

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

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

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 107

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 108

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 108

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 109

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 110

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 110

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 111

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 111

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 112

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 112

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 113

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 113

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 114

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 114

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 Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30

Asp Ile Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Arg Glu Gly Val
 35 40 45

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 115

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 116

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 116

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 Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 117

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 118

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 118

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

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

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

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 119

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 119

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120 125

<210> 120

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 120

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Ala Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 121

<211> 127

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 121

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 Ala Ser Gly Phe Thr Phe Ser Asp Tyr
 20 25 30

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

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

Lys 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 Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Glu Pro Pro Asp Ser Ser Trp Tyr Leu Asp Gly Ser Pro Glu
 100 105 110

Phe Phe Lys Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120 125

<210> 122

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 122

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 Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 123

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 123

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

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

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 124

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 124

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 Thr Thr Phe Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 125

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 125

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 Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 126

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 126

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 Thr Ile Phe Lys Leu Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 127

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Thr Thr Phe Arg Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 128

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Thr Ile Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 129

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<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 Ala Phe Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 130

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 130

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 Thr Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 131

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 131

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 Thr Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 132

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 132

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 Thr Thr Phe Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 133

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 133

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 Asn Gly Thr Thr Phe Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 134

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 134

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 Thr Thr Phe Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 135

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 135

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 Thr Phe Arg Leu Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 136

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 136

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 Thr Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 137

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 137

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 Thr Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 138

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 138

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

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

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 139

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 139

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 Thr Ile Phe Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 140

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 140

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 Thr Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 141

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 141

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 Thr Val Phe Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 142

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 142

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 Val Tyr Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 143

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 143

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 Thr Phe Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 144

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 144

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 Thr Ile Phe Arg Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 145

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 145

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 Thr Ile Phe Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 146

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 146

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

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

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 147

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 147

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 Thr Thr Phe Lys Leu Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 148

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 148

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 Thr Ile Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 149

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 149

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 Thr Thr Phe Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 150

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 150

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 Thr Phe Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 151

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 151

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 Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 152

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 152

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 Thr Phe Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 153

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 153

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 Thr Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 154

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 154

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 Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 155

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 155

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 Thr Ile Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 156

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 156

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 Arg Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 157

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 157

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 Val Phe Lys Ile Asn
20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 158

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 158

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 Thr Thr Phe Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 159

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 159

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 Thr Thr Phe Arg Leu Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 160

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 160

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 Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 161

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 161

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 Thr Thr Phe Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 162

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 162

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 Thr Ile Phe Arg Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 163

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 163

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

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

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 164

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 164

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 Thr Thr Phe Lys Val Asn
20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 165

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 165

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 Asn Gly Ser Val Tyr Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 166

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 166

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 Thr Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 167

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 167

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 Val Phe Arg Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 168

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 168

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 Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 169

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 169

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 Thr Thr Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 170

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 170

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 Thr Thr Phe Lys Val Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 171

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 171

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 Thr Val Phe Lys Ile Asn
 20 25 30

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

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

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

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

Phe Val Thr Thr Asn Ser Asp Tyr Asp Leu Gly Arg Asp Tyr Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 172

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 172

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 Lys Val Asn
 20 25 30

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

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

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 173

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 173

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 Lys Val Asn
 20 25 30

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

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

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 174

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 174

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 Lys Val Asn
 20 25 30

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

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

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

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

Phe Ile Thr Thr Asp Thr Asn Tyr Asp Leu Gly Lys Arg Ser Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 175

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 175

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 Lys Val Asn
 20 25 30

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

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

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

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

Phe Ile Ala Ser Asn Ser Glu Tyr Asp Leu Gly Arg Arg Phe Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 176

<211> 121

<212> PRT

<213> Artificial

<220>

<223> Nanobody or Nanobody Fragment

<400> 176

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 Lys Val Asn
 20 25 30

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

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

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120