

SEQUENCE LISTING

<110> Numab Therapeutics AG

<120> MULTISPECIFIC ANTIBODY

<130> 116736P877PC

<150> EP20177337.1

<151> 2020-05-29

<160> 151

<170> PatentIn version 3.5

<210> 1

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 1

Gly	Phe	Ser	Leu	Ser	Ser	Tyr	Ala	Met	Gly
1				5					10

<210> 2

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 2

Tyr	Ile	Ser	Thr	Ile	Asn	Asn	Thr	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
1				5					10					15	

<210> 3

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 3

Arg Glu Ile Arg Ser Gly Trp Val Asp Tyr Gly Phe Ser Ile

1 5 10

<210> 4
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 4

Gln Ala Ser Gln Asn Ile Tyr Ser Asn Leu Ala
1 5 10

<210> 5
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 5

Asp Ala Ser Asp Leu Ala Ser
1 5

<210> 6
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 6

Gln Gln Val Arg Ser Ser Ser Asp Ile Asp Asn Pro
1 5 10

<210> 7
<211> 121
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 7

Gln 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 Ser Leu Ser Ser Tyr
20 25 30

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

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

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

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

Arg Glu Ile Arg Ser Gly Trp Val Asp Tyr Gly Phe Ser Ile Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 8

<211> 121

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 8

Gln 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 Ser Leu Ser Ser Tyr
20 25 30

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

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

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

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

Arg Glu Ile Arg Ser Gly Trp Val Asp Tyr Gly Phe Ser Ile Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 9
<211> 111
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 9

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

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Ile Asp Asn Pro Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105 110

<210> 10
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 10

Tyr Ile Ser Thr Ile Ala Asn Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

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

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 11

Gly Phe Ser Leu Ser Ser Tyr Ala Met Gly
1 5 10

<210> 12
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 12

Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

<210> 13
<211> 15
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 13

Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe Asp Pro
1 5 10 15

<210> 14

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 14

Gln Ala Ser Gln Ser Ile Ser Asn Tyr Leu Ala
1 5 10

<210> 15

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 15

Asp Ala Ser Asp Leu Ala Ser
1 5

<210> 16

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 16

Gln Gln Val Tyr Asp Ser Asn Asn Val Glu Asn Val
1 5 10

<210> 17

<211> 122

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 17

Gln Ser 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 Val Ser Gly Phe Ser Leu Ser Ser Tyr
20 25 30

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

Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys
50 55 60

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

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

Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe Asp Pro Trp
100 105 110

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

<210> 18

<211> 111

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 18

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

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Ser Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105 110

<210> 19
<211> 122
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 19

Gln Ser 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 Val Ser Gly Phe Ser Leu Ser Ser Tyr
20 25 30

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

Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys
50 55 60

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

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

Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe Asp Pro Trp
100 105 110

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

<210> 20

<211> 122

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 20

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

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

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

Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys
50 55 60

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

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

Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe Asp Pro Trp
100 105 110

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

<210> 21

<211> 111

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 21

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105 110

<210> 22

<211> 122

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 22

Gln Ser 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 Val Ser Gly Phe Ser Leu Ser Ser Tyr
20 25 30

Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu Glu Tyr Ile

35

40

45

Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys
 50 55 60

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

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

Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe Asp Pro Trp
 100 105 110

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

<210> 23

<211> 122

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 23

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

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

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

Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys
 50 55 60

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

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

85

90

95

Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe Asp Pro Trp
 100 105 110

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

<210> 24

<211> 111

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 24

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly
 100 105 110

<210> 25

<211> 11

<212> PRT

<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 25

Gly Phe Ser Phe Ser Thr Thr Tyr Tyr Met Cys
1 5 10

<210> 26
<211> 18
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 26

Cys Thr Asn Thr Ala Ser Ser Val Arg Thr Tyr Tyr Ala Thr Trp Ala
1 5 10 15

Lys Gly

<210> 27
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 27

Arg Asp Met Gly Phe Ala Asp Tyr Ala Leu Asn Leu
1 5 10

<210> 28
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 28

Gln Ala Ser Glu Ser Ile Tyr Ser Ser Leu Ala
1 5 10

<210> 29
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 29

Leu Ala Ser Thr Leu Ala Ser
1 5

<210> 30
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 30

Gln Ser Thr Asp Tyr Thr Thr Ser Thr His Arg Asn Ser
1 5 10

<210> 31
<211> 122
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 31

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 Ser Phe Ser Thr Thr
20 25 30

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

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

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

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

Tyr Cys Ala Arg Asp Met Gly Phe Ala Asp Tyr Ala Leu Asn Leu Trp
100 105 110

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

<210> 32

<211> 122

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 32

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

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

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

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

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

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

Tyr Cys Ala Arg Asp Met Gly Phe Ala Asp Tyr Ala Leu Asn Leu Trp
100 105 110

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

<210> 33
<211> 112
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 33

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Thr Asp Tyr Thr Thr Ser
85 90 95

Thr His Arg Asn Ser Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105 110

<210> 34
<211> 122
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 34

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

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

<210> 35
 <211> 122
 <212> PRT
 <213> Artificial sequence

 <220>
 <223> artificial antibody-based or antibody-related sequence

 <400> 35

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Arg	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Phe	Ser	Thr	Thr
		20						25					30		
Tyr	Tyr	Met	Cys	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Cys	Leu	Glu	Trp
		35					40					45			
Ile	Gly	Cys	Thr	Asn	Thr	Ala	Ser	Ser	Val	Arg	Thr	Tyr	Tyr	Ala	Thr

50

55

60

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

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

Tyr Cys Ala Arg Asp Met Gly Phe Ala Asp Tyr Ala Leu Asn Leu Trp
 100 105 110

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

<210> 36

<211> 112

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 36

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Thr Asp Tyr Thr Thr Ser
 85 90 95

Thr His Arg Asn Ser Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly

100

105

110

<210> 37
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 37

Gly Ile Ser Val Ser Asn Asp Tyr Tyr Met Cys
1 5 10

<210> 38
<211> 17
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 38

Cys Ile Ser Thr Tyr Ile Gly Asn Thr His Tyr Ala Ser Trp Ala Lys
1 5 10 15

Gly

<210> 39
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 39

Lys Asn Ala Gly Tyr Pro Gly Tyr Arg Tyr Ala Ile Asp Leu
1 5 10

<210> 40
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 40

Gln Ala Ser Glu Ser Ile Gly Asn Tyr Leu Ala
1 5 10

<210> 41
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 41

Ser Ala Ser Thr Leu Ala Ser
1 5

<210> 42
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 42

Gln Ser Thr Asp Tyr Gly Asp Ser Tyr Ile
1 5 10

<210> 43
<211> 123
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 43

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 Ile Ser Val Ser Asn Asp
20 25 30

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

Ile Gly Cys Ile Ser Thr Tyr Ile Gly Asn Thr His Tyr Ala Ser Trp
50 55 60

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

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

Cys Ala Lys Asn Ala Gly Tyr Pro Gly Tyr Arg Tyr Ala Ile Asp Leu
100 105 110

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

<210> 44

<211> 109

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 44

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Thr Asp Tyr Gly Asp Ser
85 90 95

Tyr Ile Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105

<210> 45

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 45

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser
1 5 10

<210> 46

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 46

Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser Trp Ala Lys Gly
1 5 10 15

<210> 47

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 47

Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile
1 5 10

<210> 48

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 48

Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala
1 5 10

<210> 49

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 49

Ser Ala Ser Thr Leu Ala Ser
1 5

<210> 50

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 50

Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp Cys Tyr Val
1 5 10

<210> 51

<211> 119

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 51

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr

20

25

30

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

Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser Trp Ala Lys
 50 55 60

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

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

Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

<210> 52

<211> 114

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 52

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

Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser Asn
 20 25 30

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

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

Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu

65		70		75		80									
Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gly	Ser	Tyr	Ala	Cys
				85					90					95	

Ser	Ser	Ala	Asp	Cys	Tyr	Val	Phe	Gly	Thr	Gly	Thr	Lys	Val	Thr	Val
			100					105					110		

Leu Gly

<210> 53
 <211> 10
 <212> PRT
 <213> Artificial sequence

<220>
 <223> artificial antibody-based or antibody-related sequence

<400> 53

Gly	Phe	Ser	Leu	Ser	Ser	Asn	Ala	Met	Gly
1				5					10

<210> 54
 <211> 16
 <212> PRT
 <213> Artificial sequence

<220>
 <223> artificial antibody-based or antibody-related sequence

<400> 54

Ile	Ile	Ser	Val	Gly	Gly	Phe	Thr	Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly
1				5					10					15	

<210> 55
 <211> 14
 <212> PRT
 <213> Artificial sequence

<220>
 <223> artificial antibody-based or antibody-related sequence

<400> 55

Arg Asp Arg His Gly Gly Asp Ser Ser Gly Ala Phe Tyr Leu

1 5 10

<210> 56
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 56

Gln Ser Ser Glu Ser Val Tyr Ser Asn Asn Gln Leu Ser
1 5 10

<210> 57
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 57

Asp Ala Ser Asp Leu Ala Ser
1 5

<210> 58
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 58

Ala Gly Gly Phe Ser Ser Ser Ser Asp Thr Ala
1 5 10

<210> 59
<211> 121
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 59

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

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

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

Gly Ile Ile Ser Val Gly Gly Phe Thr Tyr Tyr Ala Ser Trp Ala Lys
50 55 60

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

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

Arg Asp Arg His Gly Gly Asp Ser Ser Gly Ala Phe Tyr Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 60

<211> 112

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 60

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

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

Asn Gln Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

Leu Ile Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe
50 55 60

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

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

Ser Ser Asp Thr Ala Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 61
<211> 121
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 61

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 Ser Leu Ser Ser Asn
20 25 30

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

Gly Ile Ile Ser Val Gly Gly Phe Thr Tyr Tyr Ala Ser Trp Ala Lys
50 55 60

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

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

Arg Asp Arg His Gly Gly Asp Ser Ser Gly Ala Phe Tyr Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 62
<211> 112
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 62

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

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

Asn Gln Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu
35 40 45

Leu Ile Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe
50 55 60

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

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

Ser Ser Asp Thr Ala Phe Gly Cys Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

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

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 63

Gly Phe Ser Phe Ser Ser Ser Tyr Trp Ile Cys

1 5 10

<210> 64
<211> 17
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 64

Cys Val Phe Thr Gly Asp Gly Thr Thr Tyr Tyr Ala Ser Trp Ala Lys
1 5 10 15

Gly

<210> 65
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 65

Arg Pro Val Ser Val Tyr Tyr Tyr Gly Met Asp Leu
1 5 10

<210> 66
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 66

Gln Ala Ser Gln Ile Ile Ser Ser Arg Ser Ala
1 5 10

<210> 67
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 67

Gln Ala Ser Lys Leu Ala Ser
1 5

<210> 68
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 68

Gln Cys Thr Tyr Ile Asp Ser Asn Phe Gly Ala
1 5 10

<210> 69
<211> 121
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 69

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

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

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

Val Gly Cys Val Phe Thr Gly Asp Gly Thr Thr Tyr Tyr Ala Ser Trp
50 55 60

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

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Thr Tyr Phe

85

90

95

Cys Ala Arg Pro Val Ser Val Tyr Tyr Tyr Gly Met Asp Leu Trp Gly
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 70

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 70

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

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Ile Ile Ser Ser Arg
 20 25 30

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

Tyr Gln Ala Ser Lys Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Cys Thr Tyr Ile Asp Ser Asn
 85 90 95

Phe Gly Ala Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
 100 105 110

<210> 71

<211> 121

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 71

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

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

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

Val Gly Cys Val Phe Thr Gly Asp Gly Thr Thr Tyr Tyr Ala Ser Trp
50 55 60

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

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Thr Tyr Phe
85 90 95

Cys Ala Arg Pro Val Ser Val Tyr Tyr Tyr Gly Met Asp Leu Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 72

<211> 110

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 72

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

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Ile Ile Ser Ser Arg
20 25 30

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

Tyr Gln Ala Ser Lys Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Cys Thr Tyr Ile Asp Ser Asn
85 90 95

Phe Gly Ala Phe Gly Cys Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 73
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 73

Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn
1 5 10

<210> 74
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 74

His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly
1 5 10 15

<210> 75
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 75

Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu
1 5 10

<210> 76
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 76

Gln Ala Ser Glu Ser Ile Asn Ser Arg Leu Ala
1 5 10

<210> 77
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 77

Asp Ala Ser Asp Leu Thr Ser
1 5

<210> 78
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 78

Gln Gly Tyr Gly Gly Ser Ser Thr Thr Thr
1 5 10

<210> 79
<211> 120
<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<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 Ser Leu Ser Ser Tyr
20 25 30

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

Gly His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys
50 55 60

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

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

Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 80

<211> 109

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 80

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

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Glu Ser Ile Asn Ser Arg

20

25

30

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Tyr Gly Gly Ser Ser Thr
 85 90 95

Thr Thr Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
 100 105

<210> 81

<211> 120

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<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 Ser Leu Ser Ser Tyr
 20 25 30

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

Gly His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys
 50 55 60

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

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

85

90

95

Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 82

<211> 109

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 82

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Tyr Gly Gly Ser Ser Thr
 85 90 95

Thr Thr Phe Gly Cys Gly Thr Lys Leu Thr Val Leu Gly
 100 105

<210> 83

<211> 510

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 83

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

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Ile Asp Asn Pro Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu
145 150 155 160

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Trp Ile Gly Tyr Ile Ser Thr Ile Asn Asn Thr Tyr Tyr Ala Ser
180 185 190

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

195

200

205

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

Tyr Cys Ala Arg Glu Ile Arg Ser Gly Trp Val Asp Tyr Gly Phe Ser
 225 230 235 240

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
 245 250 255

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

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 275 280 285

Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro Gly
 290 295 300

Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr
 305 310 315 320

Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
 325 330 335

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
 340 345 350

Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser
 355 360 365

Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 370 375 380

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
 385 390 395 400

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
 405 410 415

Ser Phe Ser Ser Ser Tyr Trp Ile Cys Trp Val Arg Gln Ala Pro Gly
420 425 430

Lys Cys Leu Glu Trp Val Gly Cys Val Phe Thr Gly Asp Gly Thr Thr
435 440 445

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
450 455 460

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
465 470 475 480

Thr Ala Thr Tyr Phe Cys Ala Arg Pro Val Ser Val Tyr Tyr Tyr Gly
485 490 495

Met Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
500 505 510

<210> 84

<211> 492

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 84

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

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Ile Asp Asn Pro Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu
145 150 155 160

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Trp Ile Gly Tyr Ile Ser Thr Ile Asn Asn Thr Tyr Tyr Ala Ser
180 185 190

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

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

Tyr Cys Ala Arg Glu Ile Arg Ser Gly Trp Val Asp Tyr Gly Phe Ser
225 230 235 240

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
245 250 255

Ser Gly Gly Gly Gly Ser Asp Val Val Met Thr Gln Ser Pro Ser Ser
260 265 270

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser
275 280 285

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

290

295

300

Pro Pro Lys Leu Leu Ile Tyr Gln Ala Ser Lys Leu Ala Ser Gly Val
 305 310 315 320

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 325 330 335

Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Cys
 340 345 350

Thr Tyr Ile Asp Ser Asn Phe Gly Ala Phe Gly Cys Gly Thr Lys Leu
 355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met Thr Gln
 370 375 380

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
 385 390 395 400

Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala Trp Phe
 405 410 415

Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser Ala Ser
 420 425 430

Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
 435 440 445

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala
 450 455 460

Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp Cys Tyr
 465 470 475 480

Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
 485 490

<210> 85

<211> 510

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 85

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

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

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

Ile Asp Asn Pro Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu
145 150 155 160

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Trp Ile Gly Tyr Ile Ser Thr Ile Ala Asn Thr Tyr Tyr Ala Ser
180 185 190

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

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

Tyr Cys Ala Arg Glu Ile Arg Ser Gly Trp Val Asp Tyr Gly Phe Ser
225 230 235 240

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
245 250 255

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

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
275 280 285

Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro Gly
290 295 300

Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr
305 310 315 320

Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
325 330 335

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
340 345 350

Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser
355 360 365

Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
370 375 380

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
385 390 395 400

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe

405

410

415

Ser Phe Ser Ser Ser Tyr Trp Ile Cys Trp Val Arg Gln Ala Pro Gly
 420 425 430

Lys Cys Leu Glu Trp Val Gly Cys Val Phe Thr Gly Asp Gly Thr Thr
 435 440 445

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 450 455 460

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 465 470 475 480

Thr Ala Thr Tyr Phe Cys Ala Arg Pro Val Ser Val Tyr Tyr Tyr Gly
 485 490 495

Met Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 500 505 510

<210> 86

<211> 492

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 86

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

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

65

70

75

80

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

Ile Asp Asn Pro Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu
145 150 155 160

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Trp Ile Gly Tyr Ile Ser Thr Ile Ala Asn Thr Tyr Tyr Ala Ser
180 185 190

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

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

Tyr Cys Ala Arg Glu Ile Arg Ser Gly Trp Val Asp Tyr Gly Phe Ser
225 230 235 240

Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
245 250 255

Ser Gly Gly Gly Gly Ser Asp Val Val Met Thr Gln Ser Pro Ser Ser
260 265 270

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser
275 280 285

Gln Ile Ile Ser Ser Arg Ser Ala Trp Tyr Gln Gln Lys Pro Gly Gln
290 295 300

Pro Pro Lys Leu Leu Ile Tyr Gln Ala Ser Lys Leu Ala Ser Gly Val
305 310 315 320

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
325 330 335

Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Cys
340 345 350

Thr Tyr Ile Asp Ser Asn Phe Gly Ala Phe Gly Cys Gly Thr Lys Leu
355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met Thr Gln
370 375 380

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
385 390 395 400

Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala Trp Phe
405 410 415

Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser Ala Ser
420 425 430

Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
435 440 445

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala
450 455 460

Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp Cys Tyr
465 470 475 480

Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
485 490

<211> 510
<212> PRT
<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 87

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser

180

185

190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
 290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
 305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
 355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 370 375 380

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
 385 390 395 400

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
405 410 415

Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
420 425 430

Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala Gly Asp Ile Ala Tyr
435 440 445

Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
450 455 460

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
465 470 475 480

Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro
485 490 495

Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
500 505 510

<210> 88

<211> 492

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 88

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala

275

280

285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
 290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
 340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
 355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met Thr Gln
 370 375 380

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
 385 390 395 400

Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala Trp Phe
 405 410 415

Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser Ala Ser
 420 425 430

Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
 435 440 445

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala
 450 455 460

Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp Cys Tyr
 465 470 475 480

Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
 485 490

<210> 89
<211> 515
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 89

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
370 375 380

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

385 390 395 400
 Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
 405 410 415
 Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val
 420 425 430
 Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala
 435 440 445
 Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile
 450 455 460
 Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
 465 470 475 480
 Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly
 485 490 495
 Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr
 500 505 510
 Val Ser Ser
 515

<210> 90
 <211> 499
 <212> PRT
 <213> Artificial sequence

<220>
 <223> artificial antibody-based or antibody-related sequence

<400> 90

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro Lys Phe Leu Ile

35

40

45

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
370 375 380

Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
385 390 395 400

Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser
405 410 415

Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys
420 425 430

Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg
435 440 445

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
450 455 460

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala

465 470 475 480
 Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr
 485 490 495

 Val Leu Gly

 <210> 91
 <211> 515
 <212> PRT
 <213> Artificial sequence

 <220>
 <223> artificial antibody-based or antibody-related sequence

 <400> 91

 Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

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

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

 Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

 Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 115 120 125

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

130

135

140

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
 290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
 305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Cys Ser Leu Arg Ala Glu Asp
 340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
370 375 380

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val Gln Leu Val
385 390 395 400

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
405 410 415

Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val
420 425 430

Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala
435 440 445

Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile
450 455 460

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
465 470 475 480

Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly
485 490 495

Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr
500 505 510

Val Ser Ser
515

<210> 92
<211> 499
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 92

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

210

215

220

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
 260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
 275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
 290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Cys Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
 340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
 355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
 370 375 380

Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 385 390 395 400

Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser
 405 410 415

Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys
 420 425 430

Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg
435 440 445

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
450 455 460

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala
465 470 475 480

Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr
485 490 495

Val Leu Gly

<210> 93
<211> 515
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 93

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr

[illegible]

<210> 94
<211> 492
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 94

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met Thr Gln
370 375 380

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr

385					390					395					400
Cys	Gln	Ser	Ser	Gln	Ser	Val	Phe	Ser	Asn	Asn	Tyr	Leu	Ala	Trp	Phe
				405					410					415	
Gln	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Lys	Arg	Leu	Ile	Tyr	Ser	Ala	Ser
			420					425					430		
Thr	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly
		435					440					445			
Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala
	450					455					460				
Thr	Tyr	Tyr	Cys	Leu	Gly	Ser	Tyr	Ala	Cys	Ser	Ser	Ala	Asp	Cys	Tyr
465					470					475					480
Val	Phe	Gly	Thr	Gly	Thr	Lys	Val	Thr	Val	Leu	Gly				
				485					490						
<210>	95														
<211>	510														
<212>	PRT														
<213>	Artificial sequence														
<220>															
<223>	artificial antibody-based or antibody-related sequence														
<400>	95														
Ala	Leu	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Arg	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Lys	Cys	Gln	Ala	Ser	Gln	Ser	Ile	Ser	Asn	Tyr
			20					25					30		
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Pro	Pro	Lys	Phe	Leu	Ile
		35					40					45			
Tyr	Asp	Ala	Ser	Asp	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Arg	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro

65					70					75					80
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Val	Tyr	Asp	Ser	Asn	Asn
				85					90					95	
Val	Glu	Asn	Val	Phe	Gly	Thr	Gly	Thr	Lys	Val	Thr	Val	Leu	Gly	Gly
			100					105					110		
Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly
		115					120					125			
Gly	Gly	Ser	Gln	Ser	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln
	130					135					140				
Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly	Phe	Ser	Leu
145					150					155					160
Ser	Ser	Tyr	Ala	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu
				165					170					175	
Glu	Tyr	Ile	Gly	Tyr	Ile	Ser	Lys	Ile	Gly	Thr	Thr	Tyr	Tyr	Ala	Ser
			180					185						190	
Trp	Ala	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Lys	Asp	Asn	Ser	Lys	Asn	Thr
		195					200					205			
Val	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
	210					215					220				
Phe	Cys	Ala	Arg	Gly	Ser	Ser	Ser	Gly	Gly	Tyr	Leu	Asp	Asp	Gly	Phe
225					230					235					240
Asp	Pro	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly
				245					250					255	
Gly	Ser	Gly	Gly	Gly	Gly	Ser	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly
			260					265					270		
Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser
		275					280					285			

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
370 375 380

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
385 390 395 400

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
405 410 415

Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
420 425 430

Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala Gly Asp Ile Ala Tyr
435 440 445

Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
450 455 460

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
465 470 475 480

Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro
485 490 495

Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

500

505

510

<210> 96

<211> 499

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 96

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 115 120 125

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

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

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

165

170

175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
 260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
 275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
 290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
 340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
 355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
 370 375 380

Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
385 390 395 400

Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser
405 410 415

Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys
420 425 430

Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg
435 440 445

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
450 455 460

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala
465 470 475 480

Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr
485 490 495

Val Leu Gly

<210> 97

<211> 515

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 97

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

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

260

265

270

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
 290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
 305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Cys Ser Leu Arg Ala Glu Asp
 340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
 355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 370 375 380

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val Gln Leu Val
 385 390 395 400

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
 405 410 415

Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val
 420 425 430

Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala
 435 440 445

Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile
 450 455 460

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
 465 470 475 480

Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly
485 490 495

Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr
500 505 510

Val Ser Ser
515

<210> 98
<211> 492
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 98

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
325 330 335

Thr Ile Ser Cys Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln

340

345

350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
 355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met Thr Gln
 370 375 380

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
 385 390 395 400

Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala Trp Phe
 405 410 415

Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser Ala Ser
 420 425 430

Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
 435 440 445

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala
 450 455 460

Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp Cys Tyr
 465 470 475 480

Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
 485 490

<210> 99

<211> 510

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 99

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

Asp Arg Val Thr Ile Lys Cys Gln Ala Ser Gln Ser Ile Ser Asn Tyr

20

25

30

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Cys Ser Leu Arg Ala Glu Asp
340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
370 375 380

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
385 390 395 400

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
405 410 415

Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
420 425 430

Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala Gly Asp Ile Ala Tyr
435 440 445

Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser

450

455

460

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
 465 470 475 480

Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro
 485 490 495

Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 500 505 510

<210> 100

<211> 499

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 100

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly

115

120

125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
 260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
 275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
 290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Cys Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
370 375 380

Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
385 390 395 400

Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser
405 410 415

Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys
420 425 430

Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg
435 440 445

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
450 455 460

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala
465 470 475 480

Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr
485 490 495

Val Leu Gly

<210> 101
<211> 515
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 101

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

210

215

220

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
 290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
 305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Cys Ser Leu Arg Ala Glu Asp
 340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
 355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 370 375 380

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val Gln Leu Val
 385 390 395 400

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
 405 410 415

Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val
 420 425 430

Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala
435 440 445

Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile
450 455 460

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
465 470 475 480

Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly
485 490 495

Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr
500 505 510

Val Ser Ser
515

<210> 102
<211> 499
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 102

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
275 280 285

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

290

295

300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Cys Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
 340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
 355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
 370 375 380

Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 385 390 395 400

Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser
 405 410 415

Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys
 420 425 430

Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg
 435 440 445

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
 450 455 460

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala
 465 470 475 480

Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr
 485 490 495

Val Leu Gly

<210> 103
<211> 515
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 103

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
370 375 380

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

385 390 395 400
 Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
 405 410 415
 Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val
 420 425 430
 Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala
 435 440 445
 Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile
 450 455 460
 Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
 465 470 475 480
 Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly
 485 490 495
 Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr
 500 505 510
 Val Ser Ser
 515

 <210> 104
 <211> 492
 <212> PRT
 <213> Artificial sequence

 <220>
 <223> artificial antibody-based or antibody-related sequence

 <400> 104

 Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

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

 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro Lys Phe Leu Ile

35

40

45

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
 165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met Thr Gln
370 375 380

Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
385 390 395 400

Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala Trp Phe
405 410 415

Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser Ala Ser
420 425 430

Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
435 440 445

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala
450 455 460

Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp Cys Tyr

465	470	475	480
-----	-----	-----	-----

Val	Phe	Gly	Thr	Gly	Thr	Lys	Val	Thr	Val	Leu	Gly
				485					490		

<210> 105
 <211> 518
 <212> PRT
 <213> Artificial sequence

<220>
 <223> artificial antibody-based or antibody-related sequence

<400> 105

Ala	Leu	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Arg	Val	Gly
1				5				10						15	

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

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

Tyr	Asp	Ala	Ser	Asp	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				

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

Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Val	Tyr	Asp	Ser	Asn	Asn
				85					90					95	

Val	Glu	Asn	Val	Phe	Gly	Cys	Gly	Thr	Lys	Val	Thr	Val	Leu	Gly	Gly
			100					105					110		

Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly
		115					120					125			

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

Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser	Gly	Phe	Ser	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

145		150		155		160									
Ser	Ser	Tyr	Ala	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Cys	Leu
				165					170					175	
Glu	Tyr	Ile	Gly	Tyr	Ile	Ser	Lys	Ile	Gly	Thr	Thr	Tyr	Tyr	Ala	Ser
			180					185					190		
Trp	Ala	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Lys	Asp	Asn	Ser	Lys	Asn	Thr
		195					200					205			
Val	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
	210					215					220				
Phe	Cys	Ala	Arg	Gly	Ser	Ser	Ser	Gly	Gly	Tyr	Leu	Asp	Asp	Gly	Phe
225					230					235					240
Asp	Pro	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly
				245					250					255	
Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gln	Ser	Gln	Leu	Val	Glu	Ser	Gly	Gly
			260					265					270		
Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Val	Ser
		275					280					285			
Gly	Phe	Ser	Leu	Ser	Ser	Tyr	Ala	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro
	290					295					300				
Gly	Lys	Gly	Leu	Glu	Tyr	Ile	Gly	Tyr	Ile	Ser	Lys	Ile	Gly	Thr	Thr
305					310					315					320
Tyr	Tyr	Ala	Ser	Trp	Ala	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Lys	Asp	Asn
				325					330					335	
Ser	Lys	Asn	Thr	Val	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp
			340					345					350		
Thr	Ala	Val	Tyr	Phe	Cys	Ala	Arg	Gly	Ser	Ser	Ser	Gly	Gly	Tyr	Leu
		355					360					365			

Asp Asp Gly Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser
370 375 380

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val
385 390 395 400

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
405 410 415

Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met
420 425 430

Asn Trp Val Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His
435 440 445

Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg
450 455 460

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met
465 470 475 480

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly
485 490 495

Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr
500 505 510

Leu Val Thr Val Ser Ser
515

<210> 106
<211> 496
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 106

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

Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser Asn
20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val
100 105 110

Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

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

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
145 150 155 160

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

Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr
180 185 190

Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
195 200 205

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
210 215 220

Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser

225		230		235		240									
Asn	Ile	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly
			245						250					255	
Gly	Ser	Gly	Gly	Gly	Gly	Ser	Ala	Phe	Glu	Leu	Thr	Gln	Ser	Pro	Ser
		260						265					270		
Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Gln	Ala
		275					280					285			
Ser	Glu	Ser	Ile	Asn	Ser	Arg	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly
	290					295					300				
Gln	Pro	Pro	Lys	Leu	Leu	Ile	Tyr	Asp	Ala	Ser	Asp	Leu	Thr	Ser	Gly
305					310					315					320
Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu
				325					330					335	
Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln
			340					345					350		
Gly	Tyr	Gly	Gly	Ser	Ser	Thr	Thr	Thr	Phe	Gly	Cys	Gly	Thr	Lys	Leu
		355						360				365			
Thr	Val	Leu	Gly	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser	Gly	Gly	Ser
	370					375					380				
Gly	Ala	Leu	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Arg	Val
385					390					395					400
Gly	Asp	Arg	Val	Thr	Ile	Lys	Cys	Gln	Ala	Ser	Gln	Ser	Ile	Ser	Asn
				405					410					415	
Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Pro	Pro	Lys	Phe	Leu
			420					425					430		
Ile	Tyr	Asp	Ala	Ser	Asp	Leu	Ala	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
		435					440					445			

Gly Ser Gly Ser Gly Arg Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln
450 455 460

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn
465 470 475 480

Asn Val Glu Asn Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
485 490 495

<210> 107
<211> 518
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 107

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Val Ser
275 280 285

Gly Phe Ser Leu Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr
305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn
325 330 335

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

340

345

350

Thr Ala Val Tyr Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu
 355 360 365

Asp Asp Gly Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 370 375 380

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val
 385 390 395 400

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
 405 410 415

Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met
 420 425 430

Asn Trp Val Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His
 435 440 445

Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg
 450 455 460

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met
 465 470 475 480

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly
 485 490 495

Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr
 500 505 510

Leu Val Thr Val Ser Ser
 515

<210> 108

<211> 489

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 108

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

Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser Asn
20 25 30

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

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

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

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

Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val
100 105 110

Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

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

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
145 150 155 160

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

Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr
180 185 190

Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
195 200 205

Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
210 215 220

Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser
225 230 235 240

Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Ala Leu Gln Met Thr Gln
370 375 380

Ser Pro Ser Ser Leu Ser Ala Arg Val Gly Asp Arg Val Thr Ile Lys
385 390 395 400

Cys Gln Ala Ser Gln Ser Ile Ser Asn Tyr Leu Ala Trp Tyr Gln Gln
405 410 415

Lys Pro Gly Lys Pro Pro Lys Phe Leu Ile Tyr Asp Ala Ser Asp Leu

420

425

430

Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp
 435 440 445

Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
 450 455 460

Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn Val Glu Asn Val Phe Gly
 465 470 475 480

Thr Gly Thr Lys Val Thr Val Leu Gly
 485

<210> 109

<211> 513

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 109

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Tyr Gly Gly Ser Ser Thr
 85 90 95

Thr Thr Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly

100

105

110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser
 145 150 155 160

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

Ile Gly His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala
 180 185 190

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys
 210 215 220

Ala Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly
 225 230 235 240

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
 245 250 255

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu
 275 280 285

Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 290 295 300

Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser
 305 310 315 320

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

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Thr Tyr
340 345 350

Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp
355 360 365

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
370 375 380

Gly Ser Gly Gly Gly Ser Gly Gln Ser Gln Leu Val Glu Ser Gly Gly
385 390 395 400

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Val Ser
405 410 415

Gly Phe Ser Leu Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro
420 425 430

Gly Lys Cys Leu Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr
435 440 445

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn
450 455 460

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
465 470 475 480

Thr Ala Val Tyr Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu
485 490 495

Asp Asp Gly Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser
500 505 510

Ser

<210> 110

<211> 501
<212> PRT
<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 110

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser

180

185

190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Leu Gln Met Thr Gln Ser Pro Ser
 260 265 270

Ser Leu Ser Ala Arg Val Gly Asp Arg Val Thr Ile Lys Cys Gln Ala
 275 280 285

Ser Gln Ser Ile Ser Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly
 290 295 300

Lys Pro Pro Lys Phe Leu Ile Tyr Asp Ala Ser Asp Leu Ala Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
 340 345 350

Gln Val Tyr Asp Ser Asn Asn Val Glu Asn Val Phe Gly Cys Gly Thr
 355 360 365

Lys Val Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly
 370 375 380

Gly Ser Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
 385 390 395 400

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val
405 410 415

Phe Ser Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser
420 425 430

Pro Lys Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro
435 440 445

Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
450 455 460

Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser
465 470 475 480

Tyr Ala Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys
485 490 495

Val Thr Val Leu Gly
500

<210> 111
<211> 513
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 111

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Tyr Gly Gly Ser Ser Thr
85 90 95

Thr Thr Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser
145 150 155 160

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

Ile Gly His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala
180 185 190

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys
210 215 220

Ala Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly
225 230 235 240

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
245 250 255

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu

275

280

285

Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 290 295 300

Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser
 305 310 315 320

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

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Thr Tyr
 340 345 350

Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp
 355 360 365

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
 370 375 380

Gly Ser Gly Gly Gly Ser Gly Gln Ser Gln Leu Val Glu Ser Gly Gly
 385 390 395 400

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Val Ser
 405 410 415

Gly Phe Ser Leu Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro
 420 425 430

Gly Lys Cys Leu Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr
 435 440 445

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn
 450 455 460

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 465 470 475 480

Thr Ala Val Tyr Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu
 485 490 495

Asp Asp Gly Phe Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser
500 505 510

Ser

<210> 112
<211> 494
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 112

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Leu Gln Met Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Arg Val Gly Asp Arg Val Thr Ile Lys Cys Gln Ala
275 280 285

Ser Gln Ser Ile Ser Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly
290 295 300

Lys Pro Pro Lys Phe Leu Ile Tyr Asp Ala Ser Asp Leu Ala Ser Gly
305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Phe Thr Leu
325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
340 345 350

Gln Val Tyr Asp Ser Asn Asn Val Glu Asn Val Phe Gly Cys Gly Thr

355

360

365

Lys Val Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met
 370 375 380

Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr
 385 390 395 400

Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala
 405 410 415

Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser
 420 425 430

Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
 435 440 445

Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
 450 455 460

Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp
 465 470 475 480

Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
 485 490

<210> 113

<211> 515

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 113

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

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

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro Lys Phe Leu Ile

35

40

45

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
 165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

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

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
370 375 380

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val Gln Leu Val
385 390 395 400

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
405 410 415

Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val
420 425 430

Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala
435 440 445

Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile
450 455 460

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu

465 470 475 480
 Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly Gly
 485 490 495
 Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Leu Val Thr
 500 505 510
 Val Ser Ser
 515
 <210> 114
 <211> 499
 <212> PRT
 <213> Artificial sequence
 <220>
 <223> artificial antibody-based or antibody-related sequence
 <400> 114
 Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Lys Cys Gln Ala Ser Gln Ser Ile Ser Asn Tyr
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Pro Pro Lys Phe Leu Ile
 35 40 45
 Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Arg Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95
 Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly

115

120

125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
 165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
 260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
 275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
 290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
370 375 380

Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
385 390 395 400

Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser
405 410 415

Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys
420 425 430

Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg
435 440 445

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
450 455 460

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala
465 470 475 480

Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr
485 490 495

Val Leu Gly

<210> 115
<211> 516
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 115

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Thr Asp Tyr Thr Thr Ser
85 90 95

Thr His Arg Asn Ser Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105 110

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
115 120 125

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser
145 150 155 160

Phe Ser Thr Thr Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys
165 170 175

Gly Leu Glu Trp Ile Gly Cys Thr Asn Thr Ala Ser Ser Val Arg Thr
180 185 190

Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
195 200 205

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

210

215

220

Thr Ala Val Tyr Tyr Cys Ala Arg Asp Met Gly Phe Ala Asp Tyr Ala
 225 230 235 240

Leu Asn Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 245 250 255

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

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
 275 280 285

Ser Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala
 290 295 300

Pro Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro
 305 310 315 320

Thr Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp
 325 330 335

Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
 340 345 350

Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser
 355 360 365

His Ser Asn Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 370 375 380

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val Gln Leu
 385 390 395 400

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
 405 410 415

Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp
 420 425 430

Val Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn
435 440 445

Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr
450 455 460

Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser
465 470 475 480

Leu Arg Ala Glu Asp Thr Ala Val Tyr Phe Cys Ala Arg Gly Ala Gly
485 490 495

Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Leu Val
500 505 510

Thr Val Ser Ser
515

<210> 116
<211> 493
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 116

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Thr Asp Tyr Thr Thr Ser
85 90 95

Thr His Arg Asn Ser Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105 110

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
115 120 125

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser
145 150 155 160

Phe Ser Thr Thr Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys
165 170 175

Gly Leu Glu Trp Ile Gly Cys Thr Asn Thr Ala Ser Ser Val Arg Thr
180 185 190

Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
195 200 205

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
210 215 220

Thr Ala Val Tyr Tyr Cys Ala Arg Asp Met Gly Phe Ala Asp Tyr Ala
225 230 235 240

Leu Asn Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
245 250 255

Gly Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro
260 265 270

Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln
275 280 285

Ala Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro

290

295

300

Gly Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser
 305 310 315 320

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
 325 330 335

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
 340 345 350

Gln Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys
 355 360 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met Thr
 370 375 380

Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile
 385 390 395 400

Thr Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala Trp
 405 410 415

Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser Ala
 420 425 430

Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 435 440 445

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 450 455 460

Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp Cys
 465 470 475 480

Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
 485 490

<210> 117

<211> 516

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 117

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Thr Asp Tyr Thr Thr Ser
85 90 95

Thr His Arg Asn Ser Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105 110

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
115 120 125

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser
145 150 155 160

Phe Ser Thr Thr Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys
165 170 175

Gly Leu Glu Trp Ile Gly Cys Thr Asn Thr Ala Ser Ser Val Arg Thr
180 185 190

Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
195 200 205

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
210 215 220

Thr Ala Thr Tyr Tyr Cys Ala Arg Asp Met Gly Phe Ala Asp Tyr Ala
225 230 235 240

Leu Asn Leu Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
245 250 255

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

Gly Gly Arg Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
275 280 285

Ser Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala
290 295 300

Pro Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro
305 310 315 320

Thr Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp
325 330 335

Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
340 345 350

Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser
355 360 365

His Ser Asn Ile Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly
370 375 380

Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val Gln Leu
385 390 395 400

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

405

410

415

Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp
 420 425 430

Val Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn
 435 440 445

Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr
 450 455 460

Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser
 465 470 475 480

Leu Arg Ala Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Ala Gly
 485 490 495

Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Gln Val
 500 505 510

Thr Val Ser Ser
 515

<210> 118

<211> 493

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 118

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

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

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

Tyr Leu Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly

50

55

60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Thr Asp Tyr Thr Thr Ser
85 90 95

Thr His Arg Asn Ser Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105 110

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
115 120 125

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser
145 150 155 160

Phe Ser Thr Thr Tyr Tyr Met Cys Trp Val Arg Gln Ala Pro Gly Lys
165 170 175

Gly Leu Glu Trp Ile Gly Cys Thr Asn Thr Ala Ser Ser Val Arg Thr
180 185 190

Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
195 200 205

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
210 215 220

Thr Ala Thr Tyr Tyr Cys Ala Arg Asp Met Gly Phe Ala Asp Tyr Ala
225 230 235 240

Leu Asn Leu Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
245 250 255

Gly Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro
260 265 270

Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln
275 280 285

Ala Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro
290 295 300

Gly Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser
305 310 315 320

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
325 330 335

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
340 345 350

Gln Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys
355 360 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met Thr
370 375 380

Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile
385 390 395 400

Thr Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala Trp
405 410 415

Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser Ala
420 425 430

Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
435 440 445

Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
450 455 460

Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp Cys
465 470 475 480

Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly

<210> 119
 <211> 515
 <212> PRT
 <213> Artificial sequence

<220>
 <223> artificial antibody-based or antibody-related sequence

<400> 119

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
 1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
 85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
 115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu

165

170

175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

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

Gly Arg Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 275 280 285

Gly Phe Ser Leu Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro
 290 295 300

Gly Lys Gly Leu Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr
 305 310 315 320

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 325 330 335

Ser Lys Asn Thr Val Tyr Leu Gln Met Cys Ser Leu Arg Ala Glu Asp
 340 345 350

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His
 355 360 365

Ser Asn Ile Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
 370 375 380

Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Glu Val Gln Leu Val
385 390 395 400

Glu Ser Gly Gly Gly Arg Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
405 410 415

Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser Tyr Ala Met Asn Trp Val
420 425 430

Arg Gln Ala Pro Gly Lys Cys Leu Glu Trp Ile Gly His Ile Asn Ala
435 440 445

Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys Gly Arg Phe Thr Ile
450 455 460

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu
465 470 475 480

Arg Ala Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Gly Ala Gly Gly
485 490 495

Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln Gly Thr Gln Val Thr
500 505 510

Val Ser Ser
515

<210> 120
<211> 499
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 120

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly

245

250

255

Gly Ser Gly Gly Gly Gly Ser Ala Phe Glu Leu Thr Gln Ser Pro Ser
 260 265 270

Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ala
 275 280 285

Ser Glu Ser Ile Asn Ser Arg Leu Ala Trp Tyr Gln Gln Lys Pro Gly
 290 295 300

Gln Pro Pro Lys Leu Leu Ile Tyr Asp Ala Ser Asp Leu Thr Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Cys Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
 340 345 350

Gly Tyr Gly Gly Ser Ser Thr Thr Thr Phe Gly Cys Gly Thr Lys Leu
 355 360 365

Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser
 370 375 380

Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
 385 390 395 400

Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser
 405 410 415

Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys
 420 425 430

Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg
 435 440 445

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
 450 455 460

Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala
465 470 475 480

Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr
485 490 495

Val Leu Gly

<210> 121
<211> 513
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 121

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Tyr Gly Gly Ser Ser Thr
85 90 95

Thr Thr Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser
145 150 155 160

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

Ile Gly His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala
180 185 190

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Thr Tyr Phe Cys
210 215 220

Ala Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly
225 230 235 240

Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
245 250 255

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu
275 280 285

Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
290 295 300

Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser
305 310 315 320

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

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

340

345

350

Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp
 355 360 365

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
 370 375 380

Gly Ser Gly Gly Gly Ser Gly Gln Ser Gln Leu Val Glu Ser Gly Gly
 385 390 395 400

Gly Arg Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Val Ser
 405 410 415

Gly Phe Ser Leu Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro
 420 425 430

Gly Lys Cys Leu Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr
 435 440 445

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn
 450 455 460

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 465 470 475 480

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu
 485 490 495

Asp Asp Gly Phe Asp Pro Trp Gly Gln Gly Thr Gln Val Thr Val Ser
 500 505 510

Ser

<210> 122
 <211> 501
 <212> PRT
 <213> Artificial sequence

<220>
 <223> artificial antibody-based or antibody-related sequence

<400> 122

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu
165 170 175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Leu Gln Met Thr Gln Ser Pro Ser
260 265 270

Ser Leu Ser Ala Arg Val Gly Asp Arg Val Thr Ile Lys Cys Gln Ala
275 280 285

Ser Gln Ser Ile Ser Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly
290 295 300

Lys Pro Pro Lys Phe Leu Ile Tyr Asp Ala Ser Asp Leu Ala Ser Gly
305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Phe Thr Leu
325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
340 345 350

Gln Val Tyr Asp Ser Asn Asn Val Glu Asn Val Phe Gly Cys Gly Thr
355 360 365

Lys Val Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly
370 375 380

Gly Ser Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
385 390 395 400

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val
405 410 415

Phe Ser Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser

420

425

430

Pro Lys Arg Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro
 435 440 445

Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 450 455 460

Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser
 465 470 475 480

Tyr Ala Cys Ser Ser Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys
 485 490 495

Val Thr Val Leu Gly
 500

<210> 123

<211> 513

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 123

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Tyr Gly Gly Ser Ser Thr

85

90

95

Thr Thr Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
 100 105 110

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu Ser Ser
 145 150 155 160

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

Ile Gly His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala
 180 185 190

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

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Thr Tyr Phe Cys
 210 215 220

Ala Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly
 225 230 235 240

Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
 245 250 255

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu
 275 280 285

Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
 290 295 300

Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser
305 310 315 320

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

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Thr Tyr
340 345 350

Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp
355 360 365

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
370 375 380

Gly Ser Gly Gly Gly Ser Gly Gln Ser Gln Leu Val Glu Ser Gly Gly
385 390 395 400

Gly Arg Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Val Ser
405 410 415

Gly Phe Ser Leu Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro
420 425 430

Gly Lys Cys Leu Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr
435 440 445

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Lys Asp Asn
450 455 460

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
465 470 475 480

Thr Ala Thr Tyr Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu
485 490 495

Asp Asp Gly Phe Asp Pro Trp Gly Gln Gly Thr Gln Val Thr Val Ser
500 505 510

Ser

<210> 124
<211> 494
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 124

Ala Leu Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Arg Val Gly
1 5 10 15

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

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

Tyr Asp Ala Ser Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Val Tyr Asp Ser Asn Asn
85 90 95

Val Glu Asn Val Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
115 120 125

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

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

Ser Ser Tyr Ala Met Gly Trp Val Arg Gln Ala Pro Gly Lys Cys Leu

165

170

175

Glu Tyr Ile Gly Tyr Ile Ser Lys Ile Gly Thr Thr Tyr Tyr Ala Ser
 180 185 190

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

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

Phe Cys Ala Arg Gly Ser Ser Ser Gly Gly Tyr Leu Asp Asp Gly Phe
 225 230 235 240

Asp Pro Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
 245 250 255

Gly Ser Gly Gly Gly Gly Ser Ala Leu Gln Met Thr Gln Ser Pro Ser
 260 265 270

Ser Leu Ser Ala Arg Val Gly Asp Arg Val Thr Ile Lys Cys Gln Ala
 275 280 285

Ser Gln Ser Ile Ser Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly
 290 295 300

Lys Pro Pro Lys Phe Leu Ile Tyr Asp Ala Ser Asp Leu Ala Ser Gly
 305 310 315 320

Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Arg Asp Phe Thr Leu
 325 330 335

Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln
 340 345 350

Gln Val Tyr Asp Ser Asn Asn Val Glu Asn Val Phe Gly Cys Gly Thr
 355 360 365

Lys Val Thr Val Leu Gly Gly Gly Ser Gly Gly Ser Asp Ile Gln Met
 370 375 380

Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr
385 390 395 400

Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr Leu Ala
405 410 415

Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Ser
420 425 430

Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
435 440 445

Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp
450 455 460

Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser Ala Asp
465 470 475 480

Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
485 490

<210> 125
<211> 756
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 125

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

Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Ile Ile Ser Ser Arg
20 25 30

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

Tyr Gln Ala Ser Lys Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Cys Thr Tyr Ile Asp Ser Asn
85 90 95

Phe Gly Ala Phe Gly Cys Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
115 120 125

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Leu
130 135 140

Ser Ser Tyr Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
145 150 155 160

Ala Trp Ile Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser
165 170 175

Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
180 185 190

Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Thr Tyr
195 200 205

Phe Cys Ala Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp
210 215 220

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
225 230 235 240

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile
245 250 255

Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg
260 265 270

Val Thr Ile Thr Cys Gln Ser Ser Gln Ser Val Phe Ser Asn Asn Tyr

275

280

285

Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ser Pro Lys Arg Leu Ile
 290 295 300

Tyr Ser Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 305 310 315 320

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 325 330 335

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gly Ser Tyr Ala Cys Ser Ser
 340 345 350

Ala Asp Cys Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
 355 360 365

Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
 370 375 380

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
 385 390 395 400

Ser Phe Ser Ser Ser Tyr Trp Ile Cys Trp Val Arg Gln Ala Pro Gly
 405 410 415

Lys Cys Leu Glu Trp Val Gly Cys Val Phe Thr Gly Asp Gly Thr Thr
 420 425 430

Tyr Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
 435 440 445

Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
 450 455 460

Thr Ala Thr Tyr Phe Cys Ala Arg Pro Val Ser Val Tyr Tyr Tyr Gly
 465 470 475 480

Met Asp Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
 485 490 495

Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro
500 505 510

Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Gln
515 520 525

Ala Ser Glu Ser Ile Gly Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro
530 535 540

Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Thr Leu Ala Ser
545 550 555 560

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
565 570 575

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
580 585 590

Gln Ser Thr Asp Tyr Gly Asp Ser Tyr Ile Phe Gly Thr Gly Thr Lys
595 600 605

Val Thr Val Leu Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
610 615 620

Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
625 630 635 640

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
645 650 655

Ala Ser Gly Ile Ser Val Ser Asn Asp Tyr Tyr Met Cys Trp Val Arg
660 665 670

Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile Gly Cys Ile Ser Thr Tyr
675 680 685

Ile Gly Asn Thr His Tyr Ala Ser Trp Ala Lys Gly Arg Phe Thr Ile
690 695 700

Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu

[illegible]

<220>
<221> Repeat
<222> (1)..(1)
<223> linker (GmS)n with m being selected from 2, 3 and 4 and n being selected from 2, 3, 4, 5 and 6

<220>
<221> Repeat
<222> (1)..(2)
<223> linker (GmS)n with m being selected from 2, 3 and 4 and n being selected from 2, 3, 4, 5 and 6

<400> 128

Gly Ser
1

<210> 129
<211> 122
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 129

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

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

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

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

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

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

Tyr Cys Ala Arg Ser Ala Trp Tyr Ser Gly Trp Gly Gly Asp Leu Trp
100 105 110

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

<210> 130

<211> 124

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 130

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

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

Tyr Trp Ile Cys Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp
35 40 45

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

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

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

Tyr Cys Ala Arg His Pro Ser Asp Ala Val Tyr Gly Tyr Ala Asn Asn
100 105 110

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

<210> 131

<211> 108

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 131

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Ser Ser Tyr Gly Asn Tyr Gly
85 90 95

Asp Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
100 105

<210> 132

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 132

Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly
1 5 10

<210> 133

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 133

Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly
1				5					10	

<210> 134

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 134

Phe	Gly	Gly	Gly	Thr	Gln	Leu	Ile	Ile	Leu	Gly
1				5					10	

<210> 135

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 135

Phe	Gly	Glu	Gly	Thr	Glu	Leu	Thr	Val	Leu	Gly
1				5					10	

<210> 136

<211> 11

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 136

Phe	Gly	Ser	Gly	Thr	Lys	Val	Thr	Val	Leu	Gly
1				5					10	

<210> 137

<211> 11

<212> PRT

<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 137

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Gly
1 5 10

<210> 138
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 138

Phe Gly Gly Gly Thr Gln Leu Thr Ala Leu Gly
1 5 10

<210> 139
<211> 11
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 139

Phe Gly Cys Gly Thr Lys Val Thr Val Leu Gly
1 5 10

<210> 140
<211> 119
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<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 Phe Ser Leu Ser Ser Tyr
20 25 30

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

Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser Trp Ala Lys
50 55 60

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

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

Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 141

<211> 119

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 141

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

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

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

Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser Trp Ala Lys
50 55 60

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

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

Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 142
<211> 119
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 142

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

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

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

Gly Ala Ser Tyr Ala Ser Gly Pro Thr Tyr Tyr Ala Ser Trp Ala Lys
50 55 60

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

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

Arg Gly Gly Trp Thr Gly Thr Ser His Ser Asn Ile Trp Gly Gln Gly
100 105 110

Thr Gln Val Thr Val Ser Ser
115

<210> 143
<211> 120
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 143

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

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

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

Gly His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys
50 55 60

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

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

Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 144
<211> 109
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 144

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Cys Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Tyr Gly Gly Ser Ser Thr
85 90 95

Thr Thr Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105

<210> 145

<211> 120

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 145

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

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

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

Gly His Ile Asn Ala Gly Asp Ile Ala Tyr Tyr Ala Thr Trp Ala Lys
50 55 60

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

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

Arg Gly Ala Gly Gly Phe Ser Thr Gly Pro Phe Lys Leu Trp Gly Gln
100 105 110

Gly Thr Gln Val Thr Val Ser Ser
115 120

<210> 146
<211> 109
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<400> 146

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

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

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

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

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Cys Leu Gln Pro
65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gly Tyr Gly Gly Ser Ser Thr
85 90 95

Thr Thr Phe Gly Cys Gly Thr Lys Leu Thr Val Leu Gly
100 105

<210> 147
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<220>
<221> Repeat
<222> (1)..(5)
<223> generic linker (GSGGS)n with n being 1 or larger

<400> 147

Gly Ser Gly Gly Ser
1 5

<210> 148
<211> 5
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<220>
<221> Repeat
<222> (1)..(5)
<223> generic linker (GGGGS)n with n being 1 or larger

<400> 148

Gly Gly Gly Gly Ser
1 5

<210> 149
<211> 4
<212> PRT
<213> Artificial sequence

<220>
<223> artificial antibody-based or antibody-related sequence

<220>
<221> Repeat
<222> (1)..(4)
<223> generic linker (GGGS)n with n being 1 or larger

<400> 149

Gly Gly Gly Ser
1

<210> 150

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<400> 150

Gly Gly Gly Gly Ser Gly Gly Gly Ser
1 5

<210> 151

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<223> artificial antibody-based or antibody-related sequence

<220>

<221> Repeat

<222> (1)..(5)

<223> generic linker (GGGGS)_n with n being selected from 1, 2, 3, 4, 5, 6, 7 and 8

<400> 151

Gly Gly Gly Gly Ser
1 5