

eolf-seql (5)
SEQUENCE LISTING

<110> ABLYNX NV

<120> IMPROVED TNF BINDERS

<130> 192557

<150> US62/254375

<151> 2015-11-12

<160> 105

<170> PatentIn version 3.5

<210> 1

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 1

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

eolf-seql (5)

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

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 2
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 2

Thr Ala Asp Met Gly
1 5

<210> 3
<211> 17
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<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 3

Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val Lys
1 5 10 15

Gly

<210> 4
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

eolf-seql (5)

<400> 4

Pro Arg Tyr Ala Asp Gln Trp Ser Ala Tyr Asp Tyr
1 5 10

<210> 5

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 5

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

<210> 6

<211> 10

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<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 6

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

<210> 7

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 7

Pro Arg Tyr Ala Asp Gln Trp Ser Ala Tyr Asp Tyr
1 5 10

eolf-seql (5)

<210> 8
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 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 8

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
 50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 9
 <211> 121
 <212> PRT
 <213> Artificial Sequence

eolf-seql (5)

<220>

<223> CDR Sequence

<400> 9

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Lys Val Ser Ser
115 120

<210> 10

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 10

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

eolf-seql (5)

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

<210> 11
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<220>
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<400> 11

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

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

eolf-seql (5)

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Lys Ser
115 120

<210> 12
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 12

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val

eolf-seql (5)

50

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60

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

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

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

Gln Gly Thr Leu Val Thr Val Gln Ser
115 120

<210> 13

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 13

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

eolf-seql (5)

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

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

Gln Gly Thr Leu Val Lys Val Ser Ser
115 120

<210> 14

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 14

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

Arg Ser Pro Arg Tyr Ala Asp Gln Trp Ser Ala Tyr Asp Tyr Trp Gly

eolf-seql (5)

100

105

110

Gln Gly Thr Leu Val Gln Val Ser Ser
115 120

<210> 15

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 15

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Lys Ser
115 120

eolf-seql (5)

<210> 16
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 16

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
 50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Gln Ser
 115 120

<210> 17
 <211> 121
 <212> PRT
 <213> Artificial Sequence

eolf-seql (5)

<220>

<223> CDR Sequence

<400> 17

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 18

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 18

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

eolf-seql (5)

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

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

<220>
 <223> CDR Sequence

<400> 19

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

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

eolf-seql (5)

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Gln Val Ser Ser
115 120

<210> 20
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 20

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val

eolf-seql (5)

50

55

60

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

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

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

Gln Gly Thr Leu Val Thr Val Lys Ser
115 120

<210> 21

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 21

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

eolf-seql (5)

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

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

Gln Gly Thr Leu Val Thr Val Gln Ser
115 120

<210> 22

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 22

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

Arg Ser Pro Arg Tyr Ala Asp Gln Trp Ser Ala Tyr Asp Tyr Trp Gly

eolf-seql (5)

100

105

110

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

<210> 23

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 23

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

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

eolf-seql (5)

<210> 24
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 24

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
 50 55 60

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

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

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

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

<210> 25
 <211> 122
 <212> PRT
 <213> Artificial Sequence

eolf-seql (5)

<220>

<223> CDR Sequence

<400> 25

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

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

<210> 26

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 26

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

eolf-seql (5)

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

<210> 27
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 27

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

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

eolf-seql (5)

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
 50 55 60

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

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

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

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

<210> 28
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 28

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val

eolf-seql (5)

50

55

60

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

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

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

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

<210> 29

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 29

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

eolf-seql (5)

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

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

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

<210> 30

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 30

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

Arg Ser Pro Arg Tyr Ala Asp Gln Trp Ser Ala Tyr Asp Tyr Trp Gly

eolf-seql (5)

100

105

110

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

<210> 31

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 31

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

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

eolf-seql (5)

<210> 32
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 32

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
 50 55 60

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

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

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

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

<210> 33
 <211> 122
 <212> PRT
 <213> Artificial Sequence

eolf-seql (5)

<220>

<223> CDR Sequence

<400> 33

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

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

<210> 34

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 34

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

eolf-seql (5)

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

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

<220>
 <223> CDR Sequence

<400> 35

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

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

eolf-seql (5)

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
 50 55 60

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

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

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

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

<210> 36
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 36

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

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

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

Ala Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val

eolf-seql (5)

50

55

60

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

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

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

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

<210> 37

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 37

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

eolf-seql (5)

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

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

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

<210> 38

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 38

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

Arg Ser Pro Arg Tyr Ala Asp Gln Trp Ser Ala Tyr Asp Tyr Trp Gly

eolf-seql (5)

100

105

110

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

<210> 39

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 39

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

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

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

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

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

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

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

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

eolf-seql (5)

<210> 40
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 40

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

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

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

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

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

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

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

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

<210> 41
 <211> 122
 <212> PRT
 <213> Artificial Sequence

eolf-seql (5)

<220>

<223> CDR Sequence

<400> 41

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

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

<210> 42

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> HIS6-FLAG3 tag

<400> 42

His His His His His His Gly Ala Ala Asp Tyr Lys Asp His Asp Gly

eolf-seql (5)

1 5 10 15

Asp Tyr Lys Asp His Asp Ile Asp Tyr Lys Asp Asp Asp Asp Lys Gly
 20 25 30

Ala Ala

<210> 43
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C-terminal end

<400> 43

Val Thr Val Lys Ser
 1 5

<210> 44
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C-terminal end

<400> 44

Val Thr Val Gln Ser
 1 5

<210> 45
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C-terminal end

<400> 45

eolf-seql (5)

Val Lys Val Ser Ser
1 5

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

<220>
<223> C-terminal end

<400> 46

Val Gln Val Ser Ser
1 5

<210> 47
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> C-terminal end

<220>
<221> SITE
<222> (6)..(6)
<223> Xaa stands for (X)_n which means C-terminal extension with n amino acids, wherein each position is chosen independently from any amino acids

<400> 47

Val Thr Val Lys Ser Xaa
1 5

<210> 48
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> C-terminal end

eolf-seql (5)

<220>
<221> SITE
<222> (6)..(6)
<223> Xaa stands for (X)n which means C-terminal extension with n amino acids, wherein each position is chosen independently from any amino acids

<400> 48

Val Thr Val Gln Ser Xaa
1 5

<210> 49
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> C-terminal end

<220>
<221> SITE
<222> (6)..(6)
<223> Xaa stands for (X)n which means C-terminal extension with n amino acids, wherein each position is chosen independently from any amino acids

<400> 49

Val Lys Val Ser Ser Xaa
1 5

<210> 50
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> C-terminal end

<220>
<221> SITE

eolf-seql (5)

<222> (6)..(6)

<223> Xaa stands for (X)n which means C-terminal extension with n amino acids, wherein each position is chosen independently from any amino acids

<400> 50

Val Gln Val Ser Ser Xaa
1 5

<210> 51

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> C-terminal end

<400> 51

Val Thr Val Lys Ser Ala
1 5

<210> 52

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> C-terminal end

<400> 52

Val Thr Val Gln Ser Ala
1 5

<210> 53

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> C-terminal end

<400> 53

eolf-seql (5)

Val Lys Val Ser Ser Ala
1 5

<210> 54
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> C-terminal end

<400> 54

Val Gln Val Ser Ser Ala
1 5

<210> 55
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> C-terminal end

<400> 55

Val Thr Val Ser Ser
1 5

<210> 56
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> C-terminal end

<220>
<221> SITE
<222> (6)..(6)
<223> Xaa stands for (X)_n which means C-terminal extension with n amino acids, wherein each position is chosen independently from any amino acids

eolf-seql (5)

<400> 56

Val Thr Val Ser Ser Xaa
1 5

<210> 57

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> C-terminal end

<400> 57

Val Thr Val Ser Ser Ala
1 5

<210> 58

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 58

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

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

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Lys Ala Gln Asn Thr Val Tyr

eolf-seql (5)

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

Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

<210> 60
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 60

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
 50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser

eolf-seql (5)

115

120

<210> 61
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 61

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
 50 55 60

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

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

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

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

<210> 62
 <211> 122
 <212> PRT

eolf-seql (5)

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 62

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

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

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

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

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

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

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

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

<210> 63

<211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 63

eolf-seql (5)

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

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

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

Cys Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

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

<210> 64
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 64

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

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

eolf-seql (5)

20

25

30

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

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

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

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

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

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

<210> 65

<211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 65

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

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

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

eolf-seql (5)

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

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

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

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 66
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 66

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

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

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

Ser Arg Ile Ser Gly Ile Asp Gly Thr Thr Tyr Tyr Asp Glu Pro Val
50 55 60

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

eolf-seql (5)

65		70		75		80
Leu	Gln	Met	Asn	Ser	Leu	Arg
			85			
				Pro	Glu	Asp
					90	
				Thr	Ala	Val
						Tyr
						95
						Tyr
						Cys
Arg	Pro	Ser	Gln	Tyr	Ala	Asp
		100				
				Gln	Trp	Ser
				105		
				Ala	Tyr	Asp
						110
						Tyr
						Trp
						Gly
Gln	Gly	Thr	Leu	Val	Thr	Val
		115				
				Ser	Ser	
				120		
<210>	67					
<211>	121					
<212>	PRT					
<213>	Artificial Sequence					
<220>						
<223>	CDR Sequence					
<400>	67					
Gln	Val	Gln	Leu	Val	Glu	Ser
1			5			
						Gly
						10
						Gly
						Leu
						Val
						Gln
						Ala
						Gly
						15
Ser	Leu	Arg	Leu	Ser	Cys	Thr
			20			
						Ala
						25
						Ser
						Gly
						Gln
						Thr
						Ser
						30
Asp	Met	Gly	Trp	Phe	Arg	Gln
		35				
						Pro
						40
						Pro
						Gly
						Lys
						Gly
						45
						Arg
						Glu
						Phe
						Val
Ala	Arg	Ile	Ser	Gly	Ile	Asp
						55
						Gly
						Thr
						Thr
						Tyr
						60
						Tyr
						Asp
						Glu
						Pro
						Val
Lys	Gly	Arg	Phe	Thr	Ile	Ser
65					70	
						Arg
						Asp
						Lys
						75
						Ala
						Gln
						Asn
						Thr
						Val
						80
						Tyr
Leu	Gln	Met	Asp	Ser	Leu	Lys
				85		
						Pro
						Glu
						90
						Asp
						Thr
						Ala
						Val
						Tyr
						95
						Tyr
						Cys

eolf-seql (5)

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

Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 68
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 68

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

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

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

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

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

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

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

Gln Gly Thr Gln Val Thr Val Ser Ser

eolf-seql (5)

115

120

<210> 69
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 69

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

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

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

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

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

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

Arg Ser Pro Arg Tyr Ala Asp Gln Trp Ser Ala His Asp Tyr Trp Gly
 100 105 110

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

<210> 70
 <211> 115
 <212> PRT

eolf-seql (5)

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 70

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

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 71

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 71

eolf-seql (5)

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

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 72
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 72

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

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

eolf-seql (5)

20

25

30

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Ala
115

<210> 73

<211> 116

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 73

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

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

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

eolf-seql (5)

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Ala
115

<210> 74
<211> 115
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 74

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

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

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr

65 70 75 80

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

85 90 95

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr

100 105 110

Val Ser Ser

115

eolf-seql (5)

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Lys
 100 105 110

Val Ser Ser Ala
 115

<210> 76
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 76

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

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
 100 105 110

Val Ser Ser

eolf-seql (5)

115

<210> 77
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 77

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

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
 100 105 110

Val Ser Ser Ala
 115

<210> 78
 <211> 117
 <212> PRT

eolf-seql (5)

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 78

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

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Ala Ala
115

<210> 79

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 79

eolf-seql (5)

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

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Ala Ala Ala
115

<210> 80
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> CDR Sequence

<400> 80

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

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

eolf-seql (5)

20

25

30

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Gly
115

<210> 81

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 81

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

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

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

eolf-seql (5)

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser Gly Gly
115

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

<220>
<223> CDR Sequence

<400> 82

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

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

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

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

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr

eolf-seql (5)

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
 100 105 110

Val Ser Ser
 115

<210> 84
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 84

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

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

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

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

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

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

Thr Ile Gly Gly Ser Leu Ser Arg Ser Ser Gln Gly Thr Leu Val Thr
 100 105 110

Val Ser Ser Ala

115

<210> 85
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker

<400> 85

Gly Gly Gly Gly Ser
1 5

<210> 86
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker

<400> 86

Ser Gly Gly Ser Gly Gly Ser
1 5

<210> 87
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker

<400> 87

Gly Gly Gly Gly Cys Gly Gly Gly Ser
1 5

<210> 88
<211> 9
<212> PRT

eolf-seql (5)

<213> Artificial Sequence

<220>

<223> Linker

<400> 88

Gly Gly Gly Gly Ser Gly Gly Gly Ser
1 5

<210> 89

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 89

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

<210> 90

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 90

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

<210> 91

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 91

eolf-seql (5)

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

Gly Ser

<210> 92
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker

<400> 92

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

Gly Gly Gly Ser
20

<210> 93
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Linker

<400> 93

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25

<210> 94
<211> 30
<212> PRT

eolf-seql (5)

<213> Artificial Sequence

<220>

<223> Linker

<400> 94

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

<210> 95

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 95

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser
35

<210> 96

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Linker

<400> 96

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly

eolf-seql (5)

1 5 10 15

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
20 25 30

Gly Gly Ser Gly Gly Gly Gly Ser
35 40

<210> 97
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> G1 Hinge
<400> 97

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

<210> 98
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> 9GS-G1 hinge
<400> 98

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

Thr His Thr Cys Pro Pro Cys Pro
20

<210> 99
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

eolf-seql (5)

<223> Llama upper long hinge region

<400> 99

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

<210> 100

<211> 62

<212> PRT

<213> Artificial Sequence

<220>

<223> G3 hinge

<400> 100

Glu Leu Lys Thr Pro Leu Gly Asp Thr Thr His Thr Cys Pro Arg Cys
1 5 10 15

Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro
20 25 30

Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro Glu
35 40 45

Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro
50 55 60

<210> 101

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> CDR Sequence

<400> 101

Ser Phe Gly Met Ser
1 5

eolf-seql (5)

<210> 102
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 102

Ser Ile Ser Gly Ser Gly Ser Asp Thr Leu Tyr Ala Asp Ser Val Lys
 1 5 10 15

Gly

<210> 103
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> CDR Sequence

<400> 103

Gly Gly Ser Leu Ser Arg
 1 5

<210> 104
 <211> 121
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> TNF006C11

<400> 104

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

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

eolf-seql (5)

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

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

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

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

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

Gln Gly Thr Gln Val Thr Val Ser Ser
 115 120

<210> 105
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Tag

<400> 105

Gly Gly Gly Cys
 1