

SEQUENCE LISTING

<110> Synthon Biopharmaceuticals B.V.
 VAN DER LEE Miranda Maria Cornelia
 ARIAANS Gerry
 SCHOUTEN Jan
 BLOMENROHR Marion
 GROOTHUIS Patrick Gerhard
 COUMANS Rudy Gerardus Elisabeth

<120> LFTF antibodies and ADCs

<130> P1688EP00

<160> 64

<170> BiSSAP 1.3

<210> 1

<211> 115

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> HC variable region of clone/well 789 - rabbit

<400> 1

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

<210> 2

<211> 113

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> LC variable region of clone/well 789 - rabbit

eolf-othd-000001

<400> 2

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

<210> 3

<211> 118

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> HC variable region of clone/well 811 - rabbit

<400> 3

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

<210> 4

<211> 110

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> LC variable region of clone/well 811 - rabbit

eolf-othd-000001

<400> 4

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

<210> 5

<211> 118

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> HC variable region of clone/well 825 - rabbit

<400> 5

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

<210> 6

<211> 110

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> LC variable region of clone/well 825 - rabbit

<400> 6

Gly	Tyr	Asp	Met	Thr	Gln	Thr	Pro	Ala	Ser	Val	Ser	Ala	Ala	Val	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

eolf-othd-000001

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

<210> 7

<211> 121

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> HC variable region of clone/well 828 - rabbit

<400> 7

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

<210> 8

<211> 110

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> LC variable region of clone/well 828 - rabbit

<400> 8

Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Ser	Ser	Val	Ser	Ala	Ala	Val	Gly	
1				5				10					15			
Gly	Thr	Val	Thr	Ile	Asn	Cys	Gln	Ala	Ser	Gln	Asn	Ile	Tyr	Ser	Asn	

eolf-othd-000001

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

<210> 9

<211> 117

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> HC variable region of clone/well 829 - rabbit

<400> 9

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

<210> 10

<211> 109

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> LC variable region of clone/well 829 - rabbit

<400> 10

Asp	Val	Val	Met	Thr	Gln	Thr	Pro	Ser	Ser	Val	Ser	Ala	Gly	Val	Gly
1			5					10						15	
Gly	Thr	Val	Thr	Ile	Lys	Cys	Gln	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Tyr
		20					25					30			
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Arg	Pro	Lys	Leu	Leu	Ile

eolf-othd-000001

	35					40					45				
Tyr	Ala	Ala	Ser	Thr	Leu	Ala	Ser	Gly	Val	Ser	Ser	Arg	Phe	Lys	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Glu	Tyr	Thr	Leu	Thr	Ile	Asn	Asp	Leu	Glu	Ser
65					70					75					80
Ala	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys	Gln	Cys	Thr	Tyr	Tyr	Gly	Gly	Thr
				85					90					95	
Tyr	Asn	Thr	Phe	Gly	Gly	Gly	Thr	Glu	Val	Val	Val	Lys			
			100					105							

<210> 11

<211> 119

<212> PRT

<213> Oryctolagus cuniculus

 $\langle 220 \rangle$

<223> HC variable region of clone/well 833 - rabbit

<400> 11

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

$\langle 210 \rangle$ 12

 $\langle 211 \rangle$ 110

<212> PRT

<213> Oryctolagus cuniculus

 $\langle 220 \rangle$

<223> LC variable region of clone/well 833 - rabbit

<400> 12

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

eolf-othd-000001

50		55		60	
Ser	Gly	Ser	Gly	Thr	Glu
65		70		75	
Ala	Asp	Ala	Ala	Thr	Tyr
		85		90	
Ile	Asp	Asn	Ala	Phe	Gly
		100		105	

<210> 13
 <211> 120
 <212> PRT
 <213> Oryctolagus cuniculus

<220>
 <223> HC variable region of clone/well 834 - rabbit

<400> 13	
Gln	Ser
1	
Leu	Thr
	20
Met	Ser
	35
Val	Ile
	50
Arg	Phe
65	
Ser	Pro
	85
Ile	Ser
	100
Gly	Thr
	115

<210> 14
 <211> 110
 <212> PRT
 <213> Oryctolagus cuniculus

<220>
 <223> LC variable region of clone/well 834 - rabbit

<400> 14	
Asp	Ile
1	
Gly	Thr
	20
Leu	Ala
	35
Tyr	Ser
	50
Ser	Gly

eolf-othd-000001

65				70				75				80			
Ala	Asp	Ala	Ala	Thr	Tyr	Tyr	Cys	Gln	Cys	Thr	Asp	Tyr	Gly	Ser	Asp
				85				90						95	
Tyr	Met	Gly	Ala	Phe	Gly	Gly	Gly	Thr	Gly	Val	Val	Val	Lys		
			100					105					110		

<210> 15

<211> 117

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> HC variable region of clone/well 835 - rabbit

<400> 15

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

<210> 16

<211> 109

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> LC variable region of clone/well 835 - rabbit

<400> 16

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

eolf-othd-000001

				85					90				95
Ser	Leu	Thr	Phe	Gly	Ala	Gly	Thr	Lys	Val	Glu	Ile	Lys	
			100					105					

<210> 17

<211> 120

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> HC variable region of clone/well 841 - rabbit

<400> 17

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

<210> 18

<211> 110

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> LC variable region of clone/well 841 - rabbit

<400> 18

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

100

105

110

<210> 19

<211> 121

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> HC variable region of clone/well 843 - rabbit

<400> 19

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

<210> 20

<211> 110

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> LC variable region of clone/well 843 - rabbit

<400> 20

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

<210> 21

<211> 119

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> HC variable region of clone/well 845 - rabbit

<400> 21

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

<210> 22

<211> 110

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> LC variable region of clone/well 845 - rabbit

<400> 22

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

<210> 23

<211> 118

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> HC variable region of clone/well 847 - rabbit

<400> 23

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

<210> 24

<211> 109

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> LC variable region of clone/well 847 - rabbit

<400> 24

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

<210> 25

<211> 120

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> HC variable region of clone/well 848 - rabbit

<400> 25

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

<210> 26

<211> 110

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> LC variable region of clone/well 848 - rabbit

<400> 26

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

<210> 27

<211> 117

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> HC variable region of clone/well 849 - rabbit

<400> 27

```

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

```

<210> 28

<211> 109

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> LC variable region of clone/well 849 - rabbit

<400> 28

```

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

```

<210> 29

<211> 118

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> HC variable region of clone/well 868 - rabbit

eolf-othd-000001

<400> 29

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

<210> 30

<211> 110

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> LC variable region of clone/well 868 - rabbit

<400> 30

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

<210> 31

<211> 120

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> HC variable region of clone/well 899 - rabbit

<400> 31

Gln Ser Val Glu Glu Ser Gly Gly Arg Leu Val Thr Pro Gly Thr Pro

eolf-othd-000001

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

<210> 32

<211> 110

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> LC variable region of clone/well 899 - rabbit

<400> 32

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

<210> 33

<211> 118

<212> PRT

<213> Oryctolagus cuniculus

<220>

<223> HC variable region of clone/well 908 - rabbit

<400> 33

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

eolf-othd-000001

```

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

```

<210> 34

<211> 110

<212> PRT

<213> *Oryctolagus cuniculus*

<220>

<223> LC variable region of clone/well 908 - rabbit

<400> 34

```

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

```

<210> 35

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> HC variable region 789 humanized version 1

<400> 35

```

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

```

eolf-othd-000001

```

      35              40              45
Ser Ile Ile Ala Gly Arg Gly Ser Thr Tyr Tyr Ala Ser Trp Ala Lys
  50              55              60
Gly Arg Phe Thr Ile Ser Lys Asp Asn Ser Glu Gly Met 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 Val Ser Ser Ile Tyr Tyr Thr Phe Asn Leu Trp Gly Gln Gly Thr
      100              105              110
Thr Val Thr Val Ser Ser
      115

```

<210> 36

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> HC variable region 789 humanized version 2

<400> 36

```

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

```

<210> 37

<211> 117

<212> PRT

<213> Artificial Sequence

<220>

<223> HC variable region 789 humanized version 3

<400> 37

```

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

```

eolf-othd-000001

[illegible]

<210> 38

$\langle 211 \rangle$ 121

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 825 humanized version 1

<400> 38

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

<210> 39

$\langle 211 \rangle$ 121

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> HC variable region 825 humanized version 2

<400> 39

Glu	Val	Gln	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Lys	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ile	Asp	Leu	Ser	Ser	Tyr
			20					25					30		
Gly	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val

eolf-othd-000001

	35					40					45					
Ser	Ile	Ile	Ser	Arg	Asn	Ser	Val	Thr	Tyr	Tyr	Ala	Thr	Trp	Ala	Lys	
	50					55					60					
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	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	Arg	Ala	Thr	Tyr	Ser	Gly	Ala	Leu	Gly	Tyr	Phe	Asp	Ile	Trp	Gly	
			100					105					110			
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser								
		115					120									

$\langle 210 \rangle$ 40

$\langle 211 \rangle$ 122

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 833 humanized version 1

$\langle 400 \rangle$ 40

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

<210> 41

<211> 122

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 833 humanized version 2

<400> 41

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	Asp	Leu	Ser	His	Tyr
			20					25					30		
Val	Val	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val

eolf-othd-000001

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

<210> 42

<211> 122

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 833 humanized version 3

<400> 42

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

<210> 43

$\langle 211 \rangle$ 121

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 833 humanized version 4

<400> 43

Gln	Ser	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser
1				5					10					15	
Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Ile	Asp	Leu	Ser	His	Tyr	Val
			20					25					30		
Val	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Ile	Gly

eolf-othd-000001

```

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

```

<210> 44

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region 789 humanized version 1

<400> 44

```

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

```

<210> 45

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region 789 humanized version 2

<400> 45

```

Glu Ile Val 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 Ser Ser Gln Ser Val Tyr Ser Asn
      20              25              30
Asn Glu Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu

```

eolf-othd-000001

```

      35              40              45
Leu Ile Tyr Tyr 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 Gln Gly Ser Tyr Tyr Ser
      85              90              95
Gly Ser Gly Trp Tyr Tyr Ala Phe Gly Gln Gly Thr Lys Leu Glu Ile
      100              105              110
Lys

```

<210> 46

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region 789 humanized version 3

<400> 46

```

Ala Gln Val 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 Ser Ser Gln Ser Val Tyr Ser Asn
      20              25              30
Asn Glu Leu Ser Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
      35              40              45
Leu Ile Tyr Tyr 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 Gln Gly Ser Tyr Tyr Ser
      85              90              95
Gly Ser Gly Trp Tyr Tyr Ala Phe Gly Gly Gly Thr Lys Val Glu Ile
      100              105              110
Lys

```

<210> 47

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region 825 humanized version 1

<400> 47

```

Glu Ile 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 Glu Asn Ile Tyr Ser Thr
      20              25              30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

```

eolf-othd-000001

```

      35              40              45
Tyr Asp Ala Phe Asp Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
  50              55              60
Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
65              70              75              80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Gly Tyr Ser Gly Thr Asn
      85              90              95
Val Asp Asn Ala Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
      100              105              110

```

<210> 48

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region 825 humanized version 2

<400> 48

```

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

```

<210> 49

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region 833 humanized version 1

<400> 49

```

Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly
1              5              10              15
Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Ser Ile Gly Ser Glu
      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 Glu Ser Gly Val Pro Ser Arg Phe Ser Gly
      50              55              60
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro

```

eolf-othd-000001

65				70				75			80				
Asp	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Gly	Tyr	Thr	Tyr	Ser	Glu
				85				90						95	
Ile	Asp	Asn	Ala	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys		
			100					105					110		

<210> 50

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region 833 humanized version 2

<400> 50

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

<210> 51

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<223> LC variable region 833 humanized version 3

<400> 51

Ala	Tyr	Asp	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val	Gly
1				5				10						15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Gln	Ala	Ser	Gln	Ser	Ile	Gly	Ser	Glu
			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	Glu	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	Gly	Tyr	Thr	Tyr	Ser	Glu
				85				90						95	
Ile	Asp	Asn	Ala	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys		

100

105

110

<210> 52

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> H8 HC

<400> 52

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

<210> 53

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> H8 LC

<400> 53

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

<210> 54

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> HAVT20 leader sequence

<400> 54

Met	Ala	Cys	Pro	Gly	Phe	Leu	Trp	Ala	Leu	Val	Ile	Ser	Thr	Cys	Leu
1				5					10					15	
Glu	Phe	Ser	Met	Ala											
				20											

<210> 55

<211> 330

<212> PRT

<213> Artificial Sequence

<220>

<223> Human IgG1 antibody HC constant region

<400> 55

Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys
1				5					10					15	
Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr
			20					25					30		
Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
		35					40					45			
Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser
	50					55					60				
Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr
65					70				75					80	
Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys
			85						90					95	
Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys
			100					105					110		
Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro
		115				120						125			
Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys
					135						140				
Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp
145					150					155					160
Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu
			165						170					175	
Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu
			180					185					190		
His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn
		195				200						205			
Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly
	210					215					220				
Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu

eolf-othd-000001

225					230					235					240
Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr
				245					250					255	
Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn
			260					265					270		
Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe
		275					280					285			
Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn
	290					295				300					
Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr
305					310					315					320
Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys						
				325					330						

<210> 56

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Human IgG antibody LC kappa constant region

<400> 56

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

<210> 57

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> rabbit leader sequence for heavy chain

<400> 57

Met	Gly	Trp	Thr	Leu	Val	Phe	Leu	Phe	Leu	Leu	Ser	Val	Thr	Ala	Gly
1				5				10						15	
Val	His	Ser													

<210> 58
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Rabbit leader sequence for light chain

<400> 58
 Met Val Ser Ser Ala Gln Phe Leu Gly Leu Leu Leu Leu Cys Phe Gln
 1 5 10 15
 Gly Thr Arg Cys
 20

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

<220>
 <223> HC variable region 825 humanized version 1 41C

<400> 59
 Glu Val Gln Leu Val Glu Ser Gly Gly Asp Leu Ala Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Ile Asp Leu Ser Ser Tyr
 20 25 30
 Gly Met Gly Trp Val Arg Gln Ala Cys Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ile Ile Ser Arg Asn Ser Val Thr 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 Thr Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Phe Cys Ala
 85 90 95
 Arg Arg Ala Thr Tyr Ser Gly Ala Leu Gly Tyr Phe Asp Ile 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> HC variable region 825 humanized version 2 41C

<400> 60
 Glu Val Gln Leu Glu Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Ser Ser Tyr

eolf-othd-000001

20						25						30						
Gly	Met	Gly	Trp	Val	Arg	Gln	Ala	Cys	Gly	Lys	Gly	Leu	Glu	Trp	Val			
35						40						45						
Ser	Ile	Ile	Ser	Arg	Asn	Ser	Val	Thr	Tyr	Tyr	Ala	Thr	Trp	Ala	Lys			
50						55						60						
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	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	Arg	Ala	Thr	Tyr	Ser	Gly	Ala	Leu	Gly	Tyr	Phe	Asp	Ile	Trp	Gly			
100						105						110						
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser										
115						120												

<210> 61

$\langle 211 \rangle$ 122

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 833 humanized version 1 41C

<400> 61

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

<210> 62

<211> 122

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 833 humanized version 2 41C

<400> 62

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 Asp Leu Ser His Tyr

eolf-othd-000001

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

<210> 63

$\langle 211 \rangle$ 122

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 833 humanized version 3 41C

<400> 63

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

<210> 64

$\langle 211 \rangle$ 121

<212> PRT

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> HC variable region 833 humanized version 4 41C

<400> 64

Gln Ser Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
1 5 10 15
Leu Arg Leu Ser Cys Ala Ala Ser Gly Ile Asp Leu Ser His Tyr Val

eolf-othd-000001

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