

SEQUENCE LISTING

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<120> CLL-1 TARGETED IMMUNOTHERAPIES

<130> BLBD-120/01WO 315698-3172

<150> US 62/845,306

<151> 2019-05-08

<160> 87

<170> PatentIn version 3.5

<210> 1

<211> 265

<212> PRT

<213> Homo sapiens

<400> 1

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

Pro	Ala	Pro	Ser	His	Val	Trp	Arg	Pro	Ala	Ala	Leu	Phe	Leu	Thr	Leu
		35					40					45			

Leu	Cys	Leu	Leu	Leu	Leu	Ile	Gly	Leu	Gly	Val	Leu	Ala	Ser	Met	Phe
	50					55					60				

His	Val	Thr	Leu	Lys	Ile	Glu	Met	Lys	Lys	Met	Asn	Lys	Leu	Gln	Asn
65					70					75					80

Ile	Ser	Glu	Glu	Leu	Gln	Arg	Asn	Ile	Ser	Leu	Gln	Leu	Met	Ser	Asn
				85					90					95	

Met Asn Ile Ser Asn Lys Ile Arg Asn Leu Ser Thr Thr Leu Gln Thr
100 105 110

Ile Ala Thr Lys Leu Cys Arg Glu Leu Tyr Ser Lys Glu Gln Glu His
115 120 125

Lys Cys Lys Pro Cys Pro Arg Arg Trp Ile Trp His Lys Asp Ser Cys
130 135 140

Tyr Phe Leu Ser Asp Asp Val Gln Thr Trp Gln Glu Ser Lys Met Ala
145 150 155 160

Cys Ala Ala Gln Asn Ala Ser Leu Leu Lys Ile Asn Asn Lys Asn Ala
165 170 175

Leu Glu Phe Ile Lys Ser Gln Ser Arg Ser Tyr Asp Tyr Trp Leu Gly
180 185 190

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

Ile Asn Ser Ser Ala Trp Val Ile Arg Asn Ala Pro Asp Leu Asn Asn
210 215 220

Met Tyr Cys Gly Tyr Ile Asn Arg Leu Tyr Val Gln Tyr Tyr His Cys
225 230 235 240

Thr Tyr Lys Lys Arg Met Ile Cys Glu Lys Met Ala Asn Pro Val Gln
245 250 255

Leu Gly Ser Thr Tyr Phe Arg Glu Ala
260 265

<210> 2

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH domain

<400> 2

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

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

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

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

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

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

His Ala Asp Leu Thr Lys Ala Tyr Asp Val Glu Tyr Ala Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 3
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<400> 3

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

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

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

Ser Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala Tyr Ala Glu Ser Val
50 55 60

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

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

Asn Leu Asp Val His Gly Arg Val Gly Ala Gln Gly Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Lys Pro
115 120

<210> 4
<211> 129
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<400> 4

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

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

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

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

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

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

Ala Leu Arg Glu Gly Leu Pro Leu Leu Leu Asp Thr Leu Trp Arg Gln
100 105 110

Pro Val Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Lys
115 120 125

Pro

<210> 5
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<400> 5

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

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

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

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

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

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

His Thr Asp Glu Trp Gly Arg Glu Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Lys Pro
115

<210> 6
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<400> 6

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Glu Tyr Asp
20 25 30

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

Ala Gly Ile Ser Trp Ser Gly Gly Ser Ile Tyr Tyr Ala Glu Ser Val
50 55 60

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

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

Asn Val Gly Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro
100 105 110

<210> 7
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<400> 7

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

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

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

Ala Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala Tyr Ala Glu Ser Val
50 55 60

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

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

His Arg Thr Asp Glu Gly Ala Ala His Ala Cys Ser Arg Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Lys Pro
115

<210> 8
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<220>
<221> MOD_RES
<222> (119)..(120)
<223> Xaa is any amino acid or absent

<400> 8

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

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

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

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

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

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

His Ala Asp Leu Thr Lys Ala Tyr Asp Val Glu Tyr Ala Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Xaa Xaa
115 120

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

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<220>
<221> MOD_RES
<222> (120)..(121)
<223> Xaa is any amino acid or absent

<400> 9

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

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

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

Ser Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala Tyr Ala Glu Ser Val
50 55 60

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

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

Asn Leu Asp Val His Gly Arg Val Gly Ala Gln Gly Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Xaa Xaa
115 120

<210> 10
<211> 129
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MOD_RES
<222> (128)..(129)
<223> Xaa is any amino acid or absent

<400> 10

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

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

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

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

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

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

Ala Leu Arg Glu Gly Leu Pro Leu Leu Leu Asp Thr Leu Trp Arg Gln
100 105 110

Pro Val Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Xaa
115 120 125

Xaa

<210> 11
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<220>
<221> MOD_RES
<222> (115)..(116)
<223> Xaa is any amino acid or absent

<400> 11

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

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

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

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

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

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

His Thr Asp Glu Trp Gly Arg Glu Tyr Trp Gly Gln Gly Thr Leu Val
100 105 110

Thr Val Xaa Xaa
115

<210> 12
<211> 112
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> MOD_RES
<222> (111)..(112)
<223> Xaa is any amino acid or absent

<400> 12

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Glu Tyr Asp
20 25 30

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

Ala Gly Ile Ser Trp Ser Gly Gly Ser Ile Tyr Tyr Ala Glu Ser Val
50 55 60

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

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

Asn Val Gly Ser Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Xaa Xaa
100 105 110

<210> 13
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH domain

<220>
<221> MOD_RES
<222> (118)..(119)
<223> Xaa is any amino acid or absent

<400> 13

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

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

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

Ala Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala Tyr Ala Glu Ser Val
50 55 60

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

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

His Arg Thr Asp Glu Gly Ala Ala His Ala Cys Ser Arg Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Xaa Xaa
115

<210> 14
<211> 287
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH DARIC binding component

<400> 14

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Leu
35 40 45

Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys Glu
50 55 60

Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly Tyr Ser Thr Ala Tyr
65 70 75 80

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
85 90 95

Asn Thr Ile Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys His Ala Asp Leu Thr Lys Ala Tyr Asp Val Glu Tyr
115 120 125

Ala Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly
130 135 140

Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe
145 150 155 160

Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu
165 170 175

Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys
180 185 190

Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val
195 200 205

Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp
210 215 220

Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala
225 230 235 240

Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met
245 250 255

Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly
260 265 270

Leu Gly Ile Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
275 280 285

<210> 15
<211> 288
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH DARIC binding component

<400> 15

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
35 40 45

Phe Ser Val Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys Glu
50 55 60

Arg Glu Trp Val Ser Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala Tyr
65 70 75 80

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
85 90 95

Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Asn Leu Asp Val His Gly Arg Val Gly Ala Gln Gly
115 120 125

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly
130 135 140

Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr
145 150 155 160

Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu
165 170 175

Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe
180 185 190

Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly
195 200 205

Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro
210 215 220

Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His
225 230 235 240

Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg
245 250 255

Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile
260 265 270

Gly Leu Gly Ile Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
275 280 285

<210> 16

<211> 296

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH DARIC binding component

<400> 16

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
35 40 45

Phe Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
50 55 60

Arg Glu Gly Val Ser Thr Ile Ser Ser Ser Asp Gly Ser Thr Tyr Tyr
65 70 75 80

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
85 90 95

Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Ala Leu Arg Glu Gly Leu Pro Leu Leu Leu Asp Thr
115 120 125

Leu Trp Arg Gln Pro Val Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln
130 135 140

Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr
145 150 155 160

Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys
165 170 175

Val Val His Tyr Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser
180 185 190

Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu
195 200 205

Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln
 210 215 220

Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly
 225 230 235 240

His Pro Gly Ile Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu
 245 250 255

Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly
 260 265 270

Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly Ile Phe Phe Cys Val
 275 280 285

Arg Cys Arg His Arg Arg Arg Gln
 290 295

<210> 17
 <211> 283
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in Lab - anti-CLL-1 VHH DARIC binding component

<400> 17

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
 1 5 10 15

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Leu
 35 40 45

Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys Glu
 50 55 60

Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly Tyr Ser Thr Ala Tyr
 65 70 75 80

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
85 90 95

Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys His Thr Asp Glu Trp Gly Arg Glu Tyr Trp Gly Gln
115 120 125

Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly Val Gln
130 135 140

Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys Arg Gly
145 150 155 160

Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly Lys Lys
165 170 175

Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met Leu Gly
180 185 190

Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln Met Ser
195 200 205

Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala Tyr Gly
210 215 220

Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu Val Phe
225 230 235 240

Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu Ile Val
245 250 255

Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly Ile Phe
260 265 270

Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
275 280

<210> 18
<211> 279

<212> PRT
<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH DARIC binding component

<400> 18

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr
35 40 45

Phe Glu Tyr Asp Asp Met Val Trp Phe Arg Gln Ala Pro Gly Lys Glu
50 55 60

Arg Glu Glu Val Ala Gly Ile Ser Trp Ser Gly Gly Ser Ile Tyr Tyr
65 70 75 80

Ala Glu Ser Val Lys Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala Lys
85 90 95

Asn Thr Val Tyr Leu Glu Met Asn Arg Leu Lys Pro Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys Asn Val Gly Ser Tyr Trp Gly Gln Gly Thr Leu Val
115 120 125

Thr Val Lys Pro Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile
130 135 140

Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val
145 150 155 160

Val His Tyr Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser
165 170 175

Arg Asp Arg Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val
180 185 190

Ile Arg Gly Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg
195 200 205

Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His
210 215 220

Pro Gly Ile Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu
225 230 235 240

Leu Lys Leu Glu Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val
245 250 255

Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly Ile Phe Phe Cys Val Arg
260 265 270

Cys Arg His Arg Arg Arg Gln
275

<210> 19

<211> 286

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH DARIC binding component

<400> 19

Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
1 5 10 15

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

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
35 40 45

Phe Arg Ile Asn Asp Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Glu
50 55 60

Cys Glu Met Val Ala Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala Tyr
65 70 75 80

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
85 90 95

Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala
100 105 110

Val Tyr Tyr Cys His Arg Thr Asp Glu Gly Ala Ala His Ala Cys Ser
115 120 125

Arg Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly Ser
130 135 140

Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro
145 150 155 160

Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp
165 170 175

Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe
180 185 190

Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala
195 200 205

Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr
210 215 220

Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr
225 230 235 240

Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala
245 250 255

Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu
260 265 270

Gly Ile Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
275 280 285

<210> 20
<211> 612
<212> PRT
<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH DARIC fusion protein

<400> 20

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly
385 390 395 400

Tyr Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Ile Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Ala Asp Leu Thr Lys Ala
435 440 445

Tyr Asp Val Glu Tyr Ala Trp Gly Gln Gly Thr Leu Val Thr Val Lys
450 455 460

Pro Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly
465 470 475 480

Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr
485 490 495

Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg
500 505 510

Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly
515 520 525

Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu
530 535 540

Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile
545 550 555 560

Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu
565 570 575

Glu Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu
580 585 590

Leu Leu Phe Ile Gly Leu Gly Ile Phe Phe Cys Val Arg Cys Arg His
595 600 605

Arg Arg Arg Gln
610

<210> 21
<211> 613
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH DARIC fusion protein

<400> 21

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Ser Val Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ser Gly Ile Ser Asn Asn Gly
385 390 395 400

Phe Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Leu Asp Val His Gly Arg
435 440 445

Val Gly Ala Gln Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
450 455 460

Lys Pro Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro
465 470 475 480

Gly Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His
485 490 495

Tyr Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp
500 505 510

Arg Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg
515 520 525

Gly Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys
530 535 540

Leu Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly
545 550 555 560

Ile Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys
565 570 575

Leu Glu Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly
580 585 590

Leu Leu Leu Phe Ile Gly Leu Gly Ile Phe Phe Cys Val Arg Cys Arg
595 600 605

His Arg Arg Arg Gln
610

<210> 22
<211> 621
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH DARIC fusion protein

<400> 22

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln
370 375 380

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

Gly Ser Thr Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Leu Arg Glu Gly Leu Pro
435 440 445

Leu Leu Leu Asp Thr Leu Trp Arg Gln Pro Val Glu Tyr Asp Tyr Trp
450 455 460

Gly Gln Gly Thr Gln Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly
465 470 475 480

Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys
485 490 495

Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly
500 505 510

Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met
515 520 525

Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln
530 535 540

Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala
545 550 555 560

Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu
565 570 575

Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu
580 585 590

Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly
595 600 605

Ile Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
610 615 620

<210> 23
<211> 608
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH DARIC fusion protein

<400> 23

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Leu Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly
385 390 395 400

Tyr Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Thr Asp Glu Trp Gly Arg
435 440 445

Glu Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly
450 455 460

Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr
465 470 475 480

Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu
485 490 495

Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe
500 505 510

Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly
515 520 525

Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro
530 535 540

Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His
545 550 555 560

Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg
565 570 575

Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile
580 585 590

Gly Leu Gly Ile Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
595 600 605

<210> 24

<211> 604

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH DARIC fusion protein

<400> 24

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Arg Thr Phe Glu Tyr Asp Asp Met Val Trp Phe Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Glu Val Ala Gly Ile Ser Trp Ser Gly
385 390 395 400

Gly Ser Ile Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Ser Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Glu Met Asn Arg Leu Lys
420 425 430

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Val Gly Ser Tyr Trp Gly
435 440 445

Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly Val
450 455 460

Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys Arg
465 470 475 480

Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly Lys
485 490 495

Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met Leu
500 505 510

Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln Met
515 520 525

Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala Tyr
530 535 540

Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu Val
545 550 555 560

Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu Ile
565 570 575

Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly Ile
580 585 590

Phe Phe Cys Val Arg Cys Arg His Arg Arg Arg Gln
595 600

<210> 25
<211> 611
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH DARIC fusion protein

<400> 25

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Arg Ile Asn Asp Met Gly Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Cys Glu Met Val Ala Gly Ile Ser Asn Asn Gly
385 390 395 400

Phe Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Arg Thr Asp Glu Gly Ala
435 440 445

Ala His Ala Cys Ser Arg Gly Gln Gly Thr Leu Val Thr Val Lys Pro
450 455 460

Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp
465 470 475 480

Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr
485 490 495

Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn
500 505 510

Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp
515 520 525

Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr
530 535 540

Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile
545 550 555 560

Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
565 570 575

Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu
580 585 590

Leu Phe Ile Gly Leu Gly Ile Phe Phe Cys Val Arg Cys Arg His Arg
595 600 605

Arg Arg Gln
610

<210> 26
<211> 644
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL1 DARIC.OX40 fusion protein

<400> 26

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly
385 390 395 400

Tyr Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Ile Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Ala Asp Leu Thr Lys Ala
435 440 445

Tyr Asp Val Glu Tyr Ala Trp Gly Gln Gly Thr Leu Val Thr Val Lys
450 455 460

Pro Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly
465 470 475 480

Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr
485 490 495

Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg
500 505 510

Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly
515 520 525

Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu
530 535 540

Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile
545 550 555 560

Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu
565 570 575

Glu Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu
580 585 590

Leu Leu Phe Ile Gly Leu Gly Ile Phe Phe Ala Leu Tyr Leu Leu Arg
595 600 605

Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys Pro Pro Gly Gly Gly
610 615 620

Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala Asp Ala His Ser Thr
625 630 635 640

Leu Ala Lys Ile

<210> 27

<211> 645

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL1 DARIC.OX40 fusion protein

<400> 27

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Ser Val Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ser Gly Ile Ser Asn Asn Gly
385 390 395 400

Phe Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Leu Asp Val His Gly Arg
435 440 445

Val Gly Ala Gln Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
450 455 460

Lys Pro Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro
465 470 475 480

Gly Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His
485 490 495

Tyr Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp
500 505 510

Arg Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg
515 520 525

Gly Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys
530 535 540

Leu Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly
545 550 555 560

Ile Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys
565 570 575

Leu Glu Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly
580 585 590

Leu Leu Leu Phe Ile Gly Leu Gly Ile Phe Phe Ala Leu Tyr Leu Leu
595 600 605

Arg Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys Pro Pro Gly Gly
610 615 620

Gly Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala Asp Ala His Ser
625 630 635 640

Thr Leu Ala Lys Ile
645

<210> 28

<211> 653

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL1 DARIC.OX40 fusion protein

<400> 28

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln
370 375 380

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

Gly Ser Thr Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Leu Arg Glu Gly Leu Pro
435 440 445

Leu Leu Leu Asp Thr Leu Trp Arg Gln Pro Val Glu Tyr Asp Tyr Trp
450 455 460

Gly Gln Gly Thr Gln Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly
465 470 475 480

Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys
485 490 495

Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly
500 505 510

Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met
515 520 525

Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln
530 535 540

Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala
545 550 555 560

Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu
565 570 575

Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu
580 585 590

Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly
595 600 605

Ile Phe Phe Ala Leu Tyr Leu Leu Arg Arg Asp Gln Arg Leu Pro Pro
610 615 620

Asp Ala His Lys Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro Ile Gln
625 630 635 640

Glu Glu Gln Ala Asp Ala His Ser Thr Leu Ala Lys Ile
645 650

<210> 29
<211> 640

<212> PRT
<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL1 DARIC.OX40 fusion protein

<400> 29

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Leu Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly
385 390 395 400

Tyr Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Thr Asp Glu Trp Gly Arg
435 440 445

Glu Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly
450 455 460

Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr
465 470 475 480

Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu
485 490 495

Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe
500 505 510

Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly
515 520 525

Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro
530 535 540

Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His
545 550 555 560

Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg
565 570 575

Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile
580 585 590

Gly Leu Gly Ile Phe Phe Ala Leu Tyr Leu Leu Arg Arg Asp Gln Arg
595 600 605

Leu Pro Pro Asp Ala His Lys Pro Pro Gly Gly Gly Ser Phe Arg Thr
610 615 620

Pro Ile Gln Glu Glu Gln Ala Asp Ala His Ser Thr Leu Ala Lys Ile
625 630 635 640

<210> 30
<211> 636
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL1 DARIC.OX40 fusion protein

<400> 30

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Arg Thr Phe Glu Tyr Asp Asp Met Val Trp Phe Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Glu Val Ala Gly Ile Ser Trp Ser Gly
385 390 395 400

Gly Ser Ile Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Ser Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Glu Met Asn Arg Leu Lys
420 425 430

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Val Gly Ser Tyr Trp Gly
435 440 445

Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly Val
450 455 460

Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys Arg
465 470 475 480

Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly Lys
485 490 495

Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met Leu
500 505 510

Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln Met
515 520 525

Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala Tyr
530 535 540

Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu Val
545 550 555 560

Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu Ile
565 570 575

Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly Ile
580 585 590

Phe Phe Ala Leu Tyr Leu Leu Arg Arg Asp Gln Arg Leu Pro Pro Asp
595 600 605

Ala His Lys Pro Pro Gly Gly Gly Ser Phe Arg Thr Pro Ile Gln Glu
610 615 620

Glu Gln Ala Asp Ala His Ser Thr Leu Ala Lys Ile
625 630 635

<210> 31
<211> 643
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL1 DARIC.OX40 fusion protein

<400> 31

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Arg Ile Asn Asp Met Gly Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Cys Glu Met Val Ala Gly Ile Ser Asn Asn Gly
385 390 395 400

Phe Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Arg Thr Asp Glu Gly Ala
435 440 445

Ala His Ala Cys Ser Arg Gly Gln Gly Thr Leu Val Thr Val Lys Pro
450 455 460

Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp
465 470 475 480

Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr
485 490 495

Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn
500 505 510

Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp
515 520 525

Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr
530 535 540

Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile
545 550 555 560

Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
565 570 575

Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu
580 585 590

Leu Phe Ile Gly Leu Gly Ile Phe Phe Ala Leu Tyr Leu Leu Arg Arg
595 600 605

Asp Gln Arg Leu Pro Pro Asp Ala His Lys Pro Pro Gly Gly Gly Ser
610 615 620

Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala Asp Ala His Ser Thr Leu
625 630 635 640

Ala Lys Ile

<210> 32

<211> 776

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL1 DARIC.TNRF2 fusion protein

<400> 32

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly
385 390 395 400

Tyr Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Ile Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Ala Asp Leu Thr Lys Ala
435 440 445

Tyr Asp Val Glu Tyr Ala Trp Gly Gln Gly Thr Leu Val Thr Val Lys
450 455 460

Pro Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly
465 470 475 480

Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr
485 490 495

Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg
500 505 510

Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly
515 520 525

Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu
530 535 540

Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile
545 550 555 560

Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu
565 570 575

Glu Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu
580 585 590

Leu Leu Phe Ile Gly Leu Gly Ile Phe Phe Lys Lys Lys Pro Leu Cys
595 600 605

Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg
610 615 620

Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser
625 630 635 640

Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg
645 650 655

Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly
660 665 670

Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro Gly
675 680 685

Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser
690 695 700

Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met
705 710 715 720

Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val
725 730 735

Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro
740 745 750

Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val
755 760 765

Pro Asp Ala Gly Met Lys Pro Ser
770 775

<210> 33

<211> 777

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL1 DARIC.TNRF2 fusion protein

<400> 33

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Ser Val Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ser Gly Ile Ser Asn Asn Gly
385 390 395 400

Phe Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Asn Leu Asp Val His Gly Arg
435 440 445

Val Gly Ala Gln Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
450 455 460

Lys Pro Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro
465 470 475 480

Gly Asp Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His
485 490 495

Tyr Thr Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp
500 505 510

Arg Asn Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg
515 520 525

Gly Trp Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys
530 535 540

Leu Thr Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly
545 550 555 560

Ile Ile Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys
565 570 575

Leu Glu Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly
580 585 590

Leu Leu Leu Phe Ile Gly Leu Gly Ile Phe Phe Lys Lys Lys Pro Leu
595 600 605

Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala
610 615 620

Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro
625 630 635 640

Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg
645 650 655

Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser
660 665 670

Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro
675 680 685

Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys
690 695 700

Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr
705 710 715 720

Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln
725 730 735

Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr
740 745 750

Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly
755 760 765

Val Pro Asp Ala Gly Met Lys Pro Ser
770 775

<210> 34
<211> 785
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL1 DARIC.TNRF2 fusion protein

<400> 34

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln
370 375 380

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

Gly Ser Thr Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Leu Arg Glu Gly Leu Pro
435 440 445

Leu Leu Leu Asp Thr Leu Trp Arg Gln Pro Val Glu Tyr Asp Tyr Trp
450 455 460

Gly Gln Gly Thr Gln Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly
465 470 475 480

Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys
485 490 495

Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly
500 505 510

Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met
515 520 525

Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln
530 535 540

Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala
545 550 555 560

Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu
565 570 575

Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu
580 585 590

Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly
595 600 605

Ile Phe Phe Lys Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val
610 615 620

Pro His Leu Pro Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln
625 630 635 640

Gln His Leu Leu Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Leu Glu
645 650 655

Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro
660 665 670

Gln Ala Pro Gly Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser
675 680 685

Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn
690 695 700

Val Thr Cys Ile Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln
705 710 715 720

Cys Ser Ser Gln Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro
725 730 735

Ser Glu Ser Pro Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys
740 745 750

Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr
755 760 765

Glu Glu Lys Pro Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro
770 775 780

Ser
785

<210> 35
<211> 772
<212> PRT
<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL1 DARIC.TNRF2 fusion protein

<400> 35

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Leu Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly
385 390 395 400

Tyr Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Thr Asp Glu Trp Gly Arg
435 440 445

Glu Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly
450 455 460

Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr
465 470 475 480

Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu
485 490 495

Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe
500 505 510

Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly
515 520 525

Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro
530 535 540

Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His
545 550 555 560

Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg
565 570 575

Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile
580 585 590

Gly Leu Gly Ile Phe Phe Lys Lys Lys Pro Leu Cys Leu Gln Arg Glu
595 600 605

Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly Thr Gln Gly
610 615 620

Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser Ser Ser Ser
625 630 635 640

Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala Pro Thr Arg
645 650 655

Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala Gly Glu Ala
660 665 670

Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly His Gly Thr
675 680 685

Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser Ser Ser Asp His
690 695 700

Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met Gly Asp Thr Asp
705 710 715 720

Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val Pro Phe Ser Lys
725 730 735

Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu Thr Leu Leu
740 745 750

Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val Pro Asp Ala Gly
755 760 765

Met Lys Pro Ser
770

<210> 36
<211> 768
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL1 DARIC.TNRF2 fusion protein

<400> 36

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Arg Thr Phe Glu Tyr Asp Asp Met Val Trp Phe Arg Gln
370 375 380

Ala Pro Gly Lys Glu Arg Glu Glu Val Ala Gly Ile Ser Trp Ser Gly
385 390 395 400

Gly Ser Ile Tyr Tyr Ala Glu Ser Val Lys Gly Arg Phe Ser Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Glu Met Asn Arg Leu Lys
420 425 430

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Val Gly Ser Tyr Trp Gly
435 440 445

Gln Gly Thr Leu Val Thr Val Lys Pro Gly Gly Gly Gly Ser Gly Val
450 455 460

Gln Val Glu Thr Ile Ser Pro Gly Asp Gly Arg Thr Phe Pro Lys Arg
465 470 475 480

Gly Gln Thr Cys Val Val His Tyr Thr Gly Met Leu Glu Asp Gly Lys
485 490 495

Lys Phe Asp Ser Ser Arg Asp Arg Asn Lys Pro Phe Lys Phe Met Leu
500 505 510

Gly Lys Gln Glu Val Ile Arg Gly Trp Glu Glu Gly Val Ala Gln Met
515 520 525

Ser Val Gly Gln Arg Ala Lys Leu Thr Ile Ser Pro Asp Tyr Ala Tyr
530 535 540

Gly Ala Thr Gly His Pro Gly Ile Ile Pro Pro His Ala Thr Leu Val
545 550 555 560

Phe Asp Val Glu Leu Leu Lys Leu Glu Gly Gly Arg Met Ala Leu Ile
565 570 575

Val Leu Gly Gly Val Ala Gly Leu Leu Leu Phe Ile Gly Leu Gly Ile
580 585 590

Phe Phe Lys Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val Pro
595 600 605

His Leu Pro Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln Gln
610 615 620

His Leu Leu Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Leu Glu Ser
625 630 635 640

Ser Ala Ser Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln
645 650 655

Ala Pro Gly Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr
660 665 670

Gly Ser Ser Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val
675 680 685

Thr Cys Ile Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln Cys
690 695 700

Ser Ser Gln Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro Ser
705 710 715 720

Glu Ser Pro Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys Ala
725 730 735

Phe Arg Ser Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr Glu
740 745 750

Glu Lys Pro Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro Ser
755 760 765

<210> 37
<211> 775
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL1 DARIC.TNRF2 fusion protein

<400> 37

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg Ser Gly Ser
290 295 300

Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu
305 310 315 320

Asn Pro Gly Pro Ser Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu
325 330 335

Leu Leu Trp Val Pro Gly Ser Thr Gly Glu Val Gln Leu Val Glu Ser
340 345 350

Gly Gly Gly Glu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
355 360 365

Ala Ser Gly Phe Thr Phe Arg Ile Asn Asp Met Gly Trp Tyr Arg Gln
370 375 380

Ala Pro Gly Lys Glu Cys Glu Met Val Ala Gly Ile Ser Asn Asn Gly
385 390 395 400

Phe Ser Thr Ala Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
405 410 415

Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg
420 425 430

Ala Glu Asp Thr Ala Val Tyr Tyr Cys His Arg Thr Asp Glu Gly Ala
435 440 445

Ala His Ala Cys Ser Arg Gly Gln Gly Thr Leu Val Thr Val Lys Pro
450 455 460

Gly Gly Gly Gly Ser Gly Val Gln Val Glu Thr Ile Ser Pro Gly Asp
465 470 475 480

Gly Arg Thr Phe Pro Lys Arg Gly Gln Thr Cys Val Val His Tyr Thr
485 490 495

Gly Met Leu Glu Asp Gly Lys Lys Phe Asp Ser Ser Arg Asp Arg Asn
500 505 510

Lys Pro Phe Lys Phe Met Leu Gly Lys Gln Glu Val Ile Arg Gly Trp
515 520 525

Glu Glu Gly Val Ala Gln Met Ser Val Gly Gln Arg Ala Lys Leu Thr
530 535 540

Ile Ser Pro Asp Tyr Ala Tyr Gly Ala Thr Gly His Pro Gly Ile Ile
545 550 555 560

Pro Pro His Ala Thr Leu Val Phe Asp Val Glu Leu Leu Lys Leu Glu
565 570 575

Gly Gly Arg Met Ala Leu Ile Val Leu Gly Gly Val Ala Gly Leu Leu
580 585 590

Leu Phe Ile Gly Leu Gly Ile Phe Phe Lys Lys Lys Pro Leu Cys Leu
595 600 605

Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly
610 615 620

Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser
625 630 635 640

Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala
645 650 655

Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala
660 665 670

Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Asp Ser Ser Pro Gly Gly
675 680 685

His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser Ser
690 695 700

Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met Gly
705 710 715 720

Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val Pro
725 730 735

Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu
740 745 750

Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val Pro
755 760 765

Asp Ala Gly Met Lys Pro Ser
770 775

<210> 38
<211> 367
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 38

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly Tyr Ser Thr Ala
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Ile Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys His Ala Asp Leu Thr Lys Ala Tyr Asp Val Glu
115 120 125

Tyr Ala Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Ala Ala Ala
130 135 140

Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala
145 150 155 160

Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly
165 170 175

Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile
180 185 190

Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val
195 200 205

Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe
210 215 220

Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly
225 230 235 240

Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg
245 250 255

Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln
260 265 270

Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp
275 280 285

Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro
290 295 300

Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp
305 310 315 320

Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg
325 330 335

Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr
340 345 350

Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
355 360 365

<210> 39
<211> 368
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 39

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Thr Phe Ser Val Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Trp Val Ser Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Asn Leu Asp Val His Gly Arg Val Gly Ala Gln
115 120 125

Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Ala Ala
130 135 140

Ala Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile
145 150 155 160

Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala
165 170 175

Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr
180 185 190

Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu
195 200 205

Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile
210 215 220

Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp
225 230 235 240

Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu
245 250 255

Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly
260 265 270

Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr
275 280 285

Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys
290 295 300

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
305 310 315 320

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
325 330 335

Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
340 345 350

Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
355 360 365

<210> 40

<211> 376

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 40

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Thr Phe Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Gly Val Ser Thr Ile Ser Ser Ser Asp Gly Ser Thr Tyr
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Ala Leu Arg Glu Gly Leu Pro Leu Leu Leu Asp
115 120 125

Thr Leu Trp Arg Gln Pro Val Glu Tyr Asp Tyr Trp Gly Gln Gly Thr
130 135 140

Gln Val Thr Val Lys Pro Ala Ala Ala Thr Thr Thr Pro Ala Pro Arg
145 150 155 160

Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg
165 170 175

Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly
180 185 190

Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr
195 200 205

Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg
210 215 220

Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro
225 230 235 240

Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu
245 250 255

Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala
260 265 270

Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu
275 280 285

Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly
290 295 300

Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu
305 310 315 320

Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser
325 330 335

Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly
340 345 350

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

His Met Gln Ala Leu Pro Pro Arg
370 375

<210> 41
<211> 363
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 41

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu
35 40 45

Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly Tyr Ser Thr Ala
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys His Thr Asp Glu Trp Gly Arg Glu Tyr Trp Gly
115 120 125

Gln Gly Thr Leu Val Thr Val Lys Pro Ala Ala Ala Thr Thr Thr Pro
130 135 140

Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu
145 150 155 160

Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His
165 170 175

Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu
180 185 190

Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr
195 200 205

Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe
210 215 220

Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg
225 230 235 240

Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser
245 250 255

Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr
260 265 270

Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys
275 280 285

Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn
290 295 300

Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu
305 310 315 320

Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly
325 330 335

His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr
340 345 350

Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
355 360

<210> 42
<211> 359
<212> PRT
<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 42

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg
35 40 45

Thr Phe Glu Tyr Asp Asp Met Val Trp Phe Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Glu Val Ala Gly Ile Ser Trp Ser Gly Gly Ser Ile Tyr
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Val Tyr Leu Glu Met Asn Arg Leu Lys Pro Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Asn Val Gly Ser Tyr Trp Gly Gln Gly Thr Leu
115 120 125

Val Thr Val Lys Pro Ala Ala Ala Thr Thr Thr Pro Ala Pro Arg Pro
130 135 140

Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro
145 150 155 160

Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu
165 170 175

Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys
180 185 190

Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly
195 200 205

Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val
210 215 220

Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu
225 230 235 240

Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp
245 250 255

Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn
260 265 270

Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg
275 280 285

Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly
290 295 300

Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu
305 310 315 320

Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu
325 330 335

Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His
340 345 350

Met Gln Ala Leu Pro Pro Arg
355

<210> 43

<211> 366

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 43

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Thr Phe Arg Ile Asn Asp Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys
50 55 60

Glu Cys Glu Met Val Ala Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys His Arg Thr Asp Glu Gly Ala Ala His Ala Cys
115 120 125

Ser Arg Gly Gln Gly Thr Leu Val Thr Val Lys Pro Ala Ala Ala Thr
130 135 140

Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser
145 150 155 160

Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly
165 170 175

Ala Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp
180 185 190

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
195 200 205

Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys
210 215 220

Gln Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys
225 230 235 240

Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val
245 250 255

Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn
260 265 270

Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val
275 280 285

Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg
290 295 300

Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys
305 310 315 320

Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg
325 330 335

Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys
340 345 350

Asp Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
355 360 365

<210> 44
<211> 364
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 44

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly Tyr Ser Thr Ala
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Ile Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys His Ala Asp Leu Thr Lys Ala Tyr Asp Val Glu
115 120 125

Tyr Ala Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Thr Thr Thr
130 135 140

Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro
145 150 155 160

Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val
165 170 175

His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro
180 185 190

Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu
195 200 205

Tyr Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro
210 215 220

Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys
225 230 235 240

Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe
245 250 255

Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu
260 265 270

Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp
275 280 285

Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys
290 295 300

Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala
305 310 315 320

Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys
325 330 335

Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr
340 345 350

Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
355 360

<210> 45
<211> 365
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 45

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Thr Phe Ser Val Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Trp Val Ser Gly Ile Ser Asn Asn Gly Phe Ser Thr Ala
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Asn Leu Asp Val His Gly Arg Val Gly Ala Gln
115 120 125

Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Lys Pro Thr Thr
130 135 140

Thr Pro Ala Pro Arg Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln
145 150 155 160

Pro Leu Ser Leu Arg Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala
165 170 175

Val His Thr Arg Gly Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala
180 185 190

Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr
195 200 205

Leu Tyr Cys Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
210 215 220

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
225 230 235 240

Cys Arg Phe Pro Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
245 250 255

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
260 265 270

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
275 280 285

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
290 295 300

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
305 310 315 320

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
325 330 335

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
340 345 350

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
355 360 365

<210> 46
<211> 373
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 46

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
35 40 45

Thr Phe Asp Asp Tyr Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Gly Val Ser Thr Ile Ser Ser Ser Asp Gly Ser Thr Tyr
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Ala Leu Arg Glu Gly Leu Pro Leu Leu Leu Asp
115 120 125

Thr Leu Trp Arg Gln Pro Val Glu Tyr Asp Tyr Trp Gly Gln Gly Thr
130 135 140

Gln Val Thr Val Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr
145 150 155 160

Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala
165 170 175

Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe
180 185 190

Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val
195 200 205

Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys
210 215 220

Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr
225 230 235 240

Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu
245 250 255

Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro
260 265 270

Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly
275 280 285

Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro
290 295 300

Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr
305 310 315 320

Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly
325 330 335

Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln
340 345 350

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

Ala Leu Pro Pro Arg
370

<210> 47
<211> 360
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 47

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu
35 40 45

Leu Phe Ser Ile Tyr Asp Met Asn Trp Tyr Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Trp Val Ala Gly Ile Thr Asn Asn Gly Tyr Ser Thr Ala
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Val Tyr Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys His Thr Asp Glu Trp Gly Arg Glu Tyr Trp Gly
115 120 125

Gln Gly Thr Leu Val Thr Val Lys Pro Thr Thr Thr Pro Ala Pro Arg
130 135 140

Pro Pro Thr Pro Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg
145 150 155 160

Pro Glu Ala Cys Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly
165 170 175

Leu Asp Phe Ala Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr
180 185 190

Cys Gly Val Leu Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg
195 200 205

Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro
210 215 220

Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu
225 230 235 240

Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala
245 250 255

Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu
260 265 270

Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly
275 280 285

Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu
290 295 300

Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser
305 310 315 320

Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly
325 330 335

Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu
340 345 350

His Met Gln Ala Leu Pro Pro Arg
355 360

<210> 48
<211> 356
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 48

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg
35 40 45

Thr Phe Glu Tyr Asp Asp Met Val Trp Phe Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Glu Val Ala Gly Ile Ser Trp Ser Gly Gly Ser Ile Tyr
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Val Tyr Leu Glu Met Asn Arg Leu Lys Pro Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Asn Val Gly Ser Tyr Trp Gly Gln Gly Thr Leu
115 120 125

Val Thr Val Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro
130 135 140

Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys
145 150 155 160

Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala
165 170 175

Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu
180 185 190

Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys
195 200 205

Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr
210 215 220

Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Gly
225 230 235 240

Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala
245 250 255

Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg
260 265 270

Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu
275 280 285

Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn
290 295 300

Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met
305 310 315 320

Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly
325 330 335

Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala
340 345 350

Leu Pro Pro Arg
355

<210> 49
<211> 356
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL-1 VHH chimeric antigen receptor

<400> 49

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Glu Val Gln Leu Val Glu Ser Gly Gly Gly Glu
20 25 30

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg
35 40 45

Thr Phe Glu Tyr Asp Asp Met Val Trp Phe Arg Gln Ala Pro Gly Lys
50 55 60

Glu Arg Glu Glu Val Ala Gly Ile Ser Trp Ser Gly Gly Ser Ile Tyr
65 70 75 80

Tyr Ala Glu Ser Val Lys Gly Arg Phe Ser Ile Ser Arg Asp Asn Ala
85 90 95

Lys Asn Thr Val Tyr Leu Glu Met Asn Arg Leu Lys Pro Glu Asp Thr
100 105 110

Ala Val Tyr Tyr Cys Asn Val Gly Ser Tyr Trp Gly Gln Gly Thr Leu
115 120 125

Val Thr Val Lys Pro Thr Thr Thr Pro Ala Pro Arg Pro Pro Thr Pro
130 135 140

Ala Pro Thr Ile Ala Ser Gln Pro Leu Ser Leu Arg Pro Glu Ala Cys
145 150 155 160

Arg Pro Ala Ala Gly Gly Ala Val His Thr Arg Gly Leu Asp Phe Ala
165 170 175

Cys Asp Ile Tyr Ile Trp Ala Pro Leu Ala Gly Thr Cys Gly Val Leu
180 185 190

Leu Leu Ser Leu Val Ile Thr Leu Tyr Cys Lys Arg Gly Arg Lys Lys
195 200 205

Leu Leu Tyr Ile Phe Lys Gln Pro Phe Met Arg Pro Val Gln Thr Thr
210 215 220

Gln Glu Glu Asp Gly Cys Ser Cys Arg Phe Pro Glu Glu Glu Glu Gly
225 230 235 240

Gly Cys Glu Leu Arg Val Lys Phe Ser Arg Ser Ala Asp Ala Pro Ala
245 250 255

Tyr Gln Gln Gly Gln Asn Gln Leu Tyr Asn Glu Leu Asn Leu Gly Arg
260 265 270

Arg Glu Glu Tyr Asp Val Leu Asp Lys Arg Arg Gly Arg Asp Pro Glu
275 280 285

Met Gly Gly Lys Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn
290 295 300

Glu Leu Gln Lys Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met
305 310 315 320

Lys Gly Glu Arg Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly
325 330 335

Leu Ser Thr Ala Thr Lys Asp Thr Tyr Asp Ala Leu His Met Gln Ala
340 345 350

Leu Pro Pro Arg
355

<210> 50
<211> 301
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in Lab - anti-CLL1 VHH DARIC signaling component

<400> 50

Met Ala Leu Pro Val Thr Ala Leu Leu Leu Pro Leu Ala Leu Leu Leu
1 5 10 15

His Ala Ala Arg Pro Gly Ser Ile Leu Trp His Glu Met Trp His Glu
20 25 30

Gly Leu Glu Glu Ala Ser Arg Leu Tyr Phe Gly Glu Arg Asn Val Lys
35 40 45

Gly Met Phe Glu Val Leu Glu Pro Leu His Ala Met Met Glu Arg Gly
50 55 60

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

Leu Met Glu Ala Gln Glu Trp Cys Arg Lys Tyr Met Lys Ser Gly Asn
85 90 95

Val Lys Asp Leu Leu Gln Ala Trp Asp Leu Tyr Tyr His Val Phe Arg
100 105 110

Arg Ile Ser Lys Ala Ser Ala Gly Thr Gly Ser Asp Ile Tyr Ile Trp
115 120 125

Ala Pro Leu Ala Gly Thr Cys Gly Val Leu Leu Leu Ser Leu Val Ile
130 135 140

Thr Met His Lys Arg Gly Arg Lys Lys Leu Leu Tyr Ile Phe Lys Gln
 145 150 155 160

Pro Phe Met Arg Pro Val Gln Thr Thr Gln Glu Glu Asp Gly Cys Ser
 165 170 175

Cys Arg Phe Pro Glu Glu Glu Glu Gly Gly Cys Glu Leu Arg Val Lys
 180 185 190

Phe Ser Arg Ser Ala Asp Ala Pro Ala Tyr Gln Gln Gly Gln Asn Gln
 195 200 205

Leu Tyr Asn Glu Leu Asn Leu Gly Arg Arg Glu Glu Tyr Asp Val Leu
 210 215 220

Asp Lys Arg Arg Gly Arg Asp Pro Glu Met Gly Gly Lys Pro Arg Arg
 225 230 235 240

Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys Asp Lys Met
 245 250 255

Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg Arg Arg Gly
 260 265 270

Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala Thr Lys Asp
 275 280 285

Thr Tyr Asp Ala Leu His Met Gln Ala Leu Pro Pro Arg
 290 295 300

<210> 51
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Consensus Kozak sequence

<400> 51
 gccrccatgg

<210> 52
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary linker sequence

<400> 52

Asp Gly Gly Gly Ser
1 5

<210> 53
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary linker sequence

<400> 53

Thr Gly Glu Lys Pro
1 5

<210> 54
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary linker sequence

<400> 54

Gly Gly Arg Arg
1

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

<220>
<223> Exemplary linker sequence

<400> 55

Gly Gly Gly Gly Ser
1 5

<210> 56
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary linker sequence

<400> 56

Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp
1 5 10

<210> 57
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary linker sequence

<400> 57

Lys Glu Ser Gly Ser Val Ser Ser Glu Gln Leu Ala Gln Phe Arg Ser
1 5 10 15

Leu Asp

<210> 58
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary linker sequence

<400> 58

Gly Gly Arg Arg Gly Gly Gly Ser
1 5

<210> 59
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 59

Leu Arg Gln Arg Asp Gly Glu Arg Pro
1 5

<210> 60

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 60

Leu Arg Gln Lys Asp Gly Gly Gly Ser Glu Arg Pro
1 5 10

<210> 61

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 61

Leu Arg Gln Lys Asp Gly Gly Gly Ser Gly Gly Gly Ser Glu Arg Pro
1 5 10 15

<210> 62

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary linker sequence

<400> 62

Gly Ser Thr Ser Gly Ser Gly Lys Pro Gly Ser Gly Glu Gly Ser Thr
1 5 10 15

Lys Gly

<210> 63
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Cleavage sequence by TEV protease

<220>
<221> misc_feature
<222> (2)..(3)
<223> Xaa is any amino acid

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa is any amino acid

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa = Gly or Ser

<400> 63

Glu Xaa Xaa Tyr Xaa Gln Xaa
1 5

<210> 64
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Cleavage sequence by TEV protease

<400> 64

Glu Asn Leu Tyr Phe Gln Gly
1 5

<210> 65
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Cleavage sequence by TEV protease

<400> 65

Glu Asn Leu Tyr Phe Gln Ser
1 5

<210> 66
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 66

Gly Ser Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val
1 5 10 15

Glu Glu Asn Pro Gly Pro
20

<210> 67
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 67

Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn
1 5 10 15

Pro Gly Pro

<210> 68
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 68

Leu Leu Lys Gln Ala Gly Asp Val Glu Glu Asn Pro Gly Pro
1 5 10

<210> 69
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 69

Gly Ser Gly Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu
1 5 10 15

Glu Asn Pro Gly Pro
20

<210> 70
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 70

Glu Gly Arg Gly Ser Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro
1 5 10 15

Gly Pro

<210> 71
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 71

Leu Leu Thr Cys Gly Asp Val Glu Glu Asn Pro Gly Pro
1 5 10

<210> 72
<211> 23
<212> PRT
<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 72

Gly Ser Gly Gln Cys Thr Asn Tyr Ala Leu Leu Lys Leu Ala Gly Asp
1 5 10 15

Val Glu Ser Asn Pro Gly Pro
20

<210> 73

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 73

Gln Cys Thr Asn Tyr Ala Leu Leu Lys Leu Ala Gly Asp Val Glu Ser
1 5 10 15

Asn Pro Gly Pro
20

<210> 74

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 74

Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly Pro
1 5 10

<210> 75

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 75

Gly Ser Gly Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala
1 5 10 15

Gly Asp Val Glu Ser Asn Pro Gly Pro
20 25

<210> 76

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 76

Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val
1 5 10 15

Glu Ser Asn Pro Gly Pro
20

<210> 77

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 77

Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly Pro
1 5 10

<210> 78

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Self-cleaving polypeptide comprising 2A site

<400> 78

Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn
1 5 10 15

Pro Gly Pro

<210> 79
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 79

Thr	Leu	Asn	Phe	Asp	Leu	Leu	Lys	Leu	Ala	Gly	Asp	Val	Glu	Ser	Asn
1				5					10					15	

Pro Gly Pro

<210> 80
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 80

Leu	Leu	Lys	Leu	Ala	Gly	Asp	Val	Glu	Ser	Asn	Pro	Gly	Pro
1				5					10				

<210> 81
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Self-cleaving polypeptide comprising 2A site

<400> 81

Asn	Phe	Asp	Leu	Leu	Lys	Leu	Ala	Gly	Asp	Val	Glu	Ser	Asn	Pro	Gly
1				5					10					15	

Pro

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Asn Pro Gly Pro
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Asp Val Glu Ser Asn Pro Gly Pro
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Ile Val Ala Pro Val Lys Gln Thr
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Gly Pro

<210> 86
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Ala Pro Val Lys Gln Thr Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly
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Asp Val Glu Ser Asn Pro Gly Pro
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<210> 87
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<400> 87

Glu Ala Arg His Lys Gln Lys Ile Val Ala Pro Val Lys Gln Thr Leu
1 5 10 15

Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn Pro Gly
20 25 30

Pro