

SEQUENCE LISTING

<110> Alpine Immune Sciences, Inc.

<120> METHODS AND USES OF VARIANT ICOS LIGAND
(ICOSL) FUSION PROTEINS

<130> 76161-20032.40

<140> Not yet assigned

<141> Concurrently herewith

<150> 62/835,488

<151> 2019-04-17

<150> 62/855,830

<151> 2019-05-31

<150> 62/931,212

<151> 2019-11-05

<150> 62/945,071

<151> 2019-12-06

<150> 62/962,832

<151> 2020-01-17

<150> 62/987,854

<151> 2020-03-10

<160> 68

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSLG(B7RP1, CD275, ICOSL, B7-H2) ECD

<400> 1

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

		35				40				45					
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70					75					80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
		100						105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
	115					120						125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165						170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180						185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu
	195					200						205			
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
	210					215					220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr		
225					230					235					

<210> 2

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL WT IGV

<400> 2

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

<210> 3
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> IgV domain

<400> 3
Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp Val Glu
1 5 10 15
Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn Asp Val
20 25 30
Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr Tyr His
35 40 45
Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr Arg Asn
50 55 60
Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe Ser Leu
65 70 75 80
Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His Cys Leu
85 90 95
Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Val Glu Val
100 105 110
Thr Leu His Val Ala Ala Asn Phe Ser Val
115 120

<210> 4
<211> 302
<212> PRT
<213> Artificial Sequence

<220>
<223> ICOSLG(B7RP1, CD275, ICOSL, B7-H2)

<400> 4
Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu
1 5 10 15
Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp
20 25 30
Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn
35 40 45
Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr
50 55 60
Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr
65 70 75 80
Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe
85 90 95

Ser	Leu	Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His
			100					105					110		
Cys	Leu	Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val
		115					120					125			
Glu	Val	Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser
		130				135					140				
Ala	Pro	His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser
145					150					155					160
Ile	Asn	Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp
			165					170					175		
Asn	Ser	Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn
		180						185					190		
Met	Arg	Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr
		195					200					205			
Pro	Ser	Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln
		210				215					220				
Asn	Leu	Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp
225				230						235					240
Lys	Ile	Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr
			245						250					255	
Trp	Ser	Ile	Leu	Ala	Val	Leu	Cys	Leu	Leu	Val	Val	Val	Ala	Val	Ala
		260						265					270		
Ile	Gly	Trp	Val	Cys	Arg	Asp	Arg	Cys	Leu	Gln	His	Ser	Tyr	Ala	Gly
		275				280					285				
Ala	Trp	Ala	Val	Ser	Pro	Glu	Thr	Glu	Leu	Thr	Gly	His	Val		
		290				295					300				

<210> 5

<211> 208

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL WT ECD TRUNCATION 2

<400> 5

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

			100					105				110			
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120					125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165					170						175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180					185					190			
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu
	195						200					205			

<210> 6

<211> 213

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL WT ECD TRUNCATION 3

<400> 6

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70					75					80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85					90					95		
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
		100						105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120					125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165					170						175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180					185						190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu
	195						200					205			

Thr Val Gly Ser Gln
210

<210> 7

<211> 207

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL WT ECD TRUNCATION 4

<400> 7

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55					60				
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70					75					80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165						170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180						185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	
	195						200					205			

<210> 8

<211> 206

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL WT ECD TRUNCATION 5

<400> 8

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
				85					90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
				165					170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln		
		195					200					205			

<210> 9

<211> 204

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL WT ECD TRUNCATION 6

<400> 9

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

			100					105				110			
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
			115					120				125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
			130					135				140			
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145						150					155				160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
				165					170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180						185				190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu				
			195					200							

<210> 10

<211> 201

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL WT ECD TRUNCATION 7

<400> 10

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55					60				
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70					75					80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120					125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
		130				135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
				165					170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn							
			195					200							

<210> 11
<211> 209
<212> PRT
<213> Artificial Sequence

<220>
<223> ICOSL WT ECD TRUNCATION 8

<400> 11
Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp Val Glu
1 5 10 15
Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn Asp Val
20 25 30
Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr Tyr His
35 40 45
Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr Arg Asn
50 55 60
Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe Ser Leu
65 70 75 80
Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His Cys Leu
85 90 95
Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Val Glu Val
100 105 110
Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser Ala Pro
115 120 125
His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser Ile Asn
130 135 140
Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp Asn Ser
145 150 155 160
Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn Met Arg
165 170 175
Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr Pro Ser
180 185 190
Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln Asn Leu
195 200 205
Thr

<210> 12
<211> 208
<212> PRT
<213> Artificial Sequence

<220>
<223> ICOSL N207A ECD TRUNCATION 2

<400> 12

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75					80	
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
				85					90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
				165					170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Ala	Leu
		195					200					205			

<210> 13

<211> 208

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL N207G ECD TRUNCATION 2

<400> 13

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

			100					105				110			
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120					125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
		130				135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165					170						175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180					185					190			
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Gly	Leu
		195					200					205			

<210> 14

<211> 208

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL L208G ECD TRUNCATION 2

<400> 14

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70					75					80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85					90						95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
		100						105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120					125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
		130				135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165					170						175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180					185						190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Gly
		195					200					205			

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

<220>
<223> ICOSL N207A ECD TRUNCATION 3

<400> 15
Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp Val Glu
1 5 10 15
Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn Asp Val
20 25 30
Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr Tyr His
35 40 45
Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr Arg Asn
50 55 60
Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe Ser Leu
65 70 75 80
Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His Cys Leu
85 90 95
Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Val Glu Val
100 105 110
Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser Ala Pro
115 120 125
His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser Ile Asn
130 135 140
Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp Asn Ser
145 150 155 160
Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn Met Arg
165 170 175
Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr Pro Ser
180 185 190
Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln Ala Leu
195 200 205
Thr Val Gly Ser Gln
210

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

<220>
<223> ICOSL N207G ECD TRUNCATION 3

<400> 16

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
				85					90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
				165					170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Gly	Leu
	195						200					205			
Thr	Val	Gly	Ser	Gln											
															210

<210> 17

<211> 213

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL L208G ECD TRUNCATION 3

<400> 17

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

				85					90					95			
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val		
			100					105					110				
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro		
		115					120						125				
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn		
	130					135					140						
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser		
145					150					155					160		
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg		
				165					170					175			
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser		
			180					185					190				
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Gly		
	195						200					205					
Thr	Val	Gly	Ser	Gln													
	210																

<210> 18

<211> 207

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL N207A ECD TRUNCATION 4

<400> 18

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu		
1				5					10					15			
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val		
		20						25					30				
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His		
		35					40					45					
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn		
	50					55				60							
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu		
65				70					75						80		
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu		
			85					90					95				
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val		
		100						105					110				
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro		
		115					120						125				
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn		
	130					135					140						
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser		
145					150					155					160		
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg		
			165					170						175			

Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Ala	
		195					200					205			

<210> 19
 <211> 207
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ICOSL N207G ECD TRUNCATION 4

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
		130				135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165						170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Gly	
		195					200					205			

<210> 20
 <211> 209
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ICOSL N207A ECD TRUNCATION 8

<400> 20

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
				85					90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
				165					170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Ala	Leu
		195					200						205		

Thr

<210> 21

<211> 209

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL N207G ECD TRUNCATION 8

<400> 21

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

65					70					75					80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
				165					170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Gly	Leu
		195					200						205		
Thr															

<210> 22

<211> 209

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL L208G ECD TRUNCATION 8

<400> 22

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160

Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
				165					170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Gly
		195					200					205			
Thr															

<210> 23
 <211> 208
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ICOSL N207A/L208G ECD TRUNCATION 2

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75					80	
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85					90						95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120					125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130				135						140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150				155					160	
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165					170					175		
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Ala	Gly
		195					200					205			

<210> 24
 <211> 208
 <212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL N207G/L208G ECD TRUNCATION 2

<400> 24

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
	115					120						125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130				135						140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150				155						160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165					170					175		
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180					185					190			
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Gly	Gly
	195						200					205			

<210> 25

<211> 213

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL N207A/L208G ECD TRUNCATION 3

<400> 25

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

50		55		60	
Arg	Ala	Leu	Met	Ser	Pro
65		70		75	
Arg	Leu	Phe	Asn	Val	Thr
		85		90	
Val	Leu	Ser	Gln	Ser	Leu
		100		105	
Thr	Leu	His	Val	Ala	Ala
		115		120	
His	Ser	Pro	Ser	Gln	Asp
		130		135	
Gly	Tyr	Pro	Arg	Pro	Asn
				150	
Leu	Leu	Asp	Gln	Ala	Leu
				165	
Gly	Leu	Tyr	Asp	Val	Val
				180	
Val	Asn	Ile	Gly	Cys	Cys
				195	
Thr	Val	Gly	Ser	Gln	
				210	

<210> 26

<211> 213

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL N207G/L208G ECD TRUNCATION 3

<400> 26

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
		50				55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75					80	
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
		130				135					140				

<210> 28
<211> 209
<212> PRT
<213> Artificial Sequence

<220>
<223> ICOSL N207G/L208G ECD TRUNCATION 8

<400> 28
Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp Val Glu
1 5 10 15
Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn Asp Val
20 25 30
Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr Tyr His
35 40 45
Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr Arg Asn
50 55 60
Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe Ser Leu
65 70 75 80
Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His Cys Leu
85 90 95
Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Val Glu Val
100 105 110
Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser Ala Pro
115 120 125
His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser Ile Asn
130 135 140
Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp Asn Ser
145 150 155 160
Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn Met Arg
165 170 175
Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr Pro Ser
180 185 190
Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln Gly Gly
195 200 205
Thr

<210> 29
<211> 238
<212> PRT
<213> Artificial Sequence

<220>
<223> ICOSL N207A FULL ECD

<400> 29
Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp Val Glu

1				5					10					15			
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val		
			20					25					30				
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His		
		35					40					45					
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn		
	50					55				60							
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu		
65				70					75						80		
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu		
			85					90					95				
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val		
			100					105					110				
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro		
		115					120					125					
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn		
	130					135					140						
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser		
145					150					155					160		
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg		
			165					170						175			
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser		
		180					185					190					
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Ala	Leu		
	195					200				205							
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile		
	210					215				220							
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr				
225					230					235							

<210> 30

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL N207G FULL ECD

<400> 30

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

Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130				135						140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165					170						175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Gly	Leu
	195						200					205			
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
	210					215					220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr		
225					230					235					

<210> 31

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL L208G FULL ECD

<400> 31

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
	35						40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85					90						95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130				135						140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser

145		150		155		160									
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
		165				170								175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180						185						190	
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Gly
		195					200					205			
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
	210					215					220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr		
225					230					235					

<210> 32

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL N207A/L208G FULL ECD

<400> 32

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
		20						25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
		100					105						110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
	115					120						125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130				135						140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145				150					155					160	
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
		165						170						175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
		180						185						190	
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Ala	Gly
	195						200					205			
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
	210					215					220				

Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr
 225 230 235

<210> 33
 <211> 238
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ICOSL N207G/L208G FULL ECD

<400> 33
 Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp Val Glu
 1 5 10 15
 Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn Asp Val
 20 25 30
 Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr Tyr His
 35 40 45
 Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr Arg Asn
 50 55 60
 Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe Ser Leu
 65 70 75 80
 Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His Cys Leu
 85 90 95
 Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Val Glu Val
 100 105 110
 Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser Ala Pro
 115 120 125
 His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser Ile Asn
 130 135 140
 Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp Asn Ser
 145 150 155 160
 Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn Met Arg
 165 170 175
 Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr Pro Ser
 180 185 190
 Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln Gly Gly
 195 200 205
 Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp Lys Ile
 210 215 220
 Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr
 225 230 235

<210> 34
 <211> 238
 <212> PRT
 <213> Artificial Sequence

<220>

<223> ICOSL V39 ECD

<400> 34

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	His	Ser	Ser	Leu	Glu	Tyr	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70					75					80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Arg	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165						170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu
	195						200					205			
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
	210					215					220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr		
225					230					235					

<210> 35

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL V39 IGV

<400> 35

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

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

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

<220>
 <223> ICOSL V39 IGV

<400> 36																	
Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu		
1				5					10					15			
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val		
		20					25					30					
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His		
	35					40					45						
Ile	Pro	Gln	His	Ser	Ser	Leu	Glu	Tyr	Val	Asp	Ser	Arg	Tyr	Arg	Asn		
	50					55				60							
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu		
65					70				75						80		
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu		
			85					90					95				
Val	Leu	Ser	Arg	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val		
			100					105					110				
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val								
	115						120										

<210> 37
 <211> 232
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> IGG1 FC

<400> 37																	
Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala		
1				5					10					15			
Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro		

			20					25					30				
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val		
	35						40					45					
Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val		
	50					55					60						
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln		
65					70					75					80		
Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln		
			85					90					95				
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala		
	100							105					110				
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro		
	115						120						125				
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr		
	130					135					140						
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser		
145					150					155					160		
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr		
			165					170						175			
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr		
		180					185						190				
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe		
	195					200						205					
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys		
	210				215					220							
Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys										
225					230												

<210> 38

<211> 231

<212> PRT

<213> Artificial Sequence

<220>

<223> FC WITH C220S/E356D/M358L/K447DEL

<400> 38

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

Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala
			100					105					110		
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
		115					120						125		
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr
	130					135						140			
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
145				150						155					160
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
			165						170					175	
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
			180					185					190		
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe
		195					200					205			
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
	210					215					220				
Ser	Leu	Ser	Leu	Ser	Pro	Gly									
225					230										

<210> 39

<211> 231

<212> PRT

<213> Artificial Sequence

<220>

<223> FC WITH C220S/L234A/L235E/G237A/K447DEL

<400> 39

Glu	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala
1				5					10					15	
Pro	Glu	Ala	Glu	Gly	Ala	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro
			20					25					30		
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val
	35						40					45			
Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val
	50					55					60				
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln
65					70					75				80	
Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln
			85						90					95	
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala
		100						105					110		
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
		115					120						125		
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr
	130					135						140			
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
145				150						155					160
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr

<210> 41
 <211> 232
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FC REGION

<400> 41
 Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
 1 5 10 15
 Pro Glu Ala Glu Gly Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
 20 25 30
 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
 35 40 45
 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
 50 55 60
 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
 65 70 75 80
 Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
 85 90 95
 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
 100 105 110
 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
 115 120 125
 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
 130 135 140
 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
 145 150 155 160
 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
 165 170 175
 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
 180 185 190
 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
 195 200 205
 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
 210 215 220
 Ser Leu Ser Leu Ser Pro Gly Lys
 225 230

<210> 42
 <211> 231
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FC REGION

<400> 42

Glu	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala
1				5					10					15	
Pro	Glu	Ala	Glu	Gly	Ala	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro
			20					25					30		
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val
		35					40					45			
Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val
	50					55					60				
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln
65					70					75					80
Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln
				85					90					95	
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala
			100					105					110		
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
		115					120					125			
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr
	130					135					140				
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
145					150					155					160
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
				165					170					175	
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
			180					185					190		
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe
		195					200					205			
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
	210					215					220				
Ser	Leu	Ser	Leu	Ser	Pro	Gly									
225					230										

<210> 43

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<223> FC (C5S (C220S), R77C, (R292C), N82G (N297G),
V87C (V302C))

<400> 43

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

Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val
50						55					60				
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Cys	Glu	Glu	Gln
65					70					75					80
Tyr	Gly	Ser	Thr	Tyr	Arg	Cys	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln
				85					90					95	
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala
			100					105					110		
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
		115					120					125			
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr
						135					140				
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
145					150					155					160
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
				165					170					175	
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
			180					185					190		
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe
		195					200					205			
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
	210					215					220				
Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys								
225						230									

<210> 44

<211> 231

<212> PRT

<213> Artificial Sequence

<220>

<223> FC WITH C220S/E233P/L234V/L235A/G236DEL/S267K

<400> 44

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

		115					120					125			
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys
	130						135					140			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
145						150				155					160
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
					165				170					175	
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
			180					185					190		
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
		195					200					205			
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
	210					215					220				
Leu	Ser	Leu	Ser	Pro	Gly	Lys									
225						230									

<210> 45

<211> 208

<212> PRT

<213> Artificial Sequence

<220>

<223> CD80 V2 ECD

<400> 45

Val	Ile	His	Val	Thr	Lys	Glu	Val	Lys	Glu	Val	Ala	Thr	Leu	Ser	Cys
1				5					10					15	
Gly	His	Asn	Val	Ser	Val	Glu	Glu	Leu	Ala	Gln	Thr	Arg	Ile	Tyr	Trp
			20					25					30		
Gln	Lys	Glu	Lys	Lys	Met	Val	Leu	Thr	Met	Met	Ser	Gly	Asp	Met	Asn
		35					40					45			
Ile	Trp	Pro	Glu	Tyr	Lys	Asn	Arg	Thr	Ile	Phe	Asp	Ile	Thr	Asn	Asn
	50					55					60				
Leu	Ser	Ile	Val	Ile	Gln	Ala	Leu	Arg	Pro	Ser	Asp	Glu	Gly	Thr	Tyr
65					70				75					80	
Glu	Cys	Val	Val	Leu	Lys	Tyr	Glu	Lys	Asp	Gly	Phe	Lys	Arg	Glu	His
			85						90				95		
Leu	Ala	Glu	Val	Thr	Leu	Ser	Val	Lys	Ala	Asp	Phe	Pro	Thr	Pro	Ser
			100					105					110		
Ile	Ser	Asp	Phe	Glu	Ile	Pro	Thr	Ser	Asn	Ile	Arg	Arg	Ile	Ile	Cys
		115					120					125			
Ser	Ala	Ser	Gly	Gly	Phe	Pro	Glu	Pro	His	Leu	Ser	Trp	Leu	Glu	Asn
	130					135					140				
Gly	Glu	Glu	Leu	Asn	Ala	Ile	Asn	Thr	Thr	Val	Ser	Gln	Asp	Pro	Glu
145					150					155					160
Thr	Glu	Leu	Tyr	Ala	Val	Ser	Ser	Lys	Leu	Asp	Phe	Asn	Met	Thr	Thr
				165					170					175	
Asn	His	Ser	Phe	Met	Cys	Leu	Ile	Lys	Tyr	Gly	His	Leu	Arg	Val	Asn
			180					185					190		

Gln	Thr	Phe	Asn	Trp	Asn	Thr	Thr	Lys	Gln	Glu	His	Phe	Pro	Asp	Asn
		195					200					205			

<210> 46
 <211> 231
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> FC (C5S (C220S), R77C, (R292C), N82G (N297G),
 V87C (V302C), L232DEL (K447DEL))

<400> 46

Glu	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala
1				5					10					15	
Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro
			20					25					30		
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val
		35					40					45			
Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val
	50				55						60				
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Cys	Glu	Glu	Gln
65					70					75				80	
Tyr	Gly	Ser	Thr	Tyr	Arg	Cys	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln
			85					90					95		
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala
		100						105					110		
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
	115						120					125			
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr
	130				135						140				
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser
145				150						155				160	
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
			165						170					175	
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
	180						185					190			
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe
	195					200						205			
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys
	210				215						220				
Ser	Leu	Ser	Leu	Ser	Pro	Gly									
225					230										

<210> 47
 <211> 230
 <212> PRT
 <213> Artificial Sequence

<220>

<223> FC WITH

C220S/E233P/L234V/L235A/G236DEL/S267K/K447DEL

<400> 47

Glu	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala
1				5					10					15	
Pro	Pro	Val	Ala	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
		20						25					30		
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
		35					40					45			
Asp	Val	Lys	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
	50					55					60				
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
65				70						75				80	
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
			85						90					95	
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
			100					105					110		
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
		115					120					125			
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys
	130					135					140				
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
145				150						155					160
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
			165						170					175	
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
		180						185					190		
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
		195					200					205			
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
	210					215					220				
Leu	Ser	Leu	Ser	Pro	Gly										
225					230										

<210> 48

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<223> IGG1 FC C220S

<400> 48

Glu	Pro	Lys	Ser	Ser	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala
1				5					10					15	
Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro

			20					25					30				
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val		
		35					40						45				
Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val		
	50					55					60						
Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln		
65					70					75					80		
Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln		
			85					90					95				
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala		
		100						105					110				
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro		
		115					120						125				
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr		
	130					135					140						
Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser		
145					150					155					160		
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr		
			165					170						175			
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr		
		180					185						190				
Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe		
	195					200						205					
Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys		
	210					215					220						
Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys										
225						230											

<210> 49

<211> 235

<212> PRT

<213> Artificial Sequence

<220>

<223> IGG2 FC

<400> 49

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

Val	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
			100					105					110		
Asn	Lys	Gly	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Thr	Lys
		115					120					125			
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu
		130				135					140				
Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
145					150					155					160
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
			165					170						175	
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Met	Leu	Asp	Ser	Asp	Gly	Ser	Phe
			180					185					190		
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
		195					200				205				
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
	210					215					220				
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					
225					230					235					

<210> 50

<211> 229

<212> PRT

<213> Artificial Sequence

<220>

<223> IGG4 FC

<400> 50

Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro	Ser	Cys	Pro	Ala	Pro	Glu	Phe
1				5				10						15	
Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr
			20				25					30			
Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val
		35				40					45				
Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val
	50				55				60						
Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser
65				70					75					80	
Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu
			85					90					95		
Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser
		100					105						110		
Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro
	115					120						125			
Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln
	130					135					140				
Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala
145				150						155					160
Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr

<210> 52
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> 4GS LINKER

<400> 52
Gly Gly Gly Gly Ser
1 5

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

<220>
<223> IGV-FC LINKER 1

<400> 53
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 54
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> IGV-IGV LINKER

<400> 54
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

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

<220>
<223> EAAAK LINKER

<400> 55

Glu Ala Ala Ala Lys
1 5

<210> 56
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> 3X EAAAK LINKER

<400> 56
Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys
1 5 10 15

<210> 57
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> 5X EAAAK LINKER

<400> 57
Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu Ala Ala Ala Lys Glu
1 5 10 15
Ala Ala Ala Lys Glu Ala Ala Ala Lys
20 25

<210> 58
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> LINKER

<400> 58
Gly Ser Gly Gly Gly Gly Ser
1 5

<210> 59
<211> 13
<212> PRT
<213> Artificial Sequence

<220>

<223> IGV-FC LINKER 2

<400> 59

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

<210> 60

<211> 363

<212> PRT

<213> Artificial Sequence

<220>

<223> VARIANT ICOSL IGV-FC

<400> 60

Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp Val Glu
1 5 10 15
Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn Asp Val
20 25 30
Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr Tyr His
35 40 45
Ile Pro Gln His Ser Ser Leu Glu Tyr Val Asp Ser Arg Tyr Arg Asn
50 55 60
Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe Ser Leu
65 70 75 80
Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His Cys Leu
85 90 95
Val Leu Ser Arg Ser Leu Gly Phe Gln Glu Val Leu Ser Val Glu Val
100 105 110
Thr Leu His Val Ala Ala Asn Phe Ser Val Gly Gly Gly Gly Ser Gly
115 120 125
Gly Gly Gly Ser Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro
130 135 140
Pro Cys Pro Ala Pro Glu Ala Glu Gly Ala Pro Ser Val Phe Leu Phe
145 150 155 160
Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
165 170 175
Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe
180 185 190
Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
195 200 205
Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
210 215 220
Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
225 230 235 240
Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala
245 250 255
Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg

				260					265				270				
Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly		
		275					280					285					
Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro		
		290				295					300						
Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser		
305				310						315					320		
Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln		
			325					330						335			
Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His		
		340					345					350					
Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly							
		355					360										

<210> 61

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL V27 ECD

<400> 61

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu		
1				5				10					15				
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val		
		20					25					30					
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His		
	35					40					45						
Ile	Pro	Gln	His	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn		
50					55			60									
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu		
65				70				75							80		
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu		
			85					90				95					
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val		
	100					105						110					
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro		
	115					120						125					
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Thr	Asn		
	130				135						140						
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser		
145				150						155					160		
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg		
			165					170						175			
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser		
	180						185						190				
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu		
	195					200						205					

Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
210						215					220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr		
225					230					235					

<210> 62
 <211> 238
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ICOSL V5 ECD

<400> 62

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	His	Ser	Ser	Leu	Glu	Tyr	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70				75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Pro	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120						125		
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
		130				135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165						170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu
		195					200						205		
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
		210				215					220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr		
225					230					235					

<210> 63
 <211> 238
 <212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL V82 ECD

<400> 63

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	His	Ser	Ser	Leu	Glu	Tyr	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65					70					75					80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85						90					95	
Val	Leu	Ser	Arg	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
	115					120						125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165						170					175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Arg	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu
	195						200					205			
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
	210					215					220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr		
225					230					235					

<210> 64

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL V47 ECD

<400> 64

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

			20					25					30				
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His		
		35					40					45					
Ile	Pro	Gln	His	Ser	Ser	Leu	Glu	Tyr	Val	Asp	Ser	Arg	Tyr	Arg	Asn		
	50					55					60						
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu		
65					70					75					80		
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu		
			85					90						95			
Val	Leu	Ser	Arg	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val		
			100					105					110				
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro		
		115					120										
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn		
	130					135					140						
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser		
145					150					155					160		
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Ser	Leu	Asn	Met	Arg		
				165				170						175			
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser		
			180					185					190				
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu		
	195						200					205					
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile		
	210					215					220						
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr				
225					230					235							

<210> 65

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL V44 ECD

<400> 65

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

Val	Leu	Ser	Pro	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120					125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165					170						175	
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
			180					185					190		
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu
		195					200					205			
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
	210					215					220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr		
225					230					235					

<210> 66

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> ICOSL V41 ECD

<400> 66

Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu
1				5					10					15	
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val
			20					25					30		
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
		35					40					45			
Ile	Pro	Gln	His	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
	50					55				60					
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65				70					75						80
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85					90					95		
Val	Leu	Ser	Arg	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100					105					110		
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
		115					120					125			
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
	130					135					140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145					150					155					160
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg

				165				170					175			
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser	
			180					185					190			
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu	
		195					200					205				
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile	
	210					215					220					
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr			
225					230					235						

<210> 67
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> ICOSL v44 IgV

<400> 67																
Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu	
1				5					10					15		
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val	
		20					25					30				
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His	
	35					40					45					
Ile	Pro	Gln	His	Ser	Ser	Leu	Glu	Tyr	Val	Asp	Ser	Arg	Tyr	Arg	Asn	
	50					55				60						
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu	
65				70					75						80	
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu	
			85					90						95		
Val	Leu	Ser	Pro	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val	
		100					105						110			
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val							
	115					120										

<210> 68
 <211> 284
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Mature ICOSLG(B7RP1, CD275, ICOSL, B7-H2)

<400> 68																
Asp	Thr	Gln	Glu	Lys	Glu	Val	Arg	Ala	Met	Val	Gly	Ser	Asp	Val	Glu	
1				5					10					15		
Leu	Ser	Cys	Ala	Cys	Pro	Glu	Gly	Ser	Arg	Phe	Asp	Leu	Asn	Asp	Val	

			20				25				30				
Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	Tyr	His
35							40				45				
Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	Arg	Asn
50							55				60				
Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	Ser	Leu
65				70				75				80			
Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	Cys	Leu
			85				90				95				
Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Val	Glu	Val
			100				105				110				
Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	Ala	Pro
115							120				125				
His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	Ile	Asn
130							135				140				
Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	Asn	Ser
145				150				155				160			
Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	Met	Arg
			165				170				175				
Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	Pro	Ser
180							185				190				
Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	Asn	Leu
195							200				205				
Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	Lys	Ile
210							215				220				
Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr	Trp	Ser
225				230				235				240			
Ile	Leu	Ala	Val	Leu	Cys	Leu	Leu	Val	Val	Val	Ala	Val	Ala	Ile	Gly
			245				250				255				
Trp	Val	Cys	Arg	Asp	Arg	Cys	Leu	Gln	His	Ser	Tyr	Ala	Gly	Ala	Trp
260							265				270				
Ala	Val	Ser	Pro	Glu	Thr	Glu	Leu	Thr	Gly	His	Val				
275							280								