

SEQUENCE LISTING

<110> GLAXO GROUP LIMITED
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 BURDEN Neil
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 CLEGG Stephanie Jane
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 DE WILDT Rudolf Maria
 BATUWANGALA Thi
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 SHAH Radha

<120> Antigen binding constructs

<130> PB62748

<150> US60/991449
 <151> 2007-11-30

<150> US61/027858
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<150> US61/046572
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<150> US61/081,191
 <151> 2008-07-16

<150> US61/084,431
 <151> 2008-07-29

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<170> FastSEQ for windows Version 4.0

<210> 1
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<400> 1
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Pro Ile Ser Asp Trp
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Ala Trp Ala Ser Thr Leu Asp Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Glu Gly Trp Gly Pro Pro
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

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 <213> Homo Sapiens

<400> 2
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Pro Ile Ser Asp Trp
 20 25 30
 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile

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

<210> 3
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 <212> PRT
 <213> Homo Sapiens

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

<210> 4
 <211> 116
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 <213> Homo Sapiens

<400> 4
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn Phe
 20 25 30
 Gly Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Trp Ile Ile Ser Ser Gly Thr Glu Thr Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Ser Leu Gly Arg Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 5
 <211> 118
 <212> PRT
 <213> Homo Sapiens

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

100
Leu Val Thr Val Ser Ser 105 110
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<220>
<223> Linker

<400> 6
Gly Gly Gly Gly Ser
1 5

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Thr Val Ala Ala Pro Ser
1 5

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<220>
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<400> 8
Ala Ser Thr Lys Gly Pro Thr
1 5

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<220>
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<400> 9
Ala Ser Thr Lys Gly Pro Ser
1 5

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<220>
<223> Linker

<400> 10
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10 15

<210> 11
<211> 18
<212> PRT
<213> Artificial Sequence

<220>

<223> Linker

<400> 11

Glu	Leu	Gln	Leu	Glu	Glu	Ser	Cys	Ala	Glu	Ala	Gln	Asp	Gly	Glu	Leu
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Asp	Gly														

<210> 12

<211> 455

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<213> Artificial Sequence

<220>

<223> Humanised

<400> 12

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
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Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr
			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120						125		
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135					140				
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
			245						250					255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
			325						330					335	
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345					350		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410					415	
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
			420					425					430		
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
		435					440					445			
Leu	Ser	Leu	Ser	Pro	Gly	Lys									
450						455									

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

<220>
 <223> Humanised

<400> 13
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Asn Ile Val His Ile
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asp Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Asp Asp Val Gly Ile Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 14
 <211> 451
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 14
 Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
 1 5 10 15
 Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
 20 25 30
 Gly Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Leu Ala His Ile Tyr Trp Asp Asp Lys Arg Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
 65 70 75 80
 Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95
 Cys Ala Arg Arg Glu Thr Val Phe Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205

PB62748

Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
210						215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys													
	450														

<210> 15

<211> 218

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 15

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

<210> 16

<211> 565

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 16

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr
			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120					125			
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135					140				
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
			245						250					255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
			325						330					335	
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345					350		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410					415	
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
			420					425					430		
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
		435					440					445			
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser
	450					455					460				
Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys
465					470					475					480
Arg	Ala	Ser	Arg	Pro	Ile	Ser	Asp	Trp	Leu	His	Trp	Tyr	Gln	Gln	Lys
				485					490					495	
Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Ala	Trp	Ala	Ser	Thr	Leu	Asp
			500					505					510		
Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe
		515					520					525			
Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr
	530					535					540				
Cys	Leu	Gln	Glu	Gly	Trp	Gly	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys
545					550					555					560

Val Glu Ile Lys Arg
565

<210> 17
<211> 565
<212> PRT
<213> Artificial Sequence

<220>
<223> Humanised

<400> 17
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
20 25 30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
50 55 60
Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
100 105 110
Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
115 120 125
Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
130 135 140
Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
145 150 155 160
Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
165 170 175
Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
180 185 190
Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
195 200 205
Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
210 215 220
Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
225 230 235 240
Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
245 250 255
Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
260 265 270
Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
275 280 285
Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
290 295 300
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
305 310 315 320
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
325 330 335
Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
340 345 350
Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
355 360 365
Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
370 375 380
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
385 390 395 400
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
405 410 415
Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
420 425 430
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
435 440 445
Leu Ser Leu Ser Pro Gly Lys Gly Ser Asp Ile Gln Met Thr Gln Ser
450 455 460
Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
465 470 475 480
Arg Ala Ser Arg Pro Ile Ser Asp Trp Leu His Trp Tyr Gln Gln Lys
485 490 495
Pro Gly Lys Ala Pro Lys Leu Leu Ile Ala Trp Ala Ser Ser Leu Tyr

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			500					505					510			
Glu	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	
		515					520					525				
Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	
	530					535					540					
Cys	Leu	Gln	Glu	Gly	Trp	Gly	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	
545					550					555					560	
Val	Glu	Ile	Lys	Arg												
				565												

<210> 18
 <211> 565
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 18

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser	
1				5					10					15		
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr	
			20					25					30			
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met	
		35					40					45				
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe	
	50					55					60					
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr	
65					70				75						80	
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85					90					95			
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met	
			100					105					110			
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	
		115					120					125				
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	
	130					135					140					
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	
145					150				155						160	
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	
			165					170						175		
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	
			180					185					190			
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	
		195					200					205				
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	
	210					215					220					
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	
225				230					235						240	
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	
			245					250					255			
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	
		260					265						270			
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	
	275						280					285				
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	
	290					295					300					
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	
305				310					315						320	
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	
			325						330					335		
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	
		340						345					350			
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	
		355					360					365				
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	
	370					375					380					
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	
385					390					395					400	
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	
			405						410					415		
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	
			420					425					430			
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	
		435					440					445				

Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser
450						455					460				
Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys
465					470					475					480
Arg	Ala	Ser	Arg	Pro	Ile	Ser	Asp	Trp	Leu	His	Trp	Tyr	Gln	Gln	Lys
				485					490					495	
Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Ala	Trp	Ala	Ser	Ser	Leu	Gln
			500					505					510		
Gly	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe
		515					520					525			
Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr
	530					535					540				
Cys	Leu	Gln	Glu	Gly	Trp	Gly	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys
545					550					555					560
Val	Glu	Ile	Lys	Arg											
				565											

<210> 19

<211> 573

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 19

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
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Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr
			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75				80	
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120					125			
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135					140				
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
				245					250					255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
				325					330					335	
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345					350		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys

385	Thr	Thr	Pro	Pro	Val	390	Leu	Asp	Ser	Asp	Gly	395	Ser	Phe	Phe	Leu	Tyr	400	Ser
					405						410						415		
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	430	Phe	Ser			
			420					425											
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser				
		435					440					445							
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Ser	Glu	Val	Gln	Leu	Leu	Glu	Ser				
		450				455					460								
Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala				
465					470					475					480				
Ala	Ser	Gly	Phe	Thr	Phe	Arg	Asn	Phe	Gly	Met	Gly	Trp	Val	Arg	Gln				
				485					490						495				
Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Trp	Ile	Ile	Ser	Ser	Gly				
			500					505						510					
Thr	Glu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser				
		515					520					525							
Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg				
	530					535					540								
Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Ser	Leu	Gly	Arg	Phe				
545					550					555					560				
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
				565					570										

<210> 20
 <211> 568
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400>	20																		
Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser				
1				5					10					15					
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr				
			20					25					30						
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met				
		35					40					45							
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe				
	50					55					60								
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr				
65				70					75					80					
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys				
			85						90					95					
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met				
			100					105						110					
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr				
		115					120						125						
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser				
	130					135					140								
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu				
145					150					155				160					
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His				
				165					170					175					
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser				
			180					185					190						
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys				
		195					200					205							
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu				
	210					215					220								
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro				
225					230					235					240				
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys				
			245						250					255					
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val				
			260					265					270						
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp				
		275					280					285							
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr				
	290					295					300								
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp				
305					310					315					320				
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu				
				325					330					335					

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Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 Leu Ser Leu Ser Pro Gly Lys Gly Gly Gly Ser Asp Ile Gln Met
 Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr
 Ile Thr Cys Arg Ala Ser Arg Pro Ile Ser Asp Trp Leu His Trp Tyr
 Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Ala Trp Ala Ser
 Thr Leu Asp Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly
 Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala
 Thr Tyr Tyr Cys Leu Gln Glu Gly Trp Gly Pro Thr Phe Gly Gln
 Gly Thr Lys Val Glu Ile Lys Arg

<210> 21
 <211> 568
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 21
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp

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Gly	Val	275	Glu	Val	His	Asn	Ala	280	Lys	Thr	Lys	Pro	Arg	285	Glu	Glu	Gln	Tyr
Asn	290	Ser	Thr	Tyr	Arg	Val	295	Ser	Val	Leu	Thr	Val	300	Leu	His	Gln	Asp	
305	Trp	Leu	Asn	Gly	Lys	310	Glu	Tyr	Lys	Cys	Lys	315	Val	Ser	Asn	Lys	Ala	
Pro	Ala	Pro	Ile	325	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg		
Glu	Pro	Gln	Val	340	Tyr	Thr	Leu	Pro	345	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp			
Ile	370	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys		
385	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser		
Lys	Leu	Thr	Val	405	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser		
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser			
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Gly	Gly	Gly	Ser	Asp	Ile	Gln	Met			
Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr			
465	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser	Asp	Trp	Leu	His	Trp	Tyr		
Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Ala	Trp	Ala	Ser			
Ser	Leu	Tyr	Glu	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly			
Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala			
Thr	530	Tyr	Tyr	Cys	Leu	Gln	Gly	Trp	Gly	Pro	Pro	Thr	Phe	Gly	Gln			
545	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg										
				565														

<210> 22
 <211> 568
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 22

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

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Pro 225 Lys Ser Cys Asp 230 Lys Thr His Thr Cys Pro 235 Pro Cys Pro Ala Pro 240
 Glu Leu Leu Gly Gly 245 Pro Ser Val Phe Leu 250 Phe Pro Pro Lys Pro 255 Lys
 Asp Thr Leu Met 260 Ile Ser Arg Thr Pro 265 Glu Val Thr Cys Val 270 Val Val
 Asp Val Ser 275 His Glu Asp Pro Glu 280 Val Lys Phe Asn Trp Tyr Val Asp
 Gly Val 290 Glu Val His Asn Ala 295 Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 Asn 305 Ser Thr Tyr Arg Val 310 Val Ser Val Leu Thr 315 Val Ser Asn Lys Ala Leu 320
 Trp Leu Asn Gly Lys 325 Glu Tyr Lys Cys Lys 330 Val Ser Asn Lys Ala Leu 335
 Pro Ala Pro Ile 340 Glu Lys Thr Ile Ser 345 Lys Ala Lys Gly Gln Pro Arg 350
 Glu Pro Gln 355 Val Tyr Thr Leu Pro 360 Pro Ser Arg Asp Glu 365 Leu Thr Lys
 Asn Gln 370 Val Ser Leu Thr Cys 375 Leu Val Lys Gly Phe Tyr Pro Ser Asp
 Ile 385 Ala Val Glu Trp Glu 390 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys 400
 Thr Thr Pro Pro Val 405 Leu Asp Ser Asp Gly 410 Ser Phe Phe Leu Tyr Ser 415
 Lys Leu Thr Val 420 Asp Lys Ser Arg Trp 425 Gln Gln Gly Asn Val Phe Ser 430
 Cys Ser Val 435 Met His Glu Ala Leu 440 His Asn His Tyr Thr Gln Lys Ser 445
 Leu Ser 450 Leu Ser Pro Gly Lys 455 Gly Gly Gly Gly Ser 460 Asp Ile Gln Met
 Thr 465 Gln Ser Pro Ser Ser 470 Leu Ser Ala Ser Val Gly Asp Arg Val Thr 480
 Ile Thr Cys Arg Ala 485 Ser Arg Pro Ile Ser 490 Asp Trp Leu His Trp Tyr 495
 Gln Gln Lys Pro 500 Gly Lys Ala Pro Lys 505 Leu Leu Ile Ala Trp Ala Ser 510
 Ser Leu Gln Gly Gly Val Pro Ser 520 Arg Phe Ser Gly Ser 525 Gly Ser Gly
 Thr Asp 530 Phe Thr Leu Thr Ile 535 Ser Ser Leu Gln Pro Glu Asp Phe Ala
 Thr 545 Tyr Tyr Cys Leu Gln 550 Glu Gly Trp Gly Pro 555 Pro Thr Phe Gly Gln 560
 Gly Thr Lys Val Glu 565 Ile Lys Arg

<210> 23

<211> 576

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 23

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

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				165					170					175			
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser		
			180					185					190				
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys		
		195					200					205					
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu		
	210					215					220						
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro		
	225				230					235					240		
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys		
				245					250					255			
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val		
			260					265					270				
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp		
		275					280					285					
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr		
	290					295					300						
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp		
	305				310					315					320		
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu		
				325					330					335			
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg		
			340					345					350				
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys		
		355					360					365					
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp		
	370					375					380						
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys		
	385				390					395					400		
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser		
				405					410					415			
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser		
			420					425					430				
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser		
		435					440					445					
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Gly	Gly	Gly	Ser	Glu	Val	Gln	Leu		
	450				455						460						
Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu		
	465				470					475					480		
Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Arg	Asn	Phe	Gly	Met	Gly	Trp		
				485					490					495			
Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Trp	Ile	Ile		
			500					505					510				
Ser	Ser	Gly	Thr	Glu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe		
		515					520					525					
Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn		
	530				535						540						
Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Ser	Leu		
	545				550				555						560		
Gly	Arg	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
				565					570					575			

<210> 24
 <211> 571
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 24
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110

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Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120				125				
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135					140				
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
			245						250					255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
			325						330					335	
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345					350		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410					415	
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
			420					425					430		
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
		435					440					445			
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Asp
	450					455					460				
Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp
465					470					475					480
Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser	Asp	Trp	Leu
				485					490					495	
His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Ala
			500					505					510		
Trp	Ala	Ser	Thr	Leu	Asp	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser
		515					520					525			
Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu
	530					535					540				
Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Glu	Gly	Trp	Gly	Pro	Pro	Thr
545					550					555					560
Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg					
				565					570						

<210> 25

<211> 571

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 25

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

50	Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
	Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
225	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
305	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
385	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
	Leu	Ser	Leu	Ser	Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Asp
465	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp
	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser	Asp	Trp	Leu
	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Ala
	Trp	Ala	Ser	Ser	Leu	Tyr	Glu	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser
	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu
545	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Glu	Gly	Trp	Gly	Pro	Pro	Thr
	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg					

<210> 26
 <211> 571
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 26

Gln 1	Val	Gln	Leu 5	Val	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Phe	Tyr	Ile	Lys 30	Asp	Thr
Tyr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Met
Gly	Thr 50	Ile	Asp	Pro	Ala	Asn 55	Gly	Asn	Thr	Lys	Tyr 60	Val	Pro	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Glu	Ser 75	Thr	Ser	Thr	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Ser	Ile 100	Tyr	Asp	Asp	Tyr	His 105	Tyr	Asp	Asp	Tyr	Tyr 110	Ala	Met
Asp	Tyr	Trp 115	Gly	Gln	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Ala	Ser	Thr
Lys	Gly 130	Pro	Ser	Val	Phe	Pro 135	Leu	Ala	Pro	Ser	Ser 140	Lys	Ser	Thr	Ser
Gly 145	Gly	Thr	Ala	Ala	Leu 150	Gly	Cys	Leu	Val	Lys 155	Asp	Tyr	Phe	Pro	Glu 160
Pro	Val	Thr	Val	Ser 165	Trp	Asn	Ser	Gly	Ala 170	Leu	Thr	Ser	Gly	Val 175	His
Thr	Phe	Pro	Ala 180	Val	Leu	Gln	Ser	Ser 185	Gly	Leu	Tyr	Ser	Leu 190	Ser	Ser
Val	Val	Thr 195	Val	Pro	Ser	Ser	Ser 200	Leu	Gly	Thr	Gln	Thr 205	Tyr	Ile	Cys
Asn 210	Val	Asn	His	Lys	Pro	Ser 215	Asn	Thr	Lys	Val	Asp 220	Lys	Lys	Val	Glu
Pro 225	Lys	Ser	Cys	Asp	Lys 230	Thr	His	Thr	Cys	Pro 235	Pro	Cys	Pro	Ala	Pro 240
Glu	Leu	Leu	Gly	Gly 245	Pro	Ser	Val	Phe	Leu 250	Phe	Pro	Pro	Lys	Pro 255	Lys
Asp	Thr	Leu	Met 260	Ile	Ser	Arg	Thr	Pro 265	Glu	Val	Thr	Cys	Val 270	Val	Val
Asp	Val	Ser 275	His	Glu	Asp	Pro	Glu 280	Val	Lys	Phe	Asn	Trp 285	Tyr	Val	Asp
Gly	Val 290	Glu	Val	His	Asn	Ala 295	Lys	Thr	Lys	Pro	Arg 300	Glu	Glu	Gln	Tyr
Asn 305	Ser	Thr	Tyr	Arg	Val 310	Val	Ser	Val	Leu	Thr 315	Val	Leu	His	Gln	Asp 320
Trp	Leu	Asn	Gly	Lys 325	Glu	Tyr	Lys	Cys	Lys 330	Val	Ser	Asn	Lys	Ala 335	Leu
Pro	Ala	Pro	Ile 340	Glu	Lys	Thr	Ile	Ser 345	Lys	Ala	Lys	Gly	Gln 350	Pro	Arg
Glu	Pro	Gln 355	Val	Tyr	Thr	Leu	Pro 360	Pro	Ser	Arg	Asp	Glu 365	Leu	Thr	Lys
Asn 370	Gln	Val	Ser	Leu	Thr	Cys 375	Leu	Val	Lys	Gly	Phe 380	Tyr	Pro	Ser	Asp
Ile 385	Ala	Val	Glu	Trp	Glu 390	Ser	Asn	Gly	Gln	Pro 395	Glu	Asn	Asn	Tyr	Lys 400
Thr	Thr	Pro	Pro	Val 405	Leu	Asp	Ser	Asp	Gly 410	Ser	Phe	Phe	Leu	Tyr 415	Ser
Lys	Leu	Thr	Val 420	Asp	Lys	Ser	Arg	Trp 425	Gln	Gln	Gly	Asn	Val 430	Phe	Ser
Cys	Ser	Val 435	Met	His	Glu	Ala	Leu 440	His	Asn	His	Tyr	Thr 445	Gln	Lys	Ser
Leu	Ser 450	Leu	Ser	Pro	Gly	Lys 455	Thr	Val	Ala	Ala	Pro 460	Ser	Gly	Ser	Asp
Ile 465	Gln	Met	Thr	Gln	Ser 470	Pro	Ser	Ser	Leu	Ser 475	Ala	Ser	Val	Gly	Asp 480
Arg	Val	Thr	Ile	Thr 485	Cys	Arg	Ala	Ser	Arg 490	Pro	Ile	Ser	Asp	Trp 495	Leu
His	Trp	Tyr	Gln 500	Gln	Lys	Pro	Gly	Lys 505	Ala	Pro	Lys	Leu	Leu 510	Ile	Ala
Trp	Ala	Ser 515	Ser	Leu	Gln	Gly	Gly 520	Val	Pro	Ser	Arg	Phe 525	Ser	Gly	Ser
Gly	Ser 530	Gly	Thr	Asp	Phe	Thr 535	Leu	Thr	Ile	Ser	Ser 540	Leu	Gln	Pro	Glu
Asp 545	Phe	Ala	Thr	Tyr	Tyr 550	Cys	Leu	Gln	Glu	Gly 555	Trp	Gly	Pro	Pro	Thr 560
Phe	Gly	Gln	Gly	Thr 565	Lys	Val	Glu	Ile	Lys 570	Arg					

<210> 27
<211> 579

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 27

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser	1	5	10	15
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr	20	25	30	35
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met	40	45	50	55
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe	60	65	70	75
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr	80	85	90	95
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	100	105	110	115
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met	120	125	130	135
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	140	145	150	155
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	160	165	170	175
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	180	185	190	195
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	200	205	210	215
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	220	225	230	235
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	240	245	250	255
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	260	265	270	275
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	280	285	290	295
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	300	305	310	315
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	320	325	330	335
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	340	345	350	355
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	360	365	370	375
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	380	385	390	395
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	400	405	410	415
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	420	425	430	435
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	440	445	450	455
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	460	465	470	475
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	480	485	490	495
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	500	505	510	515
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	520	525	530	535
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	540	545	550	555
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Glu	560	565	570	575
Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	580	585	590	595
Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Arg	Asn	Phe	Gly	600	605	610	615
Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	620	625	630	635
Trp	Ile	Ile	Ser	Ser	Gly	Thr	Glu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	640	645	650	655
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	660	665	670	675
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	680	685	690	695

545 Lys Ser Leu Gly Arg 550 Phe Asp Tyr Trp Gly 555 Gln Gly Thr Leu Val 560 Thr
 Val Ser Ser 565 570 575

<210> 28
 <211> 574
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 28
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 385 390 395 400
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 405 410 415
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Gly Ser Ala Ser Thr Lys Gly Pro Thr
 450 455 460
 Gly Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Leu Ser Ala Ser
 465 470 475 480

Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser
				485					490					495	
Asp	Trp	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu
			500					505					510		
Leu	Ile	Ala	Trp	Ala	Ser	Thr	Leu	Asp	Ser	Gly	Val	Pro	Ser	Arg	Phe
		515					520					525			
Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu
	530					535					540				
Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Glu	Gly	Trp	Gly
545					550					555					560
Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg		
				565					570						

<210> 29

<211> 574

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 29

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr
			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70				75						80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120					125			
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135					140				
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
			245						250					255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
				325					330					335	
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345					350		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410					415	
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser

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			420					425					430			
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	
		435					440					445				
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Thr	
	450					455					460					
Gly	Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	
465					470					475					480	
Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser	
			485						490					495		
Asp	Trp	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	
			500					505					510			
Leu	Ile	Ala	Trp	Ala	Ser	Ser	Leu	Tyr	Glu	Gly	Val	Pro	Ser	Arg	Phe	
		515					520					525				
Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	
	530					535					540					
Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Glu	Gly	Trp	Gly	
545					550					555					560	
Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg			
			565						570							

<210> 30

<211> 574

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 30

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser	
1			5						10					15		
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr	
			20					25					30			
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met	
		35					40					45				
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe	
	50					55				60						
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr	
65					70				75						80	
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85					90					95			
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met	
			100					105					110			
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	
		115					120					125				
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	
	130					135					140					
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	
145					150					155					160	
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	
				165					170					175		
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	
			180					185					190			
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	
		195					200					205				
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	
	210					215					220					
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	
225					230				235						240	
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	
			245					250					255			
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	
			260					265					270			
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	
		275					280					285				
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	
	290					295					300					
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	
305					310					315					320	
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	
			325						330					335		
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	
			340					345					350			
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	
		355					360					365				

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Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410					415	
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
			420					425					430		
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
		435					440					445			
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Thr
	450					455					460				
Gly	Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser
465					470					475					480
Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser
			485						490					495	
Asp	Trp	Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu
			500					505					510		
Leu	Ile	Ala	Trp	Ala	Ser	Ser	Leu	Gln	Gly	Gly	Val	Pro	Ser	Arg	Phe
		515					520					525			
Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu
	530					535					540				
Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Glu	Gly	Trp	Gly
545					550					555					560
Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg		
				565					570						

<210> 31

<211> 582

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 31

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1			5						10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr
			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120					125			
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135						140			
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
				245						250				255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp

305	Trp	Leu	Asn	Gly	Lys	310	Glu	Tyr	Lys	Cys	Lys	315	Val	Ser	Asn	Lys	Ala	Leu	320
					325						330						335		
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg				
			340																
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys				
		355																	
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp				
	370					375													
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys				
385					390										400				
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser				
				405											415				
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser				
			420					425							430				
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser				
		435																	
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Thr				
	450					455													
Gly	Ser	Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro				
465					470										480				
Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Arg				
				485											495				
Asn	Phe	Gly	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu				
			500					505							510				
Trp	Val	Ser	Trp	Ile	Ile	Ser	Ser	Gly	Thr	Glu	Thr	Tyr	Tyr	Ala	Asp				
		515					520								525				
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr				
	530					535									540				
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr				
545					550										560				
Tyr	Cys	Ala	Lys	Ser	Leu	Gly	Arg	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr				
				565					570						575				
Leu	Val	Thr	Val	Ser	Ser														
			580																

<210> 32

<211> 582

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 32

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

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Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 385 390 395 400
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 405 410 415
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Gly Ser Glu Pro Lys Ser Cys Asp Lys
 450 455 460
 Thr His Thr Cys Pro Pro Cys Pro Gly Ser Asp Ile Gln Met Thr Gln
 465 470 475 480
 Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
 485 490 495
 Cys Arg Ala Ser Arg Pro Ile Ser Asp Trp Leu His Trp Tyr Gln Gln
 500 505 510
 Lys Pro Gly Lys Ala Pro Lys Leu Ile Ala Trp Ala Ser Thr Leu
 515 520 525
 Asp Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
 530 535 540
 Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
 545 550 555 560
 Tyr Cys Leu Gln Glu Gly Trp Gly Pro Pro Thr Phe Gly Gln Gly Thr
 565 570 575
 Lys Val Glu Ile Lys Arg
 580

<210> 33
 <211> 582
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 33
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His

PB62748

Thr	Phe	Pro	Ala	165	Val	Leu	Gln	Ser	Ser	170	Gly	Leu	Tyr	Ser	Leu	175	Ser	Ser
Val	Val	Thr	180	Val	Pro	Ser	Ser	Ser	185	Leu	Gly	Thr	Gln	Thr	190	Tyr	Ile	Cys
Asn	Val	Asn	195	His	Lys	Pro	Ser	Asn	200	Thr	Lys	Val	Asp	Lys	205	Lys	Val	Glu
Pro	Lys	Ser	210	Cys	Asp	Lys	215	Thr	His	Thr	Cys	Pro	Pro	Cys	220	Pro	Ala	Pro
Glu	Leu	Leu	225	Gly	Gly	230	Pro	Ser	Val	Phe	Leu	235	Phe	Pro	Pro	Lys	Pro	240
Asp	Thr	Leu	245	Met	Ile	Ser	Arg	Thr	Pro	250	Glu	Val	Thr	Cys	Val	Val	Val	
Asp	Val	Ser	260	His	Glu	Asp	Pro	Glu	265	Val	Lys	Phe	Asn	Trp	270	Tyr	Val	Asp
Gly	Val	Glu	275	Val	His	Asn	Ala	Lys	280	Thr	Lys	Pro	Arg	Glu	285	Glu	Gln	Tyr
Asn	Ser	Thr	290	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	300	Gln	Asp	
Trp	Leu	Asn	305	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	310	Val	Ser	Asn	Lys	Ala	Leu	
Pro	Ala	Pro	315	Ile	Glu	Lys	Thr	Ile	Ser	320	Lys	Ala	Lys	Gly	Gln	Pro	Arg	
Glu	Pro	Gln	325	Val	Tyr	Thr	Leu	Pro	Pro	330	Ser	Arg	Asp	Glu	Leu	Thr	Lys	
Asn	Gln	Val	335	Ser	Leu	Thr	Cys	Leu	Val	340	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	
Ile	Ala	Val	345	Glu	Trp	Glu	Ser	Asn	Gly	350	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	
Thr	Thr	Pro	355	Pro	Val	Leu	Asp	Ser	Asp	360	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	
Lys	Leu	Thr	365	Val	Asp	Lys	Ser	Arg	Trp	370	Gln	Gln	Gly	Asn	Val	Phe	Ser	
Cys	Ser	Val	375	Met	His	Glu	Ala	Leu	His	380	Asn	His	Tyr	Thr	Gln	Lys	Ser	
Leu	Ser	Leu	385	Ser	Pro	Gly	Lys	Gly	Ser	390	Glu	Pro	Lys	Ser	Cys	Asp	Lys	
Thr	His	Thr	395	Cys	Pro	Pro	Cys	Pro	Gly	400	Ser	Asp	Ile	Gln	Met	Thr	Gln	
Ser	Pro	Ser	405	Ser	Leu	Ser	Ala	Ser	Val	410	Gly	Asp	Arg	Val	Thr	Ile	Thr	
Cys	Arg	Ala	415	Ser	Arg	Pro	Ile	Ser	Asp	420	Trp	Leu	His	Trp	Tyr	Gln	Gln	
Lys	Pro	Gly	425	Lys	Ala	Pro	Lys	Leu	Leu	430	Ile	Ala	Trp	Ala	Ser	Ser	Leu	
Tyr	Glu	Gly	435	Val	Pro	Ser	Arg	Phe	Ser	440	Gly	Ser	Gly	Ser	Gly	Thr	Asp	
Phe	Thr	Leu	445	Thr	Ile	Ser	Ser	Leu	Gln	450	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	
Tyr	Cys	Leu	455	Gln	Glu	Gly	Trp	Gly	Pro	460	Thr	Phe	Gly	Gln	Gly	Thr		
Lys	Val	Glu	465	Ile	Lys	Arg				470								

<210> 34

<211> 582

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 34

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

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Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 385 390 395 400
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 405 410 415
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Gly Ser Glu Pro Lys Ser Cys Asp Lys
 450 455 460
 Thr His Thr Cys Pro Pro Cys Pro Gly Ser Asp Ile Gln Met Thr Gln
 465 470 475 480
 Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr
 485 490 495
 Cys Arg Ala Ser Arg Pro Ile Ser Asp Trp Leu His Trp Tyr Gln Gln
 500 505 510
 Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Ala Trp Ala Ser Ser Leu
 515 520 525
 Gln Gly Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
 530 535 540
 Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr
 545 550 555 560
 Tyr Cys Leu Gln Glu Gly Trp Gly Pro Pro Thr Phe Gly Gln Gly Thr
 565 570 575
 Lys Val Glu Ile Lys Arg
 580

<210> 35
 <211> 590
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 35
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr

PB62748

			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120					125			
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135					140				
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
				245					250					255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
				325					330					335	
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345					350		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375									

<210>	36
<211>	585
<212>	PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 36

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser	1	5	10	15
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr	20	25	30	35
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met	40	45	50	55
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe	60	65	70	75
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr	80	85	90	95
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	100	105	110	115
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met	120	125	130	135
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	140	145	150	155
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	160	165	170	175
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	180	185	190	195
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	200	205	210	215
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	220	225	230	235
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	240	245	250	255
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	260	265	270	275
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	280	285	290	295
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	300	305	310	315
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	320	325	330	335
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	340	345	350	355
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	360	365	370	375
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	380	385	390	395
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	400	405	410	415
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	420	425	430	435
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	440	445	450	455
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	460	465	470	475
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	480	485	490	495
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	500	505	510	515
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	520	525	530	535
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	540	545	550	555
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Gly	Ser	Glu	Leu	Gln	Leu	Glu	Glu	Ser	560	565	570	575
Cys	Ala	Glu	Ala	Gln	Asp	Gly	Glu	Leu	Asp	Gly	Gly	Ser	Asp	Ile	Gln	580	585	590	595
Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	600	605	610	615
Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser	Asp	Trp	Leu	His	Trp	620	625	630	635
Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Ala	Trp	Ala	640	645	650	655
Ser	Thr	Leu	Asp	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	660	665	670	675
Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	680	685	690	695

Ala Thr Tyr Tyr Cys Leu Gln Glu Gly Trp Gly Pro Pro Thr Phe Gly
 565 570 575
 Gln Gly Thr Lys Val Glu Ile Lys Arg
 580 585

<210> 37
 <211> 585
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 37
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 385 390 395 400
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 405 410 415
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Gly Ser Glu Leu Gln Leu Glu Glu Ser
 450 455 460
 Cys Ala Glu Ala Gln Asp Gly Glu Leu Asp Gly Gly Ser Asp Ile Gln
 465 470 475 480
 Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val

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Thr	Ile	Thr	Cys	485	Arg	Ala	Ser	Arg	Pro	490	Ile	Ser	Asp	Trp	Leu	His	Trp	495
			500						505						510			
Tyr	Gln	Gln	Lys	515	Pro	Gly	Lys	Ala	520	Pro	Lys	Leu	Leu	Ile	525	Ala	Trp	Ala
Ser	Ser	Leu	Tyr		Glu	Gly	Val	Pro	535	Ser	Arg	Phe	Ser	Gly		Ser	Gly	Ser
	530						535						540					
Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	550	Ser	Leu	Gln	Pro	Glu	Asp	Phe		
545					550						555					560		
Ala	Thr	Tyr	Tyr	Cys	565	Leu	Gln	Glu	Gly	Trp	Gly	Pro	Pro	Thr	Phe	Gly		
				575						570					575			
Gln	Gly	Thr	Lys	580	Val	Glu	Ile	Lys	Arg	585								

<210> 38

<211> 585

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 38

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser			
1				5					10					15				
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	25	Gly	Phe	Tyr	Ile	Lys	Asp	Thr		
			20											30				
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	40	Gly	Gln	Gly	Leu	45	Glu	Trp	Met	
		35					40											
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	55	Thr	Lys	Tyr	Val	60	Pro	Lys	Phe	
	50					55						60						
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	70	Glu	Ser	Thr	Ser	75	Thr	Ala	Tyr	
65					70												80	
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	85	Asp	Thr	Ala	Val	90	Tyr	Tyr	Cys	
				85												95		
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	100	Tyr	Asp	Asp	Tyr	105	Tyr	Ala	Met	
			100															
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	110	Thr	Val	Ser	Ser	115	Ala	Ser	Thr	
		115					120											
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	125	Pro	Ser	Ser	Lys	130	Ser	Thr	Ser	
	130					135												
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	140	Val	Lys	Asp	Tyr	145	Phe	Pro	Glu	
					150						155						160	
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	165	Ala	Leu	Thr	Ser	170	Gly	Val	His	
				165												175		
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	180	Gly	Leu	Tyr	Ser	185	Leu	Ser	Ser	
			180															
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	190	Gly	Thr	Gln	Thr	195	Tyr	Ile	Cys	
		195					200											
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	205	Lys	Val	Asp	Lys	210	Lys	Val	Glu	
						215												
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	220	Cys	Pro	Pro	Cys	225	Pro	Ala	Pro	
					230													
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	235	Leu	Phe	Pro	Pro	240	Lys	Pro	Lys	
				245						250								
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	255	Glu	Val	Thr	Cys	260	Val	Val	Val	
			260															
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	265	Lys	Phe	Asn	Trp	270	Tyr	Val	Asp	
		275					280											
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	285	Lys	Pro	Arg	Glu	290	Glu	Gln	Tyr	
						295						300						
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	305	Leu	Thr	Val	Leu	310	His	Gln	Asp	
					310													
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	315	Lys	Val	Ser	Asn	320	Lys	Ala	Leu	
				325						330						335		
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	335	Lys	Ala	Lys	Gly	340	Gln	Pro	Arg	
			340															
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	345	Ser	Arg	Asp	Glu	350	Leu	Thr	Lys	
		355					360											
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	365	Lys	Gly	Phe	Tyr	370	Pro	Ser	Asp	
						375												
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	380	Gln	Pro	Glu	Asn	385	Asn	Tyr	Lys	
					390												400	
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	405	Gly	Ser	Phe	Phe	410	Leu	Tyr	Ser	
				405												415		

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Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Gly Ser Glu Leu Gln Leu Glu Glu Ser
 450 455 460
 Cys Ala Glu Ala Gln Asp Gly Glu Leu Asp Gly Gly Ser Asp Ile Gln
 465 470 475 480
 Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val
 485 490 495
 Thr Ile Thr Cys Arg Ala Ser Arg Pro Ile Ser Asp Trp Leu His Trp
 500 505 510
 Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Ala Trp Ala
 515 520 525
 Ser Ser Leu Gln Gly Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
 530 535 540
 Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe
 545 550 555 560
 Ala Thr Tyr Tyr Cys Leu Gln Glu Gly Trp Gly Pro Pro Thr Phe Gly
 565 570 575
 Gln Gly Thr Lys Val Glu Ile Lys Arg
 580 585

<210> 39

<211> 593

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 39

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg

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340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 385 390 400
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 405 410 415
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Gly Ser Glu Leu Gln Leu Glu Glu Ser
 450 455 460
 Cys Ala Glu Ala Gln Asp Gly Glu Leu Asp Gly Gly Ser Glu Val Gln
 465 470 475 480
 Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
 485 490 495
 Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn Phe Gly Met Gly
 500 505 510
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Trp Ile
 515 520 525
 Ile Ser Ser Gly Thr Glu Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg
 530 535 540
 Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
 545 550 555 560
 Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Ser
 565 570 575 580
 Leu Gly Arg Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 585 590
 Ser

<210> 40
 <211> 457
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 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 40
 1 Gln Val Gln Leu Val 5 Gln Ser Gly Ala 10 Glu Val Lys Lys Pro Gly Ser 15
 Ser Val Lys Val 20 Ser Cys Lys Ala 25 Ser Gly Phe Tyr Ile Lys Asp Thr 30
 Tyr Met His 35 Trp Val Arg Gln Ala 40 Pro Gly Gln Gly Leu Glu Trp Met 45
 Gly Thr 50 Ile Asp Pro Ala Asn 55 Gly Asn Thr Lys Tyr 60 Val Pro Lys Phe 65
 Gln Gly Arg Val Thr 70 Ile Thr Ala Asp Glu Ser 75 Thr Ser Thr Ala Tyr 80
 65 Met Glu Leu Ser 85 Ser Leu Arg Ser Glu Asp 90 Thr Ala Val Tyr Tyr Cys 95
 Ala Arg Ser 100 Ile Tyr Asp Asp Tyr His 105 Tyr Asp Asp Tyr Tyr Ala Met 110
 Asp Tyr Trp 115 Gly Gln Gly Thr Leu 120 Val Thr Val Ser Ser Ala Ser Thr 125
 Lys Gly 130 Pro Ser Val Phe Pro 135 Leu Ala Pro Ser Ser Lys Ser Thr Ser 140
 Gly 145 Gly Thr Ala Ala Leu 150 Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu 160
 Pro Val Thr Val 165 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His 175
 Thr Phe Pro Ala 180 Val Leu Gln Ser Ser 185 Gly Leu Tyr Ser Leu Ser Ser 190
 Val Val Thr 195 Val Pro Ser Ser Ser 200 Leu Gly Thr Gln Thr Tyr Ile Cys 205
 Asn Val 210 Asn His Lys Pro Ser 215 Asn Thr Lys Val Asp Lys Lys Val Glu 220
 Pro 225 Lys Ser Cys Asp Lys 230 Thr His Thr Cys Pro Pro Cys Pro Ala Pro 240
 Glu Leu Leu Gly 245 Gly Pro Ser Val Phe Leu 250 Phe Pro Pro Lys Pro Lys 255

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 385 390 395 400
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 405 410 415
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Gly Ser
 450 455

<210> 41
 <211> 466
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 41
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp

[illegible]

<220>
<223> Humanised

Page 35

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
 385 390 395 400
 Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
 405 410 415
 Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser
 420 425 430
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Gly Ser Glu Pro Lys Ser Cys Asp Lys
 450 455 460
 Thr His Thr Cys Pro Pro Cys Pro Gly Ser
 465 470

<210> 43
 <211> 477
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 43
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
 370 375 380
 Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys

385 Thr Thr Pro Pro Val 390 Leu Asp Ser Asp Gly 395 Ser Phe Phe Leu Tyr 400 Ser
 Lys Leu Thr Val 405 Lys Ser Arg Trp 410 Gln Gln Gly Asn Val 415 Phe Ser
 Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr 430 Gln Lys Ser
 Leu Ser Leu Ser Pro Gly Lys Gly Ser Glu Leu Gln Leu Glu Glu Ser
 Cys Ala Glu Ala Gln Asp Gly Glu Leu Asp Gly Gly Ser
 465 470 475

<210> 44
 <211> 332
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 44
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Asn Ile Val His Ile
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asp Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Asp Asp Val Gly Ile Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Ser
 210 215 220
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 225 230 235 240
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Pro Ile Ser Asp Trp
 245 250 255
 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 260 265 270
 Ala Trp Ala Ser Thr Leu Asp Ser Gly Val Pro Ser Arg Phe Ser Gly
 275 280 285
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 290 295 300
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Glu Gly Trp Gly Pro Pro
 305 310 315 320
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 325 330

<210> 45
 <211> 332
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 45
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly

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1	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Asn	Ile	Val	His	Ile
			20						25					30		
Asn	Gly	Asn	Thr	Tyr	Leu	Glu	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser	
		35					40					45				
Pro	Arg	Leu	Leu	Ile	Tyr	Lys	Ile	Ser	Asp	Arg	Phe	Ser	Gly	Val	Pro	
	50					55					60					
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile	
65					70					75					80	
Ser	Arg	Val	Glu	Ala	Asp	Asp	Val	Gly	Ile	Tyr	Tyr	Cys	Phe	Gln	Gly	
				85					90					95		
Ser	His	Val	Pro	Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys	
			100					105					110			
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	
		115					120					125				
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	
	130					135					140					
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	
145					150					155					160	
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	
				165					170					175		
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	
			180					185					190			
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	
		195					200					205				
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys	Gly	Gly	Gly	Gly	Ser	
	210					215					220					
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	
225					230					235					240	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser	Asp	Trp	
				245					250					255		
Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	
			260					265					270			
Ala	Trp	Ala	Ser	Ser	Leu	Tyr	Glu	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	
		275					280					285				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	
	290					295					300					
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Glu	Gly	Trp	Gly	Pro	Pro	
305					310					315					320	
Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg					
				325					330							

<210> 46
 <211> 332
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400>	46															
Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly	
1				5				10					15			
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Asn	Ile	Val	His	Ile	
			20					25					30			
Asn	Gly	Asn	Thr	Tyr	Leu	Glu	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser	
		35					40					45				
Pro	Arg	Leu	Leu	Ile	Tyr	Lys	Ile	Ser	Asp	Arg	Phe	Ser	Gly	Val	Pro	
	50					55					60					
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile	
65					70					75					80	
Ser	Arg	Val	Glu	Ala	Asp	Asp	Val	Gly	Ile	Tyr	Tyr	Cys	Phe	Gln	Gly	
				85					90					95		
Ser	His	Val	Pro	Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys	
			100					105					110			
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	
		115					120					125				
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	
	130					135					140					
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	
145					150					155					160	
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	
				165					170					175		
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	
			180					185					190			

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Ser
 210 215 220
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 225 230 235 240
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Pro Ile Ser Asp Trp
 245 250 255
 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 260 265 270
 Ala Trp Ala Ser Ser Leu Gln Gly Val Pro Ser Arg Phe Ser Gly
 275 280 285
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 290 295 300
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Glu Gly Trp Gly Pro Pro
 305 310 315 320
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 325 330

<210> 47

<211> 340

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 47

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Asn Ile Val His Ile
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Arg Leu Leu Ile Tyr Lys Ile Ser Asp Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Asp Asp Val Gly Ile Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Ser
 210 215 220
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 225 230 235 240
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn Phe
 245 250 255
 Gly Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 260 265 270
 Ser Trp Ile Ile Ser Ser Gly Thr Glu Thr Tyr Tyr Ala Asp Ser Val
 275 280 285
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 290 295 300
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 305 310 315 320
 Ala Lys Ser Leu Gly Arg Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 325 330 335
 Thr Val Ser Ser
 340

<210> 48

<211> 571
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 48

Gln	Val	Thr	Leu	Arg	Glu	Ser	Gly	Pro	Ala	Leu	Val	Lys	Pro	Thr	Gln
1				5					10					15	
Thr	Leu	Thr	Leu	Thr	Cys	Thr	Phe	Ser	Gly	Phe	Ser	Leu	Ser	Thr	Ser
			20					25					30		
Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu
		35					40					45			
Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser
	50					55					60				
Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val
65					70					75					80
Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr
				85					90					95	
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly
			100					105					110		
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150					155					160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
			180					185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Gly	Ser	Gly	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu
	450					455					460				
Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe
465					470					475					480
Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys
				485					490					495	
Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp	His	Gly	Glu	Val	Thr	Tyr
			500					505					510		
Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser
		515					520					525			
Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr
	530					535					540				

Ala Val Tyr Tyr Cys Ala Thr Ala Glu Asp Glu Pro Gly Tyr Asp Tyr
 545 550 555 560
 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 565 570

<210> 49
 <211> 574
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 49
 Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
 1 5 10 15
 Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
 20 25 30
 Gly Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Leu Ala His Ile Tyr Trp Asp Asp Lys Arg Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
 65 70 75 80
 Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95
 Cys Ala Arg Arg Glu Thr Val Phe Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Gly Gly Gly Gly Ser Gly Val Gln Leu Leu Glu Ser Gly
 450 455 460
 Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala
 465 470 475 480
 Ser Gly Phe Thr Phe Ala Trp Tyr Asp Met Gly Trp Val Arg Gln Ala

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Pro	Gly	Lys	Gly	485 Leu	Glu	Trp	Val	Ser	490 Ser	Ile	Asp	Trp	His	495 Gly	Glu
Val	Thr	Tyr	500 Tyr	Ala	Asp	Ser	Val	505 Lys	Gly	Arg	Phe	Thr	510 Ile	Ser	Arg
Asp	Asn	Ser	515 Lys	Asn	Thr	Leu	520 Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala
Glu	530 Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp	Glu	Pro	560 Gly
545 Tyr	Asp	Tyr	Trp	550 Gly	Gln	Gly	Thr	Leu	555 Val	Thr	Val	Ser	Ser		
			565						570						

<210> 50

<211> 577

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 50

Gln	Val	Thr	Leu	Arg	Glu	Ser	Gly	Pro	Ala	Leu	Val	Lys	Pro	Thr	Gln
1				5					10					15	
Thr	Leu	Thr	Leu	Thr	Cys	Thr	Phe	Ser	Gly	Phe	Ser	Leu	Ser	Thr	Ser
			20					25					30		
Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu
		35					40					45			
Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser
	50					55					60				
Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val
65					70					75					80
Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr
				85					90					95	
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly
			100					105					110		
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145				150					155						160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
			180					185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Thr Val Ala Ala Pro Ser Gly Ser Gly Val Gln Leu Leu
 450 455 460
 Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
 465 470 475
 Cys Ala Ala Ser Gly Phe Thr Phe Ala Trp Tyr Asp Met Gly Trp Val
 485 490 495
 Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Asp Trp
 500 505 510
 His Gly Glu Val Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
 515 520 525
 Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser
 530 535 540
 Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr Ala Glu Asp
 545 550 555 560
 Glu Pro Gly Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 565 570 575
 Ser

<210> 51

<211> 580

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 51

Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
 1 5 10 15
 Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
 20 25 30
 Gly Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Leu Ala His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
 65 70 75 80
 Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95
 Cys Ala Arg Arg Glu Thr Val Phe Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser

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Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
355	370					375	360				365				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Gly	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Thr	Gly	Ser	Gly	Val
	450					455					460				
Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu
465					470					475					480
Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met
				485					490					495	
Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser
			500					505					510		
Ile	Asp	Trp	His	Gly	Glu	Val	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly
	515						520					525			
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln
	530					535					540				
Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr
545					550					555					560
Ala	Glu	Asp	Glu	Pro	Gly	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
				565					570					575	
Thr	Val	Ser	Ser												
			580												

<210> 52
 <211> 588
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 52

Gln	Val	Thr	Leu	Arg	Glu	Ser	Gly	Pro	Ala	Leu	Val	Lys	Pro	Thr	Gln
1				5					10					15	
Thr	Leu	Thr	Leu	Thr	Cys	Thr	Phe	Ser	Gly	Phe	Ser	Leu	Ser	Thr	Ser
			20					25					30		
Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu
		35					40					45			
Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser
	50					55					60				
Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val
65					70					75					80
Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr
				85					90					95	
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly
			100					105					110		
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150					155					160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
			180					185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			

His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Gly	Ser	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys
	450					455					460				
Pro	Pro	Cys	Pro	Gly	Ser	Gly	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly
465					470					475					480
Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly
				485					490					495	
Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly
			500					505					510		
Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp	His	Gly	Glu	Val	Thr
		515					520					525			
Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn
	530					535					540				
Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp
545					550					555					560
Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp	Glu	Pro	Gly	Tyr	Asp
				565					570					575	
Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser				
			580					585							

<210> 53

<211> 591

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 53

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

<400>	54															
Asp 1	Ile	Val	Leu	Thr 5	Gln	Ser	Pro	Ser	Ser 10	Leu	Ser	Ala	Ser 15	Val	Gly	
Asp	Arg	Val	Thr 20	Ile	Thr	Cys	Lys	Ala 25	Ser	Gln	Ser	Val	Asp 30	Tyr	Asp	
Gly	Asp	Ser 35	Tyr	Met	Asn	Trp	Tyr 40	Gln	Gln	Lys	Pro	Gly 45	Lys	Ala	Pro	
Lys	Leu 50	Leu	Ile	Tyr	Ala	Ala 55	Ser	Asn	Leu	Glu	Ser 60	Gly	Ile	Pro	Ser	
Arg 65	Phe	Ser	Gly	Ser	Gly 70	Ser	Gly	Thr	Asp	Phe 75	Thr	Phe	Thr	Ile	Ser 80	
Ser	Leu	Gln	Pro	Glu 85	Asp	Ile	Ala	Thr	Tyr 90	Tyr	Cys	Gln	Gln	Ser 95	Asn	
Glu	Asp	Pro	Pro 100	Thr	Phe	Gly	Gln	Gly 105	Thr	Lys	Val	Glu	Ile 110	Lys	Arg	
Thr	Val	Ala 115	Ala	Pro	Ser	Val	Phe 120	Ile	Phe	Pro	Pro	Ser 125	Asp	Glu	Gln	
Leu	Lys 130	Ser	Gly	Thr	Ala	Ser 135	Val	Val	Cys	Leu	Leu 140	Asn	Asn	Phe	Tyr	

Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 145 150 155 160
 Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 165 170 175
 Tyr Ser Leu Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 180 185 190
 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 195 200 205
 Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Ser Gly Val Gln Leu
 210 215 220
 Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
 225 230 235 240
 Ser Cys Ala Ala Ser Gly Phe Thr Phe Ala Trp Tyr Asp Met Gly Trp
 245 250 255
 Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Asp
 260 265 270
 Trp His Gly Glu Val Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe
 275 280 285
 Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
 290 295 300
 Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr Ala Glu
 305 310 315 320
 Asp Glu Pro Gly Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 325 330 335
 Ser Ser

<210> 55
 <211> 341
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 55
 Asp Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
 20 25 30
 Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
 35 40 45
 Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Glu Ser Gly Ile Pro Ser
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser
 65 70 75 80
 Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Ser Asn
 85 90 95
 Glu Asp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105 110
 Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 115 120 125
 Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 130 135 140
 Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 145 150 155 160
 Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 165 170 175
 Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 180 185 190
 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 195 200 205
 Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Ser Gly
 210 215 220
 Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
 225 230 235 240
 Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ala Trp Tyr Asp
 245 250 255
 Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 260 265 270
 Ser Ile Asp Trp His Gly Glu Val Thr Tyr Tyr Ala Asp Ser Val Lys
 275 280 285
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
 290 295 300
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala

305 Thr Ala Glu Asp Glu 310 Pro Gly Tyr Asp Tyr 315 Trp Gly Gln Gly Thr 320 Leu
 Val Thr Val Ser 325 Ser 330 335

<210> 56
 <211> 344
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 56
 Asp Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
 20 25 30
 Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
 35 40 45
 Lys Leu Leu Ile Tyr Ala Ala Ser Asn Leu Glu Ser Gly Ile Pro Ser
 50 55 60
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser
 65 70 75 80
 Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Ser Asn
 85 90 95
 Glu Asp Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105 110
 Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
 115 120 125
 Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
 130 135 140
 Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
 145 150 155 160
 Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr
 165 170 175
 Tyr Ser Leu Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys
 180 185 190
 His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro
 195 200 205
 Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Thr Val Ala Ala Pro Ser
 210 215 220
 Gly Ser Gly Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro
 225 230 235 240
 Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ala
 245 250 255
 Trp Tyr Asp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
 260 265 270
 Trp Val Ser Ser Ile Asp Trp His Gly Glu Val Thr Tyr Tyr Ala Asp
 275 280 285
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 290 295 300
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 305 310 315 320
 Tyr Cys Ala Thr Ala Glu Asp Glu Pro Gly Tyr Asp Tyr Trp Gly Gln
 325 330 335
 Gly Thr Leu Val Thr Val Ser Ser
 340

<210> 57
 <211> 345
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 57
 Asp Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Asp Tyr Asp
 20 25 30
 Gly Asp Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro

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Lys	Leu	35	Ile	Tyr	Ala	40	Ala	Ser	Asn	Leu	Glu	45	Ser	Gly	Ile	Pro	Ser
Arg	50	Phe	Ser	Gly	Ser	55	Gly	Ser	Gly	Thr	Asp	60	Phe	Thr	Phe	Thr	Ile
65	Ser	Leu	Gln	Pro	Glu	70	Asp	Ile	Ala	Thr	Tyr	75	Tyr	Cys	Gln	Gln	Ser
					85						90					95	Asn
Glu	Asp	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg		
Thr	Val	Ala	100	Ala	Pro	Ser	Val	Phe	105	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln
Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	120	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	
130	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	140	Asn	Ala	Leu	Gln	Ser
145	Gly	Asn	Ser	Gln	Glu	150	Ser	Val	Thr	Glu	Gln	155	Asp	Ser	Lys	Asp	Ser
					165						170					175	Thr
Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys		
His	Lys	Val	180	Tyr	Ala	Cys	Glu	Val	185	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro
Val	195	Thr	Lys	Ser	Phe	Asn	Arg	Gly	200	Glu	Cys	Ala	Ser	Thr	Lys	Gly	Pro
210	Thr	Gly	Ser	Gly	Val	Gln	Leu	Leu	Glu	Ser	Gly	220	Gly	Gly	Leu	Val	Gln
225	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	235	Ser	Gly	Phe	Thr	Phe
					245						250					255	
Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg	265	Gln	Ala	Pro	Gly	Lys	Gly	Leu	
Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp	His	280	Gly	Glu	Val	Thr	Tyr	Tyr	Ala	
Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	285	Asn	Ser	Lys	Asn	
290	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	300	Glu	Asp	Thr	Ala	Val
305	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp	Glu	Pro	Gly	315	Tyr	Asp	Tyr	Trp	Gly
					325					330						335	
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	345								
			340														

<210> 58
 <211> 353
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 58

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

Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys	Glu	Pro	Lys	Ser	Cys	Asp
	210					215					220				
Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Gly	Ser	Gly	Val	Gln	Leu	Leu
225					230					235					240
Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser
				245					250					255	
Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val
			260					265					270		
Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp
		275					280					285			
His	Gly	Glu	Val	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr
	290					295					300				
Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser
305					310					315					320
Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp
				325					330					335	
Glu	Pro	Gly	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser
			340					345					350		
Ser															

<210> 59

<211> 356

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 59

Asp	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ala	Ser	Gln	Ser	Val	Asp	Tyr	Asp
			20					25					30		
Gly	Asp	Ser	Tyr	Met	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro
		35					40					45			
Lys	Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Asn	Leu	Glu	Ser	Gly	Ile	Pro	Ser
	50					55					60				
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Phe	Thr	Ile	Ser
65					70					75					80
Ser	Leu	Gln	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Asn
				85					90					95	
Glu	Asp	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg
			100					105					110		
Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln
		115					120					125			
Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr
	130					135					140				
Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser
145					150					155					160
Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr
				165					170					175	
Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys
			180					185					190		
His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro
		195					200					205			
Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys	Glu	Leu	Gln	Leu	Glu	Glu
	210					215					220				
Ser	Cys	Ala	Glu	Ala	Gln	Asp	Gly	Glu	Leu	Asp	Gly	Gly	Ser	Gly	Val
225					230					235					240
Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu
				245					250					255	
Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met
			260					265					270		
Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser
		275					280					285			
Ile	Asp	Trp	His	Gly	Glu	Val	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly
	290					295					300				
Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln
305					310					315					320
Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr
				325					330					335	
Ala	Glu	Asp	Glu	Pro	Gly	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
			340					345					350		
Thr	Val	Ser	Ser												

355

<210> 60
 <211> 324
 <212> DNA
 <213> Homo Sapiens

<400> 60
 gacatccaga tgaccaatc accatcctcc ctgtctgcat ctgtaggaga ccgtgtcacc 60
 atcacttgcc gggcaagtcg ccccatagc gactgggtac attggtatca gcagaaacca 120
 gggaaagccc ccaagctcct gatcgcttg gcgtcctcgt tgtacgaggg ggtcccatca 180
 cgtttcagtg gcagtgggtc ggggacagat ttcactctca ccatcagcag tctgcaaccc 240
 gaagatttcg ctacgtacta ctgtttgcag gaggggtggg gtcctccgac gttcggccaa 300
 gggaccaagg tggaatcaa acgg 324

<210> 61
 <211> 324
 <212> DNA
 <213> Homo Sapiens

<400> 61
 gacatccaga tgaccaatc accatcctcc ctgtctgcat ctgtaggaga ccgtgtcacc 60
 atcacttgcc gggcaagtcg ccccatagc gactgggtac attggtatca gcagaaacca 120
 gggaaagccc ccaagctcct gatcgcttg gcgtccagct tgcagggggg ggtcccatca 180
 cgtttcagtg gcagtgggtc ggggacagat ttcactctca ccatcagcag tctgcaaccc 240
 gaagatttcg ctacgtacta ctgtttgcag gaggggtggg gtcctccgac gttcggccaa 300
 gggaccaagg tggaatcaa acgg 324

<210> 62
 <211> 129
 <212> PRT
 <213> Homo Sapiens

<400> 62
 His Lys Cys Asp Ile Thr Leu Gln Glu Ile Ile Lys Thr Leu Asn Ser
 1 5 10 15
 Leu Thr Glu Gln Lys Thr Leu Cys Thr Glu Leu Thr Val Thr Asp Ile
 20 25 30
 Phe Ala Ala Ser Lys Asn Thr Thr Glu Lys Glu Thr Phe Cys Arg Ala
 35 40 45
 Ala Thr Val Leu Arg Gln Phe Tyr Ser His His Glu Lys Asp Thr Arg
 50 55 60
 Cys Leu Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu Ile
 65 70 75 80
 Arg Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly Leu
 85 90 95
 Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn Phe
 100 105 110
 Leu Glu Arg Leu Lys Thr Ile Met Arg Glu Lys Tyr Ser Lys Cys Ser
 115 120 125
 Ser

<210> 63
 <211> 112
 <212> PRT
 <213> Homo Sapiens

<400> 63
 Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu Ile Glu Glu Leu
 1 5 10 15
 Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys Asn Gly Ser Met
 20 25 30
 Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys Ala Ala Leu Glu
 35 40 45
 Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu Lys Thr Gln Arg
 50 55 60
 Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala Gly Gln Phe Ser
 65 70 75 80
 Ser Leu His Val Arg Asp Thr Lys Ile Glu Val Ala Gln Phe Val Lys
 85 90 95
 Asp Leu Leu Leu His Leu Lys Lys Leu Phe Arg Glu Gly Arg Phe Asn
 100 105 110

<210> 64
 <211> 19
 <212> PRT
 <213> unknown

<220>
 <223> Mammalian Signal Sequence

<400> 64
 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 1 5 10 15
 Val His Ser

<210> 65
 <211> 449
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 65
 Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
 1 5 10 15
 Thr Leu Thr Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Ser Tyr
 20 25 30
 Ser Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Gly Val Ile Trp Ala Ser Gly Gly Thr Asp Tyr Asn Ser Ala Leu Met
 50 55 60
 Ser Arg Leu Ser Ile Ser Lys Asp Thr Ser Arg Asn Gln Val Val Leu
 65 70 75 80
 Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala
 85 90 95
 Arg Asp Pro Pro Ser Ser Leu Leu Arg Leu Asp Tyr Trp Gly Arg Gly
 100 105
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
 130 135 140
 Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
 145 150 155 160
 Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
 165 170 175
 Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
 180 185 190
 Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
 195 200 205
 Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
 210 215 220
 Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
 225 230 235 240
 Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
 245 250 255
 Arg Thr Pro Glu Val Thr Cys Val Val Asp Val Ser His Glu Asp
 260 265 270
 Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 275 280 285
 Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 290 295 300
 Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 305 310 315 320
 Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
 325 330 335
 Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 340 345 350
 Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr
 355 360 365
 Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 370 375 380
 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 385 390 395 400
 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys

Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 405 410 415
 Ala Leu His 420 Asn His Tyr Thr Gln 425 Lys Ser Leu Ser Leu 430 Ser Pro Gly
 435 440 445
 Lys

<210> 66
 <211> 220
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 66
 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1 5 10 15
 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30
 Gly Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Pro Pro Lys Leu Leu Ile Tyr Gly Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
 85 90 95
 Val His Ser Phe Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100 105 110
 Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Ser Asp
 115 120 125
 Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 130 135 140
 Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
 145 150 155 160
 Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
 165 170 175
 Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
 180 185 190
 Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 195 200 205
 Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215 220

<210> 67
 <211> 456
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 67
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Val Ser Gly Glu Ile Ser Thr Gly Tyr
 20 25 30
 Tyr Phe His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Arg Ile Asp Pro Glu Asp Ser Thr Lys Tyr Ala Glu Arg Phe
 50 55 60
 Lys Asp Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Thr Thr Trp Arg Ile Tyr Arg Asp Ser Ser Gly Arg Pro Phe Tyr Val
 100 105 110
 Met Asp Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
 115 120 125
 Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Lys Ser Thr
 130 135 140
 Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro

145	Glu	Pro	Val	Thr	Val	150	Ser	Trp	Asn	Ser	Gly	155	Ala	Leu	Thr	Ser	Gly	160	Val
					165	Val	Leu	Gln	Ser	170	Ser	Gly	Leu	Tyr	Ser	175	Leu	Ser	
	His	Thr	Phe	Pro	180	Val	Pro	Ser	Ser	185	Ser	Leu	Gly	Thr	Gln	190	Thr	Tyr	Ile
	Ser	Val	Val	Thr	195	Val	Pro	Ser	Ser	200	Ser	Asn	Thr	Lys	Val	205	Asp	Lys	Lys
	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	215	Ser	Thr	Lys	Val	220	Asp	Lys	Lys	Val
	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	230	Ser	Thr	Cys	Pro	Pro	Cys	Pro	Ala	
225	Pro	Glu	Leu	Leu	Gly	245	Gly	Pro	Ser	Val	Phe	250	Leu	Phe	Pro	Pro	Lys	Pro	
	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	265	Pro	Glu	Val	Thr	Cys	270	Val	Val	
	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	280	Val	Lys	Phe	Asn	Trp	Tyr	Val		
	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	295	Thr	Lys	Pro	Arg	Glu	Glu	Gln		
	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	310	Val	Leu	Thr	Val	Leu	His	Gln		
305	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	315	Cys	Lys	Val	Ser	Asn	Lys	Ala		
	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	325	Ser	Lys	Ala	Lys	Gly	Gln	Pro		
	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	345	Pro	Ser	Arg	Asp	Glu	Leu	Thr		
	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	360	Val	Lys	Gly	Phe	Tyr	Pro	Ser		
	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	375	Gly	Gln	Pro	Glu	Asn	Asn	Tyr		
385	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	390	Asp	Gly	Ser	Phe	Phe	Leu	Tyr		
	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	405	Trp	Gln	Gln	Gly	Asn	Val	Phe		
	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	420	His	Asn	His	Tyr	Thr	Gln	Lys		
	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys		440				445					
450										455									

<210> 68
 <211> 214
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 68

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

Phe Asn Arg Gly Glu Cys
210

<210> 69
<211> 577
<212> PRT
<213> Artificial Sequence

<220>
<223> Humanised

<400> 69
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Val Ser Gly Glu Ile Ser Thr Gly Tyr
20 25 30
Tyr Phe His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Met
35 40 45
Gly Arg Ile Asp Pro Glu Asp Asp Ser Thr Lys Tyr Ala Glu Arg Phe
50 55 60
Lys Asp Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Thr Thr Trp Arg Ile Tyr Arg Asp Ser Ser Gly Arg Pro Phe Tyr Val
100 105 110
Met Asp Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser
115 120 125
Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr
130 135 140
Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro
145 150 155 160
Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val
165 170 175
His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser
180 185 190
Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile
195 200 205
Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val
210 215 220
Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala
225 230 235 240
Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro
245 250 255
Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val
260 265 270
Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val
275 280 285
Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln
290 295 300
Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln
305 310 315 320
Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala
325 330 335
Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro
340 345 350
Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr
355 360 365
Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser
370 375 380
Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr
385 390 395 400
Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr
405 410 415
Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe
420 425 430
Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys
435 440 445
Ser Leu Ser Leu Ser Pro Gly Lys Gly Gly Gly Ser Glu Val Gln
450 455 460
Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
465 470 475 480
Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn Phe Gly Met Gly
485 490 495
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Trp Ile

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Ile	Ser	Ser	500 Gly	Thr	Glu	Thr	Tyr	505 Tyr	Ala	Asp	Ser	Val	510 Lys	Gly	Arg
Phe	Thr	515 Ile	Ser	Arg	Asp	Asn	520 Ser	Lys	Asn	Thr	Leu	525 Tyr	Leu	Gln	Met
Asn	Ser	530 Leu	Arg	Ala	Glu	535 Asp	Thr	Ala	Val	Tyr	540 Tyr	Cys	Ala	Lys	Ser
545 Leu	Gly	Arg	Phe	550 Asp	Tyr	Trp	Gly	Gln	Gly	555 Thr	Leu	Val	Thr	Val	560 Ser
Ser				565				570						575	

<210> 70
 <211> 337
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 70

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Leu	Ala	Ser	Glu	Asp	Ile	Tyr	Thr	Tyr
			20					25					30		
Leu	Thr	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			
Tyr	Gly	Ala	Asn	Lys	Leu	Gln	Asp	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Tyr	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75					80
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Gly	Ser	Lys	Phe	Pro	Leu
				85					90					95	
Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Arg	Thr	Val	Ala	Ala
			100					105					110		
Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly
		115					120					125			
Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala
		130				135					140				
Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln
145					150					155					160
Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser
				165					170					175	
Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr
			180					185					190		
Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser
		195					200					205			
Phe	Asn	Arg	Gly	Glu	Cys	Gly	Gly	Gly	Gly	Ser	Gly	Val	Gln	Leu	Leu
	210					215					220				
Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser
					230					235					240
Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val
				245					250					255	
Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp
			260					265					270		
His	Gly	Glu	Val	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr
		275					280					285			
Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser
					295						300				
Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp
305					310					315					320
Glu	Pro	Gly	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser
				325					330					335	

Ser

<210> 71
 <211> 570
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 71

Gln	Val	Thr	Leu	Arg	Glu	Ser	Gly	Pro	Ala	Leu	Val	Lys	Pro	Thr	Gln
1				5					10					15	
Thr	Leu	Thr	Leu	Thr	Cys	Thr	Val	Ser	Gly	Phe	Ser	Leu	Thr	Ser	Tyr
			20					25					30		
Ser	Val	His	Trp	Val	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Leu
		35					40					45			
Gly	Val	Ile	Trp	Ala	Ser	Gly	Gly	Thr	Asp	Tyr	Asn	Ser	Ala	Leu	Met
	50					55					60				
Ser	Arg	Leu	Ser	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val	Val	Leu
65					70					75					80
Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Ala
			85						90					95	
Arg	Asp	Pro	Pro	Ser	Ser	Leu	Leu	Arg	Leu	Asp	Tyr	Trp	Gly	Arg	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
		115					120					125			
Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu
	130					135					140				
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp
145					150					155					160
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
				165					170					175	
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
			180					185					190		
Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro
		195					200					205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys
	210					215					220				
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
225					230					235					240
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
				245					250					255	
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
			260					265					270		
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
		275					280					285			
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
	290					295				300					
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
305					310					315					320
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
				325					330					335	
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
			340					345					350		
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr
		355					360					365			
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
	370					375					380				
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
385					390					395					400
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys
				405					410					415	
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
			420					425					430		
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
		435					440					445			
Lys	Gly	Gly	Gly	Gly	Ser	Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly
	450					455					460				
Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly
465					470					475					480
Phe	Thr	Phe	Arg	Asn	Phe	Gly	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly
				485					490					495	
Lys	Gly	Leu	Glu	Trp	Val	Ser	Trp	Ile	Ile	Ser	Ser	Gly	Thr	Glu	Thr
			500					505					510		
Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn
		515					520					525			
Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp
	530					535					540				
Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Ser	Leu	Gly	Arg	Phe	Asp	Tyr	Trp
545					550					555					560
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
				565					570						

<210> 72

<211> 343
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 72

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Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1      5      10      15
Glu Arg Ala Thr Ile Asn Cys Lys Ser Gln Ser Leu Leu Asn Ser
 20      25      30
Gly Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35      40      45
Pro Pro Lys Leu Leu Ile Tyr Gly Ala Ser Thr Arg Glu Ser Gly Val
 50      55      60
Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65      70      75      80
Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Asn
 85      90      95
Val His Ser Phe Pro Phe Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile
 100     105     110
Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Ser Asp
 115     120     125
Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn
 130     135     140
Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu
 145     150     155     160
Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp
 165     170     175
Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr
 180     185     190
Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser
 195     200     205
Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Gly Gly Gly Gly
 210     215     220
Ser Gly Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 225     230     235     240
Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ala Trp
 245     250     255
Tyr Asp Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 260     265     270
Val Ser Ser Ile Asp Trp His Gly Glu Val Thr Tyr Tyr Ala Asp Ser
 275     280     285
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
 290     295     300
Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 305     310     315     320
Cys Ala Thr Ala Glu Asp Glu Pro Gly Tyr Asp Tyr Trp Gly Gln Gly
 325     330     335
Thr Leu Val Thr Val Ser Ser
 340

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<210> 73
 <211> 214
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 73

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

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

<210> 74

<211> 562

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 74

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1				5				10					15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asp	Asp	Tyr
			20					25					30		
Ala	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Ala	Ile	Thr	Trp	Asn	Ser	Gly	His	Ile	Asp	Tyr	Ala	Asp	Ser	Val
	50				55					60					
Glu	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Lys	Val	Ser	Tyr	Leu	Ser	Thr	Ala	Ser	Ser	Leu	Asp	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135				140					
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150					155					160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
			165					170						175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
		180						185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210				215					220					
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
			245						250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
		260						265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
	275						280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
			325						330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
		340						345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
	355						360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Ser Thr Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser
 450 455 460
 Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser
 465 470 475 480
 Gln Trp Ile Gly Asn Leu Leu Asp Trp Tyr Gln Gln Lys Pro Gly Lys
 485 490 495
 Ala Pro Lys Leu Leu Ile Tyr Tyr Ala Ser Phe Leu Gln Ser Gly Val
 500 505 510
 Pro Ser Arg Phe Ser Gly Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr
 515 520 525
 Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
 530 535 540
 Ala Asn Pro Ala Pro Leu Thr Phe Gly Gln Gly Thr Lys Val Glu Ile
 545 550 555 560
 Lys Arg

<210> 75

<211> 570

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 75

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30
 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
 50 55 60
 Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175 180
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val

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Tyr	Thr	Leu	340	Pro	Pro	Ser	Arg	Asp	345	Glu	Leu	Thr	Lys	Asn	350	Gln	Val	Ser
		355						360						365				
Leu	Thr	Cys	Leu	Val	Lys	Gly	375	Phe	Tyr	Pro	Ser	Asp	380	Ile	Ala	Val	Glu	
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro			
385					390					395					400			
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val			
				405					410					415				
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met			
			420					425					430					
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser			
		435					440					445						
Pro	Gly	Lys	Ser	Thr	Gly	Glu	Val	Gln	Leu	Leu	Val	Ser	Gly	Gly	Gly			
						455						460						
Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly			
465					470					475					480			
Phe	Thr	Phe	Lys	Ala	Tyr	Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly			
				485					490					495				
Lys	Gly	Leu	Glu	Trp	Val	Ser	Glu	Ile	Ser	Pro	Ser	Gly	Ser	Tyr	Thr			
			500					505					510					
Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn			
		515					520					525						
Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp			
						535					540							
Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Asp	Pro	Arg	Lys	Leu	Asp	Tyr	Trp			
545					550					555					560			
Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser									
				565					570									

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<210> 76
<211> 569
<212> PRT
<213> Artificial Sequence
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<220>
<223> Humanised

<400> 76

Glu 1	Val	Gln	Leu	Leu 5	Val	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly
Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala	Ser 25	Gly	Phe	Thr	Phe	Lys 30	Ala	Tyr
Pro	Met	Met 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Val
Ser	Glu 50	Ile	Ser	Pro	Ser	Gly 55	Ser	Tyr	Thr	Tyr	Tyr 60	Ala	Asp	Ser	Val
Lys 65	Gly	Arg	Phe	Thr	Ile 70	Ser	Arg	Asp	Asn	Ser 75	Lys	Asn	Thr	Leu	Tyr 80
Leu	Gln	Met	Asn	Ser 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Lys	Asp	Pro 100	Arg	Lys	Leu	Asp	Tyr 105	Trp	Gly	Gln	Gly	Thr 110	Leu	Val
Thr	Val	Ser 115	Ser	Ala	Ser	Thr	Lys 120	Gly	Pro	Ser	Glu	Val 125	Gln	Leu	Leu
Glu	Ser 130	Gly	Gly	Gly	Leu	Val 135	Gln	Pro	Gly	Gly	Ser 140	Leu	Arg	Leu	Ser
Cys 145	Ala	Ala	Ser	Gly	Phe 150	Thr	Phe	Ser	Ser	Tyr 155	Ala	Met	Ser	Trp	Val 160
Arg	Gln	Ala	Pro	Gly 165	Lys	Gly	Leu	Glu	Trp 170	Val	Ser	Ala	Ile	Ser 175	Gly
Ser	Gly	Gly	Ser 180	Thr	Tyr	Tyr	Ala	Asp 185	Ser	Val	Lys	Gly	Arg 190	Phe	Thr
Ile	Ser	Arg 195	Asp	Asn	Ser	Lys	Asn 200	Thr	Leu	Tyr	Leu	Gln 205	Met	Asn	Ser
Leu	Arg 210	Ala	Glu	Asp	Thr	Ala 215	Val	Tyr	Tyr	Cys	Ala 220	Lys	Ser	Tyr	Gly
Ala 225	Phe	Asp	Tyr	Trp	Gly 230	Gln	Gly	Thr	Leu	Val 235	Thr	Val	Ser	Ser	Ala 240
Ser	Thr	Lys	Gly	Pro 245	Ser	Val	Phe	Pro	Leu 250	Ala	Pro	Ser	Ser	Lys 255	Ser
Thr	Ser	Gly	Gly 260	Thr	Ala	Ala	Leu	Gly 265	Cys	Leu	Val	Lys	Asp 270	Tyr	Phe
Pro	Glu	Pro 275	Val	Thr	Val	Ser	Trp 280	Asn	Ser	Gly	Ala	Leu 285	Thr	Ser	Gly

Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu
	290					295					300				
Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr
305					310					315					320
Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys
				325					330					335	
Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro
			340					345					350		
Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys
		355					360					365			
Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val
	370					375					380				
Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr
385					390					395					400
Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu
				405					410					415	
Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His
			420					425					430		
Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys
		435					440					445			
Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln
	450					455					460				
Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu
465					470					475					480
Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro
				485					490					495	
Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn
			500					505					510		
Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu
		515					520					525			
Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val
	530					535					540				
Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln
545					550					555					560
Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys							
				565											

<210> 77

<211> 328

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 77

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

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

<210> 78
 <211> 574
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 78

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly				
1	Ser	Leu	Arg	Leu	5	Ser	Cys	Ala	Ala	Ser	10	Gly	Phe	Thr	Phe	Gly	Ala	Tyr	
	Pro	Met	Met	20	Trp	Val	Arg	Gln	Ala	25	Pro	Gly	Lys	Gly	Leu	30	Glu	Trp	Val
	Ser	Glu	Ile	Ser	Pro	Ser	Gly	Ser	Tyr	Thr	Tyr	Tyr	Ala	Asp	Ser	45	Val		
	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	60	Tyr		
65	Leu	Gln	Met	Asn	Ser	70	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	75	Tyr	Cys	
	Ala	Lys	Asp	Pro	Arg	Lys	Phe	Asp	Tyr	90	Trp	Gly	Gln	Gly	Thr	95	Leu	Val	
	Thr	Val	Ser	Ala	Ser	Thr	Lys	Gly	Pro	105	Ser	Glu	Val	Gln	Leu	110	Val		
	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	120	Gly	Arg	Ser	Leu	Arg	125	Leu	Ser	
	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asp	135	Asp	Tyr	Ala	Met	His	140	Trp	Val	
145	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	150	Trp	Val	Ser	Ala	Ile	155	Thr	Trp	
	Asn	Ser	Gly	His	Ile	Asp	Tyr	Ala	Asp	165	Ser	Val	Glu	Gly	Arg	170	Phe	Thr	
	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	180	Leu	Tyr	Leu	Gln	Met	185	Asn	Ser	
	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	195	Tyr	Tyr	Cys	Ala	Lys	200	Val	Ser	
	Leu	Ser	Thr	Ala	Ser	Ser	Leu	Asp	Tyr	210	Trp	Gly	Gln	Gly	Thr	215	Leu	Val	
225	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	230	Pro	Ser	Val	Phe	Pro	235	Leu	Ala	
	Pro	Ser	Ser	Lys	245	Ser	Thr	Ser	Gly	250	Thr	Ala	Ala	Leu	Gly	255	Cys	Leu	
	Val	Lys	Asp	Tyr	260	Phe	Pro	Glu	Pro	265	Val	Thr	Val	Ser	Trp	270	Asn	Ser	
	Ala	Leu	Thr	Ser	275	Gly	Val	His	Thr	280	Phe	Pro	Ala	Val	Leu	285	Gln	Ser	
	Gly	Leu	Tyr	Ser	290	Leu	Ser	Val	Val	295	Thr	Val	Pro	Ser	Ser	300	Ser	Ser	
305	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	310	Asn	His	Lys	Pro	Ser	315	Asn	Thr	
	Lys	Val	Asp	Lys	325	Val	Glu	Pro	Lys	330	Ser	Cys	Asp	Lys	Thr	335	His	Thr	
	Cys	Pro	Pro	Cys	340	Pro	Ala	Pro	Glu	345	Leu	Leu	Gly	Gly	Pro	350	Val	Phe	
	Leu	Phe	Pro	Pro	355	Lys	Pro	Lys	Asp	360	Thr	Leu	Met	Ile	Ser	365	Arg	Thr	
	Glu	Val	Thr	Cys	370	Val	Val	Val	Asp	375	Val	Ser	His	Glu	Asp	380	Pro	Glu	
385	Lys	Phe	Asn	Trp	Tyr	390	Val	Asp	Gly	395	Val	Glu	Val	His	Asn	400	Ala	Lys	
					405					410						415			

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Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
 420 425 430
 Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
 435 440 445
 Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
 450 455 460
 Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
 465 470 475 480
 Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val
 485 490 495
 Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
 500 505 510
 Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
 515 520 525
 Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
 530 535 540
 Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
 545 550 555 560
 Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 565 570

<210> 79
 <211> 328
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 79
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
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 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Trp Ile Gly Asn Leu
 20 25 30
 Leu Asp Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Tyr Ala Ser Phe Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Pro Ala Pro Leu
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser
 115 120 125
 Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg
 130 135 140
 Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu
 145 150 155 160
 Leu Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe
 165 170 175
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu
 180 185 190
 Gln Pro Glu Asp Val Ala Thr Tyr Tyr Cys Gln Arg Tyr Asn Arg Ala
 195 200 205
 Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val
 210 215 220
 Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
 225 230 235 240
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
 245 250 255
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
 260 265 270
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
 275 280 285
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
 290 295 300
 Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
 305 310 315 320
 Lys Ser Phe Asn Arg Gly Glu Cys
 325

<210> 80

<211> 14
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 <213> Mus Musculus

<400> 80
 Trp Ile Leu Tyr Tyr Gly Arg Ser Lys Trp Tyr Phe Asp Val
 1 5 10

<210> 81
 <211> 17
 <212> PRT
 <213> Mus Musculus

<400> 81
 Asn Ile Asn Pro Asn Asn Gly Gly Thr Asn Tyr Asn Gln Lys Phe Lys
 1 5 10 15
 Asp

<210> 82
 <211> 5
 <212> PRT
 <213> Mus Musculus

<400> 82
 Asp Tyr Tyr Met Asn
 1 5

<210> 83
 <211> 16
 <212> PRT
 <213> Mus Musculus

<400> 83
 Arg Ser Ser Gln Ser Ile Val Gln Ser Asn Gly Asp Thr Tyr Leu Glu
 1 5 10 15

<210> 84
 <211> 7
 <212> PRT
 <213> Mus Musculus

<400> 84
 Arg Ile Ser Asn Arg Phe Ser
 1 5

<210> 85
 <211> 9
 <212> PRT
 <213> Mus Musculus

<400> 85
 Phe Gln Gly Ser His Val Pro Tyr Thr
 1 5

<210> 86
 <211> 7
 <212> PRT
 <213> Mus Musculus

<400> 86
 Arg Val Ser Asn Arg Phe Ser
 1 5

<210> 87
 <211> 571
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Humanised

<400> 87

Gln 1	Val	Gln	Leu	Val 5	Gln	Ser	Gly	Ala	Glu 10	Val	Lys	Lys	Pro	Gly 15	Ser
Ser	Val	Lys	Val 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Phe	Tyr	Ile	Lys 30	Asp	Thr
Tyr	Met	His 35	Trp	Val	Arg	Gln	Ala 40	Pro	Gly	Gln	Gly	Leu 45	Glu	Trp	Met
Gly	Thr 50	Ile	Asp	Pro	Ala	Asn 55	Gly	Asn	Thr	Lys	Tyr 60	Val	Pro	Lys	Phe
Gln 65	Gly	Arg	Val	Thr	Ile 70	Thr	Ala	Asp	Glu	Ser 75	Thr	Ser	Thr	Ala	Tyr 80
Met	Glu	Leu	Ser	Ser 85	Leu	Arg	Ser	Glu	Asp 90	Thr	Ala	Val	Tyr	Tyr 95	Cys
Ala	Arg	Ser	Ile 100	Tyr	Asp	Asp	Tyr	His 105	Tyr	Asp	Asp	Tyr	Tyr 110	Ala	Met
Asp	Tyr	Trp 115	Gly	Gln	Gly	Thr	Leu 120	Val	Thr	Val	Ser	Ser 125	Ala	Ser	Thr
Lys	Gly 130	Pro	Ser	Val	Phe	Pro 135	Leu	Ala	Pro	Ser	Ser 140	Lys	Ser	Thr	Ser
Gly 145	Gly	Thr	Ala	Ala	Leu 150	Gly	Cys	Leu	Val	Lys 155	Asp	Tyr	Phe	Pro	Glu 160
Pro	Val	Thr	Val	Ser 165	Trp	Asn	Ser	Gly	Ala 170	Leu	Thr	Ser	Gly	Val 175	His
Thr	Phe	Pro	Ala 180	Val	Leu	Gln	Ser	Ser 185	Gly	Leu	Tyr	Ser	Leu 190	Ser	Ser
Val	Val	Thr 195	Val	Pro	Ser	Ser	Ser 200	Leu	Gly	Thr	Gln	Thr 205	Tyr	Ile	Cys
Asn 210	Val	Asn	His	Lys	Pro	Ser 215	Asn	Thr	Lys	Val	Asp 220	Lys	Lys	Val	Glu
Pro 225	Lys	Ser	Cys	Asp	Lys 230	Thr	His	Thr	Cys	Pro 235	Pro	Cys	Pro	Ala	Pro 240
Glu	Leu	Leu	Gly	Gly 245	Pro	Ser	Val	Phe	Leu 250	Phe	Pro	Pro	Lys	Pro 255	Lys
Asp	Thr	Leu	Met 260	Ile	Ser	Arg	Thr	Pro 265	Glu	Val	Thr	Cys	Val 270	Val	Val
Asp	Val	Ser 275	His	Glu	Asp	Pro	Glu 280	Val	Lys	Phe	Asn	Trp 285	Tyr	Val	Asp
Gly 290	Val	Glu	Val	His	Asn	Ala 295	Lys	Thr	Lys	Pro	Arg 300	Glu	Glu	Gln	Tyr
Asn 305	Ser	Thr	Tyr	Arg	Val 310	Val	Ser	Val	Leu	Thr 315	Val	Leu	His	Gln	Asp 320
Trp	Leu	Asn	Gly	Lys 325	Glu	Tyr	Lys	Cys	Lys 330	Val	Ser	Asn	Lys	Ala 335	Leu
Pro	Ala	Pro	Ile 340	Glu	Lys	Thr	Ile	Ser 345	Lys	Ala	Lys	Gly	Gln 350	Pro	Arg
Glu	Pro	Gln 355	Val	Tyr	Thr	Leu	Pro 360	Pro	Ser	Arg	Asp	Glu 365	Leu	Thr	Lys
Asn 370	Gln	Val	Ser	Leu	Thr	Cys 375	Leu	Val	Lys	Gly	Phe 380	Tyr	Pro	Ser	Asp
Ile 385	Ala	Val	Glu	Trp	Glu 390	Ser	Asn	Gly	Gln	Pro 395	Glu	Asn	Asn	Tyr	Lys 400
Thr	Thr	Pro	Pro	Val 405	Leu	Asp	Ser	Asp	Gly 410	Ser	Phe	Phe	Leu	Tyr 415	Ser
Lys	Leu	Thr	Val 420	Asp	Lys	Ser	Arg	Trp 425	Gln	Gln	Gly	Asn	Val 430	Phe	Ser
Cys	Ser	Val 435	Met	His	Glu	Ala	Leu 440	His	Asn	His	Tyr	Thr 445	Gln	Lys	Ser
Leu	Ser 450	Leu	Ser	Pro	Gly	Lys 455	Glu	Val	Gln	Leu	Leu 460	Glu	Ser	Gly	Gly
Gly 465	Leu	Val	Gln	Pro	Gly 470	Gly	Ser	Leu	Arg	Leu 475	Ser	Cys	Ala	Ala	Ser 480
Gly	Phe	Thr	Phe	Arg 485	Asn	Phe	Gly	Met	Gly 490	Trp	Val	Arg	Gln	Ala 495	Pro
Gly	Lys	Gly	Leu 500	Glu	Trp	Val	Ser	Trp 505	Ile	Ile	Ser	Ser	Gly 510	Thr	Glu
Thr	Tyr	Tyr 515	Ala	Asp	Ser	Val	Lys 520	Gly	Arg	Phe	Thr	Ile 525	Ser	Arg	Asp
Asn 530	Ser	Lys	Asn	Thr	Leu	Tyr 535	Leu	Gln	Met	Asn	Ser 540	Leu	Arg	Ala	Glu
Asp 545	Thr	Ala	Val	Tyr	Tyr 550	Cys	Ala	Lys	Ser	Leu 555	Gly	Arg	Phe	Asp	Tyr 560
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<210> 88
 <211> 577
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 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 88

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			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120					125			
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135						140			
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
			245						250					255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
				325					330					335	
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345					350		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410					415	
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
			420					425					430		
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
		435					440					445			
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Glu	Val	Gln
	450					455					460				
Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg
465					470					475					480
Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Arg	Asn	Phe	Gly	Met	Gly
				485					490					495	
Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Trp	Ile
			500					505					510		
Ile	Ser	Ser	Gly	Thr	Glu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg

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Leu Ser Leu Ser Pro Gly Lys Ala Ser Thr Lys Gly Pro Thr Glu Val
 450 455 460
 Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
 465 470 475 480
 Arg Leu Ser Cys Ala Ser Gly Phe Thr Phe Arg Asn Phe Gly Met
 485 490 495
 Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Trp
 500 505 510
 Ile Ile Ser Ser Gly Thr Glu Thr Tyr Tyr Ala Asp Ser Val Lys Gly
 515 520 525
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
 530 535 540
 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
 545 550 555 560
 Ser Leu Gly Arg Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 565 570 575
 Ser Ser

<210> 90

<211> 578

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 90

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 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Lys Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys
 355 360 365
 Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp

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<220>
<223> Humanised

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Glu	Lys	Thr	Ile 340	Ser	Lys	Ala	Lys	Gly 345	Gln	Pro	Arg	Glu	Pro	Gln	Val
Tyr	Thr	Leu 355	Pro	Pro	Ser	Arg	Asp 360	Glu	Leu	Thr	Lys	Asn 365	Gln	Val	Ser
Leu	Thr 370	Cys	Leu	Val	Lys	Gly 375	Phe	Tyr	Pro	Ser	Asp 380	Ile	Ala	Val	Glu
Trp 385	Glu	Ser	Asn	Gly	Gln 390	Pro	Glu	Asn	Asn	Tyr 395	Lys	Thr	Thr	Pro	Pro 400
Val	Leu	Asp	Ser	Asp 405	Gly	Ser	Phe	Phe	Leu 410	Tyr	Ser	Lys	Leu	Thr 415	Val
Asp	Lys	Ser	Arg 420	Trp	Gln	Gln	Gly	Asn 425	Val	Phe	Ser	Cys	Ser	Val	Met
His	Glu	Ala 435	Leu	His	Asn	His	Tyr 440	Thr	Gln	Lys	Ser	Leu 445	Ser	Leu	Ser
Pro	Gly 450	Lys	Gly	Val	Gln	Leu 455	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln
Pro 465	Gly	Gly	Ser	Leu	Arg 470	Leu	Ser	Cys	Ala	Ala 475	Ser	Gly	Phe	Thr	Phe 480
Ala	Trp	Tyr	Asp	Met 485	Gly	Trp	Val	Arg	Gln 490	Ala	Pro	Gly	Lys	Gly 495	Leu
Glu	Trp	Val	Ser 500	Ser	Ile	Asp	Trp	His 505	Gly	Glu	Val	Thr	Tyr	Tyr	Ala
Asp	Ser	Val 515	Lys	Gly	Arg	Phe	Thr 520	Ile	Ser	Arg	Asp	Asn 525	Ser	Lys	Asn
Thr	Leu 530	Tyr	Leu	Gln	Met	Asn 535	Ser	Leu	Arg	Ala	Glu 540	Asp	Thr	Ala	Val
Tyr 545	Tyr	Cys	Ala	Thr	Ala 550	Glu	Asp	Glu	Pro	Gly 555	Tyr	Asp	Tyr	Trp	Gly 560
Gln	Gly	Thr	Leu	Val 565	Thr	Val	Ser	Ser							

<210> 92

<211> 575

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 92

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

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Ile	Ser	Arg	Thr	245	Pro	Glu	Val	Thr	Cys	250	Val	Val	Val	Asp	Val	255	Ser	His
Glu	Asp	Pro	260	Glu	Val	Lys	Phe	Asn	265	Trp	Tyr	Val	Asp	Gly	270	Val	Glu	Val
His	Asn	Ala	Lys	Thr	Lys	Pro	280	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr		
Arg	Val	Val	Ser	Val	Leu	Thr	295	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly		
305	Lys	Glu	Tyr	Lys	Cys	Lys	310	Val	Ser	Asn	Lys	315	Ala	Leu	Pro	Ala	Pro	Ile
	Glu	Lys	Thr	Ile	Ser	Lys	325	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	
	Tyr	Thr	Leu	Pro	Pro	Ser	340	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	
	Leu	Thr	Cys	Leu	Val	Lys	355	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu		
	Trp	Glu	Ser	Asn	Gly	Gln	370	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro		
385	Val	Leu	Asp	Ser	Asp	Gly	390	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	
	Asp	Lys	Ser	Arg	Trp	Gln	405	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	
	His	Glu	Ala	Leu	His	Asn	420	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	
	Pro	Gly	Lys	Thr	Val	Ala	435	Ala	Pro	Ser	Gly	Val	Gln	Leu	Leu	Glu	Ser	
	Gly	Gly	Gly	Leu	Val	Gln	450	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	
465	Ala	Ser	Gly	Phe	Thr	Phe	470	Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg	Gln	
	Ala	Pro	Gly	Lys	Gly	Leu	485	Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp	His	Gly	
	Glu	Val	Thr	Tyr	Tyr	Ala	500	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	
	Arg	Asp	Asn	Ser	Lys	Asn	515	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	
	Ala	Glu	Asp	Thr	Ala	Val	530	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp	Glu	Pro	
545	Gly	Tyr	Asp	Tyr	Trp	Gly	550	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
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<210> 93

<211> 576

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 93

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	Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu		
	Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser		
	Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val		
65	Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr		
	Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly		
	Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser		
	Val	Phe	Pro	Leu	Ala	Pro	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala			
	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val		
145	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala		
	Val	Leu	Gln	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val			
				180											190			

Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
Pro	Gly	Lys	Ala	Ser	Thr	Lys	Gly	Pro	Thr	Gly	Val	Gln	Leu	Leu	Glu
Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys
Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg
Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp	His
Gly	Glu	Val	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile
Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu
Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp	Glu
Pro	Gly	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser

<210> 94
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 <213> Artificial Sequence

<220>
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			20					25					30		
Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu
		35					40					45			
Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser
	50					55					60				
Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val
65					70					75					80
Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr
				85					90					95	
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly
			100					105					110		
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	
		115					120				125				
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala

130	Ala	Leu	Gly	Cys	Leu	Val	135	Lys	Asp	Tyr	Phe	Pro	140	Glu	Pro	Val	Thr	Val
145	Ser	Trp	Asn	Ser	Gly	150	Ala	Leu	Thr	Ser	Gly	155	Val	His	Thr	Phe	Pro	160
	Val	Leu	Gln	Ser	Ser	165	Gly	Leu	Tyr	Ser	Leu	170	Ser	Ser	Val	Val	Thr	175
	Pro	Ser	Ser	Ser	Leu	180	Gly	Thr	Gln	Thr	Tyr	185	Ile	Cys	Asn	Val	Asn	190
	Lys	Pro	Ser	Asn	Thr	195	Lys	Val	Asp	Lys	Lys	200	Val	Glu	Pro	Lys	Ser	205
	Asp	Lys	Thr	His	Thr	210	Cys	Pro	Pro	Cys	Pro	215	Ala	Pro	Glu	Leu	Leu	220
225	Gly	Pro	Ser	Val	Phe	230	Leu	Phe	Pro	Pro	Lys	235	Pro	Lys	Asp	Thr	Leu	240
	Ile	Ser	Arg	Thr	245	Glu	Val	Thr	Cys	Val	Val	250	Val	Val	Asp	Val	Ser	255
	Glu	Asp	Pro	Glu	260	Val	Lys	Phe	Asn	Trp	Tyr	265	Val	Asp	Gly	Val	Glu	270
	His	Asn	Ala	Lys	Thr	275	Lys	Pro	Arg	Glu	Glu	280	Gln	Tyr	Asn	Ser	Thr	285
	Arg	Val	Val	Ser	Val	290	Leu	Thr	Val	Leu	His	300	Gln	Asp	Trp	Leu	Asn	310
305	Lys	Glu	Tyr	Lys	Cys	310	Lys	Val	Ser	Asn	Lys	315	Ala	Leu	Pro	Ala	Pro	320
	Glu	Lys	Thr	Ile	Ser	325	Lys	Ala	Lys	Gly	Gln	330	Pro	Arg	Glu	Pro	Gln	335
	Tyr	Thr	Leu	Pro	Pro	340	Ser	Arg	Asp	Glu	Leu	345	Thr	Lys	Asn	Gln	Val	350
	Leu	Thr	Cys	Leu	Val	355	Lys	Gly	Phe	Tyr	Pro	360	Ser	Asp	Ile	Ala	Val	365
	Trp	Glu	Ser	Asn	Gly	370	Gln	Pro	Glu	Asn	Asn	375	Tyr	Lys	Thr	Thr	Pro	380
385	Val	Leu	Asp	Ser	Asp	390	Gly	Ser	Phe	Phe	Leu	395	Tyr	Ser	Lys	Leu	Thr	400
	Asp	Lys	Ser	Arg	Trp	405	Gln	Gln	Gly	Asn	Val	410	Phe	Ser	Cys	Ser	Val	415
	His	Glu	Ala	Leu	His	420	Asn	His	Tyr	Thr	Gln	425	Lys	Ser	Leu	Ser	Leu	430
	Pro	Gly	Lys	Ala	Ser	435	Lys	Gly	Pro	Ser	Gly	440	Val	Gln	Leu	Leu	Glu	445
	Ser	Gly	Gly	Gly	Leu	450	Val	Gln	Pro	Gly	Gly	455	Ser	Leu	Arg	Leu	Ser	460
465	Ala	Ala	Ser	Gly	Phe	470	Thr	Phe	Ala	Trp	Tyr	475	Asp	Met	Gly	Trp	Val	480
	Gln	Ala	Pro	Gly	Lys	485	Gly	Leu	Glu	Trp	Val	490	Ser	Ser	Ile	Asp	Trp	495
	Gly	Glu	Val	Thr	Tyr	500	Tyr	Ala	Asp	Ser	Val	505	Lys	Gly	Arg	Phe	Thr	510
	Ser	Arg	Asp	Asn	Ser	515	Lys	Asn	Thr	Leu	Tyr	520	Leu	Gln	Met	Asn	Ser	525
	Arg	Ala	Glu	Asp	Thr	530	Val	Tyr	Tyr	Cys	Ala	535	Thr	Ala	Glu	Asp	Glu	540
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<210> 95

<211> 578

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 95

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

Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr
				85					90					95	
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly
			100					105					110		
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
	145				150					155					160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
			180					185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
	225				230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
	305				310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
	385				390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Gly	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Gly	Val	Gln	Leu
	450					455					460				
Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu
	465				470					475					480
Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp
				485					490					495	
Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp
			500					505					510		
Trp	His	Gly	Glu	Val	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe
		515					520					525			
Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn
	530					535					540				
Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu
	545				550					555					560
Asp	Glu	Pro	Gly	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val
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Ser	Ser														

<210> 96

<211> 578

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 96

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

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				20					25					30		
Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	
		35					40					45				
Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser	
	50				55						60					
Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val	
65				70						75					80	
Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr	
				85					90					95		
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly	
			100					105					110			
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	
		115					120					125				
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	
	130					135					140					
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	
145				150					155						160	
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	
			165					170						175		
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	
		180						185					190			
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	
		195					200					205				
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	
	210				215						220					
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	
225				230						235					240	
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	
			245						250					255		
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	
		260						265					270			
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	
		275					280					285				
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	
	290					295					300					
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	
305				310					315						320	
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	
			325						330					335		
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	
		340						345					350			
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	
		355					360					365				
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	
	370				375						380					
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	
385				390						395					400	
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	
			405					410						415		
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	
			420					425					430			
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	
		435					440					445				
Pro	Gly	Lys	Gly	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Thr	Gly	Val	Gln	Leu	
	450				455						460					
Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	
465				470						475					480	
Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp	
			485					490						495		
Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp	
		500						505					510			
Trp	His	Gly	Val	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe		
	515				520							525				
Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	
	530				535						540					
Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	
545				550						555					560	
Asp	Glu	Pro	Gly	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	
			565					570						575		
Ser	Ser															

<211> 11
 <212> PRT
 <213> Mus Musculus

<400> 97
 Gly Tyr Ser Ile Thr Ser Asp Phe Ala Trp Asn
 1 5 10

<210> 98
 <211> 14
 <212> PRT
 <213> Mus Musculus

<400> 98
 Gly Tyr Ile Ser Tyr Ser Gly Asn Tyr Asn Pro Ser Leu Lys
 1 5 10

<210> 99
 <211> 9
 <212> PRT
 <213> Mus Musculus

<400> 99
 Val Thr Ala Gly Arg Gly Phe Pro Tyr
 1 5

<210> 100
 <211> 11
 <212> PRT
 <213> Mus Musculus

<400> 100
 His Ser Ser Gln Asp Ile Asn Ser Asn Ile Gly
 1 5 10

<210> 101
 <211> 7
 <212> PRT
 <213> Mus Musculus

<400> 101
 His Gly Ile Asn Leu Asp Asp
 1 5

<210> 102
 <211> 9
 <212> PRT
 <213> Mus Musculus

<400> 102
 Val Gln Tyr Ala Gln Phe Pro Trp Thr
 1 5

<210> 103
 <211> 16
 <212> PRT
 <213> Homo Sapiens

<400> 103
 Cys Gly Ala Asp Ser Tyr Glu Met Glu Glu Asp Gly Val Arg Lys Cys
 1 5 10 15

<210> 104
 <211> 6
 <212> PRT
 <213> Mus Musculus

<400> 104
 Ser Asp Phe Ala Trp Asn

1

5

<210> 105
 <211> 13
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<400> 105
 Tyr Ile Ser Tyr Ser Gly Asn Tyr Asn Pro Ser Leu Lys
 1 5 10

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 <211> 7
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 Ala Gly Arg Gly Phe Pro Tyr
 1 5

<210> 107
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<400> 107
 Tyr Ile Ser Tyr Ser Gly Asn Tyr Asn Pro Ser Leu Lys Ser
 1 5 10

<210> 108
 <211> 577
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 108
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Asn Ile Asn Pro Asn Asn Gly Gly Thr Asn Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asp Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Trp Ile Leu Tyr Tyr Gly Arg Ser Lys Trp Tyr Phe Asp Val
 100 105 110
 Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
 115 120 125
 Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140
 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
 145 150 155 160
 Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
 165 170 175
 Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
 180 185 190
 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
 195 200 205
 Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
 210 215 220
 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
 225 230 235 240
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 245 250 255
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 260 265 270

Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
 275 280 285
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 290 295 300
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 305 310 315 320
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 325 330 335
 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 340 345 350
 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
 355 360 365
 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 370 375 380
 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
 385 390 395 400
 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
 405 410 415
 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
 420 425 430
 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
 435 440 445
 Leu Ser Pro Gly Lys Thr Val Ala Ala Pro Ser Gly Ser Glu Val Gln
 450 455 460
 Leu Leu Val Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
 465 470 475 480
 Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Lys Ala Tyr Pro Met Met
 485 490 495
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Glu Ile
 500 505 510
 Ser Pro Ser Gly Ser Tyr Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg
 515 520 525
 Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
 530 535 540
 Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asp
 545 550 555 560
 Pro Arg Lys Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 565 570 575
 Ser

<210> 109

<211> 571

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 109

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

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Thr 145	Ala	Ala	Leu	Gly	Cys 150	Leu	Val	Lys	Asp	Tyr 155	Phe	Pro	Glu	Pro	Val 160
Thr	Val	Ser	Trp	Asn 165	Ser	Gly	Ala	Leu	Thr 170	Ser	Gly	Val	His	Thr 175	Phe
Pro	Ala	Val	Leu 180	Gln	Ser	Ser	Gly	Leu 185	Tyr	Ser	Leu	Ser	Ser 190	Val	Val
Thr	Val	Pro 195	Ser	Ser	Ser	Leu	Gly 200	Thr	Gln	Thr	Tyr	Ile 205	Cys	Asn	Val
Asn 210	His	Lys	Pro	Ser	Asn 215	Thr	Lys	Val	Asp	Lys	Lys 220	Val	Glu	Pro	Lys
Ser 225	Cys	Asp	Lys	Thr	His 230	Thr	Cys	Pro	Pro	Cys 235	Pro	Ala	Pro	Glu	Leu 240
Leu	Gly	Gly	Pro	Ser 245	Val	Phe	Leu	Phe	Pro 250	Pro	Lys	Pro	Lys	Asp 255	Thr
Leu	Met	Ile	Ser 260	Arg	Thr	Pro	Glu	Val 265	Thr	Cys	Val	Val	Val	Asp	Val
Ser	His	Glu 275	Asp	Pro	Glu	Val	Lys 280	Phe	Asn	Trp	Tyr	Val 285	Asp	Gly	Val
Glu 290	Val	His	Asn	Ala	Lys	Thr 295	Lys	Pro	Arg	Glu	Glu 300	Gln	Tyr	Asn	Ser
Thr 305	Tyr	Arg	Val	Val	Ser 310	Val	Leu	Thr	Val	Leu 315	His	Gln	Asp	Trp	Leu 320
Asn	Gly	Lys	Glu	Tyr 325	Lys	Cys	Lys	Val	Ser 330	Asn	Lys	Ala	Leu	Pro 335	Ala
Pro	Ile	Glu	Lys 340	Thr	Ile	Ser	Lys	Ala 345	Lys	Gly	Gln	Pro	Arg 350	Glu	Pro
Gln	Val	Tyr 355	Thr	Leu	Pro	Pro	Ser 360	Arg	Asp	Glu	Leu	Thr 365	Lys	Asn	Gln
Val	Ser 370	Leu	Thr	Cys	Leu	Val 375	Lys	Gly	Phe	Tyr	Pro 380	Ser	Asp	Ile	Ala
Val 385	Glu	Trp	Glu	Ser	Asn 390	Gly	Gln	Pro	Glu	Asn 395	Asn	Tyr	Lys	Thr	Thr 400
Pro	Pro	Val	Leu	Asp 405	Ser	Asp	Gly	Ser	Phe 410	Phe	Leu	Tyr	Ser	Lys 415	Leu
Thr	Val	Asp	Lys 420	Ser	Arg	Trp	Gln	Gln 425	Gly	Asn	Val	Phe	Ser 430	Cys	Ser
Val	Met	His 435	Glu	Ala	Leu	His	Asn 440	His	Tyr	Thr	Gln	Lys 445	Ser	Leu	Ser
Leu	Ser 450	Pro	Gly	Lys											

<210> 111

<211> 343

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 111

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

[illegible]

<210> 113
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 113
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val Gln Ser
 20 25 30
 Asn Gly Asp Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Arg Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
 85 90 95
 Ser His Val Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105 110
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215

<210> 114
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 114
 Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Ser Ser Gln
 1 5 10 15
 Ser Leu Ser Ile Thr Cys Thr Ile Ser Gly Phe Ser Leu Thr Ser His
 20 25 30
 Gly Ile Tyr Trp Leu Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Gly Val Ile Trp Ser Gly Gly Ser Ala Asp Tyr Asn Ala Ala Phe Ile
 50 55 60
 Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
 65 70 75 80
 Lys Met Asn Ser Leu Gln Ala Asp Asp Thr Ala Ile Tyr Tyr Cys Ala
 85 90 95
 Arg Ser Pro Tyr Tyr Tyr Arg Ser Ser Leu Tyr Ala Met Asp Tyr Trp
 100 105 110
 Gly Gln Gly Thr Ser Val Thr Val Ser Ser
 115 120

<210> 115
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 115
 Asn Ile Val Leu Thr Gln Ser Pro Lys Ser Met Ser Met Ser Ile Gly

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

<210> 116

<211> 577

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 116

Gln	Val	Gln	Leu	Gln	Gln	Pro	Gly	Ala	Glu	Leu	Val	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Met	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr
			20					25					30		
Asn	Met	His	Trp	Val	Lys	Gln	Thr	Pro	Gly	Arg	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Ala	Ile	Tyr	Pro	Gly	Asn	Gly	Asp	Thr	Ser	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Lys	Gly	Lys	Ala	Thr	Leu	Thr	Ala	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr
65					70				75						80
Met	Gln	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Ser	Thr	Tyr	Tyr	Gly	Gly	Asp	Trp	Tyr	Phe	Asn	Val	Trp	Gly
			100					105					110		
Ala	Gly	Thr	Leu	Val	Thr	Val	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150				155						160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
			180					185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
		370				375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	

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Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Thr Val Ala Ala Pro Ser Gly Ser Gly Val Gln Leu Leu
 450 455 460
 Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
 465 470 475 480
 Cys Ala Ala Ser Gly Phe Thr Phe Ala Trp Tyr Asp Met Gly Trp Val
 485 490 495
 Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Asp Trp
 500 505 510
 His Gly Glu Val Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
 515 520 525
 Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser
 530 535 540
 Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr Ala Glu Asp
 545 550 555 560
 Glu Pro Gly Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 565 570 575
 Ser

<210> 117

<211> 213

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 117

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

<210> 118

<211> 571

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 118

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

Asn	Met	His	Trp	Val	Lys	Gln	Thr	Pro	Gly	Arg	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Ala	Ile	Tyr	Pro	Gly	Asn	Gly	Asp	Thr	Ser	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Lys	Gly	Lys	Ala	Thr	Leu	Thr	Ala	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Gln	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Ser	Thr	Tyr	Tyr	Gly	Gly	Asp	Trp	Tyr	Phe	Asn	Val	Trp	Gly
			100					105					110		
Ala	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150					155					160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
			180					185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Gly	Ser	Gly	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu
	450					455					460				
Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe
465					470					475					480
Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys
				485					490					495	
Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp	His	Gly	Glu	Val	Thr	Tyr
			500					505					510		
Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser
		515					520					525			
Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr
	530					535					540				
Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp	Glu	Pro	Gly	Tyr	Asp	Tyr
545					550					555					560
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser					
				565					570						

<210> 119

<211> 339

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 119

Gln Ile Val Leu Ser Gln Ser Pro Ala Ile Leu Ser Ala Ser Pro Gly
 1 5 10 15
 Glu Lys Val Thr Met Thr Cys Arg Ala Ser Ser Ser Val Ser Tyr Ile
 20 25 30
 His Trp Phe Gln Gln Lys Pro Gly Ser Ser Pro Lys Pro Trp Ile Tyr
 35 40 45
 Ala Thr Ser Asn Leu Ala Ser Gly Val Pro Val Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Glu Ala Glu
 65 70 75 80
 Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Thr Ser Asn Pro Pro Thr
 85 90 95
 Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala Pro
 100 105 110
 Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr
 115 120 125
 Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys
 130 135 140
 Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu
 145 150 155 160
 Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser
 165 170 175
 Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala
 180 185 190
 Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe
 195 200 205
 Asn Arg Gly Glu Cys Thr Val Ala Ala Pro Ser Gly Ser Gly Val Gln
 210 215 220
 Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
 225 230 235 240
 Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ala Trp Tyr Asp Met Gly
 245 250 255
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile
 260 265 270
 Asp Trp His Gly Glu Val Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg
 275 280 285
 Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
 290 295 300
 Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr Ala
 305 310 315 320
 Glu Asp Glu Pro Gly Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
 325 330 335
 Val Ser Ser

<210> 120

<211> 451

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 120

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

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Ala 145 Leu Gly Cys Leu 150 Val 155 Lys Asp Tyr Phe 155 Pro Glu Pro Val Thr Val 160
 Ser Trp Asn Ser Gly 165 Ala Leu Thr Ser Gly 170 Val His Thr Phe Pro Ala 175
 Val Leu Gln Ser 180 Ser Gly Leu Tyr Ser 185 Leu Ser Ser Val Val Thr Val 190
 Pro Ser Ser 195 Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His 205
 Lys Pro 210 Ser Asn Thr Lys Val 215 Asp Lys Lys Val Glu Pro Lys Ser Cys 220
 Asp 225 Lys Thr His Thr Cys 230 Pro Pro Cys Pro Ala 235 Pro Glu Leu Leu Gly 240
 Gly Pro Ser Val Phe 245 Leu Phe Pro Pro Lys 250 Pro Lys Asp Thr Leu Met 255
 Ile Ser Arg Thr 260 Pro Glu Val Thr Cys 265 Val Val Val Asp Val Ser His 270
 Glu Asp Pro 275 Glu Val Lys Phe Asn 280 Trp Tyr Val Asp Gly 285 Val Glu Val 290
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr 300
 Arg Val Val Ser Val Leu 310 Thr Val Leu His Gln Asp Trp Leu Asn Gly 320
 Lys Glu Tyr Lys Cys 325 Lys Val Ser Asn Lys 330 Ala Leu Pro Ala Pro Ile 335
 Glu Lys Thr Ile 340 Ser Lys Ala Lys Gly 345 Gln Pro Arg Glu Pro Gln Val 350
 Tyr Thr Leu 355 Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser 365
 Leu Thr 370 Cys Leu Val Lys Gly 375 Phe Tyr Pro Ser Asp Ile Ala Val Glu 380
 Trp 385 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro 400
 Val Leu Asp Ser Asp 405 Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val 415
 Asp Lys Ser Arg 420 Trp Gln Gln Gly Asn 425 Val Phe Ser Cys Ser Val Met 430
 His Glu Ala 435 Leu His Asn His Tyr 440 Thr Gln Lys Ser Leu Ser Leu Ser 445
 Pro Gly Lys 450

<210> 121

<211> 333

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 121

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

195 200 205
 Asn Arg Gly Glu Cys Gly Ser Gly Val Gln Leu Leu Glu Ser Gly Gly
 210 215 220
 Gly Leu Val Gln Pro Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 225 230 235 240
 Gly Phe Thr Phe Ala Trp Tyr Asp Met Gly Trp Val Arg Gln Ala Pro
 245 250 255
 Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Asp Trp His Gly Glu Val
 260 265 270
 Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
 275 280 285
 Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
 290 295 300
 Asp Thr Ala Val Tyr Tyr Cys Ala Thr Ala Glu Asp Glu Pro Gly Tyr
 305 310 315 320
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 325 330

<210> 122
 <211> 1713
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 122
 cagggtgcagc tcgtgcagag cggcgccgaa gtgaaaaagc ccggcagcag cgtgaagggtg 60
 agctgcaagg cctccggctt ctacatcaag gacacctaca tgcactgggt caggcaggct 120
 cctggccagg gcctggagtg gatgggcact atcgaccccg ccaacggcaa caccaagtac 180
 gtgcccaggt tccagggcag ggtgaccatc accgccgatg agagcaccag caccgcctac 240
 atggaactga gcagcctgag gtctgaggac accgccgtgt actattgcgc caggagcatc 300
 tacgacgact accactacga cgactactac gccatggact actggggaca gggcacacta 360
 gtgaccgtgt ccagcgccag caccaagggc cccagcgtgt tccccctggc cccagcagc 420
 aagagcacca gcggcgccac agccgccctg ggctgcctgg tgaaggacta cttccccgaa 480
 ccggtgaccg tgtcctggaa cagcggagcc ctgaccagcg gcgtgcacac cttccccgcc 540
 gtgctgcaga gcagcggcct gtacagcctg agcagcgtgg tgaccgtgcc cagcagcagc 600
 ctgggcaccc agacctacat ctgtaacgtg aaccacaagc ccagcaacac caaggtggac 660
 aagaagggtg agcccaagag ctgtgacaag acccacactt gcccccttg cctgcccc 720
 gagctgctgg gaggccccag cgtgttcctg ttcccccca agcctaagga caccctgatg 780
 atcagcagaa cccccgaggt gacctgtgtg gtggtggatg tgagccacga ggacctgag 840
 gtgaagttca actggtacgt ggacggcgtg gaggtgcaca atgccaagac caagcccagg 900
 gaggagcagt acaacagcac ctaccgggtg gtgtccgtgc tgaccgtgct gcaccaggat 960
 tggctgaacg gcaaggagta caagtgtgta cgtgtccaaca aggccctgcc tgccccctatc 1020
 gaaaaacca tcagcaaggc caaggccag cccaggtgta caccctgccc 1080
 cctagcagag atgagctgac caagaaccag gtgtccctga cctgcctggg gaagggcttc 1140
 taccacagcg acatcgccgt ggagtgggag agcaacggcc agcccagaaa caactacaag 1200
 accaccccc ctgtgctgga cagcgatggc agcttcttcc tgtacagcaa gctgaccgtg 1260
 gacaagagca gatggcagca gggcaacgtg ttcagctgct cctgatgca cgaggccctg 1320
 cacaatcact acaccagaa gagcctgagc ctgtccccctg gcaagaccgt ggccgcccc 1380
 tcgggatccg acatccagat gacccagagc cccagcagcc tgagcgccag cgtgggcgac 1440
 agggtagcca ttacctgac ggccagcagg cccatcagcg actggctgca ctggtaccaa 1500
 cagaagccc gcaaggctcc caagctgctg atgcctggg ccagcagcct gcagggaggc 1560
 gtgcccagca ggtttagcgg cagcggcagc ggcaccgact tcaccctcac catctcttcc 1620
 ctgcagccc aggacttcgc cacctactac tgcctgcagg agggctgggg gccccctact 1680
 ttcggccagg gcaccaaggt ggagatcaag agg 1713

<210> 123
 <211> 607
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 123
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Asn Ile Asn Pro Asn Asn Gly Gly Thr Asn Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asp Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr

65	Met	Glu	Leu	Arg	Ser	70	Leu	Arg	Ser	Asp	Asp	75	Thr	Ala	Val	Tyr	Tyr	80	Cys
					85						90						95		
	Ala	Arg	Trp	Ile	Leu		Tyr	Tyr	Gly	Arg	Ser		Lys	Trp	Tyr	Phe	Asp		Val
				100						105						110			
	Trp	Gly	Arg	Gly	Thr		Leu	Val	Thr	Val	Ser		Ser	Ala	Ser	Thr	Lys		Gly
			115						120						125				
	Pro	Ser	Val	Phe	Pro		Leu	Ala	Pro	Ser	Ser		Lys	Ser	Thr	Ser	Gly		Gly
		130						135						140					
	Thr	Ala	Ala	Leu	Gly		Cys	Leu	Val	Lys	Asp		Tyr	Phe	Pro	Glu	Pro		Val
		145					150						155						160
	Thr	Val	Ser	Trp	Asn		Ser	Gly	Ala	Leu	Thr		Ser	Gly	Val	His	Thr		Phe
				165							170						175		
	Pro	Ala	Val	Leu	Gln		Ser	Ser	Gly	Leu	Tyr		Ser	Leu	Ser	Ser	Val		Val
			180							185						190			
	Thr	Val	Pro	Ser	Ser		Ser	Leu	Gly	Thr	Gln		Thr	Tyr	Ile	Cys	Asn		Val
			195						200						205				
	Asn	His	Lys	Pro	Ser		Asn	Thr	Lys	Val	Asp		Lys	Lys	Val	Glu	Pro		Lys
		210						215						220					
	Ser	Cys	Asp	Lys	Thr		His	Thr	Cys	Pro	Pro		Cys	Pro	Ala	Pro	Glu		Leu
		225					230						235						240
	Leu	Gly	Gly	Pro	Ser		Val	Phe	Leu	Phe	Pro		Pro	Lys	Pro	Lys	Asp		Thr
				245						250							255		
	Leu	Met	Ile	Ser	Arg		Thr	Pro	Glu	Val	Thr		Cys	Val	Val	Val	Asp		Val
			260							265						270			
	Ser	His	Glu	Asp	Pro		Glu	Val	Lys	Phe	Asn		Trp	Tyr	Val	Asp	Gly		Val
		275							280						285				
	Glu	Val	His	Asn	Ala		Lys	Thr	Lys	Pro	Arg		Glu	Glu	Gln	Tyr	Asn		Ser
		290						295						300					
	Thr	Tyr	Arg	Val	Val		Ser	Val	Leu	Thr	Val		Leu	His	Gln	Asp	Trp		Leu
		305					310						315						320
	Asn	Gly	Lys	Glu	Tyr		Lys	Cys	Lys	Val	Ser		Asn	Lys	Ala	Leu	Pro		Ala
				325							330						335		
	Pro	Ile	Glu	Lys	Thr		Ile	Ser	Lys	Ala	Lys		Gly	Gln	Pro	Arg	Glu		Pro
			340							345						350			
	Gln	Val	Tyr	Thr	Leu		Pro	Pro	Ser	Arg	Asp		Glu	Leu	Thr	Lys	Asn		Gln
		355							360						365				
	Val	Ser	Leu	Thr	Cys		Leu	Val	Lys	Gly	Phe		Tyr	Pro	Ser	Asp	Ile		Ala
		370						375						380					
	Val	Glu	Trp	Glu	Ser		Asn	Gly	Gln	Pro	Glu		Asn	Asn	Tyr	Lys	Thr		Thr
		385					390						395						400
	Pro	Pro	Val	Leu	Asp		Ser	Asp	Gly	Ser	Phe		Phe	Leu	Tyr	Ser	Lys		Leu
				405							410						415		
	Thr	Val	Asp	Lys	Ser		Arg	Trp	Gln	Gln	Gly		Asn	Val	Phe	Ser	Cys		Ser
			420							425						430			
	Val	Met	His	Glu	Ala		Leu	His	Asn	His	Tyr		Thr	Gln	Lys	Ser	Leu		Ser
		435							440						445				
	Leu	Ser	Pro	Gly	Lys		Gly	Ser	Asp	Gly	Gly		Gly	Ile	Arg	Arg	Ser		Met
		450						455						460					
	Ser	Gly	Thr	Trp	Tyr		Leu	Lys	Ala	Met	Thr		Val	Asp	Arg	Glu	Phe		Pro
		465					470						475						480
	Glu	Met	Asn	Leu	Glu		Ser	Val	Thr	Pro	Met		Thr	Leu	Thr	Leu	Leu		Lys
				485							490						495		
	Gly	His	Asn	Leu	Glu		Ala	Lys	Val	Thr	Met		Leu	Ile	Ser	Gly	Arg		Cys
			500							505						510			
	Gln	Glu	Val	Lys	Ala		Val	Leu	Gly	Arg	Thr		Lys	Glu	Arg	Lys	Lys		Tyr
		515							520						525				
	Thr	Ala	Asp	Gly	Gly		Lys	His	Val	Ala	Tyr		Ile	Ile	Pro	Ser	Ala		Val
		530						535						540					
	Arg	Asp	His	Val	Ile		Phe	Tyr	Ser	Glu	Gly		Gln	Leu	His	Gly	Lys		Pro
		545					550						555						560
	Val	Arg	Gly	Val	Lys		Leu	Val	Gly	Arg	Asp		Pro	Lys	Asn	Asn	Leu		Glu
				565							570						575		
	Ala	Leu	Glu	Asp	Phe		Glu	Lys	Ala	Ala	Gly		Ala	Arg	Gly	Leu	Ser		Thr
			580							585						590			
	Glu	Ser	Ile	Leu	Ile		Pro	Arg	Gln	Ser	Glu		Thr	Cys	Ser	Pro	Gly		
			595						600						605				

<210> 124

<211> 541

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 124

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Asn Ile Asn Pro Asn Asn Gly Gly Thr Asn Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asp Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Trp Ile Leu Tyr Tyr Gly Arg Ser Lys Trp Tyr Phe Asp Val
 100 105 110
 Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
 115 120 125
 Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140
 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
 145 150 155 160
 Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
 165 170 175
 Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
 180 185 190
 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
 195 200 205
 Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
 210 215 220
 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
 225 230 235 240
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 245 250 255
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 260 265 270
 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
 275 280 285
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 290 295 300
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 305 310 315 320
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 325 330 335
 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 340 345 350
 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
 355 360 365
 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 370 375 380
 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Tyr Lys Thr Thr
 385 390 395 400
 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
 405 410 415
 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
 420 425 430
 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
 435 440 445
 Leu Ser Pro Gly Lys Gly Ser Glu Val Val Ala Ala Thr Pro Thr Ser
 450 455 460
 Leu Leu Ile Ser Trp Arg His Pro His Phe Pro Thr Arg Tyr Tyr Arg
 465 470 475 480
 Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe Thr
 485 490 495
 Val Pro Leu Gln Pro Pro Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
 500 505 510
 Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Asp Gly Arg Asn Gly
 515 520 525
 Arg Leu Leu Ser Ile Pro Ile Ser Ile Asn Tyr Arg Thr
 530 535 540

<210> 125

<211> 613

<212> PRT

<213> Artificial Sequence

<220>
<223> Humanised

<400> 125

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asp	Tyr
			20					25					30		
Tyr	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Asn	Ile	Asn	Pro	Asn	Asn	Gly	Gly	Thr	Asn	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Lys	Asp	Arg	Val	Thr	Met	Thr	Thr	Asp	Thr	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75				80	
Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Trp	Ile	Leu	Tyr	Tyr	Gly	Arg	Ser	Lys	Trp	Tyr	Phe	Asp	Val
			100					105					110		
Trp	Gly	Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly
		115					120					125			
Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly
						135					140				
Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val
145					150					155				160	
Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe
				165					170					175	
Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val
			180					185					190		
Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val
		195					200					205			
Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys
	210					215					220				
Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu
225					230					235					240
Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr
				245					250					255	
Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val
			260					265					270		
Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val
		275					280					285			
Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser
	290					295					300				
Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu
305					310					315					320
Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala
				325					330					335	
Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro
			340					345					350		
Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln
		355					360					365			
Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala
	370					375					380				
Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr
385					390					395					400
Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu
				405					410					415	
Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser
			420					425					430		
Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser
		435					440					445			
Leu	Ser	Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Asp	Gly	Gly
	450					455					460				
Gly	Ile	Arg	Arg	Ser	Met	Ser	Gly	Thr	Trp	Tyr	Leu	Lys	Ala	Met	Thr
465					470					475					480
Val	Asp	Arg	Glu	Phe	Pro	Glu	Met	Asn	Leu	Glu	Ser	Val	Thr	Pro	Met
				485					490					495	
Thr	Leu	Thr	Leu	Lys	Gly	His	Asn	Leu	Glu	Ala	Lys	Val	Thr	Met	
			500				505					510			
Leu	Ile	Ser	Gly	Arg	Cys	Gln	Glu	Val	Lys	Ala	Val	Leu	Gly	Arg	Thr
		515					520					525			
Lys	Glu	Arg	Lys	Lys	Tyr	Thr	Ala	Asp	Gly	Gly	Lys	His	Val	Ala	Tyr
	530					535					540				
Ile	Ile	Pro	Ser	Ala	Val	Arg	Asp	His	Val	Ile	Phe	Tyr	Ser	Glu	Gly
545					550					555					560
Gln	Leu	His	Gly	Lys	Pro	Val	Arg	Gly	Val	Lys	Leu	Val	Gly	Arg	Asp

Pro	Lys	Asn	Asn	565 Leu	Glu	Ala	Leu	Glu	570 Asp	Phe	Glu	Lys	Ala	575 Ala	Gly
Ala	Arg	Gly	580 Leu	Ser	Thr	Glu	Ser	585 Ile	Leu	Ile	Pro	Arg	590 Gln	Ser	Glu
Thr	Cys	Ser	595 Pro	Gly				600				605			
	610														

<210> 126
 <211> 513
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1			5						10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Asp	Tyr
			20					25					30		
Tyr	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Asn	Ile	Asn	Pro	Asn	Asn	Gly	Gly	Thr	Asn	Tyr	Asn	Gln	Lys	Phe
	50				55					60					
Lys	Asp	Arg	Val	Thr	Met	Thr	Thr	Asp	Thr	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Trp	Ile	Leu	Tyr	Tyr	Gly	Arg	Ser	Lys	Trp	Tyr	Phe	Asp	Val
			100					105					110		
Trp	Gly	Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly
		115					120						125		
Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly
	130					135					140				
Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val
145					150					155					160
Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe
				165					170					175	
Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val
			180					185					190		
Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val
		195					200					205			
Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys
	210					215					220				
Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu
225					230					235					240
Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr
				245					250					255	
Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val
			260					265					270		
Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val
		275					280					285			
Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser
	290					295					300				
Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu
305					310					315					320
Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala
				325					330					335	
Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro
			340					345					350		
Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln
		355					360					365			
Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala
		370				375					380				
Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr
385					390					395					400
Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu
				405					410					415	
Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser
			420					425					430		
Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser
		435					440					445			
Leu	Ser	Pro	Gly	Lys	Gly	Ser	Val	Asp	Asn	Lys	Phe	Asn	Lys	Glu	Leu
	450					455					460				

Arg Gln Ala Tyr Trp Glu Ile Gln Ala Leu Pro Asn Leu Asn Trp Thr
 465 470 475 480
 Gln Ser Arg Ala Phe Ile Arg Ser Leu Tyr Asp Asp Pro Ser Gln Ser
 485 490 495
 Ala Asn Leu Leu Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro
 500 505 510
 Lys

<210> 127
 <211> 519
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 127
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Asn Ile Asn Pro Asn Asn Gly Gly Thr Asn Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asp Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Trp Ile Leu Tyr Tyr Gly Arg Ser Lys Trp Tyr Phe Asp Val
 100 105 110
 Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
 115 120 125
 Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140
 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
 145 150 155 160
 Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
 165 170 175
 Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
 180 185 190
 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
 195 200 205
 Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
 210 215 220
 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
 225 230 235 240
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 245 250 255
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 260 265 270
 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
 275 280 285
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 290 295 300
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 305 310 315 320
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 325 330 335
 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 340 345 350
 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
 355 360 365
 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 370 375 380
 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
 385 390 395 400
 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
 405 410 415
 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
 420 425 430
 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
 435 440 445
 Leu Ser Pro Gly Lys Thr Val Ala Ala Pro Ser Gly Ser Val Asp Asn

											PB62748				
Lys 465	Phe	Asn	Lys	Glu	Leu 470	Arg	Gln	Ala	Tyr	Trp 475	Glu	Ile	Gln	Ala	Leu 480
Pro	Asn	Leu	Asn	Trp 485	Thr	Gln	Ser	Arg	Ala	Phe	Ile	Arg	Ser	Leu 495	Tyr
Asp	Asp	Pro	Ser 500	Gln	Ser	Ala	Asn	Leu 505	Leu	Ala	Glu	Ala	Lys 510	Lys	Leu
Asn	Asp	Ala 515	Gln	Ala	Pro	Lys									

Leu Ser Pro Gly Lys Gly Ser Asp Leu Gly Lys Lys Leu Leu Glu Ala
 450 455 460
 Ala Arg Ala Gly Gln Asp Asp Glu Val Arg Ile Leu Met Ala Asn Gly
 465 470 475 480
 Ala Asp Val Asn Ala Lys Asp Glu Tyr Gly Leu Thr Pro Leu Tyr Leu
 485 490 495
 Ala Thr Ala His Gly His Leu Glu Ile Val Glu Val Leu Leu Lys Asn
 500 505 510
 Gly Ala Asp Val Asn Ala Val Asp Ala Ile Gly Phe Thr Pro Leu His
 515 520 525
 Leu Ala Ala Phe Ile Gly His Leu Glu Ile Ala Glu Val Leu Leu Lys
 530 535 540
 His Gly Ala Asp Val Asn Ala Gln Asp Lys Phe Gly Lys Thr Ala Phe
 545 550 555 560
 Asp Ile Ser Ile Gly Asn Gly Asn Glu Asp Leu Ala Glu Ile Leu Gln
 565 570 575
 Lys Leu

<210> 129

<211> 584

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 129

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Asn Ile Asn Pro Asn Asn Gly Gly Thr Asn Tyr Asn Gln Lys Phe
 50 55 60
 Lys Asp Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Trp Ile Leu Tyr Tyr Gly Arg Ser Lys Trp Tyr Phe Asp Val
 100 105 110
 Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly
 115 120 125
 Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly
 130 135 140
 Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
 145 150 155 160
 Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
 165 170 175
 Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val
 180 185 190
 Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val
 195 200 205
 Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys
 210 215 220
 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
 225 230 235 240
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 245 250 255
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 260 265 270
 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
 275 280 285
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 290 295 300
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 305 310 315 320
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 325 330 335
 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 340 345 350
 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
 355 360 365
 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala

370	375	380																
Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr			
385					390					395					400			
Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu			
				405					410					415				
Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser			
			420					425					430					
Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser			
		435					440					445						
Leu	Ser	Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Asp	Leu	Gly			
		450					455				460							
Lys	Lys	Leu	Leu	Glu	Ala	Ala	Arg	Ala	Gly	Gln	Asp	Asp	Glu	Val	Arg			
465					470					475					480			
Ile	Leu	Met	Ala	Asn	Gly	Ala	Asp	Val	Asn	Ala	Lys	Asp	Glu	Tyr	Gly			
				485					490					495				
Leu	Thr	Pro	Leu	Tyr	Leu	Ala	Thr	Ala	His	Gly	His	Leu	Glu	Ile	Val			
			500					505					510					
Glu	Val	Leu	Leu	Lys	Asn	Gly	Ala	Asp	Val	Asn	Ala	Val	Asp	Ala	Ile			
		515					520					525						
Gly	Phe	Thr	Pro	Leu	His	Leu	Ala	Ala	Phe	Ile	Gly	His	Leu	Glu	Ile			
	530					535					540							
Ala	Glu	Val	Leu	Leu	Lys	His	Gly	Ala	Asp	Val	Asn	Ala	Gln	Asp	Lys			
545					550					555					560			
Phe	Gly	Lys	Thr	Ala	Phe	Asp	Ile	Ser	Ile	Gly	Asn	Gly	Asn	Glu	Asp			
				565					570					575				
Leu	Ala	Glu	Ile	Leu	Gln	Lys	Leu											
			580															

<210> 130

<211> 574

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 130

Gln	Val	Thr	Leu	Arg	Glu	Ser	Gly	Pro	Ala	Leu	Val	Lys	Pro	Thr	Gln			
1				5					10					15				
Thr	Leu	Thr	Leu	Thr	Cys	Thr	Phe	Ser	Gly	Phe	Ser	Leu	Ser	Thr	Ser			
			20					25					30					
Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu			
		35					40					45						
Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser			
	50					55					60							
Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val			
65				70						75				80				
Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr			
				85					90					95				
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly			
			100					105					110					
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser			
		115					120					125						
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala			
	130					135					140							
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val			
145				150						155				160				
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala			
				165					170					175				
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val			
			180					185					190					
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His			
		195					200					205						
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys			
	210					215					220							
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly			
225				230						235				240				
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met			
				245					250					255				
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His			
			260					265					270					
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val			
	275						280					285						
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr			
	290					295					300							

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Arg 305	Val	Val	Ser	Val	Leu 310	Thr	Val	Leu	His	Gln 315	Asp	Trp	Leu	Asn	Gly 320
Lys	Glu	Tyr	Lys	Cys 325	Lys	Val	Ser	Asn	Lys 330	Ala	Leu	Pro	Ala	Pro 335	Ile
Glu	Lys	Thr	Ile 340	Ser	Lys	Ala	Lys	Gly 345	Gln	Pro	Arg	Glu	Pro 350	Gln	Val
Tyr	Thr	Leu 355	Pro	Pro	Ser	Arg	Asp 360	Glu	Leu	Thr	Lys	Asn 365	Gln	Val	Ser
Leu	Thr 370	Cys	Leu	Val	Lys	Gly 375	Phe	Tyr	Pro	Ser	Asp 380	Ile	Ala	Val	Glu
Trp 385	Glu	Ser	Asn	Gly	Gln 390	Pro	Glu	Asn	Asn	Tyr 395	Lys	Thr	Thr	Pro	Pro 400
Val	Leu	Asp	Ser	Asp 405	Gly	Ser	Phe	Phe	Leu 410	Tyr	Ser	Lys	Leu	Thr 415	Val
Asp	Lys	Ser	Arg 420	Trp	Gln	Gln	Gly	Asn 425	Val	Phe	Ser	Cys	Ser 430	Val	Met
His	Glu	Ala 435	Leu	His	Asn	His	Tyr 440	Thr	Gln	Lys	Ser	Leu 445	Ser	Leu	Ser
Pro	Gly 450	Lys	Gly	Ser	Gln	Val	Gln 455	Leu	Val	Glu	Ser	Gly 460	Gly	Gly	Leu
Val 465	Gln	Ala	Gly	Gly	Ser 470	Leu	Arg	Leu	Ser	Cys 475	Ala	Ala	Ser	Gly	Tyr 480
Ala	Tyr	Thr	Tyr	Ile 485	Tyr	Met	Gly	Trp	Phe 490	Arg	Gln	Ala	Pro	Gly 495	Lys
Glu	Arg	Glu	Gly 500	Val	Ala	Ala	Met	Asp 505	Ser	Gly	Gly	Gly	Gly 510	Thr	Leu
Tyr	Ala	Asp 515	Ser	Val	Lys	Gly	Arg 520	Phe	Thr	Ile	Ser	Arg 525	Asp	Lys	Gly
Lys	Asn 530	Thr	Val	Tyr	Leu	Gln 535	Met	Asp	Ser	Leu	Lys 540	Pro	Glu	Asp	Thr
Ala 545	Thr	Tyr	Tyr	Cys	Ala 550	Ala	Gly	Gly	Tyr	Glu 555	Leu	Arg	Asp	Arg	Thr 560
Tyr	Gly	Gln	Trp	Gly 565	Gln	Gly	Thr	Gln	Val 570	Thr	Val	Ser	Ser		

<210> 131

<211> 566

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 131

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

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Ile	Ser	Arg	Thr	245	Pro	Glu	Val	Thr	Cys	250	Val	Val	Val	Asp	Val	255	Ser	His
Glu	Asp	Pro	260	Glu	Val	Lys	Phe	Asn	265	Trp	Tyr	Val	Asp	Gly	270	Val	Glu	Val
His	Asn	Ala	Lys	Thr	Lys	Pro	280	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr		
Arg	Val	Val	Ser	Val	Leu	Thr	295	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly		
305	Lys	Glu	Tyr	Lys	Cys	Lys	310	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	
					325						330					335		
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	345	Gln	Pro	Arg	Glu	Pro	Gln	Val	Ser	
Tyr	Thr	Leu	340	Pro	Pro	Ser	Arg	Asp	350	Leu	Thr	Lys	Asn	Gln	Val	Ser		
Leu	Thr	Cys	355	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu		
370	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro		
385	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val		
					405					410						415		
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	425	Val	Phe	Ser	Cys	Ser	Val	Met		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser			
		435					440											
Pro	Gly	Lys	Gly	Ser	Ala	Arg	Val	Asp	Gln	Thr	Pro	Arg	Ser	Val	Thr			
450	Lys	Glu	Thr	Gly	Glu	Ser	Leu	Thr	Ile	Asn	Cys	Val	Leu	Arg	Asp	Ala		
465	Ser	Tyr	Ala	Leu	Gly	Ser	Thr	Cys	Trp	Tyr	Arg	Lys	Lys	Ser	Gly	Glu		
					485					490					495			
Gly	Asn	Glu	Glu	Ser	Ile	Ser	Lys	Gly	Gly	Arg	Tyr	Val	Glu	Thr	Val			
			500						505						510			
Asn	Ser	Gly	Ser	Lys	Ser	Phe	Ser	Leu	Arg	Ile	Asn	Asp	Leu	Thr	Val			
		515					520					525						
Glu	Asp	Gly	Gly	Thr	Tyr	Arg	Cys	Gly	Leu	Gly	Val	Ala	Gly	Gly	Tyr			
		530					535				540							
Cys	Asp	Tyr	Ala	Leu	Cys	Ser	Ser	Arg	Tyr	Ala	Glu	Cys	Gly	Asp	Gly			
545	Thr	Ala	Val	Thr	Val	Asn				555					560			
					565													

<210> 132

<211> 1659

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 132

Cys	Ala	Gly	Gly	Thr	Gly	Ala	Cys	Cys	Cys	Thr	Gly	Ala	Gly	Gly	Gly			
1				5					10					15				
Ala	Gly	Ala	Gly	Cys	Gly	Gly	Cys	Cys	Cys	Cys	Gly	Cys	Cys	Cys	Thr			
			20					25					30					
Gly	Gly	Thr	Gly	Ala	Ala	Gly	Cys	Cys	Cys	Ala	Cys	Cys	Cys	Ala	Gly			
		35					40					45						
Ala	Cys	Cys	Cys	Thr	Gly	Ala	Cys	Cys	Cys	Thr	Gly	Ala	Cys	Cys	Thr			
		50				55				60								
Gly	Cys	Ala	Cys	Cys	Thr	Thr	Cys	Ala	Gly	Cys	Gly	Gly	Cys	Thr	Thr			
65					70				75					80				
Thr	Ala	Gly	Cys	Cys	Thr	Cys	Ala	Gly	Cys	Ala	Cys	Cys	Thr	Cys	Cys			
			85						90					95				
Gly	Gly	Cys	Ala	Thr	Gly	Gly	Gly	Cys	Gly	Thr	Gly	Ala	Gly	Cys	Thr			
			100					105					110					
Gly	Gly	Ala	Thr	Cys	Ala	Gly	Gly	Cys	Ala	Gly	Cys	Cys	Ala	Cys	Cys			
		115					120					125						
Cys	Gly	Gly	Cys	Ala	Ala	Ala	Gly	Gly	Cys	Cys	Thr	Gly	Gly	Ala	Gly			
		130				135					140							
Thr	Gly	Gly	Cys	Thr	Gly	Gly	Cys	Cys	Cys	Ala	Cys	Ala	Thr	Cys	Thr			
145					150					155				160				
Ala	Cys	Thr	Gly	Gly	Gly	Ala	Cys	Gly	Ala	Cys	Gly	Ala	Cys	Ala	Ala			
			165						170					175				
Gly	Ala	Gly	Gly	Thr	Ala	Cys	Ala	Ala	Cys	Cys	Cys	Cys	Ala	Gly	Cys			
			180				185						190					

Cys	Thr	Gly	Ala	Ala	Gly	Ala	Gly	Cys	Cys	Gly	Gly	Cys	Thr	Gly	Ala
		195					200					205			
Cys	Cys	Ala	Thr	Cys	Ala	Gly	Cys	Ala	Ala	Gly	Gly	Ala	Thr	Ala	Cys
	210					215					220				
Cys	Ala	Gly	Cys	Ala	Gly	Ala	Ala	Cys	Cys	Ala	Gly	Gly	Thr	Gly	
225					230				235						240
Gly	Thr	Gly	Cys	Thr	Gly	Ala	Cys	Cys	Ala	Thr	Gly	Ala	Cys	Cys	Ala
				245					250					255	
Ala	Cys	Ala	Thr	Gly	Gly	Ala	Cys	Cys	Cys	Cys	Gly	Thr	Gly	Gly	Ala
			260					265					270		
Cys	Ala	Cys	Cys	Gly	Cys	Thr	Ala	Cys	Cys	Thr	Ala	Cys	Thr	Ala	Cys
		275					280					285			
Thr	Gly	Cys	Gly	Cys	Cys	Ala	Gly	Gly	Ala	Gly	Gly	Gly	Ala	Gly	Ala
	290					295					300				
Cys	Cys	Gly	Thr	Cys	Thr	Thr	Cys	Thr	Ala	Cys	Thr	Gly	Gly	Thr	Ala
305					310					315					320
Cys	Thr	Thr	Cys	Gly	Ala	Cys	Gly	Thr	Gly	Thr	Gly	Gly	Gly	Gly	Ala
				325					330					335	
Ala	Gly	Gly	Gly	Gly	Cys	Ala	Cys	Ala	Cys	Thr	Ala	Gly	Thr	Gly	Ala
			340					345					350		
Cys	Cys	Gly	Thr	Gly	Thr	Cys	Cys	Ala	Gly	Cys	Gly	Cys	Cys	Ala	Gly
		355					360					365			
Cys	Ala	Cys	Cys	Ala	Ala	Gly	Gly	Cys	Cys	Cys	Cys	Ala	Gly	Cys	
	370					375					380				
Gly	Thr	Gly	Thr	Thr	Cys	Cys	Cys	Cys	Cys	Thr	Gly	Gly	Cys	Cys	Cys
385					390					395					400
Cys	Cys	Ala	Gly	Cys	Ala	Gly	Cys	Ala	Ala	Gly	Ala	Gly	Cys	Ala	Cys
				405					410					415	
Cys	Ala	Gly	Cys	Gly	Gly	Cys	Gly	Gly	Cys	Ala	Cys	Ala	Gly	Cys	Cys
			420					425					430		
Gly	Cys	Cys	Cys	Thr	Gly	Gly	Gly	Cys	Thr	Gly	Cys	Cys	Thr	Gly	Gly
		435					440					445			
Thr	Gly	Ala	Ala	Gly	Gly	Ala	Cys	Thr	Ala	Cys	Thr	Thr	Cys	Cys	Cys
	450					455					460				
Cys	Gly	Ala	Ala	Cys	Cys	Gly	Gly	Thr	Gly	Ala	Cys	Cys	Gly	Thr	Gly
465					470				475						480
Thr	Cys	Cys	Thr	Gly	Gly	Ala	Ala	Cys	Ala	Gly	Cys	Gly	Gly	Ala	Gly
			485						490					495	
Cys	Cys	Cys	Thr	Gly	Ala	Cys	Cys	Ala	Gly	Cys	Gly	Gly	Cys	Gly	Thr
			500					505					510		
Gly	Cys	Ala	Cys	Ala	Cys	Cys	Thr	Thr	Cys	Cys	Cys	Cys	Gly	Cys	Cys
		515					520					525			
Gly	Thr	Gly	Cys	Thr	Gly	Cys	Ala	Gly	Ala	Gly	Cys	Ala	Gly	Cys	Gly
	530					535					540				
Gly	Cys	Cys	Thr	Gly	Thr	Ala	Cys	Ala	Gly	Cys	Cys	Thr	Gly	Ala	Gly
545					550				555						560
Cys	Ala	Gly	Cys	Gly	Thr	Gly	Gly	Thr	Gly	Ala	Cys	Cys	Gly	Thr	Gly
				565					570					575	
Cys	Cys	Cys	Ala	Gly	Cys	Ala	Gly	Cys	Ala	Gly	Cys	Cys	Thr	Gly	Gly
			580					585					590		
Gly	Cys	Ala	Cys	Cys	Cys	Ala	Gly	Ala	Cys	Cys	Thr	Ala	Cys	Ala	Thr
		595					600					605			
Cys	Thr	Gly	Thr	Ala	Ala	Cys	Gly	Thr	Gly	Ala	Ala	Cys	Cys	Ala	Cys
	610					615				620					
Ala	Ala	Gly	Cys	Cys	Cys	Ala	Gly	Cys	Ala	Ala	Cys	Ala	Cys	Cys	Ala
625					630				635						640
Ala	Gly	Gly	Thr	Gly	Gly	Ala	Cys	Ala	Ala	Gly	Ala	Ala	Gly	Gly	Thr
				645					650					655	
Gly	Gly	Ala	Gly	Cys	Cys	Cys	Ala	Ala	Gly	Ala	Gly	Cys	Thr	Gly	Thr
			660					665					670		
Gly	Ala	Cys	Ala	Ala	Gly	Ala	Cys	Cys	Cys	Ala	Cys	Ala	Cys	Cys	Thr
		675					680					685			
Gly	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Thr	Gly	Cys	Cys	Cys	Thr	Gly	Cys
	690					695					700				
Cys	Cys	Cys	Cys	Gly	Ala	Gly	Cys	Thr	Gly	Cys	Thr	Gly	Gly	Gly	Ala
705					710				715						720
Gly	Gly	Cys	Cys	Cys	Cys	Ala	Gly	Cys	Gly	Thr	Gly	Thr	Thr	Cys	Cys
				725					730					735	
Thr	Gly	Thr	Thr	Cys	Cys	Cys	Cys	Cys	Cys	Cys	Ala	Ala	Gly	Cys	Cys
			740					745					750		
Thr	Ala	Ala	Gly	Gly	Ala	Cys	Ala	Cys	Cys	Cys	Thr	Gly	Ala	Thr	Gly
		755					760					765			
Ala	Thr	Cys	Ala	Gly	Cys	Ala	Gly	Ala	Ala	Cys	Cys	Cys	Cys	Cys	Gly
	770					775				780					
Ala	Gly	Gly	Thr	Gly	Ala	Cys	Cys	Thr	Gly	Thr	Gly	Thr	Gly	Gly	Thr
785					790				795						800

Gly Gly Thr Gly Gly Ala Thr Gly Thr Gly Ala Gly Cys Cys Ala Cys
 805 810 815
 Gly Ala Gly Gly Ala Cys Cys Cys Thr Gly Ala Gly Gly Thr Gly Ala
 820 825 830
 Ala Gly Thr Thr Cys Ala Ala Cys Thr Gly Gly Thr Ala Cys Gly Thr
 835 840 845
 Gly Gly Ala Cys Gly Gly Cys Gly Thr Gly Gly Ala Gly Gly Thr Gly
 850 855 860
 Cys Ala Cys Ala Ala Thr Gly Cys Cys Ala Ala Gly Ala Cys Cys Ala
 865 870 875 880
 Ala Gly Cys Cys Cys Ala Gly Gly Gly Ala Gly Gly Ala Gly Cys Ala
 885 890 895
 Gly Thr Ala Cys Ala Ala Cys Ala Gly Cys Ala Cys Cys Thr Ala Cys
 900 905 910
 Cys Gly Gly Gly Thr Gly Gly Thr Gly Thr Cys Cys Gly Thr Gly Cys
 915 920 925
 Thr Gly Ala Cys Cys Gly Thr Gly Cys Thr Gly Cys Ala Cys Cys Ala
 930 935 940
 Gly Gly Ala Thr Thr Gly Gly Cys Thr Gly Ala Ala Cys Gly Gly Cys
 945 950 955 960
 Ala Ala Gly Gly Ala Gly Thr Ala Cys Ala Ala Gly Thr Gly Thr Ala
 965 970 975
 Ala Gly Gly Thr Gly Thr Cys Cys Ala Cys Ala Ala Gly Gly Cys
 980 985 990
 Cys Cys Thr Gly Cys Cys Thr Gly Cys Cys Cys Cys Thr Ala Thr Cys
 995 1000 1005
 Gly Ala Gly Ala Ala Ala Cys Cys Ala Thr Cys Ala Gly Cys Ala
 1010 1015 1020
 Ala Gly Gly Cys Cys Ala Ala Gly Gly Gly Cys Cys Ala Gly Cys Cys
 1025 1030 1035 1040
 Cys Ala Gly Ala Gly Ala Gly Cys Cys Cys Cys Ala Gly Gly Thr Gly
 1045 1050 1055
 Thr Ala Cys Ala Cys Cys Cys Thr Gly Cys Cys Cys Cys Thr Ala
 1060 1065 1070
 Gly Cys Ala Gly Ala Gly Ala Thr Gly Ala Gly Cys Thr Gly Ala Cys
 1075 1080 1085
 Cys Ala Ala Gly Ala Ala Cys Cys Ala Gly Gly Thr Gly Thr Cys Cys
 1090 1095 1100
 Cys Thr Gly Ala Cys Cys Thr Gly Cys Cys Thr Gly Gly Thr Gly Ala
 1105 1110 1115 1120
 Ala Gly Gly Gly Cys Thr Thr Cys Thr Ala Cys Cys Cys Cys Ala Gly
 1125 1130 1135
 Cys Gly Ala Cys Ala Thr Cys Gly Cys Cys Gly Thr Gly Gly Ala Gly
 1140 1145 1150
 Thr Gly Gly Gly Ala Gly Ala Gly Cys Ala Ala Cys Gly Gly Cys Cys
 1155 1160 1165
 Ala Gly Cys Cys Cys Gly Ala Gly Ala Ala Cys Ala Ala Cys Thr Ala
 1170 1175 1180
 Cys Ala Ala Gly Ala Cys Cys Ala Cys Cys Cys Cys Cys Cys Thr
 1185 1190 1195 1200
 Gly Thr Gly Cys Thr Gly Gly Ala Cys Ala Gly Cys Gly Ala Thr Gly
 1205 1210 1215
 Gly Cys Ala Gly Cys Thr Thr Cys Thr Thr Cys Cys Thr Gly Thr Ala
 1220 1225 1230
 Cys Ala Gly Cys Ala Ala Gly Cys Thr Gly Ala Cys Cys Gly Thr Gly
 1235 1240 1245
 Gly Ala Cys Ala Ala Gly Ala Gly Cys Ala Gly Ala Thr Gly Gly Cys
 1250 1255 1260
 Ala Gly Cys Ala Gly Gly Gly Cys Ala Ala Cys Gly Thr Gly Thr Thr
 1265 1270 1275 1280
 Cys Ala Gly Cys Thr Gly Cys Thr Cys Cys Gly Thr Gly Ala Thr Gly
 1285 1290 1295
 Cys Ala Cys Gly Ala Gly Gly Cys Cys Cys Thr Gly Cys Ala Cys Ala
 1300 1305 1310
 Ala Thr Cys Ala Cys Thr Ala Cys Ala Cys Cys Cys Ala Gly Ala Ala
 1315 1320 1325
 Gly Ala Gly Cys Cys Thr Gly Ala Gly Cys Cys Thr Gly Thr Cys Cys
 1330 1335 1340
 Cys Cys Thr Gly Gly Cys Ala Ala Gly Ala Cys Cys Gly Thr Gly Gly
 1345 1350 1355 1360
 Cys Cys Gly Cys Cys Cys Cys Cys Thr Cys Gly Gly Gly Ala Thr Cys
 1365 1370 1375
 Cys Gly Thr Gly Ala Gly Cys Gly Ala Cys Gly Thr Gly Cys Cys Ala
 1380 1385 1390
 Ala Gly Gly Ala Cys Cys Thr Cys Gly Ala Gly Gly Thr Gly Gly
 1395 1400 1405

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Thr Gly Gly Cys Ala Gly Cys Cys Ala Cys Thr Cys Cys Cys Ala Cys
 1410 1415 1420
 Cys Thr Cys Thr Cys Thr Gly Cys Thr Gly Ala Thr Cys Ala Gly Cys
 1425 1430 1435 1440
 Thr Gly Gly Gly Ala Cys Ala Cys Ala Cys Ala Ala Cys Gly
 1445 1450 1455
 Cys Cys Thr Ala Cys Ala Ala Cys Gly Gly Cys Thr Ala Cys Thr Ala
 1460 1465 1470
 Cys Ala Gly Gly Ala Thr Cys Ala Cys Cys Thr Ala Cys Gly Gly Ala
 1475 1480 1485
 Gly Ala Gly Ala Cys Cys Gly Gly Cys Gly Gly Cys Ala Ala Thr Ala
 1490 1495 1500
 Gly Cys Cys Cys Cys Gly Thr Gly Ala Gly Gly Gly Ala Gly Thr Thr
 1505 1510 1515 1520
 Cys Ala Cys Cys Gly Thr Gly Cys Cys Cys Cys Ala Cys Cys Cys Cys
 1525 1530 1535
 Gly Ala Gly Gly Thr Gly Ala Cys Cys Gly Cys Cys Ala Cys Cys Ala
 1540 1545 1550
 Thr Thr Ala Gly Cys Gly Gly Cys Cys Thr Gly Ala Ala Gly Cys Cys
 1555 1560 1565
 Cys Gly Gly Cys Gly Thr Gly Gly Ala Cys Gly Ala Thr Ala Cys Cys
 1570 1575 1580
 Ala Thr Cys Ala Cys Cys Gly Thr Cys Thr Ala Cys Gly Cys Cys Gly
 1585 1590 1595 1600
 Thr Gly Ala Cys Cys Ala Ala Cys Cys Ala Cys Cys Ala Cys Ala Thr
 1605 1610 1615
 Gly Cys Cys Cys Cys Thr Gly Ala Gly Gly Ala Thr Cys Thr Thr Cys
 1620 1625 1630
 Gly Gly Cys Cys Cys Ala Thr Cys Ala Gly Cys Ala Thr Cys Ala
 1635 1640 1645
 Ala Cys Cys Ala Thr Ala Gly Gly Ala Cys Cys
 1650 1655

<210> 133

<211> 547

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 133

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

[illegible]

<400>	134														
Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr
			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Glu	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120					125			
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135					140				
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185					190		
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				

Pro 225	Lys	Ser	Cys	Asp	Lys 230	Thr	His	Thr	Cys	Pro 235	Pro	Cys	Pro	Ala	Pro 240
Glu	Leu	Leu	Gly	Gly 245	Pro	Ser	Val	Phe	Leu 250	Phe	Pro	Pro	Lys	Pro 255	Lys
Asp	Thr	Leu	Met 260	Ile	Ser	Arg	Thr	Pro 265	Glu	Val	Thr	Cys	Val 270	Val	Val
Asp	Val	Ser 275	His	Glu	Asp	Pro	Glu 280	Val	Lys	Phe	Asn	Trp 285	Tyr	Val	Asp
Gly	Val 290	Glu	Val	His	Asn	Ala 295	Lys	Thr	Lys	Pro	Arg 300	Glu	Glu	Gln	Tyr
Asn 305	Ser	Thr	Tyr	Arg	Val 310	Val	Ser	Val	Leu	Thr 315	Val	Leu	His	Gln	Asp 320
Trp	Leu	Asn	Gly	Lys 325	Glu	Tyr	Lys	Cys	Lys 330	Val	Ser	Asn	Lys	Ala 335	Leu
Pro	Ala	Pro	Ile 340	Glu	Lys	Thr	Ile	Ser 345	Lys	Ala	Lys	Gly	Gln 350	Pro	Arg
Glu	Pro	Gln 355	Val	Tyr	Thr	Leu	Pro 360	Pro	Ser	Arg	Asp	Glu 365	Leu	Thr	Lys
Asn	Gln 370	Val	Ser	Leu	Thr	Cys 375	Leu	Val	Lys	Gly	Phe 380	Tyr	Pro	Ser	Asp
Ile 385	Ala	Val	Glu	Trp	Glu 390	Ser	Asn	Gly	Gln	Pro 395	Glu	Asn	Asn	Tyr	Lys 400
Thr	Thr	Pro	Pro	Val 405	Leu	Asp	Ser	Asp	Gly 410	Ser	Phe	Phe	Leu	Tyr 415	Ser
Lys	Leu	Thr	Val 420	Asp	Lys	Ser	Arg	Trp 425	Gln	Gln	Gly	Asn	Val 430	Phe	Ser
Cys	Ser	Val 435	Met	His	Glu	Ala	Leu 440	His	Asn	His	Tyr	Thr 445	Gln	Lys	Ser
Leu	Ser 450	Leu	Ser	Pro	Gly	Lys 455	Gly	Ser	Val	Ser	Asp 460	Val	Pro	Arg	Asp
Leu 465	Glu	Val	Val	Ala	Ala 470	Thr	Pro	Thr	Ser	Leu 475	Leu	Ile	Ser	Trp	Asp 480
Thr	His	Asn	Ala	Tyr 485	Asn	Gly	Tyr	Tyr	Arg 490	Ile	Thr	Tyr	Gly	Glu 495	Thr
Gly	Gly	Asn	Ser 500	Pro	Val	Arg	Glu	Phe 505	Thr	Val	Pro	His	Pro 510	Glu	Val
Thr	Ala	Thr 515	Ile	Ser	Gly	Leu	Lys 520	Pro	Gly	Val	Asp	Asp 525	Thr	Ile	Thr
Val	Tyr 530	Ala	Val	Thr	Asn	His 535	His	Met	Pro	Leu	Arg 540	Ile	Phe	Gly	Pro
Ile 545	Ser	Ile	Asn	His	Arg 550	Thr									

<210> 135
 <211> 557
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

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

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Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Val
Ser	Asp	Val	Pro	Arg	Asp	Leu	Glu	Val	Val	Ala	Ala	Thr	Pro	Thr	Ser
Leu	Leu	Ile	Ser	Trp	Asp	Thr	His	Asn	Ala	Tyr	Asn	Gly	Tyr	Tyr	Arg
Ile	Thr	Tyr	Gly	Glu	Thr	Gly	Gly	Asn	Ser	Pro	Val	Arg	Glu	Phe	Thr
Val	Pro	His	Pro	Glu	Val	Thr	Ala	Thr	Ile	Ser	Gly	Leu	Lys	Pro	Gly
Val	Asp	Asp	Thr	Ile	Thr	Val	Tyr	Ala	Val	Thr	Asn	His	His	Met	Pro
Leu	Arg	Ile	Phe	Gly	Pro	Ile	Ser	Ile	Asn	His	Arg	Thr			

<210> 136

<211> 537

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 136

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

Gly 145	Cys	Leu	Val	Lys	Asp 150	Tyr	Phe	Pro	Glu	Pro 155	Val	Thr	Val	Ser	Trp 160
Asn	Ser	Gly	Ala	Leu 165	Thr	Ser	Gly	Val	His 170	Thr	Phe	Pro	Ala	Val 175	Leu
Gln	Ser	Ser	Gly 180	Leu	Tyr	Ser	Leu	Ser 185	Ser	Val	Val	Thr	Val 190	Pro	Ser
Ser	Ser	Leu 195	Gly	Thr	Gln	Thr	Tyr 200	Ile	Cys	Asn	Val	Asn 205	His	Lys	Pro
Ser	Asn 210	Thr	Lys	Val	Asp	Lys 215	Lys	Val	Glu	Pro	Lys 220	Ser	Cys	Asp	Lys
Thr 225	His	Thr	Cys	Pro	Pro 230	Cys	Pro	Ala	Pro	Glu 235	Leu	Leu	Gly	Gly	Pro 240
Ser	Val	Phe	Leu	Phe 245	Pro	Pro	Lys	Pro	Lys 250	Asp	Thr	Leu	Met	Ile 255	Ser
Arg	Thr	Pro	Glu 260	Val	Thr	Cys	Val	Val 265	Val	Asp	Val	Ser	His 270	Glu	Asp
Pro	Glu	Val 275	Lys	Phe	Asn	Trp	Tyr 280	Val	Asp	Gly	Val	Glu 285	Val	His	Asn
Ala	Lys 290	Thr	Lys	Pro	Arg	Glu 295	Glu	Gln	Tyr	Asn	Ser 300	Thr	Tyr	Arg	Val
Val 305	Ser	Val	Leu	Thr	Val 310	Leu	His	Gln	Asp	Trp 315	Leu	Asn	Gly	Lys	Glu 320
Tyr	Lys	Cys	Lys	Val 325	Ser	Asn	Lys	Ala	Leu 330	Pro	Ala	Pro	Ile	Glu 335	Lys
Thr	Ile	Ser	Lys 340	Ala	Lys	Gly	Gln	Pro 345	Arg	Glu	Pro	Gln	Val 350	Tyr	Thr
Leu	Pro	Pro 355	Ser	Arg	Asp	Glu	Leu 360	Thr	Lys	Asn	Gln	Val 365	Ser	Leu	Thr
Cys	Leu 370	Val	Lys	Gly	Phe	Tyr 375	Pro	Ser	Asp	Ile	Ala 380	Val	Glu	Trp	Glu
Ser 385	Asn	Gly	Gln	Pro	Glu 390	Asn	Asn	Tyr	Lys	Thr 395	Thr	Pro	Pro	Val	Leu 400
Asp	Ser	Asp	Gly	Ser 405	Phe	Phe	Leu	Tyr	Ser 410	Lys	Leu	Thr	Val	Asp 415	Lys
Ser	Arg	Trp	Gln 420	Gln	Gly	Asn	Val	Phe 425	Ser	Cys	Ser	Val	Met 430	His	Glu
Ala	Leu	His 435	Asn	His	Tyr	Thr	Gln 440	Lys	Ser	Leu	Ser	Leu 445	Ser	Pro	Gly
Lys	Arg 450	Ser	Glu	Val	Val	Ala 455	Ala	Thr	Pro	Thr	Ser 460	Leu	Leu	Ile	Ser
Trp 465	Arg	His	Pro	His	Phe 470	Pro	Thr	Arg	Tyr	Tyr 475	Arg	Ile	Thr	Tyr	Gly 480
Glu	Thr	Gly	Gly	Asn 485	Ser	Pro	Val	Gln	Glu 490	Phe	Thr	Val	Pro	Leu 495	Gln
Pro	Pro	Thr	Ala 500	Thr	Ile	Ser	Gly	Leu 505	Lys	Pro	Gly	Val	Asp 510	Tyr	Thr
Ile	Thr	Val 515	Tyr	Ala	Val	Thr	Asp 520	Gly	Arg	Asn	Gly	Arg 525	Leu	Leu	Ser
Ile	Pro 530	Ile	Ser	Ile	Asn	Tyr 535	Arg	Thr							

<210> 137

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 137

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

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

<210> 138
 <211> 302
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

Asp	Ile	Leu	Leu	Thr	Gln	Ser	Pro	Val	Ile	Leu	Ser	Val	Ser	Pro	Gly			
1				5					10					15				
Glu	Arg	Val	Ser	Phe	Ser	Cys	Arg	Ala	25	Ser	Gln	Ser	Ile	Gly	Thr	Asn		
			20											30				
Ile	His	Trp	Tyr	Gln	Gln	Arg	Thr	Asn	Gly	Ser	Pro	Arg	Leu	Leu	Ile			
		35					40						45					
Lys	Tyr	Ala	Ser	Glu	Ser	Ile	Ser	Gly	Ile	Pro	Ser	Arg	Phe	Ser	Gly			
	50					55					60							
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Ser	Ile	Asn	Ser	Val	Glu	Ser			
65					70					75					80			
Glu	Asp	Ile	Ala	Asp	Tyr	Tyr	Cys	Gln	Gln	Asn	Asn	Asn	Trp	Pro	Thr			
				85					90					95				
Thr	Phe	Gly	Ala	Gly	Thr	Lys	Leu	Glu	Leu	Lys	Arg	Thr	Val	Ala	Ala			
			100					105					110					
Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly			
		115					120						125					
Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala			
	130					135					140							
Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln			
145					150					155					160			
Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser			
				165					170					175				
Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr			
			180					185					190					
Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser			
		195					200					205						
Phe	Asn	Arg	Gly	Glu	Cys	Arg	Ser	Glu	Val	Val	Ala	Ala	Thr	Pro	Thr			
	210					215					220							
Ser	Leu	Leu	Ile	Ser	Trp	Arg	His	Pro	His	Phe	Pro	Thr	Arg	Tyr	Tyr			
225					230					235					240			
Arg	Ile	Thr	Tyr	Gly	Glu	Thr	Gly	Gly	Asn	Ser	Pro	Val	Gln	Glu	Phe			
				245					250					255				
Thr	Val	Pro	Leu	Gln	Pro	Pro	Thr	Ala	Thr	Ile	Ser	Gly	Leu	Lys	Pro			
			260					265					270					
Gly	Val	Asp	Tyr	Thr	Ile	Thr	Val	Tyr	Ala	Val	Thr	Asp	Gly	Arg	Asn			
		275					280					285						
Gly	Arg	Leu	Leu	Ser	Ile	Pro	Ile	Ser	Ile	Asn	Tyr	Arg	Thr					
	290					295					300							

<210> 139
 <211> 449
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

Gln	Val	Gln	Leu	Lys	Gln	Ser	Gly	Pro	Gly	Leu	Val	Gln	Pro	Ser	Gln			
1				5					10					15				
Ser	Leu	Ser	Ile	Thr	Cys	Thr	Val	Ser	Gly	Phe	Ser	Leu	Thr	Asn	Tyr			

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Gly	Val	His	20	Trp	Val	Arg	Gln	Ser	25	Pro	Gly	Lys	Gly	Leu	30	Glu	Trp	Leu
		35						40						45				
Gly	Val	Ile	Trp	Ser	Gly	Gly	55	Asn	Thr	Asp	Tyr	Asn	60	Thr	Pro	Phe	Thr	
Ser	Arg	Leu	Ser	Ile	Asn	70	Lys	Asp	Asn	Ser	Lys	75	Ser	Gln	Val	Phe	Phe	80
65	Met	Asn	Ser	Leu	Gln	Ser	Asn	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys	Ala			
Lys		85												95				
Arg	Ala	Leu	Thr	Tyr	Tyr	Asp	Tyr	Glu	105	Phe	Ala	Tyr	Trp	Gly	Gln	Gly		
Thr	Leu	Val	Thr	Val	Ser	Ala	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe			
Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu			
	130																	
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	155	Val	Thr	Val	Ser	Trp		
145																		
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu			
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser			
Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro			
		195																
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys			
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro			
225																		
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser			
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp			
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn			
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val				
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu			
305																		
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys			
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr			
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr			
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu			
Ser	Asn	Gly	Gln	Pro	Glu													

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<210> 140
<211> 539
<212> PRT
<213> Artificial Sequence
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<220>
<223> Humanised

<div> <div><400></div> <div>140</div> </div>															
Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Gln
1				5					10					15	
Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Gly	Ser	Ile	Ser	Ser	Gly
			20					25					30		
Asp	Tyr	Tyr	Trp	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu
		35					40					45			
Trp	Ile	Gly	Tyr	Ile	Tyr	Tyr	Ser	Gly	Ser	Thr	Asp	Tyr	Asn	Pro	Ser
	50					55					60				
Leu	Lys	Ser	Arg	Val	Thr	Met	Ser	Val	Asp	Thr	Ser	Lys	Asn	Gln	Phe
65					70					75					80

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Ser Leu Lys Val Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Val Ser Ile Phe Gly Val Gly Thr Phe Asp Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Gly Ser Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu
 450 455 460
 Ile Ser Trp Arg His Pro His Phe Pro Thr Arg Tyr Tyr Arg Ile Thr
 465 470 475 480
 Tyr Gly Glu Thr Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro
 485 490 495
 Leu Gln Pro Pro Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp
 500 505 510
 Tyr Thr Ile Thr Val Tyr Ala Val Thr Asp Gly Arg Asn Gly Arg Leu
 515 520 525
 Leu Ser Ile Pro Ile Ser Ile Asn Tyr Arg Thr
 530 535

<210> 141

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 141

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

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

<210> 142
 <211> 302
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 142	Glu	Ile	Val	Met	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Leu	Ser	Pro	Gly
1				5						10					15	
	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Val	Ser	Ser	Tyr
			20						25					30		
	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	Ile
		35					40					45				
	Tyr	Asp	Ala	Ser	Asn	Arg	Ala	Thr	Gly	Ile	Pro	Ala	Arg	Phe	Ser	Gly
		50					55					60				
	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Glu	Pro
	65				70					75					80	
	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	His	Gln	Tyr	Gly	Ser	Thr	Pro	Leu
				85						90					95	
	Thr	Phe	Gly	Gly	Thr	Lys	Ala	Glu	Ile	Lys	Arg	Thr	Val	Ala	Ala	
			100					105					110			
	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly
		115					120					125				
	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala
		130					135					140				
	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Gln
	145				150					155					160	
	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser
				165						170					175	
	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr
			180						185					190		
	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser
		195						200					205			
	Phe	Asn	Arg	Gly	Glu	Cys	Gly	Ser	Glu	Val	Val	Ala	Ala	Thr	Pro	Thr
		210					215					220				
	Ser	Leu	Leu	Ile	Ser	Trp	Arg	His	Pro	His	Phe	Pro	Thr	Arg	Tyr	Tyr
	225				230					235					240	
	Arg	Ile	Thr	Tyr	Gly	Glu	Thr	Gly	Gly	Asn	Ser	Pro	Val	Gln	Glu	Phe
				245						250					255	
	Thr	Val	Pro	Leu	Gln	Pro	Pro	Thr	Ala	Thr	Ile	Ser	Gly	Leu	Lys	Pro
			260						265					270		
	Gly	Val	Asp	Tyr	Thr	Ile	Thr	Val	Tyr	Ala	Val	Thr	Asp	Gly	Arg	Asn
		275						280					285			
	Gly	Arg	Leu	Leu	Ser	Ile	Pro	Ile	Ser	Ile	Asn	Tyr	Arg	Thr		
		290					295					300				

<210> 143
 <211> 451
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Humanised

<400> 143

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
 1 5 10 15
 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
 20 25 30
 Asp Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asp Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Phe
 65 70 75 80
 Ser Leu Lys Val Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Ala Arg Val Ser Ile Phe Gly Val Gly Thr Phe Asp Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys
 450

<210> 144
 <211> 539
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Humanised

<400> 144

Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Arg His
 1 5 10 15

Pro	His	Phe	Pro	Thr	Arg	Tyr	Tyr	Arg	Ile	Thr	Tyr	Gly	Glu	Thr	Gly
Gly	Asn	Ser	Pro	Val	Gln	Glu	Phe	Thr	Val	Pro	Leu	Gln	Pro	Pro	Thr
Ala	Thr	Ile	Ser	Gly	Leu	Lys	Pro	Gly	Val	Asp	Tyr	Thr	Ile	Thr	Val
Tyr	Ala	Val	Thr	Asp	Gly	Arg	Asn	Gly	Arg	Leu	Leu	Ser	Ile	Pro	Ile
Ser	Ile	Asn	Tyr	Arg	Thr	Gly	Ser	Thr	Gly	Gln	Val	Gln	Leu	Lys	Gln
Ser	Gly	Pro	Gly	Leu	Val	Gln	Pro	Ser	Gln	Ser	Leu	Ser	Ile	Thr	Cys
Thr	Val	Ser	Gly	Phe	Ser	Leu	Thr	Asn	Tyr	Gly	Val	His	Trp	Val	Arg
Gln	Ser	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Leu	Gly	Val	Ile	Trp	Ser	Gly
Gly	Asn	Thr	Asp	Tyr	Asn	Thr	Pro	Phe	Thr	Ser	Arg	Leu	Ser	Ile	Asn
Lys	Asp	Asn	Ser	Lys	Ser	Gln	Val	Phe	Phe	Lys	Met	Asn	Ser	Leu	Gln
Ser	Asn	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys	Ala	Arg	Ala	Leu	Thr	Tyr	Tyr
Asp	Tyr	Glu	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser
Ala	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser
Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp
Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr
Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr
Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln
Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp
Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro
Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro
Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr
Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn
Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg
Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val
Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser
Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys
Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp
Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe
Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu
Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe
Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr
Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys					

<210> 145

<211> 303

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 145

Glu Val Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Arg His
 1 5 10 15
 Pro His Phe Pro Thr Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
 20 30
 Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Leu Gln Pro Pro Thr
 35 40 45
 Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile Thr Val
 50 55 60
 Tyr Ala Val Thr Asp Gly Arg Asn Gly Arg Leu Leu Ser Ile Pro Ile
 65 70 75 80
 Ser Ile Asn Tyr Arg Thr Ser Thr Gly Asp Ile Leu Leu Thr Gln Ser
 85 90 95
 Pro Val Ile Leu Ser Val Ser Pro Gly Glu Arg Val Ser Phe Ser Cys
 100 105 110
 Arg Ala Ser Gln Ser Ile Gly Thr Asn Ile His Trp Tyr Gln Gln Arg
 115 120 125
 Thr Asn Gly Ser Pro Arg Leu Leu Ile Lys Tyr Ala Ser Glu Ser Ile
 130 135 140
 Ser Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
 145 150 155 160
 Thr Leu Ser Ile Asn Ser Val Glu Ser Glu Asp Ile Ala Asp Tyr Tyr
 165 170 175
 Cys Gln Gln Asn Asn Asn Trp Pro Thr Thr Phe Gly Ala Gly Thr Lys
 180 185 190
 Leu Glu Leu Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
 195 200 205
 Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
 210 215 220
 Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
 225 230 235 240
 Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
 245 250 255
 Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
 260 265 270
 Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
 275 280 285
 Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 290 295 300

<210> 146

<211> 547

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 146

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

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Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Gly Ser Val Ser Asp Val Pro Arg Asp Leu Glu Val Val
 450 455 460
 Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Thr His Asn Ala
 465 470 475 480
 Tyr Asn Gly Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser
 485 490 495
 Pro Val Arg Glu Phe Thr Val Pro His Pro Glu Val Thr Ala Thr Ile
 500 505 510
 Ser Gly Leu Lys Pro Gly Val Asp Thr Ile Thr Val Tyr Ala Val
 515 520 525
 Thr Asn His His Met Pro Leu Arg Ile Phe Gly Pro Ile Ser Ile Asn
 530 535 540
 His Arg Thr
 545

<210> 147

<211> 553

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 147

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

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Val	Leu	Gln	Ser	165	Ser	Gly	Leu	Tyr	Ser	170	Leu	Ser	Ser	Val	175	Val	Thr	Val
Pro	Ser	Ser	180	Leu	Gly	Thr	Gln	185	Thr	Tyr	Ile	Cys	Asn	190	Val	Asn	His	
Lys	Pro	Ser	195	Asn	Thr	Lys	Val	200	Asp	Lys	Lys	Val	Glu	205	Pro	Lys	Ser	Cys
Asp	Lys	Thr	His	Thr	Cys	215	Pro	Pro	Cys	Pro	Ala	Pro	Glu	220	Leu	Leu	Gly	
Gly	Pro	Ser	Val	Phe	230	Leu	Phe	Pro	Pro	Lys	235	Pro	Lys	Asp	Thr	Leu	Met	
Ile	Ser	Arg	Thr	245	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	265	Trp	Tyr	Val	Asp	Gly	270	Val	Glu	Val	
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	280	Glu	Glu	Gln	Tyr	Asn	285	Ser	Thr	Tyr	
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	300	Asp	Trp	Leu	Asn	Gly		
Lys	Glu	Tyr	Lys	Cys	310	Lys	Val	Ser	Asn	Lys	315	Ala	Leu	Pro	Ala	Pro	Ile	
Glu	Lys	Thr	Ile	325	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Ser		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	345	Glu	Leu	Thr	Lys	Asn	350	Gln	Val	Ser	
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	360	Tyr	Pro	Ser	Asp	Ile	365	Ala	Val	Glu	
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	380	Lys	Thr	Thr	Pro	Pro		
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	395	Ser	Lys	Leu	Thr	Val		
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	410	Ser	Cys	Ser	Val	Met		
His	Glu	Ala	Leu	His	Asn	His	Tyr	425	Thr	Gln	Lys	Ser	Leu	430	Ser	Leu	Ser	
Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	440	Ser	Gly	Ser	Val	Ser	445	Asp	Val	Pro	
Arg	Asp	Leu	Glu	Val	Val	Ala	Ala	455	Thr	Pro	Thr	Ser	Leu	460	Leu	Ile	Ser	
Trp	Asp	Thr	His	Asn	Ala	Tyr	Asn	Gly	Tyr	475	Tyr	Arg	Ile	480	Thr	Tyr	Gly	
Glu	Thr	Gly	Gly	Asn	Ser	Pro	Val	Arg	Glu	Phe	490	Thr	Val	495	Pro	His	Pro	
Glu	Val	Thr	Ala	Thr	Ile	Ser	Gly	505	Leu	Lys	Pro	Gly	Val	510	Asp	Asp	Thr	
Ile	Thr	Val	Tyr	Ala	Val	Thr	Asn	520	His	His	Met	Pro	Leu	525	Arg	Ile	Phe	
Gly	Pro	Ile	Ser	Ile	Asn	His	Arg	Thr						540				
545					550													

<210> 148

<211> 118

<212> PRT

<213> Homo Sapiens

<400> 148

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

<210> 149

<211> 569
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 149

Gln	Val	Thr	Leu	Arg	Glu	Ser	Gly	Pro	Ala	Leu	Val	Lys	Pro	Thr	Gln
1				5					10					15	
Thr	Leu	Thr	Leu	Thr	Cys	Thr	Phe	Ser	Gly	Phe	Ser	Leu	Ser	Thr	Ser
			20					25					30		
Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu
		35					40					45			
Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser
	50					55					60				
Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val
65					70					75					80
Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr
				85					90					95	
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly
			100					105					110		
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150					155					160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
			180					185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Gly	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln
	450					455					460				
Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Val	Phe
465					470					475					480
Pro	Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu
				485					490					495	
Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp	His	Gly	Lys	Ile	Thr	Tyr	Tyr	Ala
			500					505					510		
Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn
		515					520					525			
Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val
	530					535					540				

Tyr Tyr Cys Ala Thr Ala Glu Asp Glu Pro Gly Tyr Asp Tyr Trp Gly
 545 550 555 560
 Gln Gly Thr Leu Val Thr Val Ser Ser

<210> 150
 <211> 575
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 150
 Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
 1 5 10 15
 Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
 20 25 30
 Gly Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Leu Ala His Ile Tyr Trp Asp Asp Lys Arg Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
 65 70 75 80
 Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95
 Cys Ala Arg Arg Glu Thr Val Phe Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Thr Val Ala Ala Pro Ser Gly Val Gln Leu Leu Glu Ser
 450 455 460
 Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 465 470 475 480
 Ala Ser Gly Phe Val Phe Pro Trp Tyr Asp Met Gly Trp Val Arg Gln

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Ala	Pro	Gly	Lys	485 Gly	Leu	Glu	Trp	Val	490 Ser	Ser	Ile	Asp	Trp	495 His	Gly
Lys	Ile	Thr	500 Tyr	Tyr	Ala	Asp	Ser	505 Val	Lys	Gly	Arg	Phe	510 Thr	Ile	Ser
Arg	Asp	Asn	515 Ser	Lys	Asn	Thr	Leu	520 Tyr	Leu	Gln	Met	Asn	525 Ser	Leu	Arg
Ala	Glu	Asp	530 Thr	Ala	Val	Tyr	Tyr	535 Cys	Ala	Thr	Ala	Glu	540 Asp	Glu	Pro
545 Gly	Tyr	Asp	Tyr	550 Trp	Gly	Gln	Gly	555 Thr	Leu	Val	Thr	Val	560 Ser	Ser	560
				565				570						575	

<210> 151

<211> 579

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 151

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Phe	Tyr	Ile	Lys	Asp	Thr
			20					25					30		
Tyr	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Thr	Ile	Asp	Pro	Ala	Asn	Gly	Asn	Thr	Lys	Tyr	Val	Pro	Lys	Phe
	50					55					60				
Gln	Gly	Arg	Val	Thr	Met	Thr	Thr	Asp	Thr	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85				90						95	
Ala	Arg	Ser	Ile	Tyr	Asp	Asp	Tyr	His	Tyr	Asp	Asp	Tyr	Tyr	Ala	Met
			100					105					110		
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr
		115					120					125			
Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
	130					135					140				
Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
145					150					155					160
Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His
				165					170					175	
Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser
			180					185						190	
Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys
		195					200					205			
Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu
	210					215					220				
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
225					230					235					240
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
			245						250					255	
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
			260					265					270		
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
		275					280					285			
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
	290					295					300				
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
305					310					315					320
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
				325					330					335	
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
			340					345					350		
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys
		355					360					365			
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
	370					375					380				
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410					415	
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
			420					425					430		

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
 435 440 445
 Leu Ser Leu Ser Pro Gly Lys Thr Val Ala Ala Pro Ser Gly Ser Glu
 450 455 460
 Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
 465 470 475 480
 Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Asn Phe Gly
 485 490 495
 Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
 500 505 510
 Trp Ile Ile Ser Ser Gly Thr Glu Thr Tyr Tyr Ala Asp Ser Val Lys
 515 520 525
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
 530 535 540
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala
 545 550 555 560
 Lys Ser Leu Gly Arg Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
 565 570 575
 Val Ser Ser

<210> 152

<211> 579

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 152

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Phe Tyr Ile Lys Asp Thr
 20 25 30
 Tyr Met His Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Asp Pro Ala Asn Gly Asn Thr Lys Tyr Val Pro Lys Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Ile Tyr Asp Asp Tyr His Tyr Asp Asp Tyr Tyr Ala Met
 100 105 110
 Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr
 115 120 125
 Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser
 130 135 140
 Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu
 145 150 155 160
 Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His
 165 170 175
 Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser
 180 185 190
 Val Val Thr Val Pro Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys
 195 200 205
 Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu
 210 215 220
 Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro
 225 230 235 240
 Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 245 250 255
 Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
 260 265 270
 Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp
 275 280 285
 Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr
 290 295 300
 Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
 305 310 315 320
 Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 325 330 335
 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
 340 345 350
 Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys

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Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
355	370					375	360				380	365			
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
385					390					395					400
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
				405					410					415	
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
			420					425					430		
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
		435					440					445			
Leu	Ser	Leu	Ser	Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Glu
	450					455					460				
Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser
465					470					475					480
Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Arg	Asn	Phe	Gly
				485					490					495	
Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser
			500					505					510		
Trp	Ile	Ile	Ser	Ser	Gly	Thr	Glu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys
		515					520					525			
Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu
	530					535					540				
Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala
545					550					555					560
Lys	Ser	Leu	Gly	Arg	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr
				565					570					575	
Val	Ser	Ser													

<210> 153
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 153

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

<210> 154
 <211> 219
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Humanised

<400> 154

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

<210> 155

<211> 571

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 155

Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Ile	Asp	Tyr
			20					25					30		
Glu	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ala	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	Tyr	Asn	Gln	Lys	Phe
	50					55				60					
Lys	Gly	Arg	Val	Thr	Met	Thr	Thr	Asp	Thr	Ser	Thr	Ser	Thr	Ala	Tyr
65					70				75						80
Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Thr	Arg	Ile	Leu	Leu	Tyr	Tyr	Tyr	Pro	Met	Asp	Tyr	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
		115					120					125			
Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu
	130					135					140				
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp
145					150					155					160
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
				165					170					175	
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
			180					185					190		
Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro
		195					200					205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys
	210					215					220				
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
225					230					235					240
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
				245					250					255	
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
			260					265					270		

Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	
		275					280					285				
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	
	290					295					300					
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	
	305				310					315					320	
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	
				325					330					335		
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	
			340					345					350			
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	
		355					360					365				
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	
	370					375					380					
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	
	385				390					395					400	
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	
				405					410					415		
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	
			420					425					430			
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	
		435					440					445				
Lys	Thr	Val	Ala	Ala	Pro	Ser	Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	
	450					455					460					
Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	
	465				470					475					480	
Gly	Phe	Thr	Phe	Arg	Asn	Phe	Gly	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	
				485					490					495		
Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Trp	Ile	Ile	Ser	Ser	Gly	Thr	Glu	
			500					505					510			
Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	
		515					520					525				
Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	
	530					535					540					
Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Ser	Leu	Gly	Arg	Phe	Asp	Tyr	
	545				550					555					560	
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser						
				565					570							

<210> 156

<211> 214

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 156

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

<210> 157
 <211> 575
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 157
 Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
 1 5 10 15
 Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
 20 25 30
 Gly Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Leu Ala His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
 65 70 75 80
 Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95
 Cys Ala Arg Arg Glu Thr Val Phe Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 340 345 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 355 360 365
 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 370 375 380
 Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 385 390 395 400
 Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Thr Val Ala Ala Pro Ser Gly Val Gln Leu Leu Glu Ser
 450 455 460
 Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 465 470 475 480
 Ala Ser Gly Phe Val Phe Pro Trp Tyr Asp Met Gly Trp Val Arg Gln
 485 490 495
 Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Asp Trp Lys Gly
 500 505 510

Gly	Lys	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	
		515					520					525				
Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	
	530					535					540					
Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp	Glu	Pro	
545					550					555					560	
Gly	Tyr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
				565					570					575		

<210> 158

<211> 569

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 158

Gln	Val	Thr	Leu	Arg	Glu	Ser	Gly	Pro	Ala	Leu	Val	Lys	Pro	Thr	Gln	
1				5					10					15		
Thr	Leu	Thr	Leu	Thr	Cys	Thr	Phe	Ser	Gly	Phe	Ser	Leu	Ser	Thr	Ser	
			20					25					30			
Gly	Met	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	Glu	
		35					40					45				
Trp	Leu	Ala	His	Ile	Tyr	Trp	Asp	Asp	Asp	Lys	Arg	Tyr	Asn	Pro	Ser	
	50					55					60					
Leu	Lys	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Arg	Asn	Gln	Val	
65					70					75					80	
Val	Leu	Thr	Met	Thr	Asn	Met	Asp	Pro	Val	Asp	Thr	Ala	Thr	Tyr	Tyr	
				85					90					95		
Cys	Ala	Arg	Arg	Glu	Thr	Val	Phe	Tyr	Trp	Tyr	Phe	Asp	Val	Trp	Gly	
			100					105					110			
Arg	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	
		115					120					125				
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	
	130					135					140					
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	
145					150					155					160	
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	
				165					170					175		
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	
			180					185					190			
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	
		195					200					205				
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	
	210					215					220					
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	
225					230					235					240	
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	
				245					250					255		
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	
			260					265					270			
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	
		275					280					285				
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	
	290					295					300					
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	
305					310					315					320	
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	
				325					330					335		
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	
			340					345					350			
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	
		355					360					365				
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	
	370					375					380					
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	
385					390					395					400	
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	
				405					410					415		
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	
			420					425					430			
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	
		435					440					445				
Pro	Gly	Lys	Gly	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	

											PB62748				
	450					455					460				
Pro 465	Gly	Gly	Ser	Leu	Arg 470	Leu	Ser	Cys	Ala	Ala 475	Ser	Gly	Phe	Val	Phe 480
Pro	Trp	Tyr	Asp	Met 485	Gly	Trp	Val	Arg	Gln 490	Ala	Pro	Gly	Lys	Gly 495	Leu
Glu	Trp	Val	Ser 500	Ser	Ile	Asp	Trp	Lys 505	Gly	Gly	Lys	Thr	Tyr 510	Tyr	Ala
Asp	Ser	Val 515	Lys	Gly	Arg	Phe	Thr 520	Ile	Ser	Arg	Asp	Asn 525	Ser	Lys	Asn
Thr	Leu 530	Tyr	Leu	Gln	Met	Asn 535	Ser	Leu	Arg	Ala	Glu 540	Asp	Thr	Ala	Val
Tyr 545	Tyr	Cys	Ala	Thr	Ala 550	Glu	Asp	Glu	Pro	Gly 555	Tyr	Asp	Tyr	Trp	Gly 560
Gln	Gly	Thr	Leu	Val 565	Thr	Val	Ser	Ser							

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 405 410 415
 Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 420 425 430
 His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
 435 440 445
 Pro Gly Lys Thr Val Ala Ala Pro Ser Gly Val Gln Leu Leu Glu Ser
 450 455 460
 Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
 465 470 475 480
 Ala Ser Gly Phe Val Phe Ala Trp Tyr Asp Met Gly Trp Val Arg Gln
 485 490 495
 Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Asp Trp His Gly
 500 505 510
 Glu Val Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 515 520 525
 Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
 530 535 540
 Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Thr Ala Glu Asp Glu Pro
 545 550 555 560
 Gly Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 565 570 575

<210> 160

<211> 569

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 160

Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
 1 5 10 15
 Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
 20 25 30
 Gly Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
 35 40 45
 Trp Leu Ala His Ile Tyr Trp Asp Asp Lys Arg Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
 65 70 75 80
 Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95
 Cys Ala Arg Arg Glu Thr Val Phe Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110
 Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
 115 120 125
 Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala
 130 135 140
 Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
 145 150 155 160
 Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
 165 170 175
 Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
 180 185 190
 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His
 195 200 205
 Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys
 210 215 220
 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly
 225 230 235 240
 Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 245 250 255
 Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 260 265 270
 Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 275 280 285
 His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 290 295 300
 Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 305 310 315 320
 Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 325 330 335
 Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val

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Tyr	Thr	Leu 340	Pro	Pro	Ser	Arg	Asp 360	Glu	Leu	Thr	Lys	Asn 365	Gln	Val	Ser
Leu	Thr 370	Cys	Leu	Val	Lys	Gly 375	Phe	Tyr	Pro	Ser	Asp 380	Ile	Ala	Val	Glu
Trp 385	Glu	Ser	Asn	Gly	Gln 390	Pro	Glu	Asn	Asn	Tyr 395	Lys	Thr	Thr	Pro	Pro 400
Val	Leu	Asp	Ser	Asp 405	Gly	Ser	Phe	Phe	Leu 410	Tyr	Ser	Lys	Leu	Thr 415	Val
Asp	Lys	Ser	Arg 420	Trp	Gln	Gln	Gly	Asn 425	Val	Phe	Ser	Cys	Ser 430	Val	Met
His	Glu	Ala 435	Leu	His	Asn	His	Tyr 440	Thr	Gln	Lys	Ser	Leu 445	Ser	Leu	Ser
Pro	Gly 450	Lys	Gly	Val	Gln	Leu 455	Leu	Glu	Ser	Gly	Gly 460	Gly	Leu	Val	Gln
Pro 465	Gly	Gly	Ser	Leu	Arg 470	Leu	Ser	Cys	Ala	Ala 475	Ser	Gly	Phe	Val	Phe 480
Ala	Trp	Tyr	Asp	Met 485	Gly	Trp	Val	Arg	Gln 490	Ala	Pro	Gly	Lys	Gly 495	Leu
Glu	Trp	Val	Ser 500	Ser	Ile	Asp	Trp	His 505	Gly	Glu	Val	Thr	Tyr 510	Tyr	Ala
Asp	Ser	Val 515	Lys	Gly	Arg	Phe	Thr 520	Ile	Ser	Arg	Asp	Asn 525	Ser	Lys	Asn
Thr	Leu 530	Tyr	Leu	Gln	Met	Asn 535	Ser	Leu	Arg	Ala	Glu 540	Asp	Thr	Ala	Val
Tyr 545	Tyr	Cys	Ala	Thr	Ala 550	Glu	Asp	Glu	Pro	Gly 555	Tyr	Asp	Tyr	Trp	Gly 560
Gln	Gly	Thr	Leu	Val 565	Thr	Val	Ser	Ser							

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<210> 161
<211> 449
<212> PRT
<213> Artificial Sequence
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<220>
<223> Humanised

<400>	161														
Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala
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Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Ile	Asp	Tyr
			20					25					30		
Glu	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ala	Ile	Asp	Pro	Glu	Thr	Gly	Gly	Thr	Ala	Tyr	Asn	Gln	Lys	Phe
	50					55					60				
Lys	Gly	Arg	Val	Thr	Met	Thr	Thr	Asp	Thr	Ser	Thr	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Asp	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Thr	Arg	Ile	Leu	Leu	Tyr	Tyr	Tyr	Pro	Met	Asp	Tyr	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
		115					120					125			
Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu
	130					135					140				
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp
145					150					155					160
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
				165					170					175	
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
			180					185					190		
Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro
		195					200					205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys
	210					215					220				
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
225					230					235					240
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
				245					250					255	
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
			260					265					270		
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
		275					280					285			

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Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 290 295 300
 Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 305 310 315 320
 Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
 325 330 335
 Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 340 345 350
 Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr
 355 360 365
 Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 370 375 380
 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 385 390 395 400
 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 405 410 415
 Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 420 425 430
 Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 435 440 445
 Lys

<210> 162

<211> 1707

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 162

gaggtgcagc	tgttgagatc	tgggggaggc	ttggtacagc	ctgggggggtc	cctgcgtctc	60
tcctgtgcag	cctccgatt	cacctttggg	gcttatccga	tgatgtgggt	ccgccaggct	120
ccagggaagg	gtctagagt	ggtctcagag	atttcgcctt	cgggttctta	tacatactac	180
gcagactccg	tgaagggccg	gttcaccatc	tcccgcgaca	attccaagaa	cacgctgtat	240
ctgcaaata	acagcctgcg	tgccgaggac	accgcggtat	attactgtgc	gaaagatcct	300
cggaaagttg	actactgggg	tcagggaacc	ctgggtcaccg	tctcgagcgc	tagcaccaag	360
ggccccagcg	aggtgcagct	gttgagatct	gggggaggct	tggtacagcc	tgggggggtcc	420
ctgcgtctct	cctgtgcagc	ctccggattc	acctttagca	gctatgccat	gagctgggtc	480
cgccaggctc	cagggaagg	tctagagtgg	gtctcagcta	ttagtggtag	tggtggtagc	540
acatactacg	cagactccgt	gaagggccgg	ttcaccatct	cccgcgacaa	ttccaagaac	600
acgctgtatc	tgcaaata	cagcctgcgt	gccgaggaca	ccgcggtata	ttactgtgcg	660
aaaagttatg	gtgcttttga	ctactggggc	cagggaaccc	tggtcaccgt	ctcgagcgct	720
agcaccagg	gccccagcgt	gttccccctg	gccccagca	gcaagagcac	cagcggcggc	780
acagccgccc	tgggctgcct	ggtgaaggag	tacttccccg	agcctgtgac	cggtgcctgg	840
aatagcggag	ccctgacctc	cggcgtgcac	accttccccg	ccgtgctgca	gagcagcggc	900
ctgtactccc	tgagcagcgt	ggtgaccgtg	cccagcagca	gcctgggcac	ccagacctac	960
atctgcaacg	tgaaccacaa	gcccagcaac	accaaagtgg	acaagaaagt	ggagcccaag	1020
agctgcgata	agaccacac	ctgccccccc	tgccctgccc	ccgagctgct	gggcggacct	1080
agcgtgttcc	tgttcccccc	caagcctaag	gacaccctga	tgatcagcag	gacccccgaa	1140
gtgacctgcg	tggtggtgga	tgtgagccac	gaggaccctg	aagtgaagtt	caactggtac	1200
gtggacggcg	tggaagtgca	caacgccaa	accaagccca	gagaggagca	gtacaacagc	1260
acctaccgcg	tggtgtctgt	gctgaccgtg	ctgcaccagg	attggctgaa	cggcaaggag	1320
tacaagtgca	aagttagcaa	caaggccctg	cctgccccct	tcgagaaaac	catcagcaag	1380
gccaaaggcc	agcctagaga	gccccaggtc	tacacctgc	ctccctccag	agatgagctg	1440
accaagaacc	aggtgtccct	gacctgtctg	tggaagggtc	tctaccccag	cgacatcgcc	1500
gtggagtggg	agagcaacgg	ccagcccag	aacaactaca	agaccacccc	ccctgtgctg	1560
gacagcgatg	gcagcttctt	cctgtactcc	aagctgaccg	tggaacaagag	cagatggcag	1620
cagggcaacg	tggtcagctg	cagcgtgatg	cacgaggccc	tgcaaatca	ctacaccag	1680
aagagtctga	gcctgtcccc	tggcaag				1707

<210> 163

<211> 569

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 163

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Ala Tyr
 20 25 30

Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Glu	Ile	Ser	Pro	Ser	Gly	Ser	Tyr	Thr	Tyr	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Lys	Asp	Pro	Arg	Lys	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
			100					105					110		
Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Glu	Val	Gln	Leu	Leu
		115					120					125			
Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser
	130					135					140				
Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Ala	Met	Ser	Trp	Val
145					150					155					160
Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ala	Ile	Ser	Gly
				165					170					175	
Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr
			180					185					190		
Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser
		195					200					205			
Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Ser	Tyr	Gly
	210					215					220				
Ala	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala
225					230					235					240
Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser
				245					250					255	
Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe
			260					265					270		
Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly
		275					280					285			
Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu
	290					295					300				
Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr
305					310					315					320
Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys
				325					330					335	
Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro
			340					345					350		
Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys
		355					360					365			
Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val
	370					375					380				
Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr
385					390					395					400
Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu
				405					410					415	
Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His
			420					425					430		
Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys
		435					440					445			
Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln
	450					455					460				
Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu
465					470					475					480
Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro
				485					490					495	
Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn
			500					505					510		
Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu
		515					520					525			
Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val
	530					535					540				
Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln
545					550					555					560
Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys							
				565											

<210> 164

<211> 1704

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 164

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caggtgcagc tgaagcagag cggccctggc ctggtgcagc cctctcagag cctgagcatc 60
acctgtaccg tgagcggcct cagcctgacc aattacggcg tgcattgggt gcggcagtct 120
ccaggcaagg gcctggaatg gctgggagtg atctgggtccg gcggcaacac cgactacaac 180
accccccttca ccagcagact gagcatcaac aaggacaaca gcaagagcca ggtgttcttc 240
aagatgaaca gcctgcagag caacgacacc gccatctact attgtgccag ggccctgacc 300
tactacgact acgagttcgc ctactggggc cagggcaccc tggtgaccgt gagcgccgct 360
agcaccaagg gccccagcgt gttccccctg gccccagca gcaagagcac cagcggcggc 420
acagccgccc tgggctgcct ggtgaaggac tacttccccg agcctgtgac cgtgtcctgg 480
aatagcggag ccctgacctc cggcgtgcac accttccccg ccgtgctgca gagcagcggc 540
ctgtactccc tgagcagcgt ggtgaccgtg cccagcagca gcctgggcac ccagacctac 600
atctgcaacg tgaaccacaa gcccagcaac accaaagtgg acaagaaagt ggagcccaag 660
agctgcgata agaccacac ctgccccccc tgccctgccc ccgagctgct gggcggacct 720
agcgtgttcc tgttcccccc caagcctaag gacaccctga tgatcagcag gacccccgaa 780
gtgacctgcg tgggtgggga tgtgagccac gaggaccctg aagtgaagtt caactggtag 840
gtggacggcg tggaaagtgc caacgccaag accaagccca gagaggagca gtacaacagc 900
acctaccgcg tgggtgtctgt gctgaccgtg ctgcaccagg attggctgaa cggcaaggag 960
tacaagtgca aagtgagcaa caaggccctg cctgccccct tgcagaaaac catcagcaag 1020
gccaagggcc agcctagaga gccccaggtc tacaccctgc ctccctccag agatgagctg 1080
accaagaacc aggtgtccct gacctgtctg gtgaagggtc tctaccccag cgacatcgcc 1140
gtggagtggg agagcaacgg ccagcccag aacaactaca agaccacccc ccctgtgctg 1200
gacagcgatg gcagcttctt cctgtactcc aagctgaccg tggacaagag cagatggcag 1260
cagggcaacg tgttcagctg cagcgtgatg cagcaggccc tgcacaatca ctacaccag 1320
aagagtctga gcctgtcccc tggcaagtcg accggtgagg tgcagctgtt ggtgtctggg 1380
ggaggcttgg tacagcctgg ggggtccctg cgtctctcct gtgcagcctc cggattcacc 1440
titaaggctt atccgatgat gtgggtccgc caggctccag ggaaggggtc agagtgggtt 1500
tcagagattt cgccttcggg ttcttatata tactacgcag actccgtgaa gggccgggtt 1560
accatctccc gcgacaattc caagaacacg ctgtatctgc aaatgaacag cctgcgtgcc 1620
gaggacaccg cggtatatta ctgtgcgaaa gatcctcgga agttagacta ctggggtcag 1680
ggaaccctgg tcaccgtctc gagc 1704

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<210> 165

<211> 568

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 165

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Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
 1          5          10          15
Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Tyr
          20          25          30
Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
          35          40          45
Gly Val Ile Trp Ser Gly Gly Asn Thr Asp Tyr Asn Thr Pro Phe Thr
          50          55          60
Ser Arg Leu Ser Ile Asn Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
65          70          75          80
Lys Met Asn Ser Leu Gln Ser Asn Asp Thr Ala Ile Tyr Tyr Cys Ala
          85          90          95
Arg Ala Leu Thr Tyr Tyr Asp Tyr Glu Phe Ala Tyr Trp Gly Gln Gly
          100          105          110
Thr Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe
          115          120          125
Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
          130          135          140
Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145          150          155          160
Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
          165          170          175
Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
          180          185          190
Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
          195          200          205
Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
210          215          220
Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
225          230          235          240
Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
          245          250          255
Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
          260          265          270

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Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 275 280 285
 Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 290 295 300
 Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 305 310 315 320
 Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
 325 330 335
 Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 340 345 350
 Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr
 355 360 365
 Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 370 375 380
 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 385 390 395 400
 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 405 410 415
 Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 420 425 430
 Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 435 440 445
 Lys Ser Thr Gly Glu Val Gln Leu Leu Val Ser Gly Gly Leu Val
 450 455 460
 Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
 465 470 475 480
 Phe Lys Ala Tyr Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly
 485 490 495
 Leu Glu Trp Val Ser Glu Ile Ser Pro Gly Ser Tyr Thr Tyr Tyr
 500 505 510
 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
 515 520 525
 Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
 530 535 540
 Val Tyr Tyr Cys Ala Lys Asp Pro Arg Lys Leu Asp Tyr Trp Gly Gln
 545 550 555 560
 Gly Thr Leu Val Thr Val Ser Ser

<210> 166

<211> 451

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 166

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

210	215	220	
Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly			
225	230	235	240
Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met			
	245	250	255
Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His			
	260	265	270
Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val			
	275	280	285
His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr			
	290	295	300
Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly			
305	310	315	320
Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile			
	325	330	335
Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val			
	340	345	350
Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser			
	355	360	365
Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu			
	370	375	380
Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro			
385	390	395	400
Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val			
	405	410	415
Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met			
	420	425	430
His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser			
	435	440	445
Pro Gly Lys			
450			

<210> 167
 <211> 1737
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 167
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 agctgcaagg cctccggcct ctacatcaag gacacctaca tgcactgggt caggcagggt 120
 cctggccagg gcctggagtg gatgggcact atcgaccccc ccaacggcaa caccaagtac 180
 gtgcccaagt tccagggcag ggtgaccatc accgccgatg agagcaccag caccgcctac 240
 atggaactga gcagcctgag gtctgaggac accgccgtgt actattgctg caggagcatc 300
 tacgacgact accactacga cgactactac gccatggact actggggaca gggcacacta 360
 gtgaccgtgt ccagcgccag caccaagggc cccagcgtgt tccccctggc cccagcagc 420
 aagagcacca gcggcgccac agccgccctg ggctgccttg tgaaggacta cttccccgaa 480
 ccggtgaccg tgtcctggaa cagcggagcc ctgaccagcg gcgtgcacac cttccccgcc 540
 gtgctgcaga gcagcgccct gtacagcctg agcagcgtgg tgaccgtgcc cagcagcagc 600
 ctgggcaccc agacctacat ctgtaacgtg aaccacaagc ccagcaacac caaggtggac 660
 aagaaggtgg agcccaagag ctgtgacaag acccacacct gccccccctg cctgcccc 720
 gagctgctgg gaggccccag cgtgttcctg ttcccccca agcctaagga caccctgatg 780
 atcagcagaa cccccgaggt gacctgtgtg gtggtggatg tgagccacga ggaccctgag 840
 gtgaagttaa actggtacgt ggagggcgtg gagggtgcaca atgccaagac caagcccagg 900
 gaggagcagt acaacagcac ctaccgggtg gtgtccgtgc tgaccgtgct gcaccaggat 960
 tggctgaacg gcaaggagta caagtgtgag gtgtccaaca aggccctgcc tgcccctatc 1020
 gagaaaacca tcagcaaggc caagggccag cccagagagc cccaggtgta caccctgccc 1080
 cctagcagag atgagctgac caagaaccag gtgtccctga cctgcctggg gaagggcttc 1140
 taccacagcg acatcgccgt ggagtgggag agcaacggcc agcccgagaa caactacaag 1200
 accaccccc ctgtgctgga cagcgtatgg agcttcttcc tgtacagcaa gctgaccgtg 1260
 gacaagagca gatggcagca gggcaacgtg ttcagctgct ccgtgatgca cgaggccctg 1320
 cacaatcact acaccagaa gagcctgagc ctgtccccctg gcaagaccgt ggccgcccc 1380
 tcgggatccg aagtgcagct cctggagagc ggcgccggcc tgggtgcagcc cggcggcagc 1440
 ctgaggctga gctgcgccg tagcggcttc accttcagga acttcggcat gggctgggtc 1500
 aggcaggccc ccggcaaggg cctggagtgg gtcagctgga tcacagctc cggcaccgag 1560
 acctactacc ccgacagcgt gaagggcagg ttcacatca cccgcgacaa cagcaagaac 1620
 accctgtacc tgcagatgaa cgcagtgagg cccgaggaca ccgccgtcta ctactgcgc 1680
 aagagcctgg gcaggttcga ctactgggga caggggaccc tgggtgactgt gagcagc 1737

<210> 168
 <211> 1710
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Humanised

<400> 168

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agctgtgccg	ccagcggcct	caccttcgac	gactacgcc	tgcactgggt	gaggcaggcc	120
cctggcaagg	gcctggagtg	ggtgtccgcc	atcacctgga	atagcggcca	catcgactac	180
gccgacagcg	tggagggcag	attcaccatc	agccgggaca	acgccaagaa	cagcctgtac	240
ctgcagatga	acagcctgag	agccgaggac	accgccgtgt	actactgtgc	caaggtgtcc	300
tacctgagca	ccgccagcag	cctggactac	tggggccagg	gcaccctggg	gacagtctcg	360
agcgctagca	ccaagggccc	cagcgtgttc	cccctggccc	ccagcagcaa	gagcaccagc	420
ggcggcacag	ccgccctggg	ctgcctggtg	aaggactact	tccccgagcc	tgtgaccgtg	480
tcctggaata	gcggagccct	gacctccggc	gtgcacacct	tccccgccgt	gctgcagagc	540
agcggcctgt	actccctgag	cagcgtggtg	accgtgcccc	gcagcagcct	gggcacccag	600
acctacatct	gcaacgtgaa	ccacaagccc	agcaaacacca	aagtggacaa	gaaagtggag	660
cccaagagct	gcgataagac	ccacacctgc	ccccctgcc	ctgccccga	gctgctgggc	720
ggacctagcg	tgttcctggt	cccccccaag	cctaaggaca	ccctgatgat	cagcaggacc	780
cccgaagtga	cctgcgtggt	ggtggatgtg	agccacgagg	accctgaagt	gaagttcaac	840
tggtacgtgg	acggcgtgga	agtgcacaac	gccaaagacca	agcccagaga	ggagcagtag	900
aacagcacct	accgcgtggt	gtctgtgtctg	accgtgtctg	accaggattg	gctgaacggc	960
aaggagtaca	agtgcaaagt	gagcaacaag	gccctgcctg	cccctatcga	gaaaaccatc	1020
agcaaggcca	agggccagcc	tagagagccc	caggtctaca	ccctgcctcc	ctccagagat	1080
gagctgacca	agaaccaggt	gtccctgacc	tgtctggtga	agggcttcta	ccccagcgac	1140
atcgccgtgg	agtgggagag	caacggccag	cccagagaaca	actacaagac	cacccccct	1200
gtgctggaca	gcgatggcag	cttcttcctg	tactccaagc	tgaccgtgga	caagagcaga	1260
tggcagcagg	gcaacgtggt	cagctgcagc	gtgatgcacg	aggccctgca	caatcactac	1320
accagaaga	gtctgagcct	gtccccctggc	aagctgaccg	gtgaggtgca	gctgttggtg	1380
tctgggggag	gcttggtaca	gcctgggggg	tccctgcgtc	tctcctgtgc	agcctccgga	1440
ttcaccttta	aggcttatcc	gatgatgtgg	gtccgccagg	ctccagggaa	gggtctagag	1500
tgggtttcag	agatttcgcc	ttcgggttct	tatacatact	acgcagactc	cgtgaagggc	1560
cggttcacca	tctcccgcga	caattccaag	aacacgctgt	atctgcaaat	gaacagcctg	1620
cgtgccgagg	acaccgcggt	atattactgt	gcgaaagatc	ctcgggaagt	agactactgg	1680
ggtcagggaa	ccctggtcac	cgtctcgagc				1710

<210> 169
<211> 642
<212> DNA
<213> Artificial Sequence

<220>
<223> Humanised

<400> 169

gatatccaga	tgaccagag	ccccagcagc	ctgagcgcct	ctgtgggcga	tagagtgacc	60
atcacctgcc	gggccagcca	gggcatcaga	aactacctgg	cctggtatca	gcagaagcct	120
ggcaaggccc	ctaagctgct	gatctacgcc	gccagcacc	tgagagcg	cgtgccagc	180
agattcagcg	gcagcggctc	cggcaccgac	ttcacctga	ccatcagcag	cctgcagccc	240
gaggacgtgg	ccacctacta	ctgccagcgg	tacaacagag	ccccttacac	cttcggccag	300
ggcaccaagg	tggagatcaa	gcgtacggtg	gccgccccca	gcgtgttcat	cttccccccc	360
agcgatgagc	agctcaagag	cggcaccgcc	agcgtggtgt	gtctgctgaa	caacttctac	420
ccccggggag	ccaaagtgca	gtggaaagtg	gacaacgccc	tgagagcg	caacagccag	480
gagagcgtga	ccgagcagga	cagcaaggac	tccacctaca	gcctgagcag	caccctgacc	540
ctgagcaagg	ccgactacga	gaagcaca	gtgtacgcct	gcgaagtgac	ccaccagggc	600
ctgtccagcc	ccgtgaccaa	gagcttcaac	cggggcgagt	gc		642

<210> 170
<211> 1686
<212> DNA
<213> Artificial Sequence

<220>
<223> Humanised

<400> 170

gaggtgcagc	tggtggagtc	tggcggcgga	ctggtgcagc	ccggcagaag	cctgagactg	60
agctgtgccg	ccagcggcct	caccttcgac	gactacgcc	tgcactgggt	gaggcaggcc	120
cctggcaagg	gcctggagtg	ggtgtccgcc	atcacctgga	atagcggcca	catcgactac	180
gccgacagcg	tggagggcag	attcaccatc	agccgggaca	acgccaagaa	cagcctgtac	240
ctgcagatga	acagcctgag	agccgaggac	accgccgtgt	actactgtgc	caaggtgtcc	300
tacctgagca	ccgccagcag	cctggactac	tggggccagg	gcaccctggg	gacagtctcg	360
agcgctagca	ccaagggccc	cagcgtgttc	cccctggccc	ccagcagcaa	gagcaccagc	420
ggcggcacag	ccgccctggg	ctgcctggtg	aaggactact	tccccgagcc	tgtgaccgtg	480
tcctggaata	gcggagccct	gacctccggc	gtgcacacct	tccccgccgt	gctgcagagc	540
agcggcctgt	actccctgag	cagcgtggtg	accgtgcccc	gcagcagcct	gggcacccag	600
acctacatct	gcaacgtgaa	ccacaagccc	agcaaacacca	aagtggacaa	gaaagtggag	660

cccaagagct	gcgataagac	ccacacctgc	ccccctgcc	ctgccccga	gctgctgggc	720
ggacctagcg	tgttcctggt	cccccccaag	cctaaggaca	ccctgatgat	cagcaggacc	780
cccgaagtga	cctgctggtg	ggtggatgtg	agccacgagg	accctgaagt	gaagttcaac	840
tggtagctgg	acggcgtgga	agtgcacaac	gccaaagacca	agcccagaga	ggagcagtag	900
aacagcacct	accgctggtg	gtctgtgctg	accgtgctgc	accaggattg	gctgaacggc	960
aaggagtaca	agtgc aaagt	gagcaacaag	gccctgcctg	cccctatcga	gaaaaccatc	1020
agcaaggcca	agggccagcc	tagagagccc	caggtctaca	ccctgcctcc	ctccagagat	1080
gagctgacca	agaaccaggt	gtccctgacc	tgtctggtga	agggcttcta	ccccagcgac	1140
atcgccgtgg	agtgggagag	caacggccag	cccgagaaca	actacaagac	cacccccctt	1200
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accagaaga	gtctgagcct	gtcccctggc	aagtcgaccg	gtgacatcca	gatgaccag	1380
agcccttcaa	gcctgagcgc	cagcgtgggc	gacagagtga	ccatcacctg	ccgggccagc	1440
cagtggatcg	gcaacctgct	ggactggtat	cagcagaagc	ccggcaaggc	ccccagctg	1500
ctgatctact	acgccagctt	cctgcagagc	ggcgtgcccc	gccggttttag	cggcagcggc	1560
tacggcaccg	acttcaccct	gaccatcagc	agcctgcagc	ccgaggactt	cgccacctac	1620
tactgccagc	aggccaaccc	tgccccctg	accttcggcc	agggtaccaa	ggtggaatc	1680
aaacgg						1686

<210> 171

<211> 984

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 171

gacatccaga	tgaccagtc	tccatcctcc	ctgtctgcat	ctgtaggaga	ccgtgtcacc	60
atcacttgcc	gggcaagtca	ggatatttac	ctgaatttag	actggtatca	gcagaaacca	120
gggaaagccc	ctaagctcct	gatcaatttt	ggttccgagt	tgcaaagtgg	tgtcccatca	180
cgtttcagtg	gcagtggata	tgggacagat	ttcactctca	ccatcagcag	tctgcaacct	240
gaagatttcg	ctacgtacta	ctgtcaaccg	tctttttact	tcccttatac	gttcggccaa	300
gggaccaag	tggaatcaa	acgtacggtg	gccgccccca	gcgacatcca	gatgaccag	360
tctccatcct	ccctgtctgc	atctgttagga	gaccgtgtca	ccatcacttg	ccgggcaagt	420
cagagcatta	gcagctatct	aaattggtac	cagcagaaac	cagggaaagc	ccctaagctc	480
ctgatctatg	ctgcatccag	tttgaaagt	ggggtcccat	cacgtttcag	tggcagtggg	540
tctgggacag	atttcaactc	caccatcagc	agtctgcaac	ctgaagattt	tgctacgtac	600
tactgtcaac	agagttacag	tacccttaac	acgttcggcc	aagggacca	ggtggaatc	660
aaacgtacg	tgggcgcccc	cagctgtgtc	atcttcccc	ccagcgatga	gcagctcaag	720
agcggcaccg	ccagcgtggt	gtgtctgtctg	aacaacttct	acccccggga	ggccaaagt	780
cagtggaaag	tggacaacgc	cctgcagagc	ggcaacagcc	aggagagcgt	gaccgagcag	840
gacagcaagg	actccaccta	cagcctgagc	agcaccctga	ccctgagcaa	ggccgactac	900
gagaagcaca	aagtgtacgc	ctgcgaagt	accaccag	gcctgtccag	ccccgtgacc	960
aagagcttca	accggggcga	gtgc				984

<210> 172

<211> 1707

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 172

gaggtgcagc	tggttggtgc	tgggggaggc	ttggtacagc	ctgggggggc	cctgcgtctc	60
tcctgtgcag	cctccggatt	cacctttaag	gcttatccga	tgatgtgggt	ccgccaggct	120
ccagggaagg	gtctagagt	ggtttcagag	attttgcctt	cgggttctta	tacatactac	180
gcagactccg	tgaagggccg	gttcaccatc	tccgcgaca	attccaagaa	cacgctgtat	240
ctgcaaatga	acagcctgcg	tgccgaggac	accgcggtat	attactgtgc	gaaagatcct	300
cggaagttag	actactgggg	tcagggaacc	ctggtcaccg	tctcagagcg	tagcaccaag	360
ggccccagcg	aggtgcagct	ggttgagctc	gggggaggct	tggtacagcc	tgggggggtc	420
ctgcgtctct	cctgtgcagc	ctccgattc	accttttagc	gctatgccat	gagctgggtc	480
cgccagcgct	cagggaagg	tctagagtgg	gtctcagcta	ttagtggtag	tgggtggtag	540
acatactacg	cagactccgt	gaagggccg	ttcaccatct	cccgcgacaa	ttccaagaac	600
acgctgtatc	tgcaaatgaa	cagcctgcgt	gccgaggaca	ccgcggtata	ttactgtgcg	660
aaaagttatg	gtgcttttga	ctactggggc	cagggaaacc	tggtcaccgt	ctcagagcgt	720
agcaccaagg	gccccagcgt	gttccccctg	gccccagca	gcaagagcac	cagcggcggc	780
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ctgtactccc	tgagcagcgt	ggtgaccgtg	cccagcagca	gcctgggcac	ccagacctac	960
atctgcaacg	tgaaccacaa	gcccagcaac	accaaagtgg	acaagaaagt	ggagcccaag	1020
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agcgtgttcc	tgttcccccc	caagcctaag	gacacctga	tgatcagcag	gacccccgaa	1140
gtgacctgcg	tgggtggtga	tgtgagccac	gaggacctga	aagtgaagtt	caactggtag	1200
gtggacggcg	tggaagtgc	caacgccaa	accaagccca	gagaggagca	gtacaacagc	1260

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acctaccgcg tgggtgtctgt gctgaccgtg ctgcaccagg attggctgaa cggcaaggag 1320
tacaagtgca aagttagcaaa caaggccctg cctgccccta tcgagaaaac catcagcaag 1380
gccaagggcc agcctagaga gccccagggtc tacaccctgc ctccctccag agatgagctg 1440
accaagaacc aggtgtccct gacctgtctg gtgaaggggt tctaccccag cgacatcgcc 1500
gtggagtggg agagcaacgg ccagccccgag aacaactaca agaccacccc ccctgtgctg 1560
gacagcgatg gcagcttctt cctgtactcc aagctgaccg tggacaagag cagatggcag 1620
cagggcaacg tgttcagctg cagcgtgatg cagcaggccc tgcacaatca ctacaccag 1680
aagagtctga gcctgtcccc tggcaag 1707

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<210> 173
 <211> 1695
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

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<400> 173
caggtgcagc tgaagcagag cggccctggc ctggtgcagc cctctcagag cctgagcatc 60
acctgtaccg tgagcggctt cagcctgacc aattacggcg tgcattgggt gcggcagtct 120
ccaggcaagg gcctggaatg gctgggagtg atctgggtccg gcggcaaacac cgactacaac 180
accccccttca ccagcagact gagcatcaac aaggacaaca gcaagagcca ggtgttcttc 240
aagatgaaca gcctgcagag caacgacacc gccatctact attgtgccag ggccctgacc 300
tactacgact acgagttcgc ctactggggc cagggcaccc tggtgaccgt gagcggcgt 360
agcaccaagg gccccagcgt gttccccctg gccccagca gcaagagcac cagcggcggc 420
acagccgccc tgggctgcct ggtgaaggac tacttccccg agcctgtgac cgtgtcctgg 480
aatagcggag ccctgacctc cggcgtgcac accttccccg ccgtgctgca gagcagcggc 540
ctgtactccc tgagcagcgt ggtgaccgtg cccagcagca gcctgggcac ccagacctac 600
atctgcaacg tgaaccacaa gcccagcaac accaaagtgg acaagaaagt ggagcccaag 660
agctgcgata agaccacac ctgccccccc tgccctgccc ccgagctgct gggcggacct 720
agcgtgttcc tgttcccccc caagcctaag gacacctga tgatcagcag gacccccgaa 780
gtgacctgcg tgggtggtgga tgtgagccac gaggaccctg aagtgaagtt caactggtag 840
gtggacggcg tggagtgcga caacgccaag accaagccca gagaggagca gtacaacagc 900
acctaccgcg tgggtgtctgt gctgaccgtg ctgcaccagg attggctgaa cggcaaggag 960
tacaagtgca aagttagcaa caaggccctg cctgccccta tcgagaaaac catcagcaag 1020
gccaagggcc agcctagaga gccccagggtc tacaccctgc ctccctccag agatgagctg 1080
accaagaacc aggtgtccct gacctgtctg gtgaaggggt tctaccccag cgacatcgcc 1140
gtggagtggg agagcaacgg ccagccccgag aacaactaca agaccacccc ccctgtgctg 1200
gacagcgatg gcagcttctt cctgtactcc aagctgaccg tggacaagag cagatggcag 1260
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tcgccttcgg gttcttatac atactacgca gactccgtga agggccggtt caccatctcc 1560
cgcgacaatt ccaagaacac gctgtatctg caaatgaaca gcctgcgtgc cgaggacacc 1620
gcggtatatt actgtgcgaa agatcctcgg aagttagact actgggggtc ggaaccctg 1680
gtcaccgtct cgagc 1695

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<210> 174
 <211> 565
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

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<400> 174
Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
1      5      10     15
Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Tyr
20     25     30
Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
35     40     45
Gly Val Ile Trp Ser Gly Gly Asn Thr Asp Tyr Asn Thr Pro Phe Thr
50     55     60
Ser Arg Leu Ser Ile Asn Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
65     70     75     80
Lys Met Asn Ser Leu Gln Ser Asn Asp Thr Ala Ile Tyr Tyr Cys Ala
85     90     95
Arg Ala Leu Thr Tyr Tyr Asp Tyr Glu Phe Ala Tyr Trp Gly Gln Gly
100    105    110
Thr Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe
115    120    125
Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
130    135    140
Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp

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145	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
				165	150					170						160
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Val	Val	Thr	Val	Pro	Ser		
			180					185							175	
Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	
		195				200						205				
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	
	210				215						220					
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	
225					230					235					240	
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	
				245					250					255		
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	
			260					265					270			
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	
	275					280						285				
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	
	290					295					300					
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	
305					310					315					320	
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	
				325					330					335		
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	
			340					345					350			
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	
	355						360					365				
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	
	370					375					380					
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	
385					390					395					400	
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	
				405					410					415		
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	
			420					425					430			
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	
	435						440					445				
Lys	Glu	Val	Gln	Leu	Leu	Val	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	
	450					455					460					
Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Lys	Ala	
465					470					475					480	
Tyr	Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	
				485					490					495		
Val	Ser	Glu	Ile	Ser	Pro	Ser	Gly	Ser	Tyr	Thr	Tyr	Tyr	Ala	Asp	Ser	
			500					505					510			
Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	
	515						520					525				
Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	
	530					535					540					
Cys	Ala	Lys	Asp	Pro	Arg	Lys	Leu	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	
545					550					555					560	
Val	Thr	Val	Ser	Ser												
				565												

<210> 175

<211> 1719

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 175

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ccaggcaagg	gcctggaatg	gctgggagtg	atctgggtccg	gcggcaacac	cgactacaac	180
accccccttca	ccagcagact	gagcatcaac	aaggacaaca	gcaagagcca	ggtgttcttc	240
aagatgaaca	gcctgcagag	caacgacacc	gccatctact	attgtgccag	ggccctgacc	300
tactacgact	acgagttcgc	ctactggggc	cagggcaccc	tggtgaccgt	gagcgccgct	360
agcaccaagg	gccccagcgt	gttccccctg	gccccagca	gcaagagcac	cagcggcggc	420
acagccgccc	tgggctgcct	ggtgaaggac	tacttccccg	agcctgtgac	cgtgtcctgg	480
aatagcggag	ccctgacctc	cggcgtgcac	accttccccg	ccgtgctgca	gagcagcggc	540
ctgtactccc	tgagcagcgt	ggtgaccgtg	cccagcagca	gcctgggcac	ccagacctac	600
atctgcaacg	tgaaccacaa	gcccagcaac	accaaagtgg	acaagaaagt	ggagcccaag	660
agctgcgata	agaccacac	ctgccccccc	tgccctgccc	ccgagctgct	gggcggacct	720

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agcgtgttcc tgttccccc caagcctaag gacaccctga tgatcagcag gacccccgaa 780
gtgacctgcg tgggtggtgga tgtgagccac gaggaccctg aagtgaagtt caactggtac 840
gtggacggcg tggaaagtga caacgccaaag accaagccca gagaggagca gtacaacagc 900
acctaccgcg tgggtgtctgt gctgaccgtg ctgcaccagg attggctgaa cggcaaggag 960
tacaagtga aagttagcaa caaggccctg cctgccccta tcgagaaaac catcagcaag 1020
gccaagggcc agcctagaga gccccaggtc tacaccctgc ctccctccag agatgagctg 1080
accaagaacc aggtgtccct gacctgtctg gtgaagggtc tctaccccag cgacatcgcc 1140
gtggagtggg agagcaacgg ccagcccagag aacaactaca agaccacccc ccctgtgctg 1200
gacagcgatg gcagcttctt cctgtactcc aagctgaccg tggacaagag cagatggcag 1260
cagggcaacg tgttcagctg cagcgtgatg cagcaggccc tgcacaatca ctacaccag 1320
aagagtctga gcctgtcccc tggcaagtcg accggtgggt gaggtggatc agaggtgcag 1380
ctgttgggtg ctggggggagg cttggtacag cctggggggt ccctgcgtct ctctgtgca 1440
gcctccggat tcacctttaa ggcttatccg atgatgtggg tccgccaggc tccagggaag 1500
ggtctagagt gggtttcaga gatttcgcct tcgggttctt atacatacta cgcagactcc 1560
gtgaagggcc ggttcacat ctcccgcgac aattccaaga acacgctgta tctgcaaattg 1620
aacagcctgc gtgccgagga caccgcggtg tattactgtg cgaaagatcc tcggaagtta 1680
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<210> 176

<211> 573

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 176

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Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
1      5      10      15
Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Tyr
20      25      30
Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
35      40      45
Gly Val Ile Trp Ser Gly Gly Asn Thr Asp Tyr Asn Thr Pro Phe Thr
50      55      60
Ser Arg Leu Ser Ile Asn Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
65      70      75      80
Lys Met Asn Ser Leu Gln Ser Asn Asp Thr Ala Ile Tyr Tyr Cys Ala
85      90      95
Arg Ala Leu Thr Tyr Tyr Asp Tyr Glu Phe Ala Tyr Trp Gly Gln Gly
100      105      110
Thr Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe
115      120      125
Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
130      135      140
Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145      150      155      160
Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
165      170      175
Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
180      185      190
Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
195      200      205
Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
210      215      220
Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
225      230      235      240
Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
245      250      255
Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp
260      265      270
Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
275      280      285
Ala Lys Thr Lys Pro Arg Glu Gln Tyr Asn Ser Thr Tyr Arg Val
290      295      300
Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
305      310      315      320
Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
325      330      335
Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
340      345      350
Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr
355      360      365
Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
370      375      380
Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu

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385	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys
					405					410					415	
	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
				420					425					430		
	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
			435					440					445			
	Lys	Ser	Thr	Gly	Gly	Gly	Gly	Gly	Ser	Glu	Val	Gln	Leu	Leu	Val	Ser
			450				455					460				
	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala
	465					470				475					480	
	Ala	Ser	Gly	Phe	Thr	Phe	Lys	Ala	Tyr	Pro	Met	Met	Trp	Val	Arg	Gln
				485					490						495	
	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Glu	Ile	Ser	Pro	Ser	Gly
			500						505					510		
	Ser	Tyr	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser
			515					520					525			
	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg
		530				535						540				
	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Asp	Pro	Arg	Lys	Leu
	545					550				555					560	
	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
				565					570							

<210> 177
 <211> 1734
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 177
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 ccaggcaagg gcctggaatg gctgggagtg atctgggtccg gcggcaacac cgactacaac 180
 acccccttca ccagcagact gagcatcaac aaggacaaca gcaagagcca ggtgttcttc 240
 aagatgaaca gcctgcagag caacgacacc gccatctact attgtgccag ggccctgacc 300
 tactacgact acgagttcgc ctactggggc cagggcaccc tgggtgaccgt gagcgccgct 360
 agcaccaagg gccccagcgt gttccccctg gccccagca gcaagagcac cagcggcggc 420
 acagccgccc tgggctgcct ggtgaaggac tacttccccg agcctgtgac cgtgtcctgg 480
 aatagcggag ccctgacctc cggcgtgcac accttccccg ccgtgctgca gagcagcggc 540
 ctgtactccc tgagcagcgt ggtgaccgtg cccagcagca gcctgggcac ccagacctac 600
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 agctgcgata agaccacac tgccccccc cgcctgccc ccgagctgct gggcggacct 720
 agcgtgttcc tgttcccccc caagcctaag gacaccctga tgatcagcag gacccccgaa 780
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 acctaccgcg tgggtgtctgt gctgaccgtg ctgcaccagg attggctgaa cggcaaggag 960
 tacaagtgca aagtgagcaa caaggccctg cctgccccct tgcagaaaac catcagcaag 1020
 gccaagggcc agcctagaga gccccaggtc tacaccctgc ctccctccag agatgagctg 1080
 accaagaacc aggtgtccct gacctgtctg gtgaagggtc tctaccccag cgacatcgcc 1140
 gtggagtggg agagcaacgg ccagcccagag aacaactaca agaccacccc ccctgtgctg 1200
 gacagcgatg gcagcttctt cctgtactcc aagctgaccg tggacaagag cagatggcag 1260
 cagggcaacg tgttcagctg cagcgtgatg cagcagggcc tgcacaatca ctacaccag 1320
 aagagtctga gcctgtcccc tggcaagtcg accggtgggt gaggtggatc aggtggaggt 1380
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 caggctccag ggaagggtct agagtgggtt tcagagattt cgccttcggg ttcttataca 1560
 tactacgcag actccgtgaa gggccggttc accatctccc gcgacaattc caagaacacg 1620
 ctgtatctgc aatgaacag cctgcgtgcc gaggacaccg cggtatatta ctgtgcgaaa 1680
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<210> 178
 <211> 578
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 178
 Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
 1 5 10 15
 Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Tyr

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			20					25					30		
Gly	Val	His	Trp	Val	Arg	Gln	Ser	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Leu
		35					40					45			
Gly	Val	Ile	Trp	Ser	Gly	Gly	Asn	Thr	Asp	Tyr	Asn	Thr	Pro	Phe	Thr
	50					55					60				
Ser	Arg	Leu	Ser	Ile	Asn	Lys	Asp	Asn	Ser	Lys	Ser	Gln	Val	Phe	Phe
65					70					75					80
Lys	Met	Asn	Ser	Leu	Gln	Ser	Asn	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys	Ala
				85										95	
Arg	Ala	Leu	Thr	Tyr	Tyr	Asp	Tyr	Glu	Phe	Ala	Tyr	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ala	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
		115					120					125			
Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu
	130					135					140				
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp
145					150					155					160
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
				165					170					175	
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
			180					185					190		
Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro
		195					200					205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys
	210					215					220				
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
225					230					235					240
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
				245					250					255	
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
			260					265					270		
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
		275					280					285			
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
	290					295					300				
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
305					310					315					320
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
			325						330					335	
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
			340					345					350		
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr
		355					360					365			
Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
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<210>	179
<211>	1692
<212>	DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 179

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cctggcaagg gcctggaatg ggtgggctgg atcaacacct acaccggcga gccacacctac 180
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ctgcagatga acagcctgcg ggccgaggac accgccgtgt actactgcgc caagtacccc 300
cactactacg gcagcagcca ctggtacttc gactactggg ggcagggtac cctggtcacc 360
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accagcggcg gcacagccgc cctgggctgc ctggtgaagg actacttccc cgagcctgtg 480
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cagagcagcg gcctgtactc cctgagcagc gtggtgaccg tgcccagcag cagcctgggc 600
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gtggagccca agagctgcga taagaccac acctgcccc cctgccctgc ccccgagctg 720
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ttcaactggg acgtggacgg cgtggaagtg cacaacgcca agaccaagcc cagagaggag 900
cagtacaaca gcacctaccg cgtggtgtct gtgctgaccg tgctgcacca ggattggctg 960
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ccccctgtgc tggacagcga tggcagcttc ttcctgtact ccaagctgac cgtggacaag 1260
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acccagagcc cttcaagcct gagcgccagc gtgggcgaca gagtgaccat cacctgccgg 1440
gccagccagt ggatcggcaa cctgctggac tggatatcagc agaagcccgg caaggcccc 1500
aagctgctga tctactacgc cagcttcctg cagagcggcg tgcccagcc gtttagcggc 1560
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acctactact gccagcaggc caaccctgcc cccctgacct tcggccaggg taccaaggtg 1680
gaaatcaaac gg

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<210> 180

<211> 564

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 180

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

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Leu	Met	Ile	Ser	245	Arg	Thr	Pro	Glu	Val	250	Thr	Cys	Val	Val	Val	255	Asp	Val
Ser	His	Glu	260	Asp	Pro	Glu	Val	Lys	265	Phe	Asn	Trp	Tyr	Val	270	Asp	Gly	Val
Glu	Val	His	275	Asn	Ala	Lys	Thr	Lys	280	Pro	Arg	Glu	Glu	Gln	285	Tyr	Asn	Ser
Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	320	Leu	320
Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	330	Asn	Lys	Ala	Leu	Pro	Ala	335	Ala
Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	350	Glu	Pro
Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	365	Asn	Gln
Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	380	Ile	Ala
Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	400	Thr	Thr
Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	415	Lys	Leu
Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	430	Cys	Ser
Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	445	Leu	Ser
Leu	Ser	Pro	Gly	Lys	Ser	Thr	Gly	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	460	Ser	Pro
Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	480	Cys	Arg
Ala	Ser	Gln	Trp	Ile	Gly	Asn	Leu	Leu	Asp	Trp	Tyr	Gln	Gln	Lys	Pro	495	Lys	Pro
Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Tyr	Tyr	Ala	Ser	Phe	Leu	Gln	Ser	510	Gln	Ser
Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Tyr	Gly	Thr	Asp	Phe	Thr	525	Phe	Thr
Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	540	Tyr	Cys
Gln	Gln	Ala	Asn	Pro	Ala	Pro	Leu	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	560	Lys	Val
Glu	Ile	Lys	Arg															

<210> 181
 <211> 642
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 181
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 atcacctgca gcgccagcca ggacatcagc aactacctga actggtatca gcagaagccc 120
 ggcaaggccc ccaaggtgct gatctacttc accagctccc tgcacagcgg cgtgcccagc 180
 cggtttagcg gcagcggctc cggcaccgac ttcaccctga ccacagcag cctgcagccc 240
 gaggacttcg ccacctacta ctgccagcag tacagcaccg tgccctggac cttcggccag 300
 ggtaccaagg tggagatcaa gctacgggtg gccgctccca gcgtgttcat cttccccccc 360
 agcgacgagc agctgaagag cggcaccgcc tccgtggtgt gcctgctgaa caacttctac 420
 ccccgaggag ccaaggtgca gtggaaggtg gacaacgccc tgcagtccgg caacagccag 480
 gaaagcgtca ccgagcagga ctccaaggac tccacctaca gcctgagcag caccctgacc 540
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 ctgtccagcc ccgtgaccaa gagcttcaac cggggcgagt gc 642

<210> 182
 <211> 214
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 182
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser Asn Tyr

[illegible]

<220>
<223> Humanised

<210>	184
<211>	570
<212>	PRT
<213>	Artificial Sequence

<400> 184
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	Gly	Val	His	20	Val	Arg	Gln	Ser	25	Pro	Gly	Lys	Gly	Leu	30	Trp
	Gly	Val	35	Trp	Ser	Gly	Gly	Asn	40	Thr	Asp	Tyr	Asn	45	Thr	Pro
	50	Arg	Leu	Ser	Ile	Asn	Lys	Asp	55	Asn	Ser	Lys	Ser	60	Gln	Val
65	Lys	Met	Asn	Ser	Leu	70	Gln	Ser	75	Ala	Ile	Tyr	Tyr	80	Cys	Ala
	Arg	Ala	Leu	85	Tyr	Tyr	Asp	Tyr	90	Phe	Ala	Tyr	Trp	95	Gln	Gly
	Thr	Leu	100	Thr	Val	Ser	Ala	Ala	105	Ser	Thr	Lys	Gly	110	Ser	Val
	Pro	Leu	115	Ala	Pro	Ser	Ser	Lys	120	Ser	Thr	Gly	Gly	125	Thr	Ala
	130	Cys	Leu	Val	Lys	Asp	Tyr	Phe	135	Pro	Glu	Pro	Val	140	Thr	Val
145	Asn	Ser	Gly	Ala	Leu	150	Thr	Ser	155	His	Thr	Phe	Pro	160	Ala	Val
	Gln	Ser	Ser	Gly	165	Leu	Tyr	Ser	170	Ser	Val	Val	Thr	175	Val	Pro
	Ser	Ser	Leu	Gly	180	Thr	Gln	Thr	185	Ile	Cys	Asn	Val	190	Asn	His
	195	Asn	Thr	Lys	Val	Asp	Lys	Lys	200	Val	Glu	Pro	Lys	205	Ser	Cys
	210	Thr	His	Thr	Cys	Pro	Pro	Cys	215	Pro	Ala	Pro	Glu	220	Leu	Gly
225	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	230	Pro	Lys	Asp	Thr	235	Leu	Met
	Arg	Thr	Pro	Glu	245	Val	Thr	Cys	250	Val	Val	Asp	Val	255	Ser	His
	Pro	Glu	Val	Lys	260	Phe	Asn	Trp	265	Val	Asp	Gly	Val	270	Glu	Val
	Ala	Lys	Thr	Lys	275	Pro	Arg	Glu	280	Gln	Tyr	Asn	Ser	285	Thr	Tyr
	290	Val	Ser	Val	Leu	Thr	Val	Leu	295	His	Gln	Asp	Trp	300	Leu	Asn
305	Tyr	Lys	Cys	Lys	310	Val	Ser	Asn	315	Ala	Leu	Pro	Ala	320	Pro	Ile
	Thr	Ile	Ser	Lys	325	Ala	Lys	Gly	330	Pro	Arg	Glu	Pro	335	Gln	Val
	Leu	Pro	Pro	Ser	340	Arg	Asp	Glu	345	Thr	Lys	Asn	Gln	350	Val	Ser
	Cys	Leu	Val	Lys	355	Gly	Phe	Tyr	360	Pro	Ser	Asp	Ile	365	Ala	Val
370	Ser	Asn	Gly	Gln	375	Pro	Glu	Asn	380	Asn	Tyr	Lys	Thr	385	Thr	Pro
385	Asp	Ser	Asp	Gly	390	Ser	Phe	Phe	395	Leu	Tyr	Ser	Lys	400	Leu	Thr
	Ser	Arg	Trp	Gln	405	Gly	Asn	Val	410	Phe	Ser	Cys	Ser	415	Val	Met
	Ala	Leu	His	Asn	420	Gln	Thr	Thr	425	Lys	Ser	Leu	Ser	430	Leu	Ser
	Lys	Ser	Thr	Gly	435	Gly	Val	Gln	440	Leu	Leu	Glu	Ser	445	Gly	Gly
	450	Gln	Pro	Gly	Gly	Ser	Leu	Arg	455	Leu	Ser	Cys	Ala	460	Ala	Ser
465	Phe	Ala	Trp	Tyr	465	Asp	Met	Gly	470	Trp	Val	Arg	Gln	475	Ala	Pro
	Leu	Glu	Trp	Val	485	Ser	Ser	Ile	490	Asp	Trp	His	Gly	495	Glu	Val
	Ala	Asp	Ser	Val	500	Lys	Gly	Arg	505	Thr	Ile	Ser	Arg	510	Asp	Asn
	Asn	Thr	Leu	Tyr	515	Leu	Gln	Met	520	Ser	Leu	Arg	Ala	525	Glu	Asp
	Val	Tyr	Tyr	Cys	530	Ala	Thr	Ala	535	Glu	Asp	Glu	Pro	540	Gly	Tyr
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<210> 185
 <211> 562
 <212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 185

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
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			20					25					30		
Ala	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Ala	Ile	Thr	Trp	Asn	Ser	Gly	His	Ile	Asp	Tyr	Ala	Asp	Ser	Val
	50				55					60					
Glu	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ser	Leu	Tyr
65					70				75						80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Lys	Val	Ser	Tyr	Leu	Ser	Thr	Ala	Ser	Ser	Leu	Asp	Tyr	Trp	Gly
			100					105					110		
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Lys	Ser	Thr	Ser		Gly	Gly	Thr	Ala
	130					135				140					
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150				155						160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
				165					170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
			180					185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
				245					250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
			260					265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
				325					330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
			340					345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Ser	Thr	Gly	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser
	450					455					460				
Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser
465					470					475					480
Gln	Trp	Ile	Gly	Pro	Glu	Leu	Arg	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
				485					490					495	
Ala	Pro	Lys	Leu	Ile	Tyr	His	Thr	Ser	Ile	Leu	Gln	Ser	Gly	Val	
			500				505					510			
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr
		515					520					525			
Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
	530					535					540				
Tyr	Met	Phe	Gln	Pro	Met	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile
545					550					555					560

Lys Arg

<210> 186
 <211> 560
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 186
 Gln Val Gln Leu Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln
 1 5 10 15
 Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Tyr
 20 25 30
 Gly Val His Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu
 35 40 45
 Gly Val Ile Trp Ser Gly Gly Asn Thr Asp Tyr Asn Thr Pro Phe Thr
 50 55 60
 Ser Arg Leu Ser Ile Asn Lys Asp Asn Ser Lys Ser Gln Val Phe Phe
 65 70 75 80
 Lys Met Asn Ser Leu Gln Ser Asn Asp Thr Ala Ile Tyr Tyr Cys Ala
 85 90 95
 Arg Ala Leu Thr Tyr Tyr Asp Tyr Glu Phe Ala Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu
 130 135 140
 Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
 145 150 155 160
 Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
 165 170 175
 Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
 180 185 190
 Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro
 195 200 205
 Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys
 210 215 220
 Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
 225 230 235 240
 Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser
 245 250 255
 Arg Thr Pro Glu Val Thr Cys Val Val Asp Val Ser His Glu Asp
 260 265 270
 Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn
 275 280 285
 Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val
 290 295 300
 Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu
 305 310 315 320
 Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys
 325 330 335
 Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 340 345 350
 Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr
 355 360 365
 Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 370 375 380
 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 385 390 395 400
 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 405 410 415
 Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 420 425 430
 Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 435 440 445
 Lys Ser Thr Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
 450 455 460
 Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Trp
 465 470 475 480
 Ile Gly Pro Glu Leu Arg Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
 485 490 495
 Lys Leu Leu Ile Tyr His Thr Ser Ile Leu Gln Ser Gly Val Pro Ser

			500					505					510				
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser		
		515					520					525					
Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Tyr	Met		
	530					535					540						
Phe	Gln	Pro	Met	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg		
545					550					555					560		

<210> 187
 <211> 1002
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 187
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 ttcagctgcc gggccagcca gagcatcggc accaacaatcc actggtatca gcagcggacc 120
 aacggcagcc ccaggctgct gatcaagtac gccagcagag ccatcagcgg catccccagc 180
 cggttcagcg gcagcggctc cggcaccgac ttcaccctga gcatcaacag cgtggagagc 240
 gaggatatcg ccgactacta ctgccagcag aacaacaact ggcccaccac cttcggagcc 300
 ggcaccaagc tggaaactgaa gcgtacggtg gccgccccca gcgtgttcat cttccccccc 360
 agcgtatgagc agctcaagag cggcaccgcc agcgtggtgt gtctgctgaa caacttctac 420
 ccccgggagg ccaaagtgca gtggaaagtg gacaacgccc tgcagagcgg caacagccag 480
 gagagcgtga ccgagcagga cagcaaggac tccacctaca gcctgagcag caccctgacc 540
 ctgagcaagg ccgactacga gaagcacaac gtgtacgcct gcgaagtgac ccaccagggc 600
 ctgtccagcc ccgtgaccaa gagcttcaac cggggcagag gcggtaccac cggcgagggtg 660
 cagctgttgg tgtctggggg aggcttggtg cagcctgggg ggtccctgcg tctctcctgt 720
 gcagcctccg gattcacctt taaggcttat ccgatgatgt ggggtccgcca ggctccaggg 780
 aaggggtctag agtgggtttc agagatttcg ccttcggggt cttatacata ctacgcagac 840
 tccgtgaagg gccgggtcac catctccgcg gacaattcca agaacacgct gtatctgcaa 900
 atgaacagcc tgcgtgccga ggacaccgcg gtatattact gtgcgaaaga tcctcggaag 960
 ttagactact ggggtcaggg aaccctggtc accgtctcga gc 1002

<210> 188
 <211> 334
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 188
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 Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Ser Ile Gly Thr Asn
 20 25 30
 Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
 35 40 45
 Lys Tyr Ala Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Ser
 65 70 75 80
 Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Asn Asn Asn Trp Pro Thr
 85 90 95
 Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
 115 120 125
 Thr Ala Ser Val Val Cys Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140
 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
 145 150 155 160
 Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175
 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190
 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205
 Phe Asn Arg Gly Glu Cys Gly Ser Thr Gly Glu Val Gln Leu Leu Val
 210 215 220
 Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys
 225 230 235 240
 Ala Ala Ser Gly Phe Thr Phe Lys Ala Tyr Pro Met Met Trp Val Arg

PB62748

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

<210> 189

<211> 1014

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 189

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ttcagctgcc	gggccagcca	gagcatcggc	accaaactcc	actggtatca	gcagcggacc	120
aacggcagcc	ccaggctgct	gatcaagtac	gccagcgagt	ccatcagcgg	catccccagc	180
cggttcagcg	gcagcggctc	cggcaccgac	ttcaccctga	gcatcaacag	cgtggagagc	240
gaggatatcg	ccgactacta	ctgccagcag	aacaacaact	ggcccaccac	cttcggagcc	300
ggcaccaagc	tggaactgaa	gcgtacggtg	gccgccccca	gcgtgttcat	cttccccccc	360
agcgatgagc	agctcaagag	cggcaccgcc	agcgtgggtg	gtctgctgaa	caacttctac	420
ccccgggagg	ccaaagtgca	gtggaaagtg	gacaacgccc	tgagagcgcg	caacagccag	480
gagagcgtga	ccgagcagga	cagcaaggac	tccacctaca	gcctgagcag	caccctgacc	540
ctgagcaagg	ccgactacga	gaagcacaaa	gtgtacgcct	gcgaagtgac	ccaccagggc	600
ctgtccagcc	ccgtgaccaa	gagcttcaac	cggggcgagt	gcggatccac	ggtggccgcc	660
cccagcgagg	tgacgtgttt	ggtgtctggg	ggaggccttg	tacagcctgg	ggggtccttg	720
cgctctcctt	gtgcagcctc	cggattcacc	tttaaggctt	atccgatgat	gtgggtccgc	780
caggctccag	ggaagggtct	agagtgggtt	tcagagattt	cgccttcggg	ttcttataca	840
tactacgcag	actccgtgaa	gggccgggtt	accatctccc	gcgacaattc	caagaacacg	900
ctgtatctgc	aatgaacag	cctgcgtgcc	gaggacaccg	cggtatatta	ctgtgcgaaa	960
gatcctcgga	agtttagacta	ctgggggtcag	ggaaccctgg	tcaccgtctc	gagc	1014

<210> 190

<211> 338

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 190

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

[illegible]

<220>
<223> Humanised

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Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 385 390 400
 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 405 415
 Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 420 425 430
 Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
 435 440 445
 Lys

<210> 192
 <211> 1746
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 192
 caggtgcagc tcgtgcagag cggcgccgaa gtgaaaaagc ccggcagcag cgtgaagggtg 60
 agctgcaagg cctccggctt ctacatcaag gacacctaca tgcactgggt caggcaggct 120
 cctggccagg gcctggagt gatgggcact atcgaccccc ccaacggcaa caccaagtac 180
 gtgcccagt tccagggcag ggtgaccatc accgccgatg agagcaccag caccgcctac 240
 atggaactga gcagcctgag gtctgaggac accgccgtgt actattgctc caggagcatc 300
 tacgacgact accactacga cgactactac gccatggact actggggaca gggcacacta 360
 gtgaccgtgt ccagcgccag caccaagggc cccagcgtgt tccccctggc cccagcagc 420
 aagagcacca gcggcgccac agccgccctg ggctgcctgg tgaaggacta cttccccgaa 480
 ccggtgaccg tgtcctggaa cagcggagcc ctgaccagcg gcgtgcacac cttccccgcc 540
 gtgctgcaga gcagcgccct gtacagcctg agcagcgtgg tgaccgtgcc cagcagcagc 600
 ctgggcaccc agacctacat ctgtaacgtg aaccacaagc ccagcaacac caaggtggac 660
 aagaagggtg agcccaagag ctgtgacaag acccacacct gccccccctg ccctgcccc 720
 gagctgtgg gagccccag cgtgttcctg tttccccca agcctaagga caccctgatg 780
 atcagcagaa cccccgaggt gacctgtgtg gtggtggatg tgagccacga ggaccctgag 840
 gtgaagttca actggtacgt ggacggcgtg gaggtgcaca atgccaagac caagcccagg 900
 gaggagcagt acaacagcac ctaccgggtg gtgtccgtgc tgaccgtgct gcaccaggat 960
 tggctgaacg gcaaggagta caagtgtgag gtgtccaaca aggccctgcc tgccccctatc 1020
 gagaaaacca tcagcaaggc caagggccag cccagagagc cccaggtgta caccctgccc 1080
 cctagcagag atgagctgac caagaaccag gtgtccctga cctgcctggt gaagggcttc 1140
 taccacagcg acatcgccgt ggagtgggag agcaacggcc agcccagaa caactacaag 1200
 accaccccc ctgtgctgga cagcgtggc agcttcttcc tgtacagcaa gctgaccgtg 1260
 gacaagagca gatggcagca gggcaacgtg ttcagctgct ccgtgatgca cgaggccctg 1320
 cacaatcact acaccagaa gagcctgagc ctgtcccctg gcaagggatc agccagcacc 1380
 aagggcccca cgggatccga agtgcagctc ctggagagcg gcggcgccct ggtgcagccc 1440
 ggcggcagcc tgaggctgag ctgcgccgtg agcggcttca ccttcaggaa cttcggcag 1500
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 ggcaccgaga cctactacgc cgacagcgtg aagggcaggt tcaccatcag ccgcgacaac 1620
 agcaagaaca ccctgtacct gcagatgaac agcctgaggg ccgaggacac cgccgtctac 1680
 tactgcgcca agagcctggg caggttcgac tactggggac aggggaccct ggtgactgtg 1740
 agcagc 1746

<210> 193
 <211> 698
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 193
 Glu Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
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 20 25 30
 Val Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu
 35 40 45
 Trp Leu Ala His Ile Tyr Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
 50 55 60
 Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Asn Gln Val
 65 70 75 80
 Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
 85 90 95
 Cys Ala Arg Arg Gly Ile Arg Ser Ala Met Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Glu Val Gln

Leu	Val	115	Gln	Ser	Gly	Thr	Glu	120	Val	Lys	Lys	Pro	Gly	125	Glu	Ser	Leu	Lys
Ile	130	Ser	Cys	Lys	Gly	Ser	135	Gly	Tyr	Thr	Val	Thr	140	Ser	Tyr	Trp	Ile	Gly
145	Trp	Val	Arg	Gln	Met	Pro	150	Gly	Lys	Gly	Leu	155	Glu	Trp	Met	Gly	Phe	Ile
Tyr	Pro	Gly	Asp	Ser	Glu	Thr	165	Arg	Tyr	Ser	Pro	170	Thr	Phe	Gln	Gly	Gln	
Val	Thr	Ile	Ser	Ala	Asp	Lys	180	Ser	Phe	Asn	Thr	185	Ala	Phe	190	Leu	Gln	Trp
Ser	Ser	Leu	Lys	Ala	Ser	Asp	195	Thr	Ala	Met	Tyr	200	Tyr	Cys	Ala	Arg	Val	
Gly	210	Ser	Gly	Trp	Tyr	Pro	215	Tyr	Thr	Phe	Asp	Ile	220	Trp	Gly	Gln	Gly	Thr
Leu	225	Val	Thr	Val	Ser	230	Ala	Ser	Thr	Lys	235	Gly	Pro	Ser	Val	Phe	Pro	
Leu	Ala	Pro	Ser	Ser	Lys	Ser	245	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly		
Cys	Leu	Val	Lys	Asp	Tyr	Phe	260	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn		
Ser	Gly	Ala	Leu	Thr	Ser	Gly	275	Val	His	Thr	Phe	Pro	280	Ala	Val	Leu	Gln	
Ser	Ser	Gly	Leu	Tyr	Ser	Leu	290	Ser	Ser	Val	Val	Thr	300	Val	Pro	Ser	Ser	
Ser	Leu	Gly	Thr	Gln	Thr	Tyr	310	Ile	Cys	Asn	Val	Asn	315	His	Lys	Pro	Ser	
Asn	Thr	Lys	Val	Asp	Lys	Lys	325	Val	Glu	Pro	Lys	Ser	330	Cys	Asp	Lys	Thr	
His	Thr	Cys	Pro	Pro	Cys	Pro	340	Ala	Pro	Glu	Leu	Leu	345	Gly	Gly	Pro	Ser	
Val	Phe	Leu	Phe	Pro	Pro	Lys	355	Pro	Lys	Asp	Thr	Leu	360	Met	Ile	Ser	Arg	
Thr	370	Pro	Glu	Val	Thr	Cys	375	Val	Val	Asp	Val	Ser	380	His	Glu	Asp	Pro	
Glu	385	Val	Lys	Phe	Asn	Trp	390	Tyr	Val	Asp	Gly	Val	395	Glu	Val	His	Asn	Ala
Lys	Thr	Lys	Pro	Arg	Glu	Glu	405	Gln	Tyr	Asn	Ser	Thr	410	Tyr	Arg	Val	Val	
Ser	Val	Leu	Thr	Val	Leu	His	420	Gln	Asp	Trp	Leu	Asn	425	Gly	Lys	Glu	Tyr	
Lys	Cys	Lys	Val	Ser	Asn	Lys	435	Ala	Leu	Pro	Ala	Pro	440	Ile	Glu	Lys	Thr	
Ile	450	Ser	Lys	Ala	Lys	Gly	455	Gln	Pro	Arg	Glu	Pro	460	Gln	Val	Tyr	Thr	Leu
Pro	465	Pro	Ser	Arg	Asp	Glu	470	Leu	Thr	Lys	Asn	Gln	475	Val	Ser	Leu	Thr	Cys
Leu	Val	Lys	Gly	Phe	Tyr	Pro	485	Ser	Asp	Ile	Ala	Val	490	Glu	Trp	Glu	Ser	
Asn	Gly	Gln	Pro	Glu	Asn	Asn	500	Tyr	Lys	Thr	Thr	Pro	505	Pro	Val	Leu	Asp	
Ser	Asp	Gly	Ser	Phe	Phe	Leu	515	Tyr	Ser	Lys	Leu	Thr	520	Val	Asp	Lys	Ser	
Arg	530	Trp	Gln	Gln	Gly	Asn	535	Val	Phe	Ser	Cys	Ser	540	Val	Met	His	Glu	Ala
Leu	545	His	Asn	His	Tyr	Thr	550	Gln	Lys	Ser	Leu	Ser	555	Leu	Ser	Pro	Gly	Lys
Thr	Val	Ala	Ala	Pro	Ser	Glu	565	Val	Gln	Leu	Glu	Ser	570	Gly	Gly	Gly		
Leu	Val	Gln	Pro	Gly	Gly	Ser	580	Leu	Arg	Leu	Ser	Cys	585	Ala	Ala	Ser	Gly	
Phe	Thr	Phe	Arg	Asn	Phe	Gly	595	Met	Gly	Trp	Val	Arg	600	Gln	Ala	Pro	Gly	
Lys	610	Gly	Leu	Glu	Trp	Val	615	Ser	Trp	Ile	Ile	Ser	620	Ser	Gly	Thr	Glu	Thr
Tyr	625	Tyr	Ala	Asp	Ser	Val	630	Lys	Gly	Arg	Phe	Thr	635	Ile	Ser	Arg	Asp	Asn
Ser	Lys	Asn	Thr	Leu	Tyr	Leu	645	Gln	Met	Asn	Ser	Leu	650	Arg	Ala	Glu	Asp	
Thr	Ala	Val	Tyr	Tyr	Cys	Ala	660	Lys	Ser	Leu	Gly	Arg	665	Phe	Asp	Tyr	Trp	
Gly	Gln	Gly	Thr	Leu	Val	Thr	675	Val	Ser	Ser			680					
	690						695											

<211> 328
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 194

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Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
 1      5      10      15
Glu Arg Ala Thr Ile Asn Cys Lys Ala Ser Gln Ser Val Ser Asn Asp
 20      25      30
Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35      40      45
Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Ser Gly
 50      55      60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala
 65      70      75      80
Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln Asp Tyr Asn Ser Pro Trp
 85      90      95
Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
100      105      110
Pro Glu Ile Val Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro
115      120      125
Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Glu Ser Ala Ser Ser
130      135      140
Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Phe
145      150      155      160
Ile Tyr Thr Ala Ser Thr Arg Ala Thr Asp Ile Pro Ala Arg Phe Ser
165      170      175
Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln
180      185      190
Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Asn Asn Trp Pro
195      200      205
Ser Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg Thr Val
210      215      220
Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys
225      230      235      240
Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg
245      250      255
Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn
260      265      270
Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser
275      280      285
Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys
290      295      300
Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr
305      310      315      320
Lys Ser Phe Asn Arg Gly Glu Cys
325

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<210> 195
 <211> 696
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 195

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

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Pro	Leu	115	Pro	Ser	Ser	Lys	120	Ser	Thr	Ser	Gly	Gly	125	Thr	Ala	Ala	Leu
Gly	130	Cys	Leu	Val	Lys	135	Tyr	Phe	Pro	Glu	Pro	140	Thr	Val	Ser	Trp	
145	Asn	Ser	Gly	Ala	Leu	150	Thr	Ser	Gly	Val	His	155	Thr	Phe	Pro	Ala	Val
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	165	Ser	
Ser	Ser	Leu	180	Gly	Thr	Gln	Thr	Tyr	185	Ile	Cys	Asn	Val	Asn	190	His	Lys
Ser	Asn	Thr	195	Lys	Val	Asp	Lys	Lys	200	Val	Glu	Pro	Lys	Ser	205	Cys	Asp
Thr	210	His	Thr	Cys	Pro	Pro	215	Cys	Pro	Ala	Pro	Glu	220	Leu	Leu	Gly	Gly
225	Ser	Val	Phe	Leu	Phe	Pro	230	Pro	Lys	Pro	Lys	235	Asp	Thr	Leu	Met	Ile
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	245	Val	Val	Asp	Val	Ser	His	Glu	Asp
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	250	Val	Asp	Gly	Val	Glu	Val	His	Asn	
Ala	Lys	Thr	Lys	Pro	Arg	Glu	260	Gln	Tyr	Asn	Ser	265	Thr	Tyr	Arg	Val	
Val	Ser	Val	Leu	Thr	Val	Leu	275	His	Gln	Asp	Trp	280	Leu	Asn	Gly	Lys	Glu
305	Tyr	Lys	Cys	Lys	Val	Ser	310	Asn	Lys	Ala	Leu	315	Pro	Ala	Pro	Ile	Glu
Thr	Ile	Ser	Lys	Ala	Lys	Gly	325	Gln	Pro	Arg	Glu	330	Pro	Gln	Val	Tyr	Thr
Leu	Pro	Pro	Ser	Arg	Asp	Glu	340	Leu	Thr	Lys	Asn	345	Gln	Val	Ser	Leu	Thr
Cys	Leu	Val	Lys	Gly	Phe	Tyr	355	Pro	Ser	Asp	Ile	360	Ala	Val	Glu	Trp	Glu
Ser	370	Asn	Gly	Gln	Pro	Glu	375	Asn	Asn	Tyr	Lys	380	Thr	Pro	Pro	Val	Leu
385	Asp	Ser	Asp	Gly	Ser	Phe	390	Phe	Leu	Tyr	Ser	395	Lys	Leu	Thr	Val	Asp
Ser	Arg	Trp	Gln	Gln	Gly	Asn	405	Val	Phe	Ser	Cys	410	Ser	Ser	Val	Met	His
Ala	Leu	His	Asn	His	Tyr	Thr	420	Gln	Lys	Ser	Leu	425	Ser	Leu	Ser	Leu	Pro
Lys	Gly	Gly	Gly	Gly	Ser	Gly	435	Val	Gln	Leu	Leu	440	Glu	Ser	Gly	Gly	Gly
Leu	450	Val	Gln	Pro	Gly	Gly	455	Ser	Leu	Arg	Leu	460	Ser	Cys	Ala	Ala	Ser
465	Phe	Thr	Phe	Ala	Trp	Tyr	470	Asp	Met	Gly	Trp	475	Val	Arg	Gln	Ala	Pro
Lys	Gly	Leu	Glu	Trp	Val	Ser	485	Ser	Ser	Ile	Asp	490	Trp	His	Gly	Glu	Val
Tyr	Tyr	Ala	Asp	Ser	Val	Lys	500	Arg	Phe	Thr	Ile	505	Thr	Ser	Arg	Asp	Asn
Ser	Lys	515	Thr	Leu	Tyr	Leu	520	Gln	Met	Asn	Ser	525	Leu	Arg	Ala	Glu	Asp
Thr	530	Ala	Val	Tyr	Tyr	Cys	535	Ala	Thr	Ala	Glu	540	Asp	Glu	Pro	Gly	Tyr
545	Tyr	Trp	Gly	Gln	Gly	Thr	550	Leu	Val	Thr	Val	555	Ser	Ser	Thr	Val	Ala
Pro	Ser	Gly	Ser	Glu	Val	Gln	565	Leu	Leu	Glu	Ser	570	Gly	Gly	Gly	Gly	Val
Gln	Pro	Gly	Gly	Ser	Leu	Arg	580	Leu	Ser	Cys	Ala	585	Ala	Ala	Ser	Gly	Phe
Phe	Arg	Asn	Phe	Gly	Met	Gly	595	Trp	Val	Arg	Gln	600	Ala	Pro	Gly	Lys	Gly
Leu	610	Glu	Trp	Val	Ser	Trp	615	Ile	Ile	Ser	Ser	620	Gly	Thr	Glu	Thr	Tyr
625	Ala	Asp	Ser	Val	Lys	Gly	630	Arg	Phe	Thr	Ile	635	Ser	Arg	Asp	Asn	Ser
Asn	Thr	Leu	Tyr	Leu	Gln	Met	645	Asn	Ser	Leu	Arg	650	Ala	Glu	Asp	Thr	Ala
Val	Tyr	Tyr	660	Cys	Ala	Lys	Ser	Leu	Gly	Arg	Phe	665	Asp	Tyr	Trp	Gly	Gln
Gly	Thr	Leu	675	Val	Thr	Val	Ser	680	Ser			685					
690							695										

<211> 693
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 196

Gln	Val	Gln	Leu	Gln	Gln	Pro	Gly	Ala	Glu	Leu	Val	Lys	Pro	Gly	Ala
1				5					10					15	
Ser	Val	Lys	Met	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr
			20					25					30		
Asn	Met	His	Trp	Val	Lys	Gln	Thr	Pro	Gly	Arg	Gly	Leu	Glu	Trp	Ile
		35					40					45			
Gly	Ala	Ile	Tyr	Pro	Gly	Asn	Gly	Asp	Thr	Ser	Tyr	Asn	Gln	Lys	Phe
	50					55				60					
Lys	Gly	Lys	Ala	Thr	Leu	Thr	Ala	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr
65					70					75					80
Met	Gln	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys
			85					90						95	
Ala	Arg	Ser	Thr	Tyr	Tyr	Gly	Gly	Asp	Trp	Tyr	Phe	Asn	Val	Trp	Gly
			100					105					110		
Ala	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser
		115					120					125			
Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala
	130					135					140				
Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val
145					150					155					160
Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala
			165						170					175	
Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val
		180						185					190		
Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His
		195					200					205			
Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys
	210					215					220				
Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly
225					230					235					240
Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
			245						250					255	
Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
		260						265					270		
Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
		275					280					285			
His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
	290					295					300				
Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
305					310					315					320
Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
			325						330					335	
Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
		340						345					350		
Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser
		355					360					365			
Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
	370					375					380				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
			405						410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Asp	Ile	Gln	Met	Thr
	450					455					460				
Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile
465					470					475					480
Thr	Cys	Arg	Ala	Ser	Arg	Pro	Ile	Ser	Asp	Trp	Leu	His	Trp	Tyr	Gln
			485						490					495	
Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile	Ala	Trp	Ala	Ser	Ser
			500					505					510		
Leu	Gln	Gly	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr
		515					520					525			
Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr
	530					535					540				

PB62748

Tyr 545 Tyr Cys Leu Gln Glu 550 Gly Trp Gly Pro 555 Pro Thr Phe Gly Gln Gly 560
 Thr Lys Val Glu Ile 565 Lys Arg Thr Val Ala 570 Ala Pro Ser Gly Ser Gly 575
 Val Gln Leu Leu 580 Glu Ser Gly Gly Gly 585 Leu Val Gln Pro Gly Gly Ser 590
 Leu Arg Leu 595 Ser Cys Ala Ala Ser Gly Phe Thr Phe Ala Trp Tyr Asp 605
 Met Gly 610 Trp Val Arg Gln Ala 615 Pro Gly Lys Gly Leu Glu Trp Val Ser 620
 Ser Ile Asp Trp His Gly 630 Glu Val Thr Tyr Tyr 635 Ala Asp Ser Val Lys 640
 Gly Arg Phe Thr Ile 645 Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu 655
 Gln Met Asn Ser 660 Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala 670
 Thr Ala Glu 675 Asp Glu Pro Gly Tyr 680 Asp Tyr Trp Gly Gln Gly Thr Leu 685
 Val Thr Val Ser Ser 690

<210> 197

<211> 701

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 197

Gln 1 Val Gln Leu Gln 5 Gln Pro Gly Ala Glu 10 Leu Val Lys Pro Gly Ala 15
 Ser Val Lys Met 20 Ser Cys Lys Ala Ser 25 Gly Tyr Thr Phe Thr Ser Tyr 30
 Asn Met His 35 Trp Val Lys Gln Thr 40 Pro Gly Arg Gly Leu Glu Trp Ile 45
 Gly Ala Ile Tyr Pro Gly Asn 55 Gly Asp Thr Ser Tyr Asn Gln Lys Phe 60
 Lys 65 Gly Lys Ala Thr Leu 70 Thr Ala Asp Lys Ser 75 Ser Ser Thr Ala Tyr 80
 Met Gln Leu Ser Ser 85 Leu Thr Ser Glu Asp Ser 90 Ala Val Tyr Tyr Cys 95
 Ala Arg Ser Thr 100 Tyr Tyr Gly Gly Asp Trp Tyr Phe Asn Val Trp Gly 110
 Ala Gly Thr 115 Leu Val Thr Val Ser 120 Ser Ala Ser Thr Lys Gly Pro Ser 125
 Val Phe Pro Leu Ala Pro Ser 135 Ser Lys Ser Thr Ser Gly Gly Thr Ala 140
 Ala 145 Leu Gly Cys Leu Val 150 Lys Asp Tyr Phe Pro Glu Pro Val Thr Val 160
 Ser Trp Asn Ser Gly 165 Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala 175
 Val Leu Gln Ser Ser 180 Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val 190
 Pro Ser Ser 195 Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His 205
 Lys Pro 210 Ser Asn Thr Lys Val 215 Asp Lys Lys Val Glu Pro Lys Ser Cys 220
 Asp 225 Lys Thr His Thr Cys 230 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly 240
 Gly Pro Ser Val Phe 245 Leu Phe Pro Pro Lys 250 Pro Lys Asp Thr Leu Met 255
 Ile Ser Arg Thr 260 Pro Glu Val Thr Cys 265 Val Val Val Asp Val Ser His 270
 Glu Asp Pro Glu Val Lys Phe Asn 280 Trp Tyr Val Asp Gly Val Glu Val 285
 His Asn Ala Lys Thr Lys Pro 295 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr 300
 Arg 305 Val Val Ser Val Leu 310 Thr Val Leu His Gln Asp Trp Leu Asn Gly 320
 Lys Glu Tyr Lys Cys 325 Lys Val Ser Asn Lys 330 Ala Leu Pro Ala Pro Ile 335
 Glu Lys Thr Ile 340 Ser Lys Ala Lys Gly 345 Gln Pro Arg Glu Pro Gln Val 350
 Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser

Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu
355	370					375	360				365				
Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro
385					390					395					400
Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val
				405					410					415	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met
			420					425					430		
His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser
		435					440					445			
Pro	Gly	Lys	Thr	Val	Ala	Ala	Pro	Ser	Gly	Ser	Glu	Val	Gln	Leu	Leu
	450					455					460				
Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser
465					470					475					480
Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Arg	Asn	Phe	Gly	Met	Gly	Trp	Val
				485					490					495	
Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Trp	Ile	Ile	Ser
			500					505					510		
Ser	Gly	Thr	Glu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr
		515					520					525			
Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser
	530					535					540				
Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Ser	Leu	Gly
545					550					555					560
Arg	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Thr
				565					570					575	
Val	Ala	Ala	Pro	Ser	Gly	Ser	Gly	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly
			580					585					590		
Gly	Leu	Val	Gln	Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser
		595					600					605			
Gly	Phe	Thr	Phe	Ala	Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro
	610					615				620					
Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ser	Ile	Asp	Trp	His	Gly	Glu	Val
625					630					635					640
Thr	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp
				645					650					655	
Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu
			660					665					670		
Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Thr	Ala	Glu	Asp	Glu	Pro	Gly	Tyr
		675					680					685			
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser			
	690					695					700				

<210> 198

<211> 567

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 198

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

Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
			180					185					190		
Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro
		195					200					205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys
	210					215					220				
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
	225				230					235					240
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
				245					250					255	
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
			260					265					270		
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
		275					280					285			
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val
	290					295					300				
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
	305				310					315					320
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
				325					330					335	
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
			340					345					350		
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Ser
		355					360					365			
Cys	Ala	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
	370					375					380				
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
	385				390					395					400
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Val	Ser	Lys	Leu	Thr	Val	Asp	Lys
				405					410					415	
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
			420					425					430		
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
		435					440					445			
Lys	Gly	Ser	Glu	Val	Gln	Leu	Leu	Val	Ser	Gly	Gly	Gly	Leu	Val	Gln
	450					455					460				
Pro	Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe
	465				470				475						480
Lys	Ala	Tyr	Pro	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu
				485					490					495	
Glu	Trp	Val	Ser	Glu	Ile	Ser	Pro	Ser	Gly	Ser	Tyr	Thr	Tyr	Tyr	Ala
			500					505					510		
Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn
		515					520					525			
Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val
	530					535					540				
Tyr	Tyr	Cys	Ala	Lys	Asp	Pro	Arg	Lys	Leu	Asp	Tyr	Trp	Gly	Gln	Gly
	545				550					555					560
Thr	Leu	Val	Thr	Val	Ser	Ser									
				565											

<210> 199

<211> 340

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 199

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

[illegible]

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<210> 200
<211> 220
<212> PRT
<213> Artificial Sequence
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<220>
<223> Humanised

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

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<210> 201
<211> 552
<212> PRT
<213> Artificial Sequence
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 $\langle 220 \rangle$

<223> Humanised

<400> 201

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Leu His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Gly Met Ile Asp Pro Ser Asn Ser Asp Thr Arg Phe Asn Pro Asn Phe
 50 55 60
 Lys Asp Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Thr Tyr Arg Ser Tyr Val Thr Pro Leu Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu
 130 135 140
 Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
 145 150 155 160
 Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
 165 170 175
 Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser
 180 185 190
 Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro
 195 200 205
 Ser Asn Thr Lys Val Asp Lys Arg Val Ala Pro Glu Phe Leu Gly Gly
 210 215 220
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 225 230 235 240
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
 245 250 255
 Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 260 265 270
 Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg
 275 280 285
 Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 290 295 300
 Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
 305 310 315 320
 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 325 330 335
 Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu
 340 345 350
 Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 355 360 365
 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 370 375 380
 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp
 385 390 395 400
 Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
 405 410 415
 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu
 420 425 430
 Gly Lys Gly Ser Glu Val Gln Leu Val Ser Gly Gly Gly Leu Val
 435 440 445
 Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
 450 455 460
 Phe Lys Ala Tyr Pro Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly
 465 470 475 480
 Leu Glu Trp Val Ser Glu Ile Ser Pro Ser Gly Ser Tyr Thr Tyr Tyr
 485 490 495
 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
 500 505 510
 Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
 515 520 525
 Val Tyr Tyr Cys Ala Lys Asp Pro Arg Lys Leu Asp Tyr Trp Gly Gln
 530 535 540
 Gly Thr Leu Val Thr Val Ser Ser
 545 550

<210> 202

<211> 449
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 202

Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5				10						15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Ser	Tyr
			20					25					30		
Trp	Leu	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Gly	Met	Ile	Asp	Pro	Ser	Asn	Ser	Asp	Thr	Arg	Phe	Asn	Pro	Asn	Phe
	50					55					60				
Lys	Asp	Arg	Phe	Thr	Ile	Ser	Ala	Asp	Thr	Ser	Lys	Asn	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Thr	Tyr	Arg	Ser	Tyr	Val	Thr	Pro	Leu	Asp	Tyr	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe
		115					120					125			
Pro	Leu	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu
	130					135					140				
Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp
145					150					155					160
Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu
				165					170					175	
Gln	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser
			180					185					190		
Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro
		195					200					205			
Ser	Asn	Thr	Lys	Val	Asp	Lys	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys
	210					215					220				
Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro
225					230					235					240
Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser
				245					250					255	
Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp
			260				265						270		
Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn
		275					280					285			
Ala	Lys	Thr	Lys	Pro	Arg	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	
	290					295				300					
Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
305					310					315					320
Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys
				325					330					335	
Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
			340					345					350		
Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Ser
		355					360					365			
Cys	Ala	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
	370					375				380					
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Pro	Pro	Val	Leu	
385					390					395				400	
Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Val	Ser	Lys	Leu	Thr	Val	Asp	Lys
				405					410					415	
Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
			420					425					430		
Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly
		435					440					445			
Lys															

<210> 203
 <211> 222
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 203

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

<210> 204

<211> 434

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 204

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 20 25 30
 Trp Leu His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Gly Met Ile Asp Pro Ser Asn Ser Asp Thr Arg Phe Asn Pro Asn Phe
 50 55 60
 Lys Asp Arg Phe Thr Ile Ser Ala Asp Thr Ser Lys Asn Thr Ala Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Thr Tyr Arg Ser Tyr Val Thr Pro Leu Asp Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe
 115 120 125
 Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu
 130 135 140
 Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
 145 150 155 160
 Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu
 165 170 175
 Gln Ser Ser Gly Leu Tyr Ser Leu Ser Val Val Thr Val Pro Ser
 180 185 190
 Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro
 195 200 205
 Ser Asn Thr Lys Val Asp Lys Arg Val Ala Pro Glu Phe Leu Gly Gly
 210 215 220
 Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
 225 230 235 240
 Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu
 245 250 255
 Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
 260 265 270
 Asn Ala Lys Thr Lys Pro Arg Glu Gln Phe Asn Ser Thr Tyr Arg
 275 280 285

PB62748

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
 290 295 300
 Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu
 305 310 315 320
 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr
 325 330 335
 Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn Gln Val Ser Leu
 340 345 350
 Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
 355 360 365
 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
 370 375 380
 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp
 385 390 395 400
 Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His
 405 410 415
 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu
 420 425 430
 Gly Lys

<210> 205
 <211> 1365
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 205
 caggtgcagc tcgtgcagag cggcgccgaa gtgaaaaagc ccggcagcag cgtgaagggtg 60
 agctgcaagg cctccggctt ctacatcaag gacacctaca tgcactgggt caggcagggt 120
 cctggccagg gcctggagtg gatgggcact atcgaccccg ccaacggcaa caccaagtac 180
 gtgcccaggt tccagggcag ggtgaccatc accgccgatg agagcaccag caccgcctac 240
 atggaactga gcagcctgag gtctgaggac accgccgtgt actattgcgc caggagcatc 300
 tacgacgact accactacga cgactactac gccatggact actggggaca gggcacacta 360
 gtgaccgtgt ccagcgccag caccaagggc cccagcgtgt tccccctggc cccagcagc 420
 aagagcacca gcggcggcac agccgccctg ggctgccttg tgaaggacta cttccccgaa 480
 ccggtgaccg tgtcctggaa cagcggagcc ctgaccagcg gcgtgcacac cttccccgcc 540
 gtgctgcaga gcagcggcct gtacagcctg agcagcgtgg tgaccgtgcc cagcagcagc 600
 ctgggcaccc agacctacat ctgtaacgtg aaccacaagc ccagcaacac caagggtggac 660
 aagaagggtg agcccaagag ctgtgacaag acccacacct gccccccctg ccctgcccc 720
 gagctgctgg gaggccccag cgtgttcctg tccccccca agcctaagga caccctgatg 780
 atcagcagaa cccccgaggt gacctgtgtg gtggtggatg tgagccacga ggaccctgag 840
 gtgaagttca actggtacgt ggacggcgtg gaggtgcaca atgccaagac caagcccagg 900
 gaggagcagt acaactgacac ctaccgggtg gtgtccgtgc tgaccgtgct gcaccaggat 960
 tggctgaacg gcaaggagta caagtgtgag gtgtccaaca aggccctgcc tgccccctatc 1020
 gagaaaacca tcagcaaggc caagggccag cccagagagc cccaggtgta caccctgccc 1080
 cctagcagag atgagctgac caagaaccag gtgtccctga cctgcctggg gaagggcttc 1140
 taccacagc acatcgccgt ggagtgggag agcaacggcc agcccagaa caactacaag 1200
 accaccccc ctgtgtgga cagcagctgc agcttcttcc tgtacagcaa gctgaccgtg 1260
 gacaagagca gatggcagca gggcaacgtg ttcagctgct ccgtgatgca cgaggccctg 1320
 cacaatcact acaccagaa gagcctgagc ctgtccctg gcaag 1365

<210> 206
 <211> 1365
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 206
 caggtgcagc tgggtgcagtc tggggctgag gtgaagaagc ctgggtcctc ggtgaagggtc 60
 tcctgcaagg ctcttgatt ctacattaaa gacacctata tgcactgggt gcgacaggcc 120
 cctggacaag ggcttgagtg gatgggaacg attgatcctg cgaatggtaa tactaaatat 180
 gtcccgaagt tccagggcag agtcacgatt accgcccagc aatccacgag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaagcatc 300
 tatgatgatt accactacga cgattactat cgtatggact actggggcca agggacacta 360
 gtcacagtct cctcagcctc caccaagggc ccacgcgtct tccccctggc accctcctcc 420
 aagagcacct ctgggggcac agcggccctg ggctgccttg tcaaggacta cttccccgaa 480
 ccggtgacgg tgtcgtggaa ctcaggcgcc ctgaccagcg gcgtgcacac cttccccggt 540
 gtcctacagt cctcaggact ctactccctc agcagcgtgg tgaccgtgcc ctccagcagc 600
 ttgggcaccc agacctacat ttgcaacgtg aatccaagc ccagcaacac caagggtggac 660
 aagaaagtgt agcccaaact ttgtgacaaa actcacacat gccaccctg cccagcacct 720

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gaactcctgg ggggaccgtc agtcttcctc ttccccccaa aacccaagga caccctcatg 780
atctcccggg cccctgaggt cacatgcgtg gtgggtggacg tgagccacga agaccctgag 840
gtcaagttca actgggtacgt ggacggcgctg gaggtgcata atgccaagac aaagccgcgg 900
gaggagcagt acaacagcac gtaccgtgtg gtcagcgtcc tcaccgtcct gcaccaggac 960
tggctgaatg gcaaggagta caagtgaag gtctccaaca aagccctccc agcccccatc 1020
gagaaaacca tctccaaagc caaagggcag ccccgagaac cacaggtgta caccctgccc 1080
ccatccccggg atgagctgac caagaaccag gtcagcctga cctgcctggg caaaggcttc 1140
tatcccagcg acatcgccgt ggagtgggag agcaatgggc agccggagaa caactacaag 1200
accacgcctc ccgtgctgga ctccgacggc tccttcttcc tctacagcaa gctcaccgtg 1260
gacaagagca ggtggcagca ggggaacgtc ttctcatgct ccgtgatgca tgaggctctg 1320
cacaaccact acacgcagaa gagcctctcc ctgtctccgg gtaaa 1365

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<210> 207

<211> 567

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 207

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Gln Val Thr Leu Arg Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln
1      5      10      15
Thr Leu Thr Leu Thr Cys Thr Phe Ser Gly Phe Ser Leu Ser Thr Ser
20      25      30
Gly Met Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
35      40      45
Trp Leu Ala His Ile Tyr Trp Asp Asp Lys Arg Tyr Asn Pro Ser
50      55      60
Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
65      70      75      80
Val Leu Thr Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr
85      90      95
Cys Ala Arg Arg Glu Thr Val Phe Tyr Trp Tyr Phe Asp Val Trp Gly
100      105      110
Arg Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser
115      120      125
Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala
130      135      140
Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val
145      150      155      160
Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala
165      170      175      180
Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val
180      185      190      195
Pro Ser Ser Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp His
195      200      205      210
Lys Pro Ser Asn Thr Lys Val Asp Lys Thr Val Glu Arg Lys Cys Cys
210      215      220      225
Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val
225      230      235      240
Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
245      250      255      260
Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
260      265      270      275
Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
275      280      285      290
Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser
290      295      300      305
Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
305      310      315      320
Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile
315      320      325      330
Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
330      335      340      345
Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
345      350      355      360
Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
360      365      370      375
Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser
375      380      385      390
Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
390      395      400      405
Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
405      410      415      420
His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Gly
420      425      430

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Arg	Trp	Gln	Glu 420	Gly	Asn	Val	Phe	Ser 425	Cys	Ser	Val	Met	His 430	Glu	Ala
Leu	His	Asn 435	His	Tyr	Thr	Gln	Lys 440	Ser	Leu	Ser	Leu	Ser 445	Leu	Gly	Lys
Gly	Ser 450	Gly	Val	Gln	Leu	Leu 455	Glu	Ser	Gly	Gly	Gly 460	Leu	Val	Gln	Pro
Gly 465	Gly	Ser	Leu	Arg	Leu 470	Ser	Cys	Ala	Ala	Ser 475	Gly	Phe	Thr	Phe	Ala 480
Trp	Tyr	Asp	Met	Gly 485	Trp	Val	Arg	Gln	Ala 490	Pro	Gly	Lys	Gly	Leu 495	Glu
Trp	Val	Ser	Ser 500	Ile	Asp	Trp	His	Gly 505	Glu	Val	Thr	Tyr	Tyr 510	Ala	Asp
Ser	Val	Lys 515	Gly	Arg	Phe	Thr	Ile 520	Ser	Arg	Asp	Asn	Ser 525	Lys	Asn	Thr
Leu	Tyr 530	Leu	Gln	Met	Asn	Ser 535	Leu	Arg	Ala	Glu	Asp 540	Thr	Ala	Val	Tyr
Tyr 545	Cys	Ala	Thr	Ala	Glu 550	Asp	Glu	Pro	Gly	Tyr 555	Asp	Tyr	Trp	Gly	Gln 560
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<210> 209

<211> 568

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 209

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Gly	Met	Gly 35	Val	Ser	Trp	Ile	Arg 40	Gln	Pro	Pro	Gly	Lys 45	Gly	Leu	Glu
Trp	Leu 50	Ala	His	Ile	Tyr	Trp 55	Asp	Asp	Asp	Lys	Arg 60	Tyr	Asn	Pro	Ser
Leu 65	Lys	Ser	Arg	Leu	Thr 70	Ile	Ser	Lys	Asp	Thr 75	Ser	Arg	Asn	Gln 80	Val
Val	Leu	Thr	Met	Thr 85	Asn	Met	Asp	Pro	Val 90	Asp	Thr	Ala	Thr	Tyr 95	Tyr
Cys	Ala	Arg	Arg 100	Glu	Thr	Val	Phe 105	Tyr	Trp	Tyr	Phe	Asp	Val 110	Trp	Gly
Arg	Gly	Thr 115	Leu	Val	Thr	Val	Ser 120	Ser	Ala	Ser	Thr	Lys 125	Gly	Pro	Ser
Val	Phe 130	Pro	Leu	Ala	Pro	Cys 135	Ser	Arg	Ser	Thr	Ser 140	Glu	Ser	Thr	Ala
Ala 145	Leu	Gly	Cys	Leu	Val 150	Lys	Asp	Tyr	Phe	Pro	Glu 155	Pro	Val	Thr 160	Val
Ser	Trp	Asn	Ser	Gly 165	Ala	Leu	Thr	Ser	Gly 170	Val	His	Thr	Phe	Pro 175	Ala
Val	Leu	Gln	Ser 180	Ser	Gly	Leu	Tyr	Ser 185	Leu	Ser	Ser	Val	Val 190	Thr	Val
Pro	Ser 195	Ser	Ser	Leu	Gly	Thr	Lys 200	Thr	Tyr	Thr	Cys	Asn 205	Val	Asp	His
Lys	Pro 210	Ser	Asn	Thr	Lys	Val 215	Asp	Lys	Arg	Val	Glu 220	Ser	Lys	Tyr	Gly
Pro 225	Pro	Cys	Pro	Pro	Cys 230	Pro	Ala	Pro	Glu	Phe 235	Glu	Gly	Gly	Pro	Ser
Val	Phe	Leu	Phe	Pro 245	Pro	Lys	Pro	Lys	Asp 250	Thr	Leu	Met	Ile	Ser 255	Arg
Thr	Pro	Glu	Val 260	Thr	Cys	Val	Val	Val	Asp 265	Val	Ser	Gln	Glu 270	Asp	Pro
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Lys	Thr 290	Lys	Pro	Arg	Glu	Glu 295	Gln	Phe	Asn	Ser	Thr 300	Tyr	Arg	Val	Val
Ser 305	Val	Leu	Thr	Val	Leu 310	His	Gln	Asp	Trp	Leu 315	Asn	Gly	Lys	Glu	Tyr
Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr

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Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu
Pro	Pro	Ser	Gln	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser
Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp
Ser	Asp	Gly	Ser	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	
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Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Leu	Gly	Lys
Gly	Ser	Gly	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro
Gly	Gly	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ala
Trp	Tyr	Asp	Met	Gly	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu
Trp	Val	Ser	Ser	Ile	Asp	Trp	His	Gly	Glu	Val	Thr	Tyr	Tyr	Ala	Asp
Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr
Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr
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<220>
 <223> Humanised

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 tggactttcg gacagggcac caagctggag attaagcgta cgggtggccgc cccagcgtg 360
 ttcattctcc ccccgagcga tgagcagctg aagagcggca ccgccagcgt ggtgtgtctg 420
 ctgaacaact tctacccccg ggaggccaag gtgcagtggg aggtggacaa tgccctgcag 480
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 agcagcacc tgaccctgag caaggccgac tacgagaagc acaaggtgta cgctgtgag 600
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<210> 211
 <211> 1353
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 211
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 cagccaccgg gcaaaggcct ggagtggctg gccacatct actgggacga cgacaagagg 180
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 <211> 654
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 212						
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 <211> 1347
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 213						
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cccggcaagg	gcctggagtg	gctgggcgtg	atctgggcaa	gcggcggcac	cgactacaac	180
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<210> 214
 <211> 660
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 214						
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atcagcagcc	tgcaggccga	ggacgtggcc	gtgtactact	gccagaacgt	ccacagcttc	300
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

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<210> 216
 <211> 1731
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 216						
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<210> 217

<211> 1014

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 217

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<210> 218

<211> 1032

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 218

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<210> 219

<211> 1710

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 219

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<210> 220

<211> 1029

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 220

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<210> 221

<211> 1713

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 221

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<210> 222

<211> 1731

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 222

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<210> 223

<211> 1707

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 223

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<210> 224

<211> 1725

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 224

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<210> 225

<211> 1734

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 225

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<210> 226

<211> 1731

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 226

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<210> 227

<211> 1713

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 227

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<210> 228

<211> 1359

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 228

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ccagggcagg	gactggaatg	gatgggcaac	atcaacccca	acaacggcgg	caccaactac	180
aaccagaagt	tcaaggaccg	ggtcaccatg	accaccgaca	ccagcaccag	caccgcctac	240
atggaactgc	ggagcctgag	aagcgacgac	accgccgtgt	actactgcgc	ccggtggatc	300
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<210> 229

<211> 1029

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 229

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atcagctgca	gaagcagcca	gagcatcgtc	cagagcaacg	gcgacaccta	cctggaatgg	120
tatctgcaga	agcccggcca	gtccccccag	ctgctgatct	acagagttag	caaccggttc	180
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tactactgcg	ccaaggaccc	caggaagctg	gactattggt	gccagggcac	tctggtgacc	1020
tgagcagc						1029

<210> 230

<211> 1011

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 230

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tatctgcaga	agccccgcca	gtccccccag	ctgctgatct	acagagttag	caaccgggtc	180
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tacaccttcg	gccagggcac	caagctggaa	atcaagcgta	cggtggccgc	ccccagcgtg	360
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tacctgcaga	tgaactctct	gagggccgag	gacaccgccg	tgtactactg	cgccaaggac	960
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<210> 231

<211> 657

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 231

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tatctgcaga	agccccgcca	gtccccccag	ctgctgatct	acagagttag	caaccgggtc	180
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ttcatcttcc	ccccagcga	tgagcagctg	aagagcggca	ccgccagcgt	ggtgtgtctg	420
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<210> 232

<211> 1821

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 232

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atggaactcg	ggagcctgag	aagcgacgac	accgcctgtg	actactgcgc	ccggtggatc	300
ctgtactacg	gccggtccaa	gtggtacttc	gacgtgtggg	gcaggggcac	actagtgacc	360

gtgtccagcg	ccagcaccaa	gggccccagc	gtgttcccc	tggccccag	cagcaagagc	420
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<210> 233

<211> 1623

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 233

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<211> 1839

<212> DNA

<213> Artificial Sequence

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<223> Humanised

<400> 234

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<210> 235

<211> 1539

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 235

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<210> 236

<211> 1557

<212> DNA

<213> Artificial Sequence

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<223> Humanised

<400> 236

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<210> 237

<211> 1734

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 237

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<210> 238

<211> 1752

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 238

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<211> 1722

<212> DNA

<213> Artificial Sequence

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<400> 239

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<210> 241
 <211> 1641
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 242

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<210> 243

<211> 642

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanised

<400> 243

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35     40     45
Gly Ala Gly Ala Gly Ala Gly Thr Gly Ala Gly Cys Thr Thr Cys Ala
50     55     60
Gly Cys Thr Gly Cys Cys Gly Gly Gly Cys Cys Ala Gly Cys Cys Ala
65     70     75     80
Gly Ala Gly Cys Ala Thr Cys Gly Gly Cys Ala Cys Cys Ala Ala Cys
85     90     95
Ala Thr Cys Cys Ala Cys Thr Gly Gly Thr Ala Thr Cys Ala Gly Cys
100    105   110
Ala Gly Cys Gly Gly Ala Cys Cys Ala Ala Cys Gly Gly Cys Ala Gly
115    120   125
Cys Cys Cys Cys Ala Gly Gly Cys Thr Gly Cys Thr Gly Ala Thr Cys
130    135   140
Ala Ala Gly Thr Ala Cys Gly Cys Cys Ala Gly Cys Gly Ala Gly Thr
145    150   155   160
Cys Cys Ala Thr Cys Ala Gly Cys Gly Gly Cys Ala Thr Cys Cys Cys
165    170   175
Cys Ala Gly Cys Cys Gly Gly Thr Thr Cys Ala Gly Cys Gly Gly Cys
180    185   190
Ala Gly Cys Gly Gly Cys Thr Cys Cys Gly Gly Cys Ala Cys Cys Gly
195    200   205
Ala Cys Thr Thr Cys Ala Cys Cys Cys Thr Gly Ala Gly Cys Ala Thr
210    215   220
Cys Ala Ala Cys Ala Gly Cys Gly Thr Gly Gly Ala Gly Ala Gly Cys
225    230   235   240
Gly Ala Gly Gly Ala Thr Ala Thr Cys Gly Cys Cys Gly Ala Cys Thr
245    250   255
Ala Cys Thr Ala Cys Thr Gly Cys Cys Ala Gly Cys Ala Gly Ala Ala
260    265   270
Cys Ala Ala Cys Ala Ala Cys Thr Gly Gly Cys Cys Cys Ala Cys Cys
275    280   285
Ala Cys Thr Thr Cys Gly Gly Ala Gly Cys Cys Gly Gly Cys Ala
290    295   300

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 370 375 380
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 405 410 415
 Cys Thr Ala Cys Cys Cys Cys Gly Gly Ala Gly Gly Cys Cys
 420 425 430
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 435 440 445
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 450 455 460
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 465 470 475 480
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 485 490 495
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 515 520 525
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 565 570 575
 Gly Cys Cys Thr Gly Cys Gly Ala Ala Gly Thr Gly Ala Cys Cys Cys
 580 585 590
 Ala Cys Cys Ala Gly Gly Gly Cys Cys Thr Gly Thr Cys Cys Ala Gly
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 Gly Cys

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 244
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 <211> 1347
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Humanised

<400> 245

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<210> 246
<211> 1617
<212> DNA
<213> Artificial Sequence

<220>
<223> Humanised

<400> 246

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<210> 247
<211> 909
<212> DNA
<213> Artificial Sequence

<220>
<223> Humanised

<400> 247

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 <211> 1707
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 248						
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Humanised

<400> 249						
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<211> 1713

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 250

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<210> 251

<211> 642

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 251

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<220>

<223> Humanised

<400> 252

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<211> 1707

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 253

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<220>
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<213> Artificial Sequence

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<400> 256

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<210> 257

<211> 2088

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 257

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ctgcagatga	acagcctgag	ggccgaggac	accgccgtct	actactgcgc	caagagcctg	2040
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<210> 258

<211> 2079

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 258

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aaccagaagt	tcaagggcaa	ggccaccctg	accgccgaca	agagcagcag	caccgcctac	240
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<210> 259

<211> 2103

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 259

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aaccagaagt	tcaagggcaa	ggccaccctg	accgccgaca	agagcagcag	caccgcctac	240
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agc						2103

<210> 260

<211> 1701

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 260

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<210> 261

<211> 1020

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 261

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<210> 262

<211> 660

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 262

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<210> 263

<211> 1656

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 263

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<211> 1347

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<220>
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<220>
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<400> 265
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<212> DNA
<213> Artificial Sequence

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<210> 267

<211> 1701

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 267

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<210> 268

<211> 1704

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 268

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<210> 269

<211> 1704

<212> DNA

<213> Artificial Sequence

<220>

<223> Humanised

<400> 269

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<211> 1641

<212> DNA

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<400> 270

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