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<110> ULTRAHUMAN ONE LIMITED

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<151> 2017-08-18

<150> GB 1701351.7

<151> 2017-01-27

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Lys Ser

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Ser Ala Ser Tyr Arg Tyr Ser

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Gln Gln Tyr Asn Thr Asp Pro Leu Thr

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Lys Xaa

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Gln Xaa Xaa Xaa Xaa Xaa Pro Leu Thr
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Lys Gly

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Lys Gly

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Thr Arg Gln Tyr Phe Pro Phe Ala Tyr
1 5

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Gln Gln Tyr Ser Thr Asp Pro Leu Thr
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Gly Phe Ser Leu Ser Thr Phe Gly Tyr Gly Val Gly
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Arg Ala Ser Gln Ser Val Gly Thr Asn Leu Ala
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Tyr Ala Ser Tyr Arg Tyr Thr
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Gln Gln Tyr Ser Asn Asp Pro Leu Thr
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Ser Ala Ser Asn Arg Tyr Ser
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Thr Arg Val Tyr Phe Pro Phe Ala Tyr
1 5

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

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Leu Ala His Ile Trp Trp Asp Asp Glu Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

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

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

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<400> 66

Thr Ser Gly Met Gly Val Gly
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His Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser Leu Lys Ser
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Gly Phe Ser Leu Ser Thr Ser Gly Met

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Trp Trp Asp Asp Asp Lys

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Ala Arg Thr Arg Arg Tyr Phe Pro Phe Ala Tyr

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Gln Asn Val Gly Thr Asn
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Phe Ser Leu Ser Thr Ser Gly Met Gly
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Tyr Asn Thr Asp Pro Leu
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<223> CDR

<400> 81
Leu Ala His Ile Trp Trp Asp Asp Asp Lys Tyr Tyr
1 5 10

<210> 82
<211> 10
<212> PRT
<213> Muridae

<220>
<223> CDR

<400> 82
Ala Arg Thr Arg Arg Tyr Phe Pro Phe Ala
1 5 10

<210> 83
<211> 7
<212> PRT
<213> Muridae

<220>
<223> CDR

<400> 83
Gly Thr Asn Val Ala Trp Tyr
1 5

<210> 84
<211> 10
<212> PRT
<213> Muridae

<220>
<223> CDR

<400> 84
Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr
1 5 10

<210> 85
<211> 8
<212> PRT
<213> Muridae

<220>
<223> CDR

<400> 85
Gln Gln Tyr Asn Thr Asp Pro Leu
1 5

<210> 86
<211> 119
<212> PRT
<213> Muridae

<220>
<223> VH DOMAIN

<400> 86
Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu Ser Thr Ser
20 25 30
Gly Met Gly Val Gly Trp Ile Arg Gln Pro Ser Gly Lys Gly Leu Glu
35 40 45
Trp Leu Ala His Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Gln Leu Thr Ile Ser Lys Asp Thr Ser Arg Asn Gln Val
65 70 75 80
Phe Leu Lys Ile Thr Ser Val Asp Thr Ala Asp Ala Ala Thr Tyr Tyr
85 90 95
Cys Ala Arg Thr Arg Arg Tyr Phe Pro Phe Ala Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser
115

<210> 87
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> VH DOMAIN

<400> 87
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	Gly	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Ala	Leu	Glu
		35					40					45			
Trp	Leu	Ala	His	Ile	Trp	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	Thr	Arg	Arg	Tyr	Phe	Pro	Phe	Ala	Tyr	Trp	Gly	Gln	Gly
			100					105					110		
Thr	Leu	Val	Thr	Val	Ser	Ser									
		115													

<210> 88
 <211> 117
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH DOMAIN

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

<210> 89
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH DOMAIN

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	Phe	Ser	Leu	Ser	Thr	Ser
			20					25					30		

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

<210> 90
 <211> 119
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VH DOMAIN

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

<210> 91
 <211> 107
 <212> PRT
 <213> Muridae

<220>
 <223> VL DOMAIN

Asp	Ile	Val	Met	Thr	Gln	Ser	Gln	Lys	Phe	Met	Ser	Thr	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Ser	Val	Thr	Cys	Lys	Ala	Ser	Gln	Asn	Val	Gly	Thr	Asn
			20					25					30		

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

<210> 92
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL DOMAIN

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

<210> 93
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL DOMAIN

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

<210> 94
 <211> 107
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> VL DOMAIN

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

<210> 95
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified CDR

Thr	Arg	Met	Tyr	Phe	Pro	Phe	Ala	Tyr
1				5				

<210> 96
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Modified CDR

<400> 96
Gly Phe Thr Phe Ser Thr Ser Ser Tyr Gly Met Ser
1 5 10

<210> 97
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 97
Leu Ala Asn Ile Trp Trp Asp Asp Glu Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

<210> 98
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 98
Gln Gln Tyr Asn Asn Asp Pro Leu Thr
1 5

<210> 99
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 99
Arg Ala Ser Gln Ser Val Gly Ser Tyr Leu Ala
1 5 10

<210> 100
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 100
Glu Ala Ser Tyr Arg Ala Ser
1 5

<210> 101
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 101
Thr Arg Ile Tyr Phe Pro Phe Ala Tyr
1 5

<210> 102
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 102
Val Ala Asn Ile Trp Trp Asp Asp Glu Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

<210> 103
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 103
Arg Ala Ser Gln Ser Val Gly Thr Tyr Val Ala
1 5 10

<210> 104
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 104
Asp Ala Ser Asn Arg Tyr Thr
1 5

<210> 105
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 105
Gly Phe Ser Phe Ser Thr Ser Gly Tyr Gly Met Gly
1 5 10

<210> 106
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 106
Leu Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

<210> 107
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 107
Gln Gln Tyr Ser Asn Trp Pro Leu Thr
1 5

<210> 108
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 108
Ala Arg Arg Tyr Phe Pro Phe Ala Tyr
1 5

<210> 109
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 109
Gln Gln Tyr Asn Thr Trp Pro Leu Thr
1 5

<210> 110
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 110
Gly Phe Ser Leu Ser Thr Ser Ser Met Gly Met Ser
1 5 10

<210> 111
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 111
Arg Ala Ser Gln Asn Val Gly Ser Tyr Val Ala
1 5 10

<210> 112
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 112
Gly Arg Arg Tyr Phe Pro Phe Ala Tyr

1

5

<210> 113

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 113

Gly Phe Thr Phe Ser Thr Ser Gly Tyr Gly Met Gly

1

5

10

<210> 114

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 114

Gln Gln Tyr Ser Thr Trp Pro Leu Thr

1

5

<210> 115

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 115

Gly Phe Thr Leu Ser Thr Ser Gly Tyr Gly Val Gly

1

5

10

<210> 116

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 116

Leu Ala Asn Ile Trp Trp Asp Ser Asp Lys Tyr Tyr Val Asp Ser Val

1

5

10

15

Lys Gly

<210> 117
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 117
Arg Ala Ser Gln Asn Val Gly Thr Tyr Leu Ala
1 5 10

<210> 118
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 118
Ser Ala Ser Asn Arg Ala Thr
1 5

<210> 119
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 119
Arg Ala Ser Gln Asp Val Gly Thr Tyr Leu Ala
1 5 10

<210> 120
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 120
Gly Phe Thr Leu Ser Ala Ser Gly Tyr Gly Met Gly
1 5 10

<210> 121
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 121
Val Ala Asn Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

<210> 122
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 122
Arg Ala Ser Gln Asn Val Gly Ser Tyr Leu Ala
1 5 10

<210> 123
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 123
Arg Ala Ser Gln Asn Val Gly Thr Tyr Val Ala
1 5 10

<210> 124
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 124
Asp Ala Ser Asn Arg Tyr Ser
1 5

<210> 125
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 125
Thr Asp Arg Tyr Phe Pro Phe Ala Tyr
1 5

<210> 126
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 126
Gly Phe Thr Phe Ser Thr Ser Gly Trp Ala Trp Gly
1 5 10

<210> 127
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 127
Gln Gln Arg Asn Asn Asp Pro Leu Thr
1 5

<210> 128
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 128
Asp Ala Ser Asn Arg Ala Thr
1 5

<210> 129
<211> 12

<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 129
Gly Phe Thr Leu Ser Thr Ser Gly Tyr Gly Met Ser
1 5 10

<210> 130
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 130
Ser Ala Ser Asn Arg Ala Ser
1 5

<210> 131
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 131
Ile Arg Arg Tyr Phe Pro Phe Ala Tyr
1 5

<210> 132
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 132
Leu Ala His Ile Trp Trp Asp Ser Asp Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

<210> 133
<211> 12

<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 133
Gly Phe Ser Leu Ser Thr Phe Ser Tyr Gly Val Ser
1 5 10

<210> 134
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 134
Asp Ala Ser Tyr Arg Tyr Thr
1 5

<210> 135
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 135
Gly Phe Thr Phe Ser Thr Ser Gly Met Gly Val Ser
1 5 10

<210> 136
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 136
Gly Phe Thr Leu Ser Thr Ser Gly Met Gly Met Ser
1 5 10

<210> 137
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 137

Gln His Tyr Ser Thr Asp Pro Leu Thr
1 5

<210> 138

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 138

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

<210> 139

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 139

Arg Ala Ser Gln Asn Val Gly Ser Asn Val Ala
1 5 10

<210> 140

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 140

Leu Ser His Ile Trp Trp Asp Asp Glu Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

<210> 141

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 141

Val Ala His Ile Trp Trp Asp Asp Asp Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

<210> 142

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 142

Thr Thr Arg Tyr Phe Pro Phe Ala Tyr
1 5

<210> 143

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 143

His Arg Ile Tyr Phe Pro Phe Ala Tyr
1 5

<210> 144

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 144

Gly Phe Ser Leu Ser Thr Ser Ser Met Gly Met Gly
1 5 10

<210> 145

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 145

Arg Ala Ser Gln Asn Val Gly Thr Asn Val Ala
1 5 10

<210> 146

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 146

Asn Ala Ser Asn Arg Ala Ser
1 5

<210> 147

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 147

Ser Ala Tyr Tyr Arg Ala Thr
1 5

<210> 148

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 148

Gln Gln Tyr Ser Thr Leu Pro Leu Thr
1 5

<210> 149

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 149

Ser Arg Leu Tyr Phe Pro Phe Ala Tyr
1 5

<210> 150

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 150

Gly Phe Thr Leu Ser Thr Ser Gly Met Gly Val Ser
1 5 10

<210> 151

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 151

Gln Gln His Asn Asn Asp Pro Leu Thr
1 5

<210> 152

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 152

Phe Ala Ser Asn Arg Ala Thr
1 5

<210> 153

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Modified CDR

<400> 153
Gly Phe Thr Leu Ser Thr Ser Gly Tyr Gly Val Ser
1 5 10

<210> 154
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified

<400> 154
Val Ala His Val Trp Trp Asp Asp Glu Lys Tyr Tyr Val Asp Ser Val
1 5 10 15
Lys Gly

<210> 155
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 155
Ser Ala Ser Tyr Arg Asp Thr
1 5

<210> 156
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 156
Gly Phe Ser Leu Ser Thr Ser Gly Phe Gly Met Ser
1 5 10

<210> 157
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 157
Thr Val Arg Tyr Phe Pro Phe Ala Tyr
1 5

<210> 158
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 158
Thr Arg Arg Tyr Tyr Pro Phe Ala Tyr
1 5

<210> 159
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Modified CDR

<400> 159
Gln Gln Tyr Ser Thr Ser Pro Leu Thr
1 5

<210> 160
<211> 12
<212> PRT
<213> Artificial Sequence

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Gly Phe Thr Leu Ser Thr Ser Gly Met Gly Val Gly
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<210> 164

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Arg Ala Ser Gln Asn Val Ser Thr Asn Val Ala
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Gln Gln Tyr Asn Asn Val Pro Leu Thr
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Lys Gly

<210> 167
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<220>
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<223> T/S/N

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<223> N/Y

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<400> 174
Arg Xaa Ser Gln Xaa Val Xaa Xaa Xaa Xaa Ala
1 5 10