

LISTADO DE SECUENCIAS

5 <110> AC IMMUNE SA
 GENENTECH, INC.
 ADOLFSSON, Oskar
 AYALON, Gai
 HOTZEL, Isidro
 DICARA, Danielle

10 <120> ANTICUERPOS ANTI-TAU Y MÉTODOS DE USO
 <130> 01147-0006-00PCT

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 <141> 2016-06-02

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 <151> 2015-06-05

20 <160> 602
 <170> PatentIn version 3.5

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

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

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

35 Pro Lys Leu Leu Ile Tyr Thr Val Ser Asn Arg Phe Ser Gly Val Pro
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40 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
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Ala Thr Ile Ser Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
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5 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
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35 40 45

45 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
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50 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

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

Asn Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Asp Met Gln Ser
 65 70 75 80

5 Glu Asp Leu Ala Asp Tyr Phe Cys Gln Gln Phe Arg Thr Tyr Pro Tyr
 85 90 95

10 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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 20 25 30

Trp Met Asn Trp Ile Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
 35 40 45

50 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60

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

60 Val Tyr Leu Gln Met Asn Asn Leu Arg Ala Glu Asp Thr Gly Ile Tyr
 85 90 95

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

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

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20 <220>
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 1 5 10 15

30 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30

35 Tyr Met Lys Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45

Gly Asp Ile Asp Pro Asn Asn Gly Gly Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

40 Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

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

50 Ala Arg Ser Ala Gly Phe Gly Asp Ser Phe Ser Phe Trp Gly Leu Gly
 100 105 110

55 Thr Leu Val Thr Val Ser Ala
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 1 5 10 15

70 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
 20 25 30

75 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

80 Pro Lys Leu Leu Ile Tyr Lys 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

5 Ser Arg Val Glu Ala Glu Asp Leu Gly Phe Tyr Tyr Cys Phe Gln Gly
 85 90 95

10 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

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 1 5

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 1 5 10 15

40 Gly

45 <210> 144
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 1 5 10

60 <210> 145
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 1 5 10 15

75 <210> 146
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<400> 146

Lys Val Ser Asn Arg Phe Ser
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5 <210> 147
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15 Phe Gln Gly Ser His Val Pro Pro Thr
 1 5

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25 <210> 149
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 1 5 10 15

45 Ser Val Met Met Thr Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30

Tyr Met Lys Trp Val Lys Gln Ser Asn Gly Lys Ser Leu Glu Trp Ile
 35 40 45

50 Gly Asp Leu Asp Pro Tyr Thr Gly Gly Ala Asn Tyr Asn Gln Lys Phe
 50 55 60

55 Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

60 Met His Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95

65 Ala Arg Ser Arg Gly Tyr Gly Asp Ser Phe Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ala
 115

70 <210> 151
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75 <220>
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 1 5 10 15

Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Asn Ile Val His Ser
 20 25 30
 5 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 10 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 15 Asp Lys 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 Leu Gly Val Tyr Phe Cys Phe Gln Gly
 85 90 95
 20 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110
 25 <210> 152
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 1 5
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 1 5 10 15
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 1 5 10
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 1 5 10 15

5	<210> 156 <211> 7 <212> PRT <213> Secuencia Artificial
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30	<400> 157 Phe Gln Gly Ser His Val Pro Pro Thr 1 5
35	<210> 158 <400> 158 000
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60	Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr 20 25 30
65	Tyr Met Lys Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile 35 40 45
70	Gly Asp Leu Asn Pro Asn Asn Gly Gly Thr Leu Tyr Asn Gln Lys Phe 50 55 60
75	Lys Gly Gln Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80
80	Met Gln Phe Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys 85 90 95
85	Ala Arg Ser Ala Gly Tyr Gly Asp Ser Phe Ala Tyr Trp Gly Gln Gly 100 105 110
90	Thr Leu Val Thr Val Ser Ala 115
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 1 5 10 15
 15 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Asn Ile Val His Ser
 20 25 30
 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 20 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 25 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 30 Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Phe Cys Phe Gln Gly
 85 90 95
 35 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110
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 1 5
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 60 <400> 163
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 1 5 10 15
 65 Gly
 70 <210> 164
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 80 Ser Ala Gly Tyr Gly Asp Ser Phe Ala Tyr
 1 5 10

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 1 5 10 15
 15 <210> 166
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 1 5
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 1 5
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 1 5 10 15
 65 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr
 20 25 30
 70 Tyr Met Lys Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
 35 40 45
 75 Gly Asp Leu Asn Pro Lys Asn Gly Gly Ile Ile Tyr Asn Gln Lys Phe
 50 55 60
 80 Lys Gly Gln Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

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

5 Ala Arg Ser Gly Gly Tyr Gly Asp Ser Phe Ala Tyr Trp Gly Gln Gly
100 105 110

10 Thr Leu Val Thr Val Ser Ala
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15 <210> 171
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1 5 10 15

30 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Asn Ile Val His Ser
20 25 30

35 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

40 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

45 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

50 Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Phe Cys Phe Gln Gly
85 90 95

55 Ser His Val Pro Pro Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

60 <210> 172
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65 <220>
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70 Asp Tyr Tyr Met Lys
1 5

75 <210> 173
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80 <220>
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1 5 10 15

90 Gly

<210> 174

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25   Arg Ser Ser Gln Asn Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu
    1          5          10          15

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    1          5

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    1          5

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

80   Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Asp
    20          25          30

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

[illegible]

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5	<220>																	
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	Tyr	Met	Glu	Trp	Val	Arg	Gln	Ser	Pro	Gly	Lys	Arg	Leu	Glu	Trp	Ile		
			35					40					45					
45	Ala	Ala	Ser	Lys	Asn	Lys	Ala	Asn	Asp	Tyr	Thr	Thr	Glu	Tyr	Asn	Ala		
		50					55					60						
50	Ser	Val	Lys	Asp	Arg	Phe	Phe	Val	Ser	Arg	Asp	Thr	Ser	Gln	Ser	Ile		
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	Leu	Tyr	Leu	Gln	Met	Asn	Ala	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Ile	Tyr		
					85					90					95			
	Tyr	Cys	Ala	Arg	Asp	Ala	Leu	Gly	Thr	Val	Phe	Ala	Tyr	Trp	Gly	Gln		
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	1				5					10					15			
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80				20					25					30				

Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

5 Pro Lys Leu Leu Ile Tyr Lys Val Phe Asn Arg Phe Ser Gly Val Pro
 50 55 60

10 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80

15 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
 85 90 95

20 Thr Leu Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
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60 Val Lys Asp

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Arg Ser Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu His
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    Ser Leu Ser Ile Thr Cys Thr Ile Ser Gly Phe Ser Leu Thr Ser Tyr
          20          25          30
55
    Gly Val His Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Leu
          35          40          45
60
    Val Val Ile Trp Ser Asp Gly Ser Thr Thr Tyr Asn Ser Ala Leu Lys
    50          55          60
65
    Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln Val Phe Leu
    65          70          75          80
70
    Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala
          85          90          95
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    Arg Gln Gly Gly Phe Ile Thr Thr Ala Tyr Tyr Ala Met Asp Tyr Trp
          100          105          110
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    Gly Gln Gly Thr Ser Val Thr Val Ser Ser
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 10 Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Asn Ser
 20 25 30
 15 Arg Thr Arg Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45
 Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 20 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80
 25 Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Lys Gln
 85 90 95
 30 Ser Tyr Asn Leu Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110
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 40 <400> 222
 Ser Tyr Gly Val His
 1 5
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 1 5 10 15
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 1 5 10
 75 <210> 225
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 1 5 10 15
 5 Ala
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 1 5 10 15
 Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Cys
 20 25 30
 65 Ser Ile His Trp Val Lys Gln Ala Pro Gly Glu Gly Leu Lys Trp Met
 35 40 45
 70 Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Ser Tyr Ala Asp Asp Phe
 50 55 60
 75 Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Phe
 65 70 75 80
 80 Leu Gln Ile Asn Asn Leu Lys Ser Glu Asp Thr Ala Ser Tyr Phe Cys
 85 90 95
 Gly Thr Ala Tyr Tyr Arg Tyr Asp Gly Ala Leu Asp Tyr Trp Gly Gln
 100 105 110

5 Gly Thr Ser Val Thr Val Ser Ser
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 1 5 10 15
 20 Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser
 20 25 30
 25 Ser Tyr Ser Tyr Met His Trp Phe Gln Gln Lys Pro Gly Gln Pro Pro
 35 40 45
 30 Lys Leu Leu Ile Lys Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala
 50 55 60
 35 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
 65 70 75 80
 Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp
 85 90 95
 40 Glu Leu Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110
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 55 Asp Cys Ser Ile His
 1 5
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 1 5 10 15
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 Arg Ala Ser Gln Ser Val Ser Thr Ser Ser Tyr Ser Tyr Met His
 1 5 10 15
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 Tyr Ala Ser Asn Leu Glu Ser
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 45 <400> 237

 Gln His Ser Trp Glu Leu Pro Trp Thr
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 1 5 10 15

 Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30
 75

 Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
 35 40 45
 80

 Gly Trp Ile Asn Thr Asn Thr Gly Glu Pro Thr Tyr Ala Glu Glu Phe
 50 55 60

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

Gly

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 Gly Thr Val Ser Phe Pro Tyr
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 Lys Val Ser Asn Arg Phe Ser
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 Ser Gln Ser Thr His Val Ile Phe Thr
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5 Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr
 20 25 30
 Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met
 35 40 45
 10 Gly Trp Ile Asn Met Tyr Thr Gly Glu Pro Thr Tyr Gly Asp Asp Phe
 50 55 60
 15 Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Val Ser Thr Val Tyr
 65 70 75 80
 20 Leu Gln Ile Asn Asn Leu Lys Lys Glu Asp Thr Ala Thr Phe Phe Cys
 85 90 95
 25 Ala Arg Gly Gly Arg Pro Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr
 100 105 110
 Val Ser Ser
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 1 5 10 15
 45 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
 20 25 30
 50 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 55 Pro Lys Leu Leu Ile Tyr Lys Val Phe Asn Arg Phe Ser Gly Val Pro
 50 55 60
 60 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 65 Asn Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr Cys Leu Gln Gly
 85 90 95
 70 Ser His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110
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 1 5 10 15
 15 Gly
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 70 Leu Gln Gly Ser His Val Pro Tyr Thr
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 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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 15 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Asn Tyr
 20 25 30
 20 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
 35 40 45
 25 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ser
 65 70 75 80
 30 Val Tyr Leu Gln Met Asn Asn Leu Arg Ala Glu Asp Thr Gly Ile Tyr
 85 90 95
 35 Tyr Cys Ala Gly Tyr Phe Tyr Gly Gly Tyr Phe Asp Val Trp Gly Thr
 100 105 110
 40 Gly Thr Thr Val Thr Val Ser Ser
 115 120
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 Glu Leu Val Leu Thr Gln Ser Pro Thr Thr Met Ala Ala Ser Pro Gly
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 55 Lys Lys Ile Thr Ile Thr Cys Ser Ala Ser Ser Ser Ile Ser Ser Asn
 20 25 30
 60 Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Phe Ser Pro Lys Leu Leu
 35 40 45
 65 Ile Tyr Arg Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser
 50 55 60
 70 Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Gly Thr Met Glu
 65 70 75 80
 Ala Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln Gly Ser Ser Leu Pro
 85 90 95
 75 Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
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 25 Val Lys Gly
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 <400> 270
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 1 5 10 15
 25 Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr His Tyr
 20 25 30
 30 Trp Met His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 35 Gly Tyr Ile Tyr Pro Thr Asn Asp Tyr Thr Lys Tyr Asn Gln Asn Phe
 50 55 60
 40 Arg Asp Lys Ala Thr Leu Thr Ala Asp Glu Ser Ser Asn Ser Ala Tyr
 65 70 75 80
 45 Met Gln Leu Asn Ser Leu Thr Tyr Glu Asp Ser Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Ala Gly Asn Arg Val Phe Asp Phe Trp Gly Gln Gly Thr Thr
 100 105 110
 50 Leu Thr Val Ser Ser
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 70 Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
 20 25 30
 75 Asn Phe Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
 35 40 45
 Leu Ile Gly Gly Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
 50 55 60
 80 Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
 65 70 75 80

Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
 85 90 95

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35 Tyr Ile Tyr Pro Thr Asn Asp Tyr Thr Lys Tyr Asn Gln Asn Phe Arg
 1 5 10 15

Asp

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

Asn Gly Asn Thr Tyr Phe Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ser
 35 40 45
 5 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 10 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 15 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
 85 90 95
 20 Ser Leu Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110
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 25 <213> Secuencia Artificial
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 30 <400> 282
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 1 5
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 1 5 10 15
 50 Gly
 55 <210> 284
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 65 Ser Tyr Ser Gly Ala Met Asp Tyr
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 10 Lys Val Ser Asn Arg Phe Ser
 1 5

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 1 5

 30 <210> 288
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 35 <220>
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 1 5 10 15

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

 50 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

 55 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

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

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

 70 Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

 75 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

 80 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys
 130 135 140

 85 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160

 90 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

 95 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn
 195 200 205
 5 Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His
 210 215 220
 10 Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val
 225 230 235 240
 15 Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 245 250 255
 20 Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu
 260 265 270
 Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys
 275 280 285
 25 Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser
 290 295 300
 30 Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys
 305 310 315 320
 35 Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile
 325 330 335
 40 Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro
 340 345 350
 Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu
 355 360 365
 45 Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn
 370 375 380
 50 Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 385 390 395 400
 55 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg
 405 410 415
 60 Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu
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 His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
 435 440 445
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 75 Glu Asp Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 80 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Ile Val His Ser
 20 25 30

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

Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
100 105 110

5 Val Thr Val Ser Ser
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10 <210> 291
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1 5 10 15

25 Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30

30 Asn Gly Asn Thr Tyr Phe Glu Trp Tyr Leu Gln Lys Pro Gly Gln Ser
35 40 45

35 Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

40 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
65 70 75 80

45 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Phe Gln Gly
85 90 95

50 Ser Leu Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

55 <210> 292
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65 Ser Tyr Gly Met Ser
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75 <220>
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80 Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val Lys
1 5 10 15

85 Gly

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 5 Ser Tyr Ser Gly Ala Met Asp Tyr
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 <400> 295
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 1 5 10 15
 25 <210> 296
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 <400> 296
 35 Lys Val Ser Asn Arg Phe Ser
 1 5
 40 <210> 297
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 Phe Gln Gly Ser Leu Val Pro Trp Thr
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 70 <400> 300
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 1 5 10 15
 75 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 25 30
 80 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

5 Lys Gly Arg Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80

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

15 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

20

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 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

35 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

40 Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Lys Pro Gly Gln Ser
 35 40 45

45 Pro Gln Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp 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

50 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Trp Gln Gly
 85 90 95

55 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

60

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65

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<400> 302

70 Gly Tyr Thr Met Asn
 1 5

75

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<400> 303

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

5 Gly

10 <210> 304
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 1 5 10 15

40 <210> 306
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45 <220>
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50 Leu Val Ser Lys Leu Asp Ser
 1 5

55 <210> 307
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60 <220>
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65 Trp Gln Gly Thr His Phe Pro Trp Thr
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70 <210> 308
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75 <210> 309
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80 <210> 310
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 5 Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Ile Phe Ser Asn Tyr
 10 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 15 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 20 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
 25 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 30 Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
 35 Val Ser Ser
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 45 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 50 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 55 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
 60 Tyr Ser Ala Ser Ile Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
 65 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 70 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Phe Arg Thr Tyr Pro Tyr
 75 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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 Asn Tyr Trp Met Asn
 1 5

5 <210> 313
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 <212> PRT
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 1 5 10 15
 Val Lys Gly

 20 <210> 314
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 25 <220>
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 Gly Thr Thr Tyr
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 35 <210> 315
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 <212> PRT
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 40 <220>
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 1 5 10

 50 <210> 316
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 60 Ser Ala Ser Ile Arg Tyr Thr
 1 5

 65 <210> 317
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 70 <220>
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 Gln Gln Phe Arg Thr Tyr Pro Tyr Thr
 1 5

 75 <210> 318

 80 <400> 318
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<400> 319
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 1 5 10 15
 20 Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Ile Phe Ser Asn Tyr
 20 25 30
 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 25 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60
 30 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 35 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 40 Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser
 115
 45 <210> 321
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 50 <220>
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 55 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 60 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 65 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 70 Tyr Ser Ala Ser Ile Arg Tyr Thr 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
 75 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Phe Arg Thr Tyr Pro Tyr
 85 90 95
 80 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

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10   <220>
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    1          5

15   <210> 323
    <211> 19
    <212> PRT
    <213> Secuencia Artificial

20   <220>
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    <400> 323

25   Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu Ser
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30   Val Lys Gly

35   <210> 324
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40   <400> 324

    Gly Thr Thr Tyr
    1

45   <210> 325
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55   <400> 325

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

60   <210> 326
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    <400> 326

70   Ser Ala Ser Ile Arg Tyr Thr
    1          5

75   <210> 327
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80   <220>
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    <400> 327

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Gln Gln Phe Arg Thr Tyr Pro Tyr Thr
 1 5
 5
 <210> 328
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 <210> 330
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 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 30 Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Ile Phe Ser Asn Tyr
 20 25 30
 35 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 40 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 45 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 50 Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 55 Val Ser Ser
 115
 60
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 70 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 Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 75 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 80 Tyr Ser Ala Ser Ile Arg Tyr Thr 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

5 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Arg Thr Tyr Pro Tyr
 85 90 95

10 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

15 <210> 332
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20 <220>
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25 Asn Tyr Trp Met Asn
 1 5

30 <210> 333
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35 <220>
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 <400> 333

40 Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu Ser
 1 5 10 15

Val Lys Gly

45 <210> 334
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50 <220>
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55 Gly Thr Thr Tyr
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60 <210> 335
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65 <220>
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 <400> 335

70 Lys Ala Ser Gln Asn Val Gly Thr Ala Val Ala
 1 5 10

75 <210> 336
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80 <220>
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 <400> 336

Ser Ala Ser Ile Arg Tyr Thr
 1 5

5 <210> 337
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10 <220>
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 <400> 337

15 Gln Gln Phe Arg Thr Tyr Pro Tyr Thr
 1 5

20 <210> 338
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25 <210> 339
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30 <210> 340
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35 <220>
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45 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ile Phe Arg Ser Tyr
 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

50 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

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

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

65 Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
 115

70 <210> 341
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75 <220>
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 10 Pro Gln Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
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 15 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
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50		Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ile Phe Arg Ser Tyr 20 25 30
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60		Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val 50 55 60
65		Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80
70		Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95
75		Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu 100 105 110
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85		Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys 130 135 140
90		Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser 145 150 155 160
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Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
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 5 Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn
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 10 Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro
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 15 Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe
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 20 Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val
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 Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe
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 25 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
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 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
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 25 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
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 35 <220>
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 <400> 437

 40 Asp Asp Leu His Ser Asn Ala Asn Pro Tyr Phe Leu
 1 5 10

 45 <210> 438
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 50 <220>
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 <400> 438

 55 Asp Asp Leu His Ser Asn Ala Asn Phe Tyr Phe Leu
 1 5 10

 60 <210> 439
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 65 <220>
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 70 Asp Asp Leu His Ser Asn Ala Asn Tyr Tyr Phe Leu
 1 5 10

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 80 <220>
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 <400> 440

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 1 5 10

 <210> 441

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 10 Asp Asp Leu His Ser Asn Ala Asn Arg Tyr Phe Leu
 1 5 10
 15 <210> 442
 <211> 107
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 20 <220>
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 25 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 30 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
 35 35 40 45
 35 Tyr Ser Ala Ser Ile Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 40 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 45 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Phe Arg Thr Tyr Pro Tyr
 85 90 95
 50 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
 55 <210> 443
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 60 <400> 443
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 65 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 70 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 75 Tyr Ser Ala Ser Ile Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 80 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 Phe Cys Gln Gln Phe Arg Thr Tyr Pro Tyr
 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
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 <211> 107
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 1 5 10 15
 20 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 25 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
 35 40 45
 30 Tyr Ser Ala Ser Ile Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 35 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 Phe Arg Thr Tyr Pro Tyr
 85 90 95
 40 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
 45 <210> 445
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 50 <220>
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 55 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 60 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 65 Tyr Ser Ala Ser Ile Arg Tyr Thr Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 70 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 75 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Arg Thr Tyr Pro Tyr
 85 90 95
 80 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
 <210> 446

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    <400> 446

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

15  Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Ile Phe Ser Asn Tyr
    20          25          30

20  Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
    35          40          45

25  Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
    50          55          60

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

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

40  Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
    100          105          110

    Val Ser Ser
    115

45  <210> 447
    <211> 115
    <212> PRT
    <213> Secuencia Artificial

    <220>
    <223> Sintetico: hu125B11-H3.HC2

50  <400> 447

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

55  Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Ile Phe Ser Asn Tyr
    20          25          30

60  Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
    35          40          45

65  Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
    50          55          60

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

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

75  Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
    100          105          110

80  Val Ser Ser
    115

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<210> 448
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 5
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 <400> 448
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 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 15 Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Ile Phe Ser Asn Tyr
 20 25 30
 20 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 25 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
 65 70 75 80
 30 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 35 Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 40 Val Ser Ser
 115
 45
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 <211> 115
 <212> PRT
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 50
 <400> 449
 55
 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 Arg Phe Ile Phe Ser Asn Tyr
 20 25 30
 60 Trp Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 65 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60
 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
 65 70 75 80
 Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 75 Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 80 Val Ser Ser
 115

<210> 450
 <211> 115
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 5 <213> Secuencia Artificial

 <220>
 <223> Sintetico: hu125B11-H3.HC5
 10 <400> 450
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 15 Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Ile Phe Ser Asn Tyr
 20 25 30
 20 Tyr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 25 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60
 30 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
 65 70 75 80
 35 Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 40 Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 45 Val Ser Ser
 115
 <210> 451
 <211> 115
 <212> PRT
 50 <213> Secuencia Artificial

 <220>
 <223> Sintetico: hu125B11-H3.HC6
 <400> 451
 55 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 60 Ser Leu Arg Leu Ser Cys Ala Ala Ser Arg Phe Ile Phe Ser Asn Tyr
 20 25 30
 65 Phe Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 70 Ala Gln Ile Arg Leu Lys Ser Asp Asn Tyr Ala Thr His Tyr Ala Glu
 50 55 60
 75 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
 65 70 75 80
 80 Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
 85 90 95
 Tyr Cys Thr Gly Gly Thr Thr Tyr Trp Gly Gln Gly Thr Leu Val Thr
 100 105 110
 Val Ser Ser
 115

5 <210> 452
 <211> 113
 <212> PRT
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 10 <220>
 <223> Sintetico: Hu94B2.HC1
 <400> 452

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

 20 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 25 30

 25 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

 30 Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

 35 Lys Gly Arg Ala Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80

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

 45 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

 50 Ser

 55 <210> 453
 <211> 113
 <212> PRT
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 60 <220>
 <223> Sintetico: Hu94B2.HC2
 <400> 453

 65 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

 70 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 25 30

 75 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

 80 Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

 85 Lys Gly Arg Val Thr Leu Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80

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

 95 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

 100 Ser

5 <210> 454
 <211> 113
 <212> PRT
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 10 <220>
 <223> Sintetico: Hu94B2.HC3
 <400> 454

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

 20 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 25 30

 25 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

 30 Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

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

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

 45 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser

 50 <210> 455
 <211> 113
 <212> PRT
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 55 <220>
 <223> Sintetico: Hu94B2.HC4
 <400> 455

 60 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

 65 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 25 30

 70 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

 75 Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

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

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

 90 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

5 <210> 456
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 10 <220>
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 <400> 456
 15 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 20 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 20 25 30
 25 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 35 40 45
 Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60
 30 Lys Gly Arg Ala Thr Leu Thr Val Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 35 Leu Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 40 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110
 Ser
 45
 <210> 457
 <211> 113
 <212> PRT
 50 <213> Secuencia Artificial
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 <223> Sintetico: Hu94B2.HC6
 55 <400> 457
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15
 60 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 25 30
 65 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 70 Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60
 Lys Gly Arg Val Thr Ile Thr Val Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80
 75 Leu Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 80 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

5
 <210> 458
 <211> 113
 <212> PRT
 <213> Secuencia Artificial

10
 <220>
 <223> Sintetico: Hu94B2.HC7

15
 <400> 458
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

20
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 25 30

25
 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

30
 Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

35
 Lys Gly Arg Val Thr Ile Thr Arg Asp Lys Ser Thr Ser Thr Ala Tyr
 65 70 75 80

40
 Leu Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

45
 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

50
 <210> 459
 <211> 113
 <212> PRT
 <213> Secuencia Artificial

55
 <220>
 <223> Sintetico: Hu94B2.HC8

60
 <400> 459
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
 1 5 10 15

65
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Leu Thr Gly Tyr
 20 25 30

70
 Thr Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45

75
 Gly Leu Ile Ser Pro Tyr Asn Gly Val Thr Ser Tyr Asn Gln Lys Phe
 50 55 60

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

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

90
 Ala Arg Gln Gly Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
 100 105 110

Ser

5

<210> 460
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 <212> PRT
 10 <213> Secuencia Artificial

<220>
 <223> Sintetico: Hu94B2.LC9

15 <400> 460

Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

20 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

25 Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Lys Pro Gly Gln Ser
 35 40 45

30 Pro Gln Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60

35 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 Trp Gln Gly
 85 90 95

40 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

45 <210> 461
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 <212> PRT
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50 <220>
 <223> Sintetico: Hu94B2.LC10

<400> 461

55 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

60 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

65 Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Lys Pro Gly Gln Ser
 35 40 45

Pro Gln Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60

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

75 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Trp Gln Gly
 85 90 95

80 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

<210> 462

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 <400> 462
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 1 5 10 15
 15 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 20 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 25 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 30 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Trp Gln Gly
 85 90 95
 35 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110
 40 <210> 463
 <211> 112
 <212> PRT
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 45 <220>
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 <400> 463
 50 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 55 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 60 Pro Gln Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 65 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 Trp Gln Gly
 85 90 95
 70 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110
 75 <210> 464
 <211> 112
 <212> PRT
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 80 <220>
 <223> Sintetico: Hu94B2.LC13

<400> 464
 5 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 10 Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 15 Pro Gln Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 20 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 Trp Gln Gly
 85 90 95
 25 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110
 30
 <210> 465
 <211> 112
 <212> PRT
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 35
 <220>
 <223> Sintetico: Hu94B2.LC14
 40
 <400> 465
 40 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 45 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30
 50 Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 55 Pro Gln Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60
 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 Trp Gln Gly
 85 90 95
 65 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110
 70
 <210> 466
 <211> 112
 <212> PRT
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 75
 <220>
 <223> Sintetico: Hu94B2.LC15
 <400> 466
 80 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

5 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

10 Pro Gln Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60

15 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 Trp Gln Gly
 85 90 95

20 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

25 <210> 467
 <211> 112
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30 <220>
 <223> Sintetico: Hu94B2.LC16
 <400> 467

35 Asp Ile Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15

40 Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu Asp Ser
 20 25 30

45 Asp Gly Lys Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

Pro Gln Leu Leu Ile Tyr Leu Val Ser Lys Leu Asp Ser Gly Val Pro
 50 55 60

50 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80

55 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Trp Gln Gly
 85 90 95

60 Thr His Phe Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110

65 <210> 468
 <211> 16
 <212> PRT
 <213> Secuencia Artificial
 <220>
 <223> Sintetico: Hu37D3-H9.v5.1 HVR-L1
 <400> 468

70 Arg Ser Ser Gln Ser Ile Val His Ser Asn Ala Asn Thr Tyr Phe Glu
 1 5 10 15

75 <210> 469
 <211> 16
 <212> PRT
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80

<400> 469
 5 Arg Ser Ser Gln Ser Ile Val His Ser Ser Gly Asn Thr Tyr Phe Glu
 1 5 10 15

 <210> 470
 <211> 16
 10 <212> PRT
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 <220>
 <223> Sintetico: Hu37D3-H9.v5.3 HVR-L1
 15 <400> 470

 Arg Ser Ser Gln Ser Ile Val His Ser Asp Gly Asn Thr Tyr Phe Glu
 1 5 10 15
 20

 <210> 471
 <211> 16
 <212> PRT
 25 <213> Secuencia Artificial

 <220>
 <223> Sintetico: Hu37D3-H9.v5.4 HVR-L1
 30 <400> 471

 Arg Ser Ser Gln Ser Ile Val His Ser Gln Gly Asn Thr Tyr Phe Glu
 1 5 10 15
 35

 <210> 472
 <211> 16
 <212> PRT
 40 <213> Secuencia Artificial

 <220>
 <223> Sintetico: Hu37D3-H9.v5.5 HVR-L1
 45 <400> 472

 Arg Ser Ser Gln Ser Ile Val His Ser Glu Gly Asn Thr Tyr Phe Glu
 1 5 10 15

 50 <210> 473
 <211> 16
 <212> PRT
 <213> Secuencia Artificial

 55 <220>
 <223> Sintetico: Hu37D3-H9.v5.6 HVR-L1
 <400> 473

 60 Arg Ser Ser Gln Ser Ile Val His Ser Ala Gly Asn Thr Tyr Phe Glu
 1 5 10 15

 65 <210> 474
 <211> 16
 <212> PRT
 <213> Secuencia Artificial

 70 <220>
 <223> Sintetico: Hu37D3-H9.v5.7 HVR-L1
 <400> 474

 75 Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asp Thr Tyr Phe Glu
 1 5 10 15

 80 <210> 475
 <211> 16
 <212> PRT
 <213> Secuencia Artificial

 <220>

<223> Sintetico: Hu37D3-H9.v5.8 HVR-L1
 <400> 475
 5 Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Gln Thr Tyr Phe Glu
 1 5 10 15
 10 <210> 476
 <211> 16
 <212> PRT
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 30 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 35 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ile Phe Arg Ser Tyr
 20 25 30
 40 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 45 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60
 50 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 55 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 60 Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 65 Val Thr Val Ser Ser
 115
 70 <210> 561
 <211> 112
 <212> PRT
 <213> Secuencia Artificial
 75 <220>
 <223> Sintetico: Hu37D3.v39 cadena liviana region variable (VL)
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 80 Glu Asp Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 85 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Ile Val His Ser
 20 25 30
 90 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ser
 35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

5 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80

10 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
85 90 95

15 Ser Leu Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

20 <210> 562
<211> 5
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintetico: Hu37D3.v39 HVR-H1

25 <400> 562

Ser Tyr Gly Met Ser
1 5

30 <210> 563
<211> 17
<212> PRT
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35 <220>
<223> Sintetico: Hu37D3.v39 HVR-H2

<400> 563

40 Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val Lys
1 5 10 15

45 Gly

50 <210> 564
<211> 8
<212> PRT
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<220>
<223> Sintetico: Hu37D3.v39 HVR-H3

<400> 564

60 Ser Tyr Ser Gly Ala Met Asp Tyr
1 5

65 <210> 565
<211> 16
<212> PRT
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<220>
<223> Sintetico: Hu37D3.v39 HVR-L1

70 <400> 565

Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu
1 5 10 15

75 <210> 566
<211> 7
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80 <220>
<223> Sintetico: Hu37D3.v39 HVR-L2

<400> 566
 5 Lys Val Ser Asn Arg Phe Ser
 1 5

<210> 567
 <211> 9
 10 <212> PRT
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<220>
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 15 <400> 567

Phe Gln Gly Ser Leu Val Pro Trp Thr
 20 1 5

<210> 568
 <211> 444
 25 <212> PRT
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<220>
 <223> Sintetico: Hu37D3.v39 IgG4-S228P.YTE Cadena pesada
 30 <400> 568

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

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

40 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45

45 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 50 65 70 75 80

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

55 Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

60 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125

65 Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys
 130 135 140

Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 70 145 150 155 160

Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175

75 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190

80 Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn
 195 200 205

Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro
 210 215 220
 5 Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe
 225 230 235 240
 10 Pro Pro Lys Pro Lys Asp Thr Leu Tyr Ile Thr Arg Glu Pro Glu Val
 245 250 255
 15 Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe
 260 265 270
 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 275 280 285
 20 Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 290 295 300
 25 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 305 310 315 320
 30 Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala
 325 330 335
 35 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
 340 345 350
 Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 355 360 365
 40 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 370 375 380
 45 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
 385 390 395 400
 50 Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu
 405 410 415
 55 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 420 425 430
 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
 435 440
 60
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 <211> 219
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 <400> 569
 70 Glu Asp Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 75 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Ile Val His Ser
 20 25 30
 80 Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ser
 35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 5 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 10 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
 85 90 95
 15 Ser Leu Val Pro Trp Thr Phe Gly Gln 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
 20 Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
 130 135 140
 25 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 30 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
 35 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 40 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215
 45 <210> 570
 <211> 117
 <212> PRT
 <213> Secuencia Artificial
 50 <220>
 <223> Sintetico: Hu37D3.v40 Cadena pesada region variable (VH)
 <400> 570
 55 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 60 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ile Phe Arg Ser Tyr
 20 25 30
 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 65 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60
 70 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 75 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 80 Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

Val Thr Val Ser Ser
115

5 <210> 571
<211> 112
<212> PRT
<213> Secuencia Artificial

10 <220>
<223> Sintetico: Hu37D3.v40 cadena liviana region variable (VL)
<400> 571

15 Glu Asp Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

20 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Ile Val His Ser
20 25 30

25 Asn Thr Asn Thr Tyr Phe Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ser
35 40 45

30 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
50 55 60

35 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
65 70 75 80

40 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
85 90 95

45 Ser Leu Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105 110

45 <210> 572
<211> 5
<212> PRT
<213> Secuencia Artificial

50 <220>
<223> Sintetico: Hu37D3.v40 HVR-H1
<400> 572

55 Ser Tyr Gly Met Ser
1 5

60 <210> 573
<211> 17
<212> PRT
<213> Secuencia Artificial

65 <220>
<223> Sintetico: Hu37D3.v40 HVR-H2
<400> 573

70 Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val Lys
1 5 10 15

75 Gly

75 <210> 574
<211> 8
<212> PRT
<213> Secuencia Artificial

80 <220>
<223> Sintetico: Hu37D3.v40 HVR-H3
<400> 574

Ser Tyr Ser Gly Ala Met Asp Tyr
 1 5
 5
 <210> 575
 <211> 16
 <212> PRT
 <213> Secuencia Artificial
 10
 <220>
 <223> Sintetico: Hu37D3.v40 HVR-L1
 <400> 575
 15
 Arg Ser Ser Gln Ser Ile Val His Ser Asn Thr Asn Thr Tyr Phe Glu
 1 5 10 15
 20
 <210> 576
 <211> 7
 <212> PRT
 <213> Secuencia Artificial
 25
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 <223> Sintetico: Hu37D3.v40 HVR-L2
 <400> 576
 30
 Lys Val Ser Asn Arg Phe Ser
 1 5
 35
 <210> 577
 <211> 9
 <212> PRT
 <213> Secuencia Artificial
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 40
 <223> Sintetico: Hu37D3.v40 HVR-L3
 <400> 577
 45
 Phe Gln Gly Ser Leu Val Pro Trp Thr
 1 5
 50
 <210> 578
 <211> 444
 <212> PRT
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 <220>
 55
 <223> Sintetico: Hu37D3.v40 IgG4-S228P.YTE Cadena pesada
 <400> 578
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1 5 10 15
 60
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ile Phe Arg Ser Tyr
 20 25 30
 65
 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 70
 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60
 75
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110

5 Val Thr Val₁₁₅ Ser Ser Ala Ser Thr₁₂₀ Lys Gly Pro Ser Val₁₂₅ Phe Pro Leu
 Ala Pro₁₃₀ Cys Ser Arg Ser Thr₁₃₅ Ser Glu Ser Thr Ala₁₄₀ Ala Leu Gly Cys
 10 Leu₁₄₅ Val Lys Asp Tyr Phe₁₅₀ Pro Glu Pro Val Thr₁₅₅ Val Ser Trp Asn Ser₁₆₀
 15 Gly Ala Leu Thr Ser₁₆₅ Gly Val His Thr Phe₁₇₀ Pro Ala Val Leu Gln Ser₁₇₅
 20 Ser Gly Leu Tyr₁₈₀ Ser Leu Ser Ser Val₁₈₅ Val Thr Val Pro Ser₁₉₀ Ser Ser
 25 Leu Gly Thr₁₉₅ Lys Thr Tyr Thr Cys₂₀₀ Asn Val Asp His Lys₂₀₅ Pro Ser Asn
 Thr Lys₂₁₀ Val Asp Lys Arg Val₂₁₅ Glu Ser Lys Tyr Gly₂₂₀ Pro Pro Cys Pro
 30 Pro Cys Pro Ala Pro Glu₂₃₀ Phe Leu Gly Gly Pro₂₃₅ Ser Val Phe Leu Phe₂₄₀
 35 Pro Pro Lys Pro Lys₂₄₅ Asp Thr Leu Tyr Ile₂₅₀ Thr Arg Glu Pro Glu₂₅₅ Val
 40 Thr Cys Val Val₂₆₀ Val Asp Val Ser Gln₂₆₅ Glu Asp Pro Glu Val₂₇₀ Gln Phe
 45 Asn Trp Tyr₂₇₅ Val Asp Gly Val Glu₂₈₀ Val His Asn Ala Lys₂₈₅ Thr Lys Pro
 Arg Glu₂₉₀ Glu Gln Phe Asn Ser₂₉₅ Thr Tyr Arg Val Val₃₀₀ Ser Val Leu Thr
 50 Val₃₀₅ Leu His Gln Asp Trp₃₁₀ Leu Asn Gly Lys Glu₃₁₅ Tyr Lys Cys Lys Val₃₂₀
 55 Ser Asn Lys Gly Leu₃₂₅ Pro Ser Ser Ile Glu₃₃₀ Lys Thr Ile Ser Lys₃₃₅ Ala
 60 Lys Gly Gln Pro₃₄₀ Arg Glu Pro Gln Val₃₄₅ Tyr Thr Leu Pro Pro₃₅₀ Ser Gln
 65 Glu Glu Met₃₅₅ Thr Lys Asn Gln Val₃₆₀ Ser Leu Thr Cys Leu₃₆₅ Val Lys Gly
 Phe Tyr₃₇₀ Pro Ser Asp Ile Ala₃₇₅ Val Glu Trp Glu Ser₃₈₀ Asn Gly Gln Pro
 70 Glu₃₈₅ Asn Asn Tyr Lys Thr₃₉₀ Thr Pro Pro Val Leu₃₉₅ Asp Ser Asp Gly Ser₄₀₀
 75 Phe Phe Leu Tyr Ser₄₀₅ Arg Leu Thr Val Asp₄₁₀ Lys Ser Arg Trp Gln₄₁₅ Glu
 80 Gly Asn Val Phe₄₂₀ Ser Cys Ser Val Met₄₂₅ His Glu Ala Leu His₄₃₀ Asn His

	Tyr	Thr	Gln 435	Lys	Ser	Leu	Ser	Leu	Ser	Gly	Lys							
5	<210>	579																
	<211>	219																
	<212>	PRT																
	<213>	Secuencia Artificial																
10	<220>																	
	<223>	Sintetico: Hu37D3.v40 IgG4-S228P.YTE Cadena liviana																
	<400>	579																
15	Glu 1	Asp	Gln	Leu	Thr 5	Gln	Ser	Pro	Ser	Ser 10	Leu	Ser	Ala	Ser	Val 15	Gly		
20	Asp	Arg	Val	Thr 20	Ile	Thr	Cys	Arg	Ser 25	Ser	Gln	Ser	Ile	Val 30	His	Ser		
25	Asn	Thr	Asn 35	Thr	Tyr	Phe	Glu	Trp 40	Tyr	Gln	Gln	Lys	Pro 45	Gly	Lys	Ser		
	Pro	Lys 50	Leu	Leu	Ile	Tyr	Lys 55	Val	Ser	Asn	Arg	Phe 60	Ser	Gly	Val	Pro		
30	Ser 65	Arg	Phe	Ser	Gly	Ser 70	Gly	Ser	Gly	Thr	Asp 75	Phe	Thr	Leu	Thr	Ile 80		
35	Ser	Ser	Leu	Gln	Pro 85	Glu	Asp	Phe	Ala	Thr 90	Tyr	Tyr	Cys	Phe	Gln 95	Gly		
40	Ser	Leu	Val	Pro 100	Trp	Thr	Phe	Gly	Gln 105	Gly	Thr	Lys	Val	Glu 110	Ile	Lys		
45	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 140	Leu	Asn	Asn	Phe		
50	Tyr 145	Pro	Arg	Glu	Ala	Lys 150	Val	Gln	Trp	Lys	Val 155	Asp	Asn	Ala	Leu	Gln 160		
55	Ser	Gly	Asn	Ser	Gln 165	Glu	Ser	Val	Thr	Glu 170	Gln	Asp	Ser	Lys	Asp 175	Ser		
60	Thr	Tyr	Ser	Leu 180	Ser	Ser	Thr	Leu	Thr 185	Leu	Ser	Lys	Ala	Asp 190	Tyr	Glu		
65	Lys	His	Lys 195	Val	Tyr	Ala	Cys	Glu 200	Val	Thr	His	Gln	Gly 205	Leu	Ser	Ser		
	Pro	Val 210	Thr	Lys	Ser	Phe	Asn 215	Arg	Gly	Glu	Cys							
70	<210>	580																
	<211>	117																
	<212>	PRT																
	<213>	Secuencia Artificial																
75	<220>																	
	<223>	Sintetico: Hu37D3.v41 Cadena pesada region variable (VH)																
	<400>	580																
80	Glu 1	Val	Gln	Leu	Val 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly		

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ile Phe Arg Ser Tyr
 20 25 30
 5 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 10 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60
 15 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 20 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 25 Val Thr Val Ser Ser
 115
 30 <210> 581
 <211> 112
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 35 <220>
 <223> Sintetico: Hu37D3.v41 cadena liviana region variable (VL)
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 40 Glu Asp Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 45 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Ile Val His Ser
 20 25 30
 50 Asn Gly Gln Thr Tyr Phe Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ser
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 55 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 60 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
 85 90 95
 65 Ser Leu Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110
 70 <210> 582
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 <212> PRT
 <213> Secuencia Artificial
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 75 <400> 582
 Ser Tyr Gly Met Ser
 1 5
 80 <210> 583
 <211> 17

<212> PRT
 <213> Secuencia Artificial

 5 <220>
 <223> Sintetico: Hu37D3.v41 HVR-H2
 <400> 583

 10 Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val Lys
 1 5 10 15

 Gly
 15

 <210> 584
 <211> 8
 <212> PRT
 20 <213> Secuencia Artificial

 <220>
 <223> Sintetico: Hu37D3.v41 HVR-H3
 25 <400> 584

 Ser Tyr Ser Gly Ala Met Asp Tyr
 1 5
 30
 <210> 585
 <211> 16
 <212> PRT
 35 <213> Secuencia Artificial

 <220>
 <223> Sintetico: Hu37D3.v41 HVR-L1
 <400> 585
 40 Arg Ser Ser Gln Ser Ile Val His Ser Asn Gly Gln Thr Tyr Phe Glu
 1 5 10 15

 45 <210> 586
 <211> 7
 <212> PRT
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 50 <220>
 <223> Sintetico: Hu37D3.v41 HVR-L2
 <400> 586

 55 Lys Val Ser Asn Arg Phe Ser
 1 5

 60 <210> 587
 <211> 9
 <212> PRT
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 <220>
 65 <223> Sintetico: Hu37D3.v41 HVR-L3
 <400> 587

 70 Phe Gln Gly Ser Leu Val Pro Trp Thr
 1 5

 <210> 588
 <211> 444
 <212> PRT
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 <220>
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 80 <400> 588

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

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
 340 345 350
 5 Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 355 360 365
 10 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 370 375 380
 15 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
 385 390 395 400
 20 Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu
 405 410 415
 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 420 425 430
 25 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
 435 440
 30 <210> 589
 <211> 219
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 <213> Secuencia Artificial
 35 <220>
 <223> Sintetico: Hu37D3.v41 IgG4-S228P.YTE cadena liviana
 <400> 589
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 1 5 10 15
 45 Asp Arg Val Thr Ile Thr Cys Arg Ser Ser Gln Ser Ile Val His Ser
 20 25 30
 50 Asn Gly Gln Thr Tyr Phe Glu Trp Tyr Gln Gln Lys Pro Gly Lys Ser
 35 40 45
 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 55 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80
 60 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
 85 90 95
 65 Ser Leu Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110
 70 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
 75 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 145 150 155 160
 80 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
 5 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 10 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 210 215
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 30 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ile Phe Arg Ser Tyr
 20 25 30
 35 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 40 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60
 45 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 50 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 55 Ala Asn Ser Tyr Ser Gly Ala Met Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 60 Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu
 115 120 125
 65 Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys
 130 135 140
 70 Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser
 145 150 155 160
 75 Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser
 165 170 175
 80 Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser
 180 185 190
 70 Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn
 195 200 205
 75 Thr Lys Val Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro
 210 215 220
 80 Pro Cys Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe
 225 230 235 240

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
 245 250 255
 5 Thr Cys Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe
 260 265 270
 10 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
 275 280 285
 15 Arg Glu Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr
 290 295 300
 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
 305 310 315 320
 20 Ser Asn Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala
 325 330 335
 25 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln
 340 345 350
 30 Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
 355 360 365
 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
 370 375 380
 35 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser
 385 390 395 400
 40 Phe Phe Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu
 405 410 415
 45 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
 420 425 430
 50 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys
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 35 40 45
 75 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60
 80 Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
 65 70 75 80

Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Phe Gln Gly
 85 90 95
 5 Ser Leu Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105 110
 10 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 115 120 125
 15 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
 20 Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 165 170 175
 25 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 180 185 190
 30 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 195 200 205
 35 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
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 40 <210> 592
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 1 5 10 15
 65 Tyr Gly Leu Gly Asp Arg Lys
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 70 <210> 594
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 75 <223> Sintetico: MAPT(2-34)
 <400> 594
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Tyr Gly Leu Gly Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His Gln
20 25 30

5 Asp

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	<211>	35
	<212>	PRT
	<213>	Secuencia Artificial

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15      <220>
      <223> Sintetico: MAPT(10-44)
      <400> 595

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20 Val Met Glu Asp His Ala Gly Thr Tyr Gly Leu Gly Asp Arg Lys Asp
1 5 10 15

Gln Gly Gly Tyr Thr Met His Gln Asp Gln Glu Gly Asp Thr Asp Ala
20 25 30

Gly Leu Lys
35

30	<210>	596
	<211>	23
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31	<213>	Secuencia Artificial

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<400> 596

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1 5 10 15

45 Ala Gly Leu Gly Asp Arg Lys
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50	<210>	597
	<211>	23
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	<213>	Secuencia Artificial

55 <220>
 <223> Sintetico: MAPT(2-24)L20A
 <400> 597

60 Ala Glu Pro Arg Gln Glu Phe Glu Val Met Glu Asp His Ala Gly Thr
1 5 10 15

Tyr Gly Ala Gly Asp Arg Lys
20

70

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75 <220>
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1 5 10 15

80 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
20 25 30

Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
 35 40 45
 5 Tyr Ser Ala Ser Arg Arg Phe Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 10 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 15 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Phe Ser Thr Tyr Pro Tyr
 85 90 95
 20 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
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 25 <213> Secuencia Artificial
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 30 <400> 599
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 1 5 10 15
 35 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 40 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 45 Tyr Ser Ala Ser Arg Arg Phe Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 50 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 Phe Cys Gln Gln Phe Ser Thr Tyr Pro Tyr
 85 90 95
 55 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
 60 <210> 600
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 <400> 600
 70 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 75 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Lys Leu Leu Ile
 35 40 45
 80 Tyr Ser Ala Ser Arg Arg Phe Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

5 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 Phe Ser Thr Tyr Pro Tyr
 85 90 95
 10 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
 15 <210> 601
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 30 Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Ala
 20 25 30
 Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 35 40 45
 Tyr Ser Ala Ser Arg Arg Phe Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 40 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 45 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Phe Ser Thr Tyr Pro Tyr
 85 90 95
 50 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105
 55 <210> 602
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 65 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Ile Phe Arg Ser Tyr
 20 25 30
 70 Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 75 Ala Thr Ile Asn Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60
 80 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
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5	Ala	Asn	Ser	Tyr	Ser	Gly	Ala	Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu
				100					105					110		
10	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu
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15	Ala	Pro	Cys	Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys
		130					135					140				
20	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser
	145					150					155					160
	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser
					165					170					175	
25	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser
				180					185					190		
30	Leu	Gly	Thr	Lys	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	Ser	Asn
			195					200					205			
35	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Ser	Lys	Tyr	Gly	Pro	Pro	Cys	Pro
		210					215					220				
40	Pro	Cys	Pro	Ala	Pro	Glu	Phe	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe
	225					230					235					240
	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Tyr	Ile	Thr	Arg	Glu	Pro	Glu	Val
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45	Thr	Cys	Val	Val	Val	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe
				260					265					270		
50	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro
			275					280					285			
55	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr
		290					295					300				
60	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val
	305					310					315					320
	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala
					325					330					335	
65	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Gln
				340					345					350		
70	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly
			355					360					365			
75	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro
		370					375					380				
	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser
	385					390					395					400
80	Phe	Phe	Leu	Tyr	Ser	Arg	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Glu
					405					410					415	

5 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
420 425 430

10 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Leu Gly
435 440