

LISTADO DE SECUENCIAS

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

5 <120> Moléculas de unión a claudina-6 y usos de las mismas

<130> C1-A1915P

<150> JP 2019-128727

10 <151> 2019-07-10

<160> 154

<170> PatentIn versión 3.5

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35 35 40 45

35 Val Thr Ile Ser Ser Gly Gly Gly Arg Thr Tyr Tyr Pro Asp Ser Val

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40 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Thr Leu Tyr

65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys

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20 Tyr Ala Ser Thr Leu Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
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25 Ser Arg Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn Ser Leu Gln Ser
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50 Gly Thr Ile Ser Ser Gly Gly Gly Arg Thr Tyr Tyr Pro Asp Ser Val
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55 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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30 Gly Thr Ile Ser Ser Gly Gly Gly Arg Thr Tyr Tyr Pro Phe Ser Val
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

35 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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 35 40 45
 15 Gly Thr Ile Ser Ser Gly Gly Gly Arg 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
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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 35 40 45
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Gly Thr Ile Ser Ser Gly Gly Gly Arg Thr Tyr Tyr Pro Asp Ser Val
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5 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
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45 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80

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

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

5 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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 35 40 45

Tyr Ala Ser Thr Leu Leu Val Asp 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
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45 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Tyr Tyr Ser Ile Pro Tyr
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 35 40 45
 20 Tyr Ala Ser Thr Leu Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
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Tyr Tyr Ser Thr Leu Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

5 Ser Arg Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
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10 Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
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 35 40 45

Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
 50 55 60

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

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

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

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

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

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Ala Arg Gly Asp Phe Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Gln Gly
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35 40 45

30 Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
50 55 60

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

35 Leu Gln Met Asn Ser Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys
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Val Gly Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
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Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Thr 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
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Ala Arg Gly Asp Phe Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Glu Gly
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Thr Leu Val Thr Val Ser Ser
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Val Gly Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
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Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
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5 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
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 Leu Gln Met Asn Ser Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys
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Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Glu
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 45 <223> una secuencia sintetizada artificialmente
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 50 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Tyr Asn Ile Asp Leu Tyr
 20 25 30
 55

	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Glu	Leu	Leu	Ile
	35							40					45			
5	Tyr	Leu	Ser	Thr	Leu	Leu	Val	Ile	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly
	50						55					60				
	Ser	Arg	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
	65					70					75					80
10	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	His	Tyr	Tyr	Ser	Ile	Pro	Tyr
					85					90					95	
15	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys					
				100					105							
20	<210>	54														
	<211>	107														
	<212>	PRT														
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25	<220>															
	<223>	una secuencia sintetizada artificialmente														
	<400>	54														
30	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
	1				5					10					15	
35	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Tyr	Asn	Ile	Asp	Leu	Tyr
				20					25					30		
40	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Glu	Leu	Leu	Ile
			35					40					45			
45	Tyr	Leu	Ser	Thr	Leu	Leu	Val	Ile	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly
	50						55					60				
50	Ser	Arg	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
	65					70					75					80
55	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	His	Tyr	Tyr	Ser	Ile	Pro	Tyr
					85					90					95	
	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Glu					
				100					105							

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 5
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 <400> 55
 10
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Asp
 1 5 10 15
 15 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Val Gly Ser Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met
 20 35 40 45
 Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
 25 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 30
 Leu Gln Met Asn Ser Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 35 Ala Arg Gly Asp Tyr Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 40 115
 <210> 56
 <211> 119
 45 <212> PRT
 <213> Secuencia artificial
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 50
 <400> 56
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 55

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

5 Val Gly Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45
 Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
 50 55 60

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

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

20 Ala Arg Gly Asp Tyr Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Glu Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

25

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 30 <213> Secuencia artificial

<220>
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35 <400> 57

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

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

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

50 Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
 50 55 60

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 Asp Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

5 Ala Arg Gly Asp Phe Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Glu Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 115

10 <210> 58
 <211> 107
 <212> PRT
 <213> Secuencia artificial

15 <220>
 <223> una secuencia sintetizada artificialmente

 <400> 58

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

25 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Tyr Asn Ile Asp Leu Tyr
 20 25 30

30 Leu Ala Trp Tyr Gln Lys Lys Pro Gly Lys Ala Pro Glu Leu Leu Ile
 35 40 45

 Tyr Leu Ser Thr Leu Leu Val Ile Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60

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

40 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Tyr Tyr Ser Ile Pro Tyr
 85 90 95

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

50 <210> 59
 <211> 107
 <212> PRT
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 <220>
 55 <223> una secuencia sintetizada artificialmente

<400> 59

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Lys
 1 5 10 15

5 Gln Leu Lys Ser Gly Thr Ala Lys Val Val Cys Leu Leu Asn Asn Phe
 20 25 30

10 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 35 40 45

15 Ser Gly Asn Ser Lys Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60

20 Thr Tyr Ser Leu Ser Ser Thr Leu Lys Leu Ser Lys Ala Asp Tyr Glu
 65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95

25 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

30 <210> 60
 <211> 122
 <212> PRT
 <213> Secuencia artificial

35 <220>
 <223> una secuencia sintetizada artificialmente

40 <400> 60

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

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

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

Ala Gln Ile Lys Asp Lys Ser Gln Asn Tyr Ala Thr Tyr Val Ala Glu
 50 55 60

55

```

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

5  Ile Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
    85                               90                               95
Tyr Cys Arg Tyr Val His Tyr Ala Ala Gly Tyr Gly Val Asp Ile Trp
    100                            105                            110

10 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
    115                               120

15 <210> 61
    <211> 112
    <212> PRT
    <213> Secuencia artificial

20 <220>
    <223> una secuencia sintetizada artificialmente

    <400> 61

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

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

35 Asn Arg Asn Thr Tyr Leu His Trp Tyr Gln Glu Lys Pro Gly Gln Ala
    35                               40                               45

    Pro Arg 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 Gly Gln Gly
    85                               90                               95

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

    <210> 62
    <211> 107
55 <212> PRT

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<213> Secuencia artificial
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 <223> una secuencia sintetizada artificialmente
 5 <400> 62
 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
 1 5 10 15
 10 Gln Leu Lys Ser Gly Thr Ala Glu Val Val Cys Leu Leu Asn Asn Phe
 20 25 30
 15 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 35 40 45
 20 Ser Gly Asn Ser Glu Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60
 25 Thr Tyr Ser Leu Ser Ser Thr Leu Glu Leu Ser Lys Ala Asp Tyr Glu
 65 70 75 80
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95
 30 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105
 35 <210> 63
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 <212> PRT
 <213> Secuencia artificial
 40 <220>
 <223> una secuencia sintetizada artificialmente
 <400> 63
 45 Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Lys
 1 5 10 15
 50 Gln Leu Lys Ser Gly Thr Ala Lys Val Val Cys Leu Leu Asn Asn Phe
 20 25 30
 Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
 35 40 45
 55

Ser Gly Asn Ser Lys Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
 50 55 60

5 Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
 65 70 75 80
 Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
 85 90 95

10 Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 100 105

15 <210> 64
 <211> 119
 <212> PRT
 <213> Secuencia artificial

20 <220>
 <223> una secuencia sintetizada artificialmente
 <400> 64

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

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

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

Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
 50 55 60

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

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

50 Ala Arg Gly Asp Phe Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
 115

55

<210> 65
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 <213> Secuencia artificial
 5
 <220>
 <223> una secuencia sintetizada artificialmente
 <400> 65
 10
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 15 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Val Gly Ser Trp Val Arg Glu Ala Pro Gly Gln Gly Leu Glu Trp Met
 20 35 40 45
 Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
 25 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 30
 Leu Gln Met Asn Ser Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 35 Ala Arg Gly Asp Tyr Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Glu Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser
 40 115
 <210> 66
 <211> 119
 45 <212> PRT
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 <220>
 <223> una secuencia sintetizada artificialmente
 50
 <400> 66
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg Pro Ser Gln
 1 5 10 15
 55

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Ile Thr Ser Asp
 20 25 30

5 His Ala Trp Ser Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp
 35 40 45
 Ile Gly Tyr Ile Ser Tyr Ser Gly Ile Thr Thr Tyr Asn Pro Ser Leu
 50 55 60

10 Lys Ser Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80

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

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

Ser Leu Val Thr Val Ser Ser
 115

25

<210> 67
 <211> 107
 <212> PRT
 30 <213> Secuencia artificial

<220>
 <223> una secuencia sintetizada artificialmente

35 <400> 67

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

40 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Ser Tyr
 20 25 30

45 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

50 Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

55

Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Thr Leu Pro Tyr
 85 90 95

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

<210> 68
 <211> 116
 <212> PRT
 10 <213> Secuencia artificial

<220>
 <223> una secuencia sintetizada artificialmente

15 <400> 68

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

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

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

30 Gly Met Ile Asp Pro Ser Tyr Ser Glu Thr Arg Leu Asn Gln Lys Phe
 50 55 60

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

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

40 Ala Leu Tyr Gly Asn Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
 100 105 110

45 Thr Val Ser Ser
 115

<210> 69
 50 <211> 107
 <212> PRT
 <213> Secuencia artificial

<220>
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<400> 69

5	Asp	Ile	Gln	Met	Thr	Gln	Ser	Ser	Ser	Ser	Phe	Ser	Val	Ser	Leu	Gly
	1				5					10					15	
10	Asp	Arg	Val	Thr	Ile	Thr	Cys	Lys	Ala	Ser	Glu	Asp	Ile	Tyr	Asn	Arg
				20					25					30		
15	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Asn	Ala	Pro	Arg	Leu	Leu	Ile
			35					40					45			
20	Ser	Gly	Ala	Thr	Ser	Leu	Glu	Thr	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
		50					55					60				
25	Ser	Gly	Ser	Gly	Lys	Asp	Tyr	Thr	Leu	Ser	Ile	Thr	Ser	Leu	Gln	Thr
	65					70					75					80
30	Glu	Asp	Val	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Tyr	Trp	Ser	Thr	Pro	Tyr
					85					90					95	
35	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Val	Lys					
				100					105							
40	<210>	70														
	<211>	122														
	<212>	PRT														
	<213>	Secuencia artificial														
45	<220>															
	<223>	una secuencia sintetizada artificialmente														
50	<400>	70														
	Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Gly
	1				5					10					15	
55	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Ala
				20					25					30		
60	Trp	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
			35					40					45			
65	Ala	Gln	Ile	Lys	Asp	Lys	Ser	Gln	Asn	Tyr	Ala	Thr	Tyr	Val	Ala	Glu
		50					55					60				

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

5  Ile Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
    85                               90                               95
Tyr Cys Arg Tyr Val His Tyr Ala Ala Gly Tyr Gly Val Asp Ile Trp
    100                           105                           110

10 Gly Gln Gly Thr Thr Val Thr Val Ser Ser
    115                               120

15 <210> 71
    <211> 112
    <212> PRT
    <213> Secuencia artificial

20 <220>
    <223> una secuencia sintetizada artificialmente

    <400> 71

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

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

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

    Pro Arg 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 Gly Gln Gly
    85                               90                               95

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

    <210> 72
    <211> 328
55 <212> PRT

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<213> Secuencia artificial

 $\langle 220 \rangle$

<223> una secuencia sintetizada artificialmente

<400> 72

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Glu Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Glu
85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
100 105 110

Pro Ala Pro Glu Ala Ala Gly Gly Pro Lys Val Phe Leu Phe Pro Pro
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
130 135 140

Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp
145					150					155					160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
165 170 175

Glu Gln Tyr Ala Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
180 185 190

55

	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	
			195					200					205				
5	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	
		210					215					220					
10	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	
	225					230					235					240	
15	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	
				245						250					255		
20	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	
				260					265					270			
25	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	
		290					295					300					
30	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	
	305					310					315					320	
35	Gln	Glu	Ser	Leu	Ser	Leu	Ser	Pro									
					325												
40	<210>	73															
	<211>	328															
	<212>	PRT															
	<213>	Secuencia artificial															
45	<220>																
	<223>	una secuencia sintetizada artificialmente															
	<400>	73															
50	Ser	Thr	Ser	Gly	Gly	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	
				20					25					30			
55	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	
			35					40					45				

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

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 275 280 285

5 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
 290 295 300

10 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro
 325

15

<210> 74
 <211> 328
 <212> PRT
 20 <213> Secuencia artificial

<220>
 <223> una secuencia sintetizada artificialmente

25 <400> 74

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15

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

35 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

40 Gly Val His Thr Phe Pro Ala Val Leu Glu Ser Ser Gly Leu Tyr Ser
 50 55 60

45 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Glu
 85 90 95

50 Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110

55

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

	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr
					245					250					255	
5	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn
				260					265					270		
10	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe
			275					280					285			
15	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn
		290					295					300				
20	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr
	305					310					315					320
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45	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser
			35					40					45			
50	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Lys	Ser	Ser	Gly	Leu	Tyr	Ser
		50					55					60				
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	65					70					75					80

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Glu Ser Ser Gly Leu Tyr Ser
 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Glu
 40 85 90 95

Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
 100 105 110

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

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
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5 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Lys Glu
 225 230 235 240

10 Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
 245 250 255

15 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
 260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
 275 280 285

20 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
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25 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
 305 310 315 320

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

50 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

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	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	
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	65					70					75					80	
10	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	
					85					90					95		
15	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	
				100					105					110			
20	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	
				115				120					125				
25	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	
		130					135					140					
30	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	
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35	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	
				180					185					190			
40	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	
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45	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	
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55	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	
					245					250					255		
60	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	
				260					265					270			

	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	
	275							280					285				
5	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	
	290						295					300					
10	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	
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	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	
	35							40					45				
35																	
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40																	
	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	
	65					70					75					80	
45	Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	
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 Glu Arg Ala Thr Ile Asn Cys Arg Ala Ser Glu Asn Ile Asp Ser Tyr
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 35 40 45
 20 Tyr Ala Ser Thr Leu Leu Val Asp 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
 25 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Tyr Tyr Ser Ile Pro Tyr
 85 90 95
 30 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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 50 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
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 Thr Met Ser Trp Val Arg Glu Ala Pro Gly Gln Gly Leu Glu Trp Met
 55 35 40 45

Gly Thr Ile Ser Ser Gly Gly Gly Arg Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

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

10 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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15 Ala Arg Gly Asp Tyr Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Gln Gly
 100 105 110

Thr Leu Val Thr Val Ser Ser
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30 <400> 84

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

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

45 Gly Thr Ile Ser Ser Gly Gly Gly Arg 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
 65 70 75 80

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

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Ala Arg Gly Asp Tyr Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Glu Gly
100 105 110

5 Thr Leu Val Thr Val Ser Ser
115

10 <210> 85
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
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25 Thr Met Ser Trp Val Arg Glu Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

30 Gly Thr Ile Ser Ser Gly Gly Gly Arg Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

45 Ala Arg Gly Asp Tyr Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Glu Gly
100 105 110

50 Thr Leu Val Thr Val Ser Ser
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55 <210> 86
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<220>

<223> una secuencia sintetizada artificialmente

<400> 86

5

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

10 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Tyr Asn Ile Asp Ser Tyr
 20 25 30

15 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Glu Leu Leu Ile
 35 40 45

20 Tyr Tyr Ser Thr Leu Leu Val Asp Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60

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

25 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Tyr Tyr Ser Ile Pro Tyr
 85 90 95

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

<210> 87

35 <211> 107

<212> PRT

<213> Secuencia artificial

<220>

40 <223> una secuencia sintetizada artificialmente

<400> 87

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

50 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Tyr Asn Ile Asp Ser Tyr
 20 25 30

Leu Ala Trp Tyr Gln Lys Lys Pro Gly Lys Ala Pro Glu Leu Leu Ile
 35 40 45

55

Tyr Tyr Ser Thr Leu Leu Val Asp Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60

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

10 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Tyr Tyr Ser Ile Pro Tyr
 85 90 95

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

20 <210> 88
 <211> 107
 <212> PRT
 <213> Secuencia artificial

25 <220>
 <223> una secuencia sintetizada artificialmente

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

35 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Tyr Asn Ile Asp Ser Tyr
 20 25 30

40 Leu Ala Trp Tyr Gln Lys Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45

45 Tyr Tyr Ser Thr Leu Leu Val Asp Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

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

55 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Tyr Tyr Ser Ile Pro Tyr
 85 90 95

60 Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys
 100 105

65 <210> 89

<211> 121
 <212> PRT
 <213> Mus musculus

5 <400> 89

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

10 Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Glu Tyr
 20 25 30

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

20 Gly Gly Ile Asn Pro Asn Asn Gly Asn Thr Arg Tyr Asn Gln Lys Phe
 50 55 60

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

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

30 Ala Arg Cys Gly Asp Phe Asp Leu Phe Phe Phe Phe Ala Tyr Trp Gly
 100 105 110

35 Gln Gly Thr Leu Val Thr Val Ser Ala
 115 120

40 <210> 90
 <211> 107
 <212> PRT
 <213> Mus musculus

45 <400> 90

Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
 1 5 10 15

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

55 Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Glu Gly Leu Ile
 35 40 45

Ser Ser Ala Ser Ser Arg Phe Ser Gly Val Pro Asp Arg Phe Thr Gly
 50 55 60

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

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

Thr Phe Gly Ser Gly Thr Glu Leu Glu Ile Lys
 100 105

15

<210> 91
 <211> 123
 <212> PRT
 20 <213> Leporinae trouessart
 <400> 91

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

Leu Thr Leu Thr Cys Thr Val Ser Gly Ile Asp Leu Asn Asn Tyr Gly
 20 25 30

30 Val Gly Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly
 35 40 45

35 Tyr Ile Asn Ala Leu Gly Ser Ala Tyr Tyr Ala Ser Trp Ala Lys Gly
 50 55 60

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

45 Ser Pro Thr Thr Glu Asp Thr Ala Thr Tyr Phe Cys Ala Arg Val Arg
 85 90 95

50 Tyr Leu Tyr Ile Gly Gly Gly Gly Tyr Trp Ile Asp Arg Leu Asp Leu
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

55

<210> 92
 <211> 110
 <212> PRT
 <213> Leporinae trouessart
 5
 <400> 92
 Asp Val Val Met Thr Gln Thr Pro Ala Ser Val Glu Ala Ala Val Gly
 1 5 10 15
 10 Asp Thr Val Thr Ile Lys Cys Gln Ala Ser Gln Ser Ile Ser Ser Cys
 20 25 30
 15 Leu Ser Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45
 20 Tyr Tyr Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 25 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Leu Gln Cys
 65 70 75 80
 Asp Asp Ala Ala Thr Tyr Tyr Cys Leu Gly Val Val Ser Tyr Val Ser
 85 90 95
 30 Ala Asp Gly Gly Phe Gly Gly Gly Thr Glu Val Val Val Lys
 100 105 110
 35
 <210> 93
 <211> 117
 <212> PRT
 <213> Secuencia artificial
 40
 <220>
 <223> una secuencia sintetizada artificialmente
 <400> 93
 45
 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
 1 5 10 15
 50 Ser Met Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Gly Tyr
 20 25 30
 55 Thr Met Asn Trp Val Lys Gln Ser His Gly Lys Asn Leu Glu Trp Ile
 35 40 45

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

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

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

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

Leu Thr Val Ser Ser
 115

20 <210> 94
 <211> 107
 <212> PRT
 <213> Secuencia artificial

25 <220>
 <223> una secuencia sintetizada artificialmente

30 <400> 94

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

35 Glu Lys Val Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30

40 His Trp Phe Gln Gln Lys Pro Gly Thr Ser Pro Lys Leu Cys Ile Tyr
 35 40 45

Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Arg
 50 55 60

45 Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Arg Val Ala Ala Glu
 65 70 75 80

50 Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Arg Ser Asn Tyr Pro Pro Trp
 85 90 95

55

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105

5 <210> 95
<211> 98
<212> PRT
<213> Secuencia artificial

10 <220>
<223> una secuencia sintetizada artificialmente
<400> 95

15 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

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

25 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

30 Gly Val His Thr Phe Pro Ala Val Leu Glu Ser Ser Gly Leu Tyr Ser
50 55 60

35 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

40 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Glu
85 90 95

40 Arg Val

45 <210> 96
<211> 214
<212> PRT
<213> Secuencia artificial

50 <220>
<223> una secuencia sintetizada artificialmente
<400> 96

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

	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Tyr	Asn	Ile	Asp	Leu	Tyr
	20				25				30							
5	Leu	Ala	Trp	Tyr	Gln	Lys	Lys	Pro	Gly	Lys	Ala	Pro	Glu	Leu	Leu	Ile
	35			40			45									
10	Tyr	Leu	Ser	Thr	Leu	Leu	Val	Ile	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly
	50		55		60											
15	Ser	Arg	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
	65	70	75									80				
20	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	His	Tyr	Tyr	Ser	Ile	Pro	Tyr
	85				90				95							
25	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Glu	Arg	Thr	Val	Ala	Ala
	100			105			110									
30	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Lys	Gln	Leu	Lys	Ser	Gly
	115			120			125									
35	Thr	Ala	Lys	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala
	130		135		140											
40	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Asn	Ser	Lys
	145	150	155									160				
45	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser
	165				170				175							
50	Ser	Thr	Leu	Lys	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr
	180			185			190									
55	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser
	195			200			205									
60	Phe	Asn	Arg	Gly	Glu	Cys										
	210															
65	<210>	97														
70	<211>	98														
75	<212>	PRT														

<213> Secuencia artificial
 <220>
 <223> una secuencia sintetizada artificialmente
 5 <400> 97
 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
 1 5 10 15
 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
 20 25 30
 15 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45
 20 Gly Val His Thr Phe Pro Ala Val Leu Lys Ser Ser Gly Leu Tyr Ser
 50 55 60
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
 25 65 70 75 80
 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95
 30 Arg Val
 35
 <210> 98
 <211> 219
 <212> PRT
 <213> Secuencia artificial
 40 <220>
 <223> una secuencia sintetizada artificialmente
 <400> 98
 45 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 50 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Pro Leu Val His Ser
 20 25 30
 Asn Arg Asn Thr Tyr Leu His Trp Tyr Gln Glu Lys Pro Gly Gln Ala
 35 40 45
 55

[illegible]

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

	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Arg	Arg	Gly	Pro	225					230			235				240
5	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser													
					245					250					255														
10	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp													
				260						265					270														
15	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn													
			275					280					285																
20	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Ala	Ser	Thr	Tyr	Arg	Val													
		290					295					300																	
25	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu													
	305					310					315					320													
30	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys													
					325					330					335														
35	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Cys	Thr													
				340					345					350															
40	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Trp													
			355					360					365																
45	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu													
	370						375					380																	
50	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu													
	385					390					395					400													
55	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys													
					405					410					415														
60	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu													
				420					425					430															
65	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro														
			435					440					445																

<210> 100
 <211> 450
 <212> PRT
 <213> Secuencia artificial
 5
 <220>
 <223> una secuencia sintetizada artificialmente
 <400> 100
 10
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly
 1 5 10 15
 15 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala
 20 25 30
 20 Trp Met His Trp Val Arg Lys Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Gln Ile Lys Asp Lys Ser Gln Asn Tyr Ala Thr Tyr Val Ala Glu
 50 55 60
 25 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Ala Asp Ser Lys Asn Ser
 65 70 75 80
 30 Ile Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
 85 90 95
 35 Tyr Cys Arg Tyr Val His Tyr Ala Ala Gly Tyr Gly Val Asp Ile Trp
 100 105 110
 40 Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
 115 120 125
 Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
 130 135 140
 45 Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
 145 150 155 160
 50 Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro
 165 170 175
 55

	Ala	Val	Leu	Lys	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	180	185	190	
5	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	195	200	205	
10	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Pro	Lys	Ser	210	215	220	
15	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Leu	Arg	225	230	235	240
20	Arg	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	245	250	255	
25	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	260	265	270	
30	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	275	280	285	
35	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Ala	Ser	Thr	290	295	300	
40	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	305	310	315	320
45	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	325	330	335	
50	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	340	345	350	
55	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Cys	Glu	Met	Thr	Lys	Asn	Gln	Val	355	360	365	
	Ser	Leu	Ser	Cys	Ala	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	370	375	380	
	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	385	390	395	400

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr
 405 410 415

5 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 420 425 430

10 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 435 440 445

Ser Pro
 450

15

<210> 101
 <211> 447
 <212> PRT
 20 <213> Secuencia artificial

<220>
 <223> una secuencia sintetizada artificialmente

25 <400> 101

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

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

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

40 Gly Thr Ile Ser Ser Gly Val Gly Arg Thr Tyr Tyr Pro Asp Val Val
 50 55 60

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

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

50 Ala Arg Gly Asp Phe Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Glu Gly
 100 105 110

55

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

Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr
 340 345 350

5 Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr
 355 360 365

10 Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 370 375 380

15 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 385 390 395 400

Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 405 410 415

20 Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 420 425 430

25 Ala Leu His Asn His Tyr Thr Gln Glu Ser Leu Ser Leu Ser Pro
 435 440 445

30 <210> 102
 <211> 214
 <212> PRT
 <213> Secuencia artificial

35 <220>
 <223> una secuencia sintetizada artificialmente

<400> 102

40 Asp Ile Gln Met 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 Ala Ser Tyr Asn Ile Asp Leu Tyr
 20 25 30

Leu Ala Trp Tyr Gln Lys Lys Pro Gly Lys Ala Pro Glu Leu Leu Ile
 35 40 45

50 Tyr Leu Ser Thr Leu Leu Val Ile Gly Val Pro Asp Arg Phe Ser Gly
 50 55 60

55

	Ser	Arg	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	His	Tyr	Tyr	Ser	Ile	Pro	Tyr	
					85					90					95		
10	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Glu	Arg	Thr	Val	Ala	Ala	
				100					105					110			
15	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Lys	Gln	Leu	Lys	Ser	Gly	
			115					120					125				
20	Thr	Ala	Lys	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu	Ala	
	130						135					140					
25	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	Tyr	Ser	Leu	Ser	
					165					170					175		
30	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	Lys	His	Lys	Val	Tyr	
			180						185					190			
35	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser	Pro	Val	Thr	Lys	Ser	
			195					200					205				
40	Phe	Asn	Arg	Gly	Glu	Cys											
	210																
45	<210>	103															
	<211>	98															
	<212>	PRT															
	<213>	Secuencia artificial															
50	<220>																
	<223>	una secuencia sintetizada artificialmente															
	<400>	103															
55	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Ser	Ser	Arg	
	1				5					10					15		

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

5 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
 35 40 45

10 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
 50 55 60

15 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
 65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
 85 90 95

20 Arg Val

25 <210> 104
 <211> 447
 <212> PRT
 <213> Secuencia artificial

30 <220>
 <223> una secuencia sintetizada artificialmente
 <400> 104

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

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

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

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

	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu
	305					310					315					320
5	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ser	Ser	Ile	Glu	Lys
					325					330					335	
10	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr
				340					345					350		
15	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr
			355					360					365			
20	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu
	370						375					380				
25	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	Leu
	385					390					395					400
30	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys
					405					410					415	
35	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu
				420					425					430		
40	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Glu	Ser	Leu	Ser	Leu	Ser	Pro	
			435					440					445			
45	<210>	105														
	<211>	447														
	<212>	PRT														
	<213>	Secuencia artificial														
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	<223>	una secuencia sintetizada artificialmente														
50	<400>	105														
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	1			5						10					15	
55	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
				20					25					30		

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

[illegible]

<400> 106

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

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

Ala Leu His Asn His Tyr Thr Gln Glu Ser Leu Ser Leu Ser Pro
435 440 445

5 <210> 107
<211> 447
<212> PRT
<213> Secuencia artificial

10 <220>
<223> una secuencia sintetizada artificialmente
<400> 107

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

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

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

Gly Thr Ile Ser Ser Gly Gly Gly Arg Thr Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

40 Ala Arg Gly Asp Tyr Arg Tyr Asp Gly Phe Ala Tyr Trp Gly Glu Gly
100 105 110

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

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

50 Gly Cys Leu Val Glu Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp
145 150 155 160

55

	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	
					165					170					175		
5	Glu	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	
				180					185					190			
10	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	
			195					200					205				
15	Ser	Asn	Thr	Lys	Val	Asp	Glu	Arg	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	
		210					215					220					
20	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly	Gly	Pro	
	225					230					235					240	
25	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	
				260					265					270			
30	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	
		275						280					285				
35	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Ala	Ser	Thr	Tyr	Arg	Val	
		290					295					300					
40	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	
	305					310					315					320	
45	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	
					325					330					335		
50	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val	Tyr	Thr	
				340					345					350			
55	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	
			355					360					365				
60	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	
		370					375					380					

Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu
 385 390 395 400

5 Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys
 405 410 415

10 Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu
 420 425 430

15 Ala Leu His Asn His Tyr Thr Gln Glu Ser Leu Ser Leu Ser Pro
 435 440 445

20 <210> 108
 <211> 450
 <212> PRT
 <213> Secuencia artificial

25 <220>
 <223> una secuencia sintetizada artificialmente

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

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

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

45 Ala Gln Ile Lys Asp Lys Ser Gln Asn Tyr Ala Thr Tyr Val Ala Glu
 50 55 60

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

55 Ile Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr
 85 90 95

60 Tyr Cys Arg Tyr Val His Tyr Ala Ala Gly Tyr Gly Val Asp Ile Trp
 100 105 110

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

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
 340 345 350

5 Val Tyr Thr Leu Pro Pro Ser Arg Lys Glu Met Thr Lys Asn Gln Val
 355 360 365

10 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
 370 375 380

15 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
 385 390 395 400

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
 405 410 415

20 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
 420 425 430

25 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
 435 440 445

30 Ser Pro
 450

35 <210> 109
 <211> 450
 <212> PRT
 <213> Secuencia artificial
 <220>
 <223> una secuencia sintetizada artificialmente

40 <400> 109

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

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

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

55 Ala Gln Ile Lys Asp Lys Ser Gln Asn Tyr Ala Thr Tyr Val Ala Glu
 50 55 60

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

[illegible]

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

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

Ser Pro
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10 <220>
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20 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala
20 25 30

25 Trp Met His Trp Val Arg Lys Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

30 Ala Gln Ile Lys Asp Lys Ser Gln Asn Tyr Ala Thr Tyr Val Ala Glu
50 55 60

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

40 Tyr Cys Arg Tyr Val His Tyr Ala Ala Gly Tyr Gly Val Asp Ile Trp
100 105 110

45 Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
115 120 125

50 Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr
130 135 140

55 Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
145 150 155 160

	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	
					165					170					175		
5	Ala	Val	Leu	Lys	Ser	Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	
				180					185					190			
10	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	Tyr	Ile	Cys	Asn	Val	Asn	
			195					200					205				
15	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	Arg	Val	Glu	Pro	Lys	Ser	
		210					215					220					
20	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Ala	Ala	
	225					230					235					240	
25	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	
					245					250					255		
30	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	
				260					265					270			
35	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	
			275					280					285				
40	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Ala	Ser	Thr	
		290					295					300					
45	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	
	305					310					315					320	
50	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	
					325					330					335		
55	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	
				340					345					350			
60	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Lys	Glu	Met	Thr	Lys	Asn	Gln	Val	
			355					360					365				
65	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	
	370						375					380					

	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro
	385					390					395					400
5	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr
					405					410					415	
10	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val
				420					425					430		
15	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu
			435					440					445			
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		450														
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			20						25					30		
40	Leu	Ala	Trp	Tyr	Gln	Lys	Lys	Pro	Gly	Lys	Ala	Pro	Glu	Leu	Leu	Ile
		35						40					45			
45	Tyr	Tyr	Ser	Thr	Leu	Leu	Val	Asp	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly
	50						55					60				
50	Ser	Arg	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
	65				70						75				80	
55	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	His	Tyr	Tyr	Ser	Ile	Pro	Tyr
					85					90					95	

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Glu Arg Thr Val Ala Ala
 100 105 110

5 Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Lys Gln Leu Lys Ser Gly
 115 120 125

10 Thr Ala Lys Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
 130 135 140

15 Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Lys
 145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
 165 170 175

20 Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
 180 185 190

25 Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
 195 200 205

30 Phe Asn Arg Gly Glu Cys
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 1 5

20 <210> 116
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30 Gly Gln Gly Thr Gln Val Pro Tyr Thr
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 1 5 10 15

Gly

50 <210> 118
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 1 5 10
 5
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 1 5 10
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 Tyr Ser Thr Leu Leu Val Asp
 1 5
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 45 Gln His Tyr Tyr Ser Ile Pro Tyr Thr
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 Asn Ala Trp Met His
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 1 5 10 15
 20 Val Lys Gly
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 50 Gly Trp Val Asn Gly Leu Val Ser Cys Ala Leu Pro Met Trp Lys Val
 20 25 30
 Thr Ala Phe Ile Gly Asn Ser Ile Val Val Ala Gln Val Val Trp Glu
 55 35 40 45

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

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

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10 <400> 128

Met Ser Met Gly Leu Glu Ile Thr Gly Thr Ala Leu Ala Val Leu Gly
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15 Trp Leu Gly Thr Ile Val Cys Cys Ala Leu Pro Met Trp Arg Val Ser
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20 Ala Phe Ile Gly Ser Asn Ile Ile Thr Ser Gln Asn Ile Trp Glu Gly
 35 40 45

25 Leu Trp Met Asn Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys Lys
 50 55 60

30 Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala Arg
 65 70 75 80

35 Ala Leu Ile Val Val Ala Ile Leu Leu Ala Ala Phe Gly Leu Leu Val
 85 90 95

40 Lys Ala Lys Ile Thr Ile Val Ala Gly Val Leu Phe Leu Leu Ala Ala
 115 120 125

45 Leu Leu Thr Leu Val Pro Val Ser Trp Ser Ala Asn Thr Ile Ile Arg
 130 135 140

50 Asp Phe Tyr Asn Pro Val Val Pro Glu Ala Gln Lys Arg Glu Met Gly
 145 150 155 160

55 Ala Gly Leu Tyr Val Gly Trp Ala Ala Ala Leu Gln Leu Leu Gly
 165 170 175

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

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

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

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

	Leu	Trp	Met	Asn	Cys	Val	Val	Gln	Ser	Thr	Gly	Gln	Met	Gln	Cys	Lys	
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5	Met	Tyr	Asp	Ser	Leu	Leu	Ala	Leu	Pro	Gln	Asp	Leu	Gln	Ala	Ala	Arg	
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10	Ala	Leu	Ile	Val	Val	Ser	Ile	Leu	Leu	Ala	Ala	Phe	Gly	Leu	Leu	Val	
					85					90					95		
15	Ala	Leu	Val	Gly	Ala	Gln	Cys	Thr	Asn	Cys	Val	Gln	Asp	Glu	Thr	Ala	
				100					105					110			
20	Lys	Ala	Lys	Ile	Thr	Ile	Val	Ala	Gly	Val	Leu	Phe	Leu	Leu	Ala	Ala	
			115					120					125				
25	Leu	Leu	Thr	Leu	Val	Pro	Val	Ser	Trp	Ser	Ala	Asn	Thr	Ile	Ile	Arg	
	130						135					140					
30	Ala	Gly	Leu	Tyr	Val	Gly	Trp	Ala	Ala	Ala	Ala	Leu	Gln	Leu	Leu	Gly	
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35	Gly	Ala	Leu	Leu	Cys	Cys	Ser	Cys	Pro	Pro	Arg	Asp	Lys	Tyr	Ala	Pro	
				180					185					190			
40	Thr	Lys	Ile	Leu	Tyr	Ser	Ala	Pro	Arg	Ser	Thr	Gly	Pro	Gly	Thr	Gly	
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5	Thr	Ala	Phe 35	Ile	Gly	Ser	Asn	Ile	Val	Thr	Ala	Gln	Thr	Ser	Trp	Glu
10	Gly	Leu	Trp	Met	Asn	Cys	Val 55	Val	Gln	Ser	Thr	Gly 60	Gln	Met	Gln	Cys
15	Lys 65	Met	Tyr	Asp	Ser	Met 70	Leu	Ala	Leu	Pro	Gln 75	Asp	Leu	Gln	Ala	Ala 80
20	Arg	Ala	Leu	Met	Val 85	Ile	Ser	Ile	Ile	Val 90	Gly	Ala	Leu	Gly	Met 95	Leu
25	Leu	Ser	Val	Val 100	Gly	Gly	Lys	Cys	Thr	Asn 105	Cys	Met	Glu	Asp	Glu	Thr
30	Val	Lys	Ala 115	Lys	Ile	Met	Ile	Thr	Ala	Gly	Ala	Val	Phe 125	Ile	Val	Ala
35	Ser	Met	Leu	Ile	Met	Val	Pro 135	Val	Ser	Trp	Thr	Ala 140	His	Asn	Val	Ile
40	Arg	Asp	Phe	Tyr	Asn	Pro 150	Met	Val	Ala	Ser	Gly 155	Gln	Lys	Arg	Glu	Met 160
45	Gly	Ala	Ser	Leu	Tyr 165	Val	Gly	Trp	Ala	Ala 170	Ser	Gly	Leu	Leu	Leu 175	Leu
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<213> Secuencia artificial

<220>

<223> una secuencia sintetizada artificialmente

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<400> 134

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

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20 Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe Asp Ser Gln Thr
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25 Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile Thr Asp Lys Thr
    35                      40                      45

30 Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn Ser Ala Val Ala
    50                      55                      60

35 Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala Phe Asn Asn Ser
    65                      70                      75                      80

40 Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu Ser Ser Cys Asp
    85                      90                      95

45 Val Lys Leu Val Glu Lys Ser Phe Glu Thr Asp Thr Asn Leu Asn Phe
    100                      105                      110

45 Gln Asn Leu Ser Val Ile Gly Phe Arg Ile Leu Leu Leu Lys Val Ala
    115                      120                      125

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<400> 136

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				20					25					30		
10																
	Ala	Thr	Gly	Phe	Tyr	Pro	Asp	His	Val	Glu	Leu	Ser	Trp	Trp	Val	Asn
			35					40					45			
15																
	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser	Thr	Asp	Pro	Gln	Pro	Leu	Lys
		50					55					60				
20																
	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg	Tyr	Cys	Leu	Ser	Ser	Arg	Leu
	65					70					75					80
25																
	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn	Pro	Arg	Asn	His	Phe	Arg	Cys
					85					90					95	
30																
	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu	Asn	Asp	Glu	Trp	Thr	Gln	Asp
				100					105					110		
35																
	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val	Ser	Ala	Glu	Ala	Trp	Gly	Arg
			115					120					125			
40																
	Ala	Asp	Cys	Gly	Phe	Thr	Ser	Glu	Ser	Tyr	Gln	Gln	Gly	Val	Leu	Ser
		130					135					140				
45																
	Ala	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu	Gly	Lys	Ala	Thr	Leu	Tyr	Ala
	145					150					155					160
50																
	Val	Leu	Val	Ser	Ala	Leu	Val	Leu	Met	Ala	Met	Val	Lys	Arg	Lys	Asp
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<211> 173

<212> PRT

<213> Homo sapiens

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10
Leu Leu Glu Lys Phe Phe Pro Asp Val Ile Lys Ile His Trp Gln Glu
          35          40          45

15
Lys Lys Ser Asn Thr Ile Leu Gly Ser Gln Glu Gly Asn Thr Met Lys
50          55          60

20
Thr Asn Asp Thr Tyr Met Lys Phe Ser Trp Leu Thr Val Pro Glu Lys
65          70          75          80

25
Ser Leu Asp Lys Glu His Arg Cys Ile Val Arg His Glu Asn Asn Lys
          85          90          95

30
Asn Gly Val Asp Gln Glu Ile Ile Phe Pro Pro Ile Lys Thr Asp Val
          100          105          110

35
Ile Thr Met Asp Pro Lys Asp Asn Cys Ser Lys Asp Ala Asn Asp Thr
          115          120          125

40
Leu Leu Leu Gln Leu Thr Asn Thr Ser Ala Tyr Tyr Met Tyr Leu Leu
130          135          140

45
Leu Leu Leu Lys Ser Val Val Tyr Phe Ala Ile Ile Thr Cys Cys Leu
145          150          155          160

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<213> Homo sapiens

<400> 138
Lys Gln Leu Asp Ala Asp Val Ser Pro Lys Pro Thr Ile Phe Leu Pro
1          5          10          15

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10	Lys	Ser	Asn	Thr	Ile	Leu	Gly	Ser	Gln	Glu	Gly	Asn	Thr	Met	Lys	Thr
	50					55						60				
15	Asn	Asp	Thr	Tyr	Met	Lys	Phe	Ser	Trp	Leu	Thr	Val	Pro	Glu	Glu	Ser
	65					70					75					80
20	Leu	Asp	Lys	Glu	His	Arg	Cys	Ile	Val	Arg	His	Glu	Asn	Asn	Lys	Asn
				85					90					95		
25	Gly	Ile	Asp	Gln	Glu	Ile	Ile	Phe	Pro	Pro	Ile	Lys	Thr	Asp	Val	Thr
				100				105					110			
30	Thr	Val	Asp	Pro	Lys	Asp	Ser	Tyr	Ser	Lys	Asp	Ala	Asn	Asp	Val	Thr
	115						120					125				
35	Thr	Val	Asp	Pro	Lys	Tyr	Asn	Tyr	Ser	Lys	Asp	Ala	Asn	Asp	Val	Ile
	130					135					140					
40	Thr	Met	Asp	Pro	Lys	Asp	Asn	Trp	Ser	Lys	Asp	Ala	Asn	Asp	Thr	Leu
	145					150					155					160
45	Leu	Leu	Gln	Leu	Thr	Asn	Thr	Ser	Ala	Tyr	Tyr	Met	Tyr	Leu	Leu	Leu
				165				170				175				
50	Leu	Leu	Lys	Ser	Val	Val	Tyr	Phe	Ala	Ile	Ile	Thr	Cys	Cys	Leu	Leu
				180				185					190			
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5	Thr	Arg	Val	Thr 20	Val	Glu	Pro	Arg	Ser 25	Gln	Pro	His	Thr	Lys 30	Pro	Ser
10	Val	Phe 35	Val	Met	Lys	Asn	Gly 40	Thr	Asn	Val	Ala	Cys 45	Leu	Val	Lys	Glu
15	Phe 50	Tyr	Pro	Lys	Asp	Ile 55	Arg	Ile	Asn	Leu	Val 60	Ser	Ser	Lys	Lys	Ile
20	Thr 65	Glu	Phe	Asp	Pro 70	Ala	Ile	Val	Ile	Ser 75	Pro	Ser	Gly	Lys	Tyr 80	Asn
25	Ala	Val	Lys	Leu	Gly 85	Lys	Tyr	Glu	Asp	Ser 90	Asn	Ser	Val	Thr	Cys 95	Ser
30	Val	Gln	His 100	Asp	Asn	Lys	Thr	Val 105	His	Ser	Thr	Asp	Phe 110	Glu	Val	Lys
35	Thr	Asp 115	Ser	Thr	Asp	His	Val 120	Lys	Pro	Lys	Glu	Thr 125	Glu	Asn	Thr	Lys
40	Gln 130	Pro	Ser	Lys	Ser	Cys 135	His	Lys	Pro	Lys	Ala 140	Ile	Val	His	Thr	Glu
45	Lys 145	Val	Asn	Met	Met 150	Ser	Leu	Thr	Val	Leu 155	Gly	Leu	Arg	Met	Leu	Phe 160
50	Ala	Lys	Thr	Val 165	Ala	Val	Asn	Phe	Leu 170	Leu	Thr	Ala	Lys	Leu 175	Phe	Phe
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 5 Ser Gln Val Ser Pro Phe Lys Ile Pro Ile Glu Glu Leu Glu Asp Arg
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 10 Val Phe Val Asn Cys Asn Thr Ser Ile Thr Trp Val Glu Gly Thr Val
 35 40 45
 15 Gly Thr Leu Leu Ser Asp Ile Thr Arg Leu Asp Leu Gly Lys Arg Ile
 50 55 60
 20 Leu Asp Pro Arg Gly Ile Tyr Arg Cys Asn Gly Thr Asp Ile Tyr Lys
 65 70 75 80
 25 Asp Lys Glu Ser Thr Val Gln Val His Tyr Arg Met Cys Gln Ser Cys
 85 90 95
 30 Val Glu Leu Asp Pro Ala Thr Val Ala Gly Ile Ile Val Thr Asp Val
 100 105 110
 35 Ile Ala Thr Leu Leu Leu Ala Leu Gly Val Phe Cys Phe Ala Gly His
 115 120 125
 40 Glu Thr Gly Arg Leu Ser Gly Ala Ala Asp Thr Gln Ala Leu Leu Arg
 130 135 140
 45 Asn Asp Gln Val Tyr Gln Pro Leu Arg Asp Arg Asp Asp Ala Gln Tyr
 145 150 155 160
 50 Ser His Leu Gly Gly Asn Trp Ala Arg Asn Lys
 165 170
 55 <210> 142
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5	Gln	Thr	Pro	Tyr	Lys	Val	Ser	Ile	Ser	Gly	Thr	Thr	Val	Ile	Leu	Thr
	35				40				45							
10	Cys	Pro	Gln	Tyr	Pro	Gly	Ser	Glu	Ile	Leu	Trp	Gln	His	Asn	Asp	Lys
	50				55				60							
15	Asn	Ile	Gly	Gly	Asp	Glu	Asp	Asp	Lys	Asn	Ile	Gly	Ser	Asp	Glu	Asp
	65				70				75				80			
20	His	Leu	Ser	Leu	Lys	Glu	Phe	Ser	Glu	Leu	Glu	Gln	Ser	Gly	Tyr	Tyr
					85				90				95			
25	Val	Cys	Tyr	Pro	Arg	Gly	Ser	Lys	Pro	Glu	Asp	Ala	Asn	Phe	Tyr	Leu
					100				105				110			
30	Tyr	Leu	Arg	Ala	Arg	Val	Cys	Glu	Asn	Cys	Met	Glu	Met	Asp	Val	Met
					115				120				125			
35	Ser	Val	Ala	Thr	Ile	Val	Ile	Val	Asp	Ile	Cys	Ile	Thr	Gly	Gly	Leu
	130				135				140							
40	Leu	Leu	Leu	Val	Tyr	Tyr	Trp	Ser	Lys	Asn	Arg	Lys	Ala	Lys	Ala	Lys
	145				150				155				160			
45	Pro	Val	Thr	Arg	Gly	Ala	Gly	Ala	Gly	Gly	Arg	Gln	Arg	Gly	Gln	Asn
					165				170				175			
50	Lys	Glu	Arg	Pro	Pro	Pro	Val	Pro	Asn	Pro	Asp	Tyr	Glu	Pro	Ile	Arg
					180				185				190			
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				20					25					30			
10	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	
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15	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	
		50					55					60					
20	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Ser	Leu	Gly	Thr	Gln	Thr	
	65					70				75						80	
25	Tyr	Ile	Cys	Asn	Val	Asn	His	Lys	Pro	Ser	Asn	Thr	Lys	Val	Asp	Lys	
					85					90					95		
30	Lys	Val	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	
				100					105					110			
35	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	
			115					120					125				
40	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	
		130					135					140					
45	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	
	145					150					155					160	
50	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	
					165					170					175		
55	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	
				180					185					190			
60	His	Gln	Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	
			195					200					205				
65	Lys	Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	
	210						215					220					

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5	Leu	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	
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			275					280					285				
20	Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	
	290						295					300					
25	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	
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				20					25					30			
45	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	Ala	Leu	Thr	Ser	
			35					40					45				
50	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	Ser	Gly	Leu	Tyr	Ser	
	50						55					60					
55	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	Asn	Phe	Gly	Thr	Gln	Thr	
	65					70					75					80	

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

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20 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
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25 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
    35                      40                      45

30 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                      55                      60

35 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
    65                      70                      75                      80

40 Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
    85                      90                      95

45 Arg Val Glu Leu Lys Thr Pro Leu Gly Asp Thr Thr His Thr Cys Pro
    100                      105                      110

45 Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg
    115                      120                      125

50 Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys
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55 Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro
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15 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

20 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
25 65 70 75 80

30 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
100 105 110

35
Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
 115 120 125

[illegible]

	Asp	Val	Ser	Gln	Glu	Asp	Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp
45	145					150					155					160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
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Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
180 185 190

55

[illegible]

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