

P25692-Final PC72054A_Sequence_Listing_Spanish
LISTADO DE SECUENCIAS

<110> Pfizer Inc.
Root, Adam

<120> DIACUERPOS HETERODIMÉRICOS BIESPECÍFICOS Y SUS USOS

<130> PC72054A

<160> 239

<170> PatentIn versión 3.5

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Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
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Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ala Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
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Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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P25692-Final PC72054A_Sequence_Listing_Spanish

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
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Ala Leu Ile Gly Ser Gly Val Ala Phe Asp Ile Trp Gly Gln Gly Thr
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Met Val Thr Val Ser Ser
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Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
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Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

P25692-Final PC72054A_Sequence_Listing_Spanish

Ser Ala Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
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Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asp Thr Ala Ser Ala Phe Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ser
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Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
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Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

P25692-Final PC72054A_Sequence_Listing_Spanish

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

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

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asp Thr Ala Ser Ala Phe Asp Ile Trp Gly Gln Gly Thr
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Met Val Thr Val Ser Ser
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P25692-Final PC72054A_Sequence_Listing_Spanish

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asp Thr Ala Asn Ala Phe Gly Ile Trp Gly Gln Gly Thr
100 105 110

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ser Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu
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P25692-Final PC72054A_Sequence_Listing_Spanish

<400> 10

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

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asp Thr Ala Thr Ala Phe Asp Ile Trp Gly Gln Gly Thr
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Met Val Thr Val Ser Ser
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Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
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Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

P25692-Final PC72054A_Sequence_Listing_Spanish

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asp Thr Ala Ser Ala Phe Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ser
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Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln

1 5 10 15

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

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

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asp Thr Ala Asn Ala Phe Asp Ile Trp Gly Gln Gly Thr
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P25692-Final PC72054A_Sequence_Listing_Spanish

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

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

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
Página 10

35

40

45

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
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P25692-Final PC72054A_Sequence_Listing_Spanish

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

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Asp Ser Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser

50

55

60

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

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

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asp Thr Ala Asn Ala Phe Asp Ile Trp Gly Gln Gly Thr
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Met Val Thr Val Ser Ser
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Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
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Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

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

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asp Thr Ala Asn Ala Phe Asp Ile Trp Gly Gln Gly Thr
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Met Val Thr Val Ser Ser
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Gln Ser Val Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
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Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ala Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105 110

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

P25692-Final PC72054A_Sequence_Listing_Spanish

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

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

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

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr
65 70 75 80

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

Ala Thr Ile Asn Ala Pro Asn Asn Phe Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ser
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Ser Tyr Gly Ile Ser
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Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu Gln
1 5 10 15

Gly

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Ile Gly Ser Gly Val Ala Phe Asp Ile
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Ile Asp Thr Ala Ser Ala Phe Asp Ile
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Ile Asp Thr Ala Asn Ala Phe Gly Ile
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Ile Asp Thr Ala Thr Ala Phe Asp Ile
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Ile Asp Thr Ala Asn Ala Phe Asp Ile
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Ile Asn Ala Pro Asn Asn Phe Asp Ile
1 5

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Gly Tyr Thr Phe Thr Ser Tyr Gly Ile Ser
1 5 10

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Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn
1 5 10

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Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser
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Ser Gly Ser Arg Ser Asn Ile Gly Asn Asn Tyr Val Ser
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<400> 37

Asp Asn Asn Lys Arg Pro Ser
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Asp Ser Asn Lys Arg Pro Ser
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Gly Thr Trp Asp Ser Ser Leu Ser Ala Tyr Val
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Gly Thr Trp Asp Ser Ser Leu Ser Ala Trp Val
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Gly Thr Trp Asp Ser Ser Leu Ser Ala Val Val
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Gly Thr Trp Asp Ser Ser Leu Ser Gly Val Val
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Gly Thr Trp Asp Ser Ser Leu Ser Ser Tyr Val
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Gly Thr Trp Asp Ser Ser Leu Ser Ser Trp Val
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr
20 25 30

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

Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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<223> Secuencia de síntesis de péptidos

<400> 46

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

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

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

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
50 55 60

P25692-Final PC72054A_Sequence_Listing_Spanish

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

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

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe
100 105 110

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120 125

<210> 47

<211> 109

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 47

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100 105

<210> 48

<211> 5

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 48

Thr Tyr Ala Met Asn
1 5

<210> 49

<211> 19

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 49

Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser
1 5 10 15

Val Lys Gly

<210> 50

<211> 19

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 50

Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser
1 5 10 15

Val Lys Asp

<210> 51

<211> 14

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 51

His Gly Asn Phe Gly Asn Ser Tyr Val Ser Trp Phe Ala Tyr
1 5 10

<210> 52

<211> 10

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 52

Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn
1 5 10

<210> 53

<211> 10

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 53

Gly Phe Thr Phe Asn Thr Tyr Ala Met Asn
1 5 10

<210> 54

<211> 12

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 54

Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
1 5 10

<210> 55

<211> 14

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 55

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

<210> 56

<211> 7

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 56

Gly Thr Asn Lys Arg Ala Pro
1 5

P25692-Final PC72054A_Sequence_Listing_Spanish

<210> 57
 <211> 9
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de péptidos

 <400> 57

Ala Leu Trp Tyr Ser Asn Leu Trp Val
 1 5

<210> 58
 <211> 18
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de nucleótidos

 <400> 58
 ggagattttc aacgtgaa

18

<210> 59
 <211> 21
 <212> ADN
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de nucleótidos

 <400> 59
 ctcttctgag atgagttttt g

21

<210> 60
 <211> 5
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de péptidos

 <400> 60

Cys Pro Pro Cys Pro
 1 5

<210> 61
 <211> 28
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de péptidos

 <400> 61

P25692-Final PC72054A_Sequence_Listing_Spanish

Glu Val Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys Glu Val
1 5 10 15

Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys
20 25

<210> 62
<211> 28
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 62

Lys Val Ala Ala Leu Lys Glu Lys Val Ala Ala Leu Lys Glu Lys Val
1 5 10 15

Ala Ala Leu Lys Glu Lys Val Ala Ala Leu Lys Glu
20 25

<210> 63
<211> 216
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 63

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

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
50 55 60

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
85 90 95

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
100 105 110

P25692-Final PC72054A_Sequence_Listing_Spanish

Pro Arg Glu Pro Gln Val Cys Thr Leu Pro Pro Ser Arg Glu Glu Met
115 120 125

Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro
130 135 140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
145 150 155 160

Tyr Lys Thr Thr Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
165 170 175

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
195 200 205

Lys Ser Leu Ser Leu Ser Pro Gly
210 215

<210> 64

<211> 216

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 64

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

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
50 55 60

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
85 90 95

P25692-Final PC72054A_Sequence_Listing_Spanish

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
100 105 110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Cys Arg Glu Glu Met
115 120 125

Thr Lys Asn Gln Val Ser Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro
130 135 140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
145 150 155 160

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
165 170 175

Val Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
195 200 205

Lys Ser Leu Ser Leu Ser Pro Gly
210 215

<210> 65

<211> 217

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 65

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

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
50 55 60

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
Página 28

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
100 105 110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
115 120 125

Thr Lys Asn Gln Val Ser Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro
130 135 140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
145 150 155 160

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
165 170 175

Val Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Tyr Thr Gln
195 200 205

Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

<210> 66

<211> 217

<212> PRT

<213> Secuencia artificial

<220>

<223> secuencia de síntesis de péptidos

<400> 66

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

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr
35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
50 55 60

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
65 70 75 80

P25692-Final PC72054A_Sequence_Listing_Spanish

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
85 90 95

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
100 105 110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met
115 120 125

Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro
130 135 140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn
145 150 155 160

Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu
165 170 175

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val
180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln
195 200 205

Lys Ser Leu Ser Leu Ser Pro Gly Lys
210 215

<210> 67
<211> 6
<212> ADN
<213> Secuencia artificial

<220>
<223> secuencia de síntesis de nucleótidos

<400> 67
tccgga

6

<210> 68
<211> 8
<212> PRT
<213> Secuencia artificial

<220>
<223> secuencia de síntesis de péptidos

<400> 68

Gly Gly Gly Ser Gly Gly Gly Gly
1 5

P25692-Final PC72054A_Sequence_Listing_Spanish

<210> 69
 <211> 9
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de péptidos

 <400> 69

Gly Gly Gly Gly Ser Gly Gly Gly Gly
 1 5

<210> 70
 <211> 7
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de péptidos

 <400> 70

Gly Phe Asn Arg Gly Glu Cys
 1 5

<210> 71
 <211> 7
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de péptidos

 <400> 71

Gly Val Glu Pro Lys Ser Cys
 1 5

<210> 72
 <211> 6
 <212> PRT
 <213> Secuencia artificial

 <220>
 <223> Secuencia de síntesis de péptidos

 <400> 72

Gly Gly Cys Gly Gly Gly
 1 5

<210> 73
 <211> 6
 <212> PRT
 <213> Secuencia artificial

 <220>

<223> Secuencia de síntesis de péptidos

<400> 73

Gly Cys Pro Pro Cys Pro
1 5

<210> 74

<211> 10

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 74

Gly Gly Thr Gly Gly Cys Pro Pro Cys Pro
1 5 10

<210> 75

<211> 16

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 75

Gly Glu Pro Lys Ser Ser Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10 15

<210> 76

<211> 21

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 76

Gly Gly Thr Gly Gly Gly Glu Pro Lys Ser Ser Asp Lys Thr His Thr
1 5 10 15

Cys Pro Pro Cys Pro
20

<210> 77

<211> 9

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 77

P25692-Final PC72054A_Sequence_Listing_Spanish

Lys Ala Pro Ser Ser Ser Pro Met Glu
1 5

<210> 78
<211> 6
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos
<400> 78

His His His His His His
1 5

<210> 79
<211> 13
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos
<400> 79

Gly Gly Cys Gly Gly Asp Tyr Lys Asp Asp Asp Lys
1 5 10

<210> 80
<211> 277
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos
<400> 80

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

P25692-Final PC72054A_Sequence_Listing_Spanish

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly
115 120 125

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
130 135 140

Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
165 170 175

Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
180 185 190

Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
195 200 205

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
210 215 220

Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
225 230 235 240

Val Ser Ser Gly Gly Cys Gly Gly Gly Lys Val Ala Ala Leu Lys Glu
245 250 255

Lys Val Ala Ala Leu Lys Glu Lys Val Ala Ala Leu Lys Glu Lys Val
260 265 270

Ala Ala Leu Lys Glu
275

<210> 81
<211> 270
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 81

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

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Glu Val Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys
260 265 270

<210> 82

<211> 277

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 82

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
100 105 110

Gly Ser Gly Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly
115 120 125

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
130 135 140

Phe Thr Phe Asn Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
165 170 175

Ala Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
180 185 190

Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr

195

200

205

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
210 215 220

Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
225 230 235 240

Val Ser Ser Gly Gly Cys Gly Gly Gly Lys Val Ala Ala Leu Lys Glu
245 250 255

Lys Val Ala Ala Leu Lys Glu Lys Val Ala Ala Leu Lys Glu Lys Val
260 265 270

Ala Ala Leu Lys Glu
275

<210> 83

<211> 270

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 83

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

P25692-Final PC72054A_Sequence_Listing_Spanish

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
 130 135 140
 Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
 145 150 155 160
 Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
 165 170 175
 Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
 180 185 190
 Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
 195 200 205
 Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Asn Ala Phe Gly
 210 215 220
 Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Cys Gly
 225 230 235 240
 Gly Gly Glu Val Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys
 245 250 255
 Glu Val Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys
 260 265 270

<210> 84
 <211> 277
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> secuencia de síntesis de péptidos

<400> 84

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ser Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly
115 120 125

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
130 135 140

Phe Thr Phe Asn Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
165 170 175

Ala Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
180 185 190

Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
195 200 205

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
210 215 220

Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
225 230 235 240

Val Ser Ser Gly Gly Cys Gly Gly Gly Lys Val Ala Ala Leu Lys Glu
245 250 255

Lys Val Ala Ala Leu Lys Glu Lys Val Ala Ala Leu Lys Glu Lys Val
260 265 270

Ala Ala Leu Lys Glu
275

<210> 85
<211> 270
<212> PRT
<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 85

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Thr Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Cys Gly
225 230 235 240

P25692-Final PC72054A_Sequence_Listing_Spanish

Gly Gly Glu Val Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys
245 250 255

Glu Val Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys
260 265 270

<210> 86

<211> 277

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 86

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ala Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly
115 120 125

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
130 135 140

Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
165 170 175

P25692-Final PC72054A_Sequence_Listing_Spanish

Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
180 185 190

Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
195 200 205

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
210 215 220

Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
225 230 235 240

Val Ser Ser Gly Gly Cys Gly Gly Gly Lys Val Ala Ala Leu Lys Glu
245 250 255

Lys Val Ala Ala Leu Lys Glu Lys Val Ala Ala Leu Lys Glu Lys Val
260 265 270

Ala Ala Leu Lys Glu
275

<210> 87

<211> 270

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 87

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
Página 42

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Asn Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Cys Gly
225 230 235 240

Gly Gly Glu Val Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys
245 250 255

Glu Val Ala Ala Leu Glu Lys Glu Val Ala Ala Leu Glu Lys
260 265 270

<210> 88
<211> 465
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos
<400> 88

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

P25692-Final PC72054A_Sequence_Listing_Spanish

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly
115 120 125

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
130 135 140

Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
165 170 175

Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
180 185 190

Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
195 200 205

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
210 215 220

Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
225 230 235 240

Val Ser Ser Gly Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Ala
245 250 255

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
260 265 270

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
275 280 285

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His

290

295

300

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
305 310 315 320

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
325 330 335

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
340 345 350

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys
355 360 365

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
370 375 380

Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
385 390 395 400

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
405 410 415

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
420 425 430

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
435 440 445

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
450 455 460

Gly
465

<210> 89
<211> 458
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 89

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

P25692-Final PC72054A_Sequence_Listing_Spanish

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

275

280

285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Cys Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Ser Cys Ala Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

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

Phe Leu Val Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
450 455

<210> 90

<211> 465

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 90

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30

P25692-Final PC72054A_Sequence_Listing_Spanish

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

P25692-Final PC72054A_Sequence_Listing_Spanish

275

280

285

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
290 295 300

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
305 310 315 320

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
325 330 335

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
340 345 350

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys
355 360 365

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
370 375 380

Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
385 390 395 400

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
405 410 415

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
420 425 430

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
435 440 445

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
450 455 460

Gly
465

<210> 91
<211> 458
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 91

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Asn Ala Phe Gly
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Cys Pro Pro
225 230 235 240

Cys Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe Leu Phe Pro
245 250 255

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
275 280 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Cys Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Ser Cys Ala Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

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

Phe Leu Val Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
450 455

<210> 92
<211> 465
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 92

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

P25692-Final PC72054A_Sequence_Listing_Spanish

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

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
275 280 285

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
290 295 300

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
305 310 315 320

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
325 330 335

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
340 345 350

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys
355 360 365

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
370 375 380

Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
385 390 395 400

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
405 410 415

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
420 425 430

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
435 440 445

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
450 455 460

Gly
465

<210> 93
<211> 458
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 93

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
 20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
 35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
 50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
 65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
 100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
 115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
 130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
 145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
 165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
 180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
 195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Thr Ala Phe Asp
 210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Cys Pro Pro
 225 230 235 240

Cys Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe Leu Phe Pro
 Página 54

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
260 265 270

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
275 280 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Cys Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Ser Cys Ala Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

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

Phe Leu Val Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
450 455

<210> 94
<211> 465
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 94

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
 20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
 65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
 85 90 95

Ser Ala Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
 100 105 110

Gly Ser Gly Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly
 115 120 125

Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
 130 135 140

Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
 145 150 155 160

Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr
 165 170 175

Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
 180 185 190

Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr
 195 200 205

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
 210 215 220

Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
 225 230 235 240

Val Ser Ser Gly Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Ala
 Página 56

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile
260 265 270

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu
275 280 285

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His
290 295 300

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg
305 310 315 320

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys
325 330 335

Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu
340 345 350

Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Cys
355 360 365

Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu
370 375 380

Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp
385 390 395 400

Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val
405 410 415

Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp
420 425 430

Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His
435 440 445

Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
450 455 460

Gly
465

<210> 95
<211> 458
<212> PRT
<213> Secuencia artificial

P25692-Final PC72054A_Sequence_Listing_Spanish

<220>

<223> Secuencia de síntesis de péptidos

<400> 95

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Asn Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Cys Pro Pro
Página 58

P25692-Final PC72054A_Sequence_Listing_Spanish

225 230 235 240

Cys Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe Leu Phe Pro
245 250 255

Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
260 265 270

Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
275 280 285

Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
290 295 300

Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
305 310 315 320

Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser
325 330 335

Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys
340 345 350

Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Cys Arg Glu
355 360 365

Glu Met Thr Lys Asn Gln Val Ser Leu Ser Cys Ala Val Lys Gly Phe
370 375 380

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu
385 390 395 400

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

Phe Leu Val Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
420 425 430

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
435 440 445

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
450 455

<210> 96
<211> 10
<212> PRT
<213> Secuencia artificial

P25692-Final PC72054A_Sequence_Listing_Spanish

<220>

<223> Secuencia de síntesis de péptidos

<400> 96

Asp Lys Thr His Thr Cys Pro Pro Cys Pro
1 5 10

<210> 97

<211> 330

<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 97

cagtctgtgc tgacgcagcc gccctcagtg tctgcggccc caggacagaa ggtcaccatc	60
tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc	120
ccaggaacag cccccaaact cctcatttat gacaataata agcgaccctc agggattcct	180
gaccgattct ctggctcaa gtctggcacg tcagccaccc tgggcatcac cggactccag	240
actggggacg aggccgatta ttactgcgga acatgggata gcagcctgag tgctgtggta	300
ttcggcggag ggaccaagct gaccgtccta	330

<210> 98

<211> 354

<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 98

gaggtccagc tgggtgcagtc tggagctgag gtgaagaagc ctggggcctc agtgaaggtc	60
tcctgcaagg cttctgggta cacctttacc agctacggta tcagctgggt gcgacaggcc	120
cctggacaag ggcttgagtg gatgggatgg atcagcgctt acaatggtaa cacaaactat	180
gcacagaagc tccagggcag agtcaccatg accacagaca catccacgag cacagcctac	240
atggagctga ggagcctgag atctgacgac acggccgtgt attactgtgc gactatcgat	300
acagctagtg cttttgatat ctggggccaa gggacaatgg tcaccgtctc ttcc	354

<210> 99

<211> 330

<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 99

P25692-Final PC72054A_Sequence_Listing_Spanish

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 gaccgattct ctggctccaa gtctggcacg tcagccaccc tgggcatcac cggactccag 240
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P25692-Final PC72054A_Sequence_Listing_Spanish

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<223> Secuencia de síntesis de nucleótidos

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P25692-Final PC72054A_Sequence_Listing_Spanish

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ccagccccca tcgagaaaaac catctccaaa gccaaagggc agccccgaga accacagggtg     1080
tacaccctgc ccccatgccg ggaggagatg accaagaacc aggtcagcct gtcctgcgcg     1140
gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag     1200
aacaactaca agaccacgcc tcccgtgctg gactccgacg gtccttctt cctcgttagc     1260
aagctcaccg tggacaagag cagggtggcag caggggaacg tcttctcatg ctccgtgatg     1320
catgaggctc tgcacaacca ctacacgcag aagagcctct ccctgtcccc gggt           1374

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<210> 121
<211> 1395
<212> ADN
<213> Secuencia artificial

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<220>
<223> Secuencia de síntesis de nucleótidos

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<400> 121
cagtctgtgc tgacgcagcc gccctcagtg tctgcggccc caggacagaa ggtcaccatc      60
tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc      120
ccaggaacag cccccaaact cctcatttat gacaataata agcgaccctc agggattcct      180

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P25692-Final PC72054A_Sequence_Listing_Spanish

gaccgattct ctggctccaa gtctggcacg tcagccaccc tgggcatcac cggactccag	240
actggggacg aggccgatta ttactgcgga acatgggata gcagcctgag ttcttatgtc	300
ttcggaaactg ggaccaaggt caccgtccta ggtggcggat ccggcggcgg aggcgaggtg	360
cagctggtgg agtctggggg aggcttggtc cagcctggag ggtccctgag actctcctgt	420
gcagcctctg gattcacctt cagcacatac gctatgaatt ggggccgcca ggctccaggg	480
aaggggctgg agtgggttgg caggatcagg tccaagtaca acaattatgc aacctactat	540
gccgactctg tgaagggcag attcaccatc tcaagagatg attcaaagaa ctactgtat	600
ctgcaaatga acagcctgaa aaccgaggac acggccgtgt attactgtgt gagacacggt	660
aacttcggca attcttacgt gtcttggttt gcttattggg gacaggggac actggtgact	720
gtgtcttccg gatgcccacc gtgcccagca cctgaagccg ctggggcacc gtcagtcttc	780
ctcttccccc caaaacccaa ggacaccctc atgatctccc ggaccctga ggtcacatgc	840
gtggtggtgg acgtgagcca cgaagaccct gaggtcaagt tcaactggta cgtggacggc	900
gtggaggtgc ataatgccaa gacaaagccg cgggaggagc agtacaacag cacgtaccgt	960
gtggtcagcg tcctcaccgt cctgcaccag gactggctga atggcaagga gtacaagtgc	1020
aaggtctcca acaaagccct cccagccccc atcgagaaaa ccatctccaa agccaaaggg	1080
cagccccgag aaccacaggt gtgcaccctg ccccatccc gggaggagat gaccaagaac	1140
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gagagcaatg ggcagccgga gaacaactac aagaccacgc ctcccgtgct ggactccgac	1260
ggctccttct tcctctatag caagctcacc gtggacaaga gcaggtggca gcaggggaac	1320
gtcttctcat gtcctgtgat gcatgaggct ctgcacaacc actacacgca gaagagcctc	1380
tccctgtccc cgggt	1395

<210> 122
 <211> 1374
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Secuencia de síntesis de nucleótidos

<400> 122	
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acatgcagat ccagcacagg cgagtgacc acatctaact acgccaattg ggtgcagcag	120
aagccaggac aggcaccaag gggcctgac ggggggtacaa acaaaaagggc tccctggacc	180
cctgcacggt tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca	240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc	300
gggggtggca caaaactgac tgtgctggga ggggggtggat ccggtggagg tggcgaggtc	360

P25692-Final PC72054A_Sequence_Listing_Spanish

cagctggtgc agtctggagc tgaggtgaag aagcctgggg cctcagtga ggtctcctgc	420
aaggcttctg gttacacctt taccagctac ggtatcagct gggcgcgaca ggcccctgga	480
caagggtctg agtggatggg atggatcagc gcttacaatg gtaacacaaa ctatgcacag	540
aagctccagg gcagagtcac catgaccaca gacacatcca cgagcactgc ctacatggag	600
ctgaggagcc tgagatctga cgacacggcc gtgtattact gtgcgactat cgatacagct	660
actgcttttg atatctgggg ccaagggaca atgggtcaccg tctcgtccgg atgtccaccg	720
tgcccagcac ctgaagccgc tggggcaccg tcagtcttcc tcttcccccc aaaaccaag	780
gacaccctca tgatctcccg gacccttgag gtcacatgcg tggtggtgga cgtgagccac	840
gaagaccctg aggtcaagtt caactggtag gtggacggcg tggaggtgca taatgccaag	900
acaaagccgc gggaggagca gtacaacagc acgtaccgtg tggtcagcgt cctcaccgtc	960
ctgcaccagg actggctgaa tggcaaggag tacaagtgca aggtctccaa caaagccctc	1020
ccagccccca tcgagaaaaac catctccaaa gccaaagggc agccccgaga accacagggtg	1080
tacaccctgc ccccatgccg ggaggagatg accaagaacc aggtcagcct gtcctgcgcg	1140
gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag	1200
aacaactaca agaccacgcc tcccgtgctg gactccgacg gtccttctt cctcgtagc	1260
aagctcaccg tggacaagag cagggtggcag caggggaacg tcttctcatg ctccgtgatg	1320
catgaggctc tgcacaacca ctacacgcag aagagcctct ccctgtcccc gggt	1374

<210> 123
 <211> 1395
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Secuencia de síntesis de nucleótidos

<400> 123	
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tcctgctctg gaagcagctc caacattggg aataattatg tatcctggta ccagcagctc	120
ccaggaacag ccccaaaact cctcatttat gacaataata agcgaccctc agggattcct	180
gaccgattct ctggctccaa gtctggcacg tcagccaccc tgggcatcac cggactccag	240
actggggacg aggccgatta ttactgcgga acatgggata gcagcctgag tgcttatgtc	300
ttcggaaactg ggaccaaggt caccgtccta ggtggcggat ccggcggcgagg aggcgagggtg	360
cagctggtgg agtctggggg aggcttggtc cagcctggag ggtccctgag actctcctgt	420
gcagcctctg gattcacctt cagcacatac gctatgaatt ggggccgcca ggctccaggg	480
aaggggctgg agtgggttgg caggatcagg tccaagtaca acaattatgc aacctactat	540

P25692-Final PC72054A_Sequence_Listing_Spanish

gccgactctg tgaagggcag attcaccatc tcaagagatg attcaaagaa ctcactgtat	600
ctgcaaatga acagcctgaa aaccgaggac acggccgtgt attactgtgt gagacacggt	660
aacttcggca attcttacgt gtcttggttt gcttattggg gacaggggac actggtgact	720
gtgtcttccg gatgcccacc gtgcccagca cctgaagccg ctggggcacc gtcagtcttc	780
ctcttccccc caaaacccaa ggacaccctc atgatctccc ggaccctga ggtcacatgc	840
gtggtggtgg acgtgagcca cgaagaccct gaggtcaagt tcaactggta cgtggacggc	900
gtggagggtgc ataatgccaa gacaaagccg cgggaggagc agtacaacag cacgtaccgt	960
gtggtcagcg tcctcaccgt cctgcaccag gactggctga atggcaagga gtacaagtgc	1020
aaggctctca acaaagccct cccagcccc atcgagaaaa ccatctccaa agccaaaggg	1080
cagccccgag aaccacaggt gtgcaccctg ccccatccc gggaggagat gaccaagaac	1140
caggtcagcc tgtggtgcct ggtcaaaggc ttctatccca gcgacatcgc cgtggagtgg	1200
gagagcaatg ggcagccgga gaacaactac aagaccacgc ctcccgtgct ggactccgac	1260
ggctccttct tcctctatag caagctcacc gtggacaaga gcagggtggca gcaggggaac	1320
gtcttctcat gctccgtgat gcatgaggct ctgcacaacc actacacgca gaagagcctc	1380
tccctgtccc cggt	1395

<210> 124
 <211> 1374
 <212> ADN
 <213> Secuencia artificial

<220>
 <223> Secuencia de síntesis de nucleótidos

<400> 124	
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aagccaggac aggcaccaag gggcctgac gggggtacaa acaaaagggc tccctggacc	180
cctgcacggt tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca	240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc	300
gggggtggca caaaactgac tgtgctggga gggggtggat ccggtggagg tggcgaggtc	360
cagctggtgc agtctggagc tgagggtgaag aagcctgggg cctcagtgaa ggtctcctgc	420
aaggcttctg gttacacctt taccagctac ggtatcagct ggggtgcgaca ggcccctgga	480
caagggtctg agtggatggg atggatcagc gcttacaatg gtaacacaaa ctatgcacag	540
aagctccagg gcagagtcac catgaccaca gacacatcca cgagcacagc ctacatggag	600
ctgaggagcc tgagatctga cgacacggcc gtgtattact gtgcgactat cgatacagct	660
aatgcttttg atatctgggg ccaagggaca atggtcaccg tctcgtccgg atgtccaccg	720

P25692-Final PC72054A_Sequence_Listing_Spanish

tgcccagcac ctgaagccgc tggggcaccg tcagtcttcc tcttcccccc aaaaccaag	780
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gaagaccctg aggtcaagtt caactggtac gtggacggcg tggaggtgca taatgccaag	900
acaaagccgc gggaggagca gtacaacagc acgtaccgtg tggtcagcgt cctcaccgtc	960
ctgcaccagg actggctgaa tggcaaggag tacaagtgca aggtctccaa caaagccctc	1020
ccagccccca tcgagaaaac catctccaaa gccaaagggc agccccgaga accacagggtg	1080
tacaccctgc ccccatgccg ggaggagatg accaagaacc aggtcagcct gtcctgcgcg	1140
gtcaaaggct tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag	1200
aacaactaca agaccacgcc tcccgtgctg gactccgacg gtccttctt cctcgtagc	1260
aagctcaccg tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg	1320
catgaggctc tgcacaacca ctacacgcag aagagcctct ccctgtcccc gggt	1374

<210> 125

<211> 227

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 125

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly
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Ala	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
			20					25					30		

Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
		35					40					45			

Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
	50					55					60				

His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
65					70					75					80

Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly
				85					90					95	

Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala	Pro	Ile
			100					105					110		

Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro	Gln	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

P25692-Final PC72054A_Sequence_Listing_Spanish

115

120

125

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
130 135 140

Leu Ser Cys Ala Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Val Ser Lys Leu Thr Val
180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
195 200 205

His Glu Ala Leu His Asn Arg Tyr Thr Gln Lys Ser Leu Ser Leu Ser
210 215 220

Pro Gly Lys
225

<210> 126

<211> 681

<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 126

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tgcgtggtgg tggacgtgag ccacgaagac cctgaggtca agttcaactg gtacgtggac	180
ggcgtggagg tgcataatgc caagacaaag ccgcggggagg agcagtacaa cagcacgtac	240
cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag	300
tgcaaggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa	360
gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag	420
aaccagggtca gcctgagttg cgcagtcaaa ggcttctatc ccagcgacat cgccgtggag	480
tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc	540
gacggctcct tcttcctcgt cagcaagctc accgtggaca agagcagggtg gcagcagggg	600
aacgtcttct catgctccgt gatgcatgag gctctgcaca accgctacac gcagaagagc	660
ctctccctgt ctccgggtaa a	681

P25692-Final PC72054A_Sequence_Listing_Spanish

<210> 127
 <211> 486
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Secuencia de síntesis de péptidos

<400> 127

Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly
 1 5 10 15

Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
 20 25 30

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
 35 40 45

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
 50 55 60

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
 65 70 75 80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
 85 90 95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
 100 105 110

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
 115 120 125

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
 130 135 140

Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
 145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
 165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
 180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
 195 200 205

P25692-Final PC72054A_Sequence_Listing_Spanish

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
465 470 475 480

Val Glu Pro Lys Ser Cys
485

<210> 128
<211> 1458
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 128
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ttcctcttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca 120
tgcgtggttg tggacgtgag ccacgaagac cctgaggtca agttcaactg gtacgtggac 180
ggcgtggagg tgcataatgc caagacaaag ccgcggggagg agcagtacaa cagcacgtac 240
cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag 300
tgcaagggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa 360
gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccgggagga gatgaccaag 420
aaccagggtca gcctgtggtg cctggtcaaa ggcttctatc ccagcgacat cgccgtggag 480
tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccggt gctggactcc 540
gacggctcct tcttctctca cagcaagctc accgtggaca agagcagggtg gcagcagggg 600
aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc 660
ctctccctgt ctccgggtaa agccccttcc agctccccta tggaacagtc cgtcctgact 720
cagcctccct ccgtgtccgc agctcctggg cagaagggtca caatcagttg ctctgggtca 780
tcctcaaaca ttggcaacaa ttacgtgtct tggatcagc agctgcccgg gacagcccct 840
aagctgctga tctacgacaa caacaagcgg ccaagtggca ttcccgatcg gttcagcggc 900
agcaagtctg gcaccagcgc cactctgggc atcactgggc tgcagaccgg ggacgaggct 960
gattactatt gcggaacctg ggactcttca ctgtctgccg tcgtcttcgg agggggaacc 1020
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tgggttgga ggatcaggtc caagtacaac aattatgcaa cctactatgc cgactctgtg 1260
aagggtagat tcaccatctc aagagatgat tcaaagaact cactgtatct gcaaataaac 1320

P25692-Final PC72054A_Sequence_Listing_Spanish

agcctgaaaa ccgaggacac ggccgtgtat tactgtgtga gacacggtaa cttcggcaat 1380
tcttacgtgt cttggtttgc ttattgggga caggggacac tggtgactgt gtcttccgga 1440
gttgagccca aatcttgt 1458

<210> 129
<211> 243
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 129

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

P25692-Final PC72054A_Sequence_Listing_Spanish

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Ser Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 130
<211> 729
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 130
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acatgcagat ccagcacagg cgcagtgacc acatctaact acgccaattg ggtgcagcag 120
aagccaggac aggcaccaag gggcctgatc ggggggtacaa acaaaagggc tccctggacc 180
cctgcacggg tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca 240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc 300
gggggtggca caaaactgac tgtgctggga ggggggtggat ccggcggagg tggagaagtc 360
cagctggtgc agagtggggc agaagtcaag aaacccggcg catcagtga agtctcatgt 420
aaagcatcag gctatacctt tacatcatat ggaatcagct gggtgaggca ggctccagga 480
cagggactgg agtggatggg atggatttct gcatacaacg gcaatacaaa ctatgcccag 540
aagctgcagg gccgggtgac tatgaccaca gacactagca cctccacagc ctatatggaa 600
ctgcggtctc tgagaagtga cgatactgcc gtctactatt gcgctaccat tgataccgct 660
tcagccttcg acatttgggg gcaggggact atggtgacag tgagctccgg attcaacagg 720
ggagagtgt 729

<210> 131
<211> 486
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 131

P25692-Final PC72054A_Sequence_Listing_Spanish

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr
 260 265 270
 Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Asn Asn
 275 280 285
 Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly
 290 295 300
 Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu Ala
 305 310 315 320
 Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Gly Val Val Phe
 325 330 335
 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly
 340 345 350
 Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
 355 360 365
 Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
 370 375 380
 Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
 385 390 395 400
 Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
 405 410 415
 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
 420 425 430
 Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala
 435 440 445
 Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser
 450 455 460
 Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
 465 470 475 480
 Val Glu Pro Lys Ser Cys
 485

<210> 132

P25692-Final PC72054A_Sequence_Listing_Spanish

<211> 1458

<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 132

gacaaaactc acacatgccc accgtgccc	gcacctgaag ccgcgggggc accgtcagtc	60
ttcctcttcc ccccaaaacc caaggacacc	ctcatgatct cccggacccc tgaggtcaca	120
tgcgtggtgg tggacgtgag ccacgaagac	cctgaggtca agttcaactg gtacgtggac	180
ggcgtggagg tgcataatgc caagacaaaag	ccgcggggagg agcagtacaa cagcacgtac	240
cgtgtggtca gcgtcctcac cgtcctgcac	caggactggc tgaatggcaa ggagtacaag	300
tgcaagggtct ccaacaaaagc cctcccagcc	cccattcgaga aaaccatctc caaagccaaa	360
gggcagcccc gagaaccaca ggtgtacacc	ctgcccccat cccgggagga gatgaccaag	420
aaccagggtca gcctgtggtg cctggtcaaa	ggcttctatc ccagcgacat cgccgtggag	480
tgggagagca atgggcagcc ggagaacaac	tacaagacca cgctccccgt gctggactcc	540
gacggctcct tcttcctcta cagcaagctc	accgtggaca agagcaggtg gcagcagggg	600
aacgtcttct catgctccgt gatgcatgag	gctctgcaca accactacac gcagaagagc	660
ctctccctgt ctccgggtaa agcccccttc	agctcccccta tggaacagtc cgtcctgact	720
cagcctccct ccgtgtccgc agctcctggg	cagaagggtca caatcagttg ctctgggtca	780
tcctcaaaca ttggcaacaa ttacgtgtct	tggatatcagc agctgcccgg gacagcccct	840
aagctgctga tctacgacaa caacaagcgg	ccaagtggca ttcccgatcg gttcagcggc	900
agcaagtctg gcaccagcgc cacactgggc	atcactgggc tgcagaccgg ggacgaggct	960
gattactatt gcggaacctg ggactcttca	ctgtctggcg tcgtcttcgg agggggaacc	1020
aaactgaccg tgctgggtgg aggcggatcc	ggcggcggag gcgaggtgca gctggtggag	1080
tctgggggag gcttggtcca gcctggaggg	tccctgagac tctcctgtgc agcctctgga	1140
ttcaccttca gcacatacgc tatgaattgg	gtccgccagg ctccagggaa ggggctggag	1200
tgggttggaa ggatcaggtc caagtacaac	aattatgcaa cctactatgc cgactctgtg	1260
aagggtagat tcaccatctc aagagatgat	tcaaagaact cactgtatct gcaaatgaac	1320
agcctgaaaa ccgaggacac ggccgtgtat	tactgtgtga gacacggtaa cttcggcaat	1380
tcttacgtgt cttggtttgc ttattgggga	caggggacac tgggtgactgt gtcttccgga	1440
gttgagccca aatcttgt		1458

<210> 133

<211> 243

<212> PRT

<213> Secuencia artificial

P25692-Final PC72054A_Sequence_Listing_Spanish

<220>

<223> Secuencia de síntesis de péptidos

<400> 133

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Asn Ala Phe Gly
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Phe Asn Arg
Página 84

225

230

235

240

Gly Glu Cys

<210> 134

<211> 729

<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 134

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caggctgtgg tgactcagga gccttcactg accgtgtccc caggcggaac tgtgaccctg      60
acatgcagat ccagcacagg cgcagtgacc acatctaact acgccaattg ggtgcagcag      120
aagccaggac aggcaccaag gggcctgatc ggggggtacaa acaaaagggc tccctggacc      180
cctgcacggt tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca      240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc      300
gggggtggca caaaactgac tgtgctggga ggggggtggat ccggcggagg tggagaagtc      360
cagctggtgc agagtggggc agaagtcaag aaacccggcg catcagtga agtctcatgt      420
aaagcatcag gctatacctt tacatcatac ggaatcagct gggtgaggca ggctccagga      480
cagggactgg agtggatggg atggatttct gcatacaacg gcaatacaaa ctatgcccag      540
aagctgcagg gccgggtgac tatgaccaca gacactagca cctccacagc ctatatggaa      600
ctgcggtctc tgagaagtga cgatactgcc gtctactatt gcgctaccat tgataccgct      660
aacgccttcg gcatttgggg gcaggggact atggtgacag tgagctccgg attcaacagg      720
ggagagtgt                                     729
```

<210> 135

<211> 486

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 135

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Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly
1           5           10           15

Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met
20           25           30

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His
35           40           45
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P25692-Final PC72054A_Sequence_Listing_Spanish

Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val
50 55 60

His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr
65 70 75 80

Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly
85 90 95

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
100 105 110

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
115 120 125

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
130 135 140

Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
195 200 205

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
210 215 220

Pro Gly Lys Ala Pro Ser Ser Ser Pro Met Glu Gln Ser Val Leu Thr
225 230 235 240

Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser
245 250 255

Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr
260 265 270

Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Asn Asn
275 280 285

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly

290

295

300

Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu Ala
305 310 315 320

Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Ser Tyr Val Phe
325 330 335

Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly Gly Gly Ser Gly Gly
340 345 350

Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
355 360 365

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
370 375 380

Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
385 390 395 400

Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
405 410 415

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
420 425 430

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

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser
450 455 460

Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
465 470 475 480

Val Glu Pro Lys Ser Cys
485

<210> 136

<211> 1458

<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 136

gacaaaactc acacatgccc accgtgccc gacactgaag ccgcgggggc accgtcagtc 60

ttcctcttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca 120

P25692-Final PC72054A_Sequence_Listing_Spanish

tgctgtggtg	tggtacgtgag	ccacgaagac	cctgaggtca	agttcaactg	gtacgtggac	180
ggcgtggagg	tgcataatgc	caagacaaaag	ccgcggggagg	agcagtacaa	cagcacgtac	240
cgtgtggtca	gcgtcctcac	cgtcctgcac	caggactggc	tgaatggcaa	ggagtacaag	300
tgcaaggtct	ccaacaaagc	cctcccagcc	cccctcgaga	aaaccatctc	caaagccaaa	360
gggcagcccc	gagaaccaca	ggtgtacacc	ctgcccccat	cccggggagga	gatgaccaag	420
aaccagggtca	gcctgtggtg	cctggtcaaa	ggcttctatc	ccagcgacat	cgccgtggag	480
tgggagagca	atgggcagcc	ggagaacaac	tacaagacca	cgctcccgt	gctggactcc	540
gacggctcct	tcttctctca	cagcaagctc	accgtggaca	agagcaggtg	gcagcagggg	600
aacgtcttct	catgctccgt	gatgcatgag	gctctgcaca	accactacac	gcagaagagc	660
ctctccctgt	ctccgggtaa	agcccccttc	agctccccta	tggaacagtc	cgctctgact	720
cagctccct	ccgtgtccgc	agctcctggg	cagaagggtca	caatcagttg	ctctgggtca	780
tcctcaaaca	ttggcaacaa	ttacgtgtct	tggtatcagc	agctgcccgg	gacagcccct	840
aagctgctga	tctacgacaa	caacaagcgg	ccaagtggca	ttcccgatcg	gttcagcggc	900
agcaagtctg	gcaccagcgc	cacactgggc	atcactgggc	tgcagaccgg	ggacgaggct	960
gattactatt	gcggaacctg	ggactcttca	ctgtcttcct	acgtcttcgg	aacgggaacc	1020
aaagtgaccg	tgctgggtgg	aggcggatcc	ggcggcggag	gcgaggtgca	gctggtggag	1080
tctggggggag	gcttgggtcca	gcctggaggg	tccctgagac	tctcctgtgc	agcctctgga	1140
ttcaccttca	gcacatacgc	tatgaattgg	gtccgccagg	ctccagggaa	ggggctggag	1200
tgggttggaa	ggatcaggtc	caagtacaac	aattatgcaa	cctactatgc	cgactctgtg	1260
aagggtagat	tcaccatctc	aagagatgat	tcaaagaact	cactgtatct	gcaaataaac	1320
agcctgaaaa	ccgaggacac	ggccgtgtat	tactgtgtga	gacacggtaa	cttcggcaat	1380
tcttacgtgt	cttggtttgc	ttattgggga	caggggacac	tggtgactgt	gtcttccgga	1440
gttgagccca	aatcttgt					1458

<210> 137

<211> 243

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 137

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

Thr	Val	Thr	Leu	Thr	Cys	Arg	Ser	Ser	Thr	Gly	Ala	Val	Thr	Thr	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Thr Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 138
<211> 729
<212> ADN
<213> Secuencia artificial

P25692-Final PC72054A_Sequence_Listing_Spanish

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 138

caggctgtgg tgactcagga gccttcactg accgtgtccc caggcggaac tgtgaccctg	60
acatgcagat ccagcacagg cgcagtgacc acatctaact acgccaattg ggtgcagcag	120
aagccaggac aggcaccaag gggcctgac ggggggtacaa acaaaagggc tccctggacc	180
cctgcacggt tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca	240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc	300
gggggtggca caaaactgac tgtgctggga ggggggtggat ccggcggagg tggagaagtc	360
cagctggtgc agagtggggc agaagtcaag aaacccggcg catcagtga agtctcatgt	420
aaagcatcag gctatacctt tacatcatac ggaatcagct gggtgaggca ggctccagga	480
cagggactgg agtggatggg atggatttct gcatacaacg gcaatacaaa ctatgcccag	540
aagctgcagg gccgggtgac tatgaccaca gacactagca cctccacagc ctatatggaa	600
ctgcggtctc tgagaagtga cgatactgcc gtctactatt gcgctaccat tgataccgct	660
acagccttcg acatttgggg gcaggggact atgggtgacag tgagctccgg attcaacagg	720
ggagagtgt	729

<210> 139

<211> 486

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 139

Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Glu	Ala	Ala	Gly
1				5					10					15	

Ala	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met
			20					25					30		

Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His
		35					40					45			

Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val
	50					55					60				

His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr
65					70					75					80

Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu	Asn	Gly

Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile
100 105 110

Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val
115 120 125

Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser
130 135 140

Leu Trp Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu
145 150 155 160

Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro
165 170 175

Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val
180 185 190

Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met
195 200 205

His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser
210 215 220

Pro Gly Lys Ala Pro Ser Ser Ser Pro Met Glu Gln Ser Val Leu Thr
225 230 235 240

Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser
245 250 255

Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr
260 265 270

Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Asn Asn
275 280 285

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly
290 295 300

Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu Ala
305 310 315 320

Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Ala Tyr Val Phe
325 330 335

P25692-Final PC72054A_Sequence_Listing_Spanish

Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly Gly Gly Ser Gly Gly
340 345 350

Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
355 360 365

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
370 375 380

Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
385 390 395 400

Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
405 410 415

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
420 425 430

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

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Val Ser
450 455 460

Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
465 470 475 480

Val Glu Pro Lys Ser Cys
485

<210> 140
<211> 1458
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 140
gacaaaactc acacatgccc accgtgcccga gcacctgaag ccgcggggggc accgtcagtc 60
ttcctcttcc ccccaaaacc caaggacacc ctcatgatct cccggacccc tgaggtcaca 120
tgcgtggtgg tggacgtgag ccacgaagac cctgaggtca agttcaactg gtacgtggac 180
ggcgtggagg tgcataatgc caagacaaag ccgcggggagg agcagtacaa cagcacgtac 240
cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaatggcaa ggagtacaag 300
tgcaaggtct ccaacaaagc cctcccagcc cccatcgaga aaaccatctc caaagccaaa 360
gggcagcccc gagaaccaca ggtgtacacc ctgcccccat cccggggagga gatgaccaag 420

P25692-Final PC72054A_Sequence_Listing_Spanish

aaccagggtca gcctgtggtg cctgggtcaaa ggcttctatc ccagcgacat cgccgtggag	480
tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc	540
gacggctcct tcttcttcta cagcaagctc accgtggaca agagcagggtg gcagcagggg	600
aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc	660
ctctccctgt ctccgggtaa agcccccttc agctccccta tggaacagtc cgtcctgact	720
cagcctccct ccgtgtccgc agctcctggg cagaagggtca caatcagttg ctctgggtca	780
tcctcaaaca ttggcaacaa ttacgtgtct tggatcagc agctgcccgg gacagcccct	840
aagctgctga tctacgacaa caacaagcgg ccaagtggca ttcccgatcg gttcagcggc	900
agcaagtctg gcaccagcgc cactctgggc atcactgggc tgcagaccgg ggacgaggct	960
gattactatt gcggaacctg ggactcttca ctgtctgcct acgtcttcgg aacgggaacc	1020
aaagtgaccg tgctgggtgg aggcggatcc ggcggcggag gcgagggtgca gctgggtggag	1080
tctgggggag gcttgggtcca gcctggaggg tccctgagac tctcctgtgc agcctctgga	1140
ttcaccttca gcacatacgc tatgaattgg gtccgccagg ctccagggaa ggggctggag	1200
tgggttggaa ggatcaggtc caagtacaac aattatgcaa cctactatgc cgactctgtg	1260
aagggtagat tcaccatctc aagagatgat tcaaagaact cactgtatct gcaaataaac	1320
agcctgaaaa ccgaggacac ggccgtgtat tactgtgtga gacacggtaa cttcggcaat	1380
tcttacgtgt cttgggttgc ttattgggga caggggacac tggtgactgt gtcttccgga	1440
gttgagccca aatcttgt	1458

<210> 141
 <211> 243
 <212> PRT
 <213> Secuencia artificial

<220>
 <223> Secuencia de síntesis de péptidos

<400> 141

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
 20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
 35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
 50 55 60

P25692-Final PC72054A_Sequence_Listing_Spanish

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Asn Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 142
<211> 729
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 142
caggctgtgg tgactcagga gccttcactg accgtgtccc caggcggaac tgtgaccctg 60
acatgcagat ccagcacagg cgcagtgacc acatctaact acgccaattg ggtgcagcag 120
aagccaggac aggcaccaag gggcctgatc ggggggtacaa acaaaaagggc tccctggacc 180

P25692-Final PC72054A_Sequence_Listing_Spanish

cctgcacggt tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca	240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc	300
gggggtggca caaaactgac tgtgctggga gggggtggat ccggcggagg tggagaagtc	360
cagctggtgc agagtggggc agaagtcaag aaacccggcg catcagtga agtctcatgt	420
aaagcatcag gctataacctt tacatcatat ggaatcagct gggtgaggca ggctccagga	480
cagggactgg agtggatggg atggatttct gcatacaacg gcaatacaaa ctatgccag	540
aagctgcagg gccgggtgac tatgaccaca gacactagca cctccacagc ctatatggaa	600
ctgcggtctc tgagaagtga cgatactgcc gtctactatt gcgctaccat tgataccgct	660
aacgccttcg acatttgggg gcaggggact atggtgacag tgagctccgg attcaacagg	720
ggagagtgt	729

<210> 143

<211> 478

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 143

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

Lys	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Asn	Asn
			20					25					30		

Tyr	Val	Ser	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			

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

Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Thr	Leu	Gly	Ile	Thr	Gly	Leu	Gln
65					70					75					80

Thr	Gly	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gly	Thr	Trp	Asp	Ser	Ser	Leu
			85						90					95	

Ser	Ala	Val	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly	Gly
			100					105					110		

Gly	Gly	Ser	Gly	Gly	Gly	Gly	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly
		115					120					125			

P25692-Final PC72054A_Sequence_Listing_Spanish

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
130 135 140

Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
145 150 155 160

Gly Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn
165 170 175

Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
180 185 190

Arg Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys
195 200 205

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
210 215 220

Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
225 230 235 240

Thr Val Ser Ser Gly Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr
245 250 255

Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe
260 265 270

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
275 280 285

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
290 295 300

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
305 310 315 320

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
325 330 335

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
340 345 350

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
355 360 365

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
370 375 380

P25692-Final PC72054A_Sequence_Listing_Spanish

Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val
385 390 395 400

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
405 410 415

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
420 425 430

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
435 440 445

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
450 455 460

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 144
<211> 1434
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 144
cagtccgtcc tgactcagcc tccctccgtg tccgcagctc ctgggcagaa ggtcacaatc 60
agttgctctg ggatcatcctc aaacattggc aacaattacg tgtcttggtg tcagcagctg 120
cccgggacag cccctaagct gctgatctac gacaacaaca agcggccaag tggcattccc 180
gatcggttca gcggcagcaa gtctggcacc agcgccacac tgggcatcac tgggctgcag 240
accggggacg aggctgatta ctattgcgga acctgggact cttcactgtc tgccgtcgtc 300
ttcggagggg gaaccaaact gaccgtgctg ggtggaggcg gatccggcgg cggaggcgag 360
gtgcagctgg tggagtctgg gggaggcttg gtccagcctg gagggtcctt gagactctcc 420
tgtgcagcct ctggattcac cttcagcaca tacgctatga attgggtccg ccagggtcca 480
gggaaggggc tggagtgggt tggaaggatc aggtccaagt acaacaatta tgcaacctac 540
tatgccgact ctgtgaaggg tagattcacc atctcaagag atgattcaaa gaactcactg 600
tatctgcaaa tgaacagcct gaaaaccgag gacacggccg tgtattactg tgtgagacac 660
ggtaacttcg gcaattctta cgtgtcttgg tttgcttatt ggggacaggg gacactggtg 720
actgtgtctt ccggagttga gcccaaatct tgtgacaaaa ctacacacatg cccaccgtgc 780
ccagcacctg aagccgcggg ggcaccgtca gtcttcctct tcccccaaa acccaaggac 840
accctcatga tctcccggac ccctgaggtc acatgcgtgg tgggtggacgt gagccacgaa 900

P25692-Final PC72054A_Sequence_Listing_Spanish

gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca 960
aagccgcggg aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg 1020
caccaggact ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca 1080
gcccccatcg agaaaaccat ctcaaagcc aaagggcagc cccgagaacc acaggtgtac 1140
accctgcccc catcccggga ggagatgacc aagaaccagg tcagcctgtg gtgcctggtc 1200
aaaggcttct atcccagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac 1260
aactacaaga ccacgcctcc cgtgctggac tccgacggct ctttcttcct ctacagcaag 1320
ctcaccgtgg acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat 1380
gaggctctgc acaaccacta cacgcagaag agcctctccc tgtctccggg taaa 1434

<210> 145

<211> 243

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 145

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
Página 98

P25692-Final PC72054A_Sequence_Listing_Spanish

130

135

140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Ser Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 146
<211> 729
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 146	
caggctgtgg tgactcagga gccttcactg accgtgtccc caggcggaac tgtgaccctg	60
acatgcagat ccagcacagg cgcagtgacc acatctaact acgccaattg ggtgcagcag	120
aagccaggac aggcaccaag gggcctgac ggggggtacaa acaaaaagggc tccctggacc	180
cctgcacggt tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca	240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc	300
gggggtggca caaaactgac tgtgctggga gggggtggat ccggcggagg tggagaagtc	360
cagctggtgc agagtggggc agaagtcaag aaacccggcg catcagtga agtctcatgt	420
aaagcatcag gctatacctt tacatcatac ggaatcagct gggtgaggca ggctccagga	480
cagggactgg agtggatggg atggatttct gcatacaacg gcaatacaaaa ctatgcccag	540
aagctgcagg gccgggtgac tatgaccaca gacactagca cctccacagc ctatatggaa	600
ctgcggtctc tgagaagtga cgatactgcc gtctactatt gcgctaccat tgataccgct	660
tcagccttcg acatttgggg gcaggggact atggtgacag tgagctccgg attcaacagg	720

ggagagtgt

<210> 147

<211> 478

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 147

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

Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
 20 25 30

Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
 35 40 45

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

Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
 65 70 75 80

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
 85 90 95

Ser Gly Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
 100 105 110

Gly Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly
 115 120 125

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
 130 135 140

Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
 145 150 155 160

Gly Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn
 165 170 175

Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 180 185 190

Arg Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys
 Página 100

195

200

205

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
 210 215 220

Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
 225 230 235 240

Thr Val Ser Ser Gly Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr
 245 250 255

Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe
 260 265 270

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
 275 280 285

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
 290 295 300

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
 305 310 315 320

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
 325 330 335

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
 340 345 350

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
 355 360 365

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
 370 375 380

Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val
 385 390 395 400

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
 405 410 415

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
 420 425 430

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
 435 440 445

P25692-Final PC72054A_Sequence_Listing_Spanish

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
450 455 460

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 148
<211> 1434
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 148
cagtccgtcc tgactcagcc tccctccgtg tccgcagctc ctgggcagaa ggtcacaatc 60
agttgctctg ggtcatcctc aaacattggc aacaattacg tgtcttggtg tcagcagctg 120
cccgggacag cccctaagct gctgatctac gacaacaaca agcggccaag tggcattccc 180
gatcggttca gcggcagcaa gtctggcacc agcgccacac tgggcatcac tgggctgcag 240
accggggacg aggctgatta ctattgcgga acctgggact cttcactgtc tggcgtcgtc 300
ttcggagggg gaaccaaact gaccgtgctg ggtggaggcg gatccggcgg cggaggcgag 360
gtgcagctgg tggagtctgg gggaggcttg gtccagcctg gagggtcctt gagactctcc 420
tgtgcagcct ctggattcac cttcagcaca tacgctatga attgggtccg ccagggtcca 480
gggaaggggc tggagtgggt tggaaggatc aggtccaagt acaacaatta tgcaacctac 540
tatgccgact ctgtgaaggg tagattcacc atctcaagag atgattcaaa gaactcactg 600
tatctgcaaa tgaacagcct gaaaaccgag gacacggccg tgtattactg tgtgagacac 660
ggtaacttcg gcaattctta cgtgtcttgg tttgcttatt ggggacaggg gacactgggtg 720
actgtgtctt ccggagttga gccc aaatct tgtgacaaaa ctcacacatg cccaccgtgc 780
ccagcacctg aagccgcggg ggcaccgtca gtcttcctct tcccccaaa acccaaggac 840
accctcatga tctcccgac ccctgaggtc acatgcgtgg tggaggacgt gagccacgaa 900
gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca 960
aagccgcggg aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg 1020
caccaggact ggctgaatgg caaggagtac aagtgaagg tctccaaca agccctccca 1080
gccccatcg agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac 1140
accctgcccc catcccggga ggagatgacc aagaaccagg tcagcctgtg gtgcctggtc 1200
aaaggcttct atcccagcga catcgccgtg gagggggaga gcaatgggca gccggagaac 1260
aactacaaga ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag 1320
ctcaccgtgg acaagagcag gtggcagcag ggaacgtct tctcatgctc cgtgatgcat 1380

gaggctctgc acaaccacta cacgcagaag agcctctccc tgtctccggg taaa

1434

<210> 149

<211> 243

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 149

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

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

P25692-Final PC72054A_Sequence_Listing_Spanish

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Asn Ala Phe Gly
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 150
<211> 729
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 150
caggctgtgg tgactcagga gccttcactg accgtgtccc caggcggaac tgtgaccctg 60
acatgcagat ccagcacagg cgcagtgacc acatctaact acgccaattg ggtgcagcag 120
aagccaggac aggcaccaag gggcctgatc ggggggtacaa acaaaagggc tccctggacc 180
cctgcacggg tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca 240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc 300
gggggtggca caaaactgac tgtgctggga ggggggtggat ccggcggagg tggagaagtc 360
cagctggtgc agagtggggc agaagtcaag aaacccggcg catcagtga agtctcatgt 420
aaagcatcag gctatacctt tacatcatac ggaatcagct gggtgaggca ggctccagga 480
cagggactgg agtggatggg atggatttct gcatacaacg gcaatacaaa ctatgccag 540
aagctgcagg gccgggtgac tatgaccaca gacactagca cctccacagc ctatatggaa 600
ctgcggtctc tgagaagtga cgatactgcc gtctactatt gcgctaccat tgataccgct 660
aacgccttcg gcatttgggg gcaggggact atggtgacag tgagctccgg attcaacagg 720
ggagagtgt 729

<210> 151
<211> 478
<212> PRT
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de péptidos

<400> 151

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

P25692-Final PC72054A_Sequence_Listing_Spanish

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
275 280 285

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
290 295 300

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
305 310 315 320

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
325 330 335

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
340 345 350

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
355 360 365

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
370 375 380

Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val
385 390 395 400

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
405 410 415

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
420 425 430

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
435 440 445

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
450 455 460

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 152
<211> 1434
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 152

P25692-Final PC72054A_Sequence_Listing_Spanish

cagtccgtcc tgactcagcc tccctccgtg tccgcagctc ctgggcagaa ggtcacaatc	60
agttgctctg ggtcatcctc aaacattggc aacaattacg tgtcttggtg tcagcagctg	120
cccgggacag cccctaagct gctgatctac gacaacaaca agcggccaag tggcattccc	180
gatcggttca gcggcagcaa gtctggcacc agcgccacac tgggcatcac tgggctgcag	240
accggggacg aggctgatta ctattgcgga acctgggact cttcactgtc ttcctacgtc	300
ttcggaacgg gaaccaaagt gaccgtgctg ggtggaggcg gatccggcgg cggaggcgag	360
gtgcagctgg tggagtctgg gggaggcttg gtccagcctg gagggtcctt gagactctcc	420
tgtgcagcct ctggattcac cttcagcaca tacgctatga attgggtccg ccaggctcca	480
gggaaggggc tggagtgggt tggaaggatc aggtccaagt acaacaatta tgcaacctac	540
tatgccgact ctgtgaaggg tagattcacc atctcaagag atgattcaaa gaactcactg	600
tatctgcaaa tgaacagcct gaaaaccgag gacacggccg tgtattactg tgtgagacac	660
ggtaacttcg gcaattctta cgtgtcttgg tttgcttatt ggggacaggg gacactggtg	720
actgtgtctt ccggagttga gcccaaactt tgtgacaaaa ctcacacatg cccaccgtgc	780
ccagcacctg aagccgcggg ggcaccgtca gtcttcctct tcccccaaa acccaaggac	840
accctcatga tctcccgga cctgagggtc acatgcgtgg tggaggacgt gagccacgaa	900
gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca	960
aagccgcggg aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg	1020
caccaggact ggctgaatgg caaggagtac aagtgaagg tctccaacaa agccctccca	1080
gccccatcg agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac	1140
accctgcccc catcccggga ggagatgacc aagaaccagg tcagcctgtg gtgcctggtc	1200
aaaggcttct atccagcga catcgccgtg gaggggaga gcaatgggca gccggagaac	1260
aactacaaga ccacgcctcc cgtgctggac tccgacggct ctttcttcct ctacagcaag	1320
ctcaccgtgg acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat	1380
gaggctctgc acaaccacta cacgcagaag agcctctccc tgtctccggg taaa	1434

<210> 153

<211> 243

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 153

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
35 40 45

Leu Ile Gly Gly Thr Asn Lys Arg Ala Pro Trp Thr Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

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

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Thr Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 154
<211> 729
<212> ADN

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de nucleótidos

<400> 154

caggctgtgg tgactcagga gccttcactg accgtgtccc caggcggaac tgtgaccctg	60
acatgcagat ccagcacagg cgcagtgacc acatctaact acgccaattg ggtgcagcag	120
aagccaggac aggcaccaag gggcctgatc ggggggtacaa acaaaagggc tccctggacc	180
cctgcacggt tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca	240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc	300
gggggtggca caaaactgac tgtgctggga ggggggtggat ccggcggagg tggagaagtc	360
cagctggtgc agagtggggc agaagtcaag aaacccggcg catcagtga agtctcatgt	420
aaagcatcag gctatacctt tacatcatat ggaatcagct gggtgaggca ggctccagga	480
cagggactgg agtggatggg atggatttct gcatacaacg gcaatacaaa ctatgcccag	540
aagctgcagg gccgggtgac tatgaccaca gacactagca cctccacagc ctatatggaa	600
ctgcggtctc tgagaagtga cgatactgcc gtctactatt gcgctaccat tgataccgct	660
acagccttcg acatttgggg gcaggggact atggtgacag tgagctccgg attcaacagg	720
ggagagtgt	729

<210> 155

<211> 478

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 155

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
85 90 95

Ser Ala Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly Gly
100 105 110

Gly Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Glu Ser Gly Gly
115 120 125

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser
130 135 140

Gly Phe Thr Phe Ser Thr Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
145 150 155 160

Gly Lys Gly Leu Glu Trp Val Gly Arg Ile Arg Ser Lys Tyr Asn Asn
165 170 175

Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
180 185 190

Arg Asp Asp Ser Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Lys
195 200 205

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
210 215 220

Asn Ser Tyr Val Ser Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
225 230 235 240

Thr Val Ser Ser Gly Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr
245 250 255

Cys Pro Pro Cys Pro Ala Pro Glu Ala Ala Gly Ala Pro Ser Val Phe
260 265 270

Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro
275 280 285

Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val
290 295 300

Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr
305 310 315 320

Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val
325 330 335

P25692-Final PC72054A_Sequence_Listing_Spanish

Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys
340 345 350

Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser
355 360 365

Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro
370 375 380

Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Trp Cys Leu Val
385 390 395 400

Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly
405 410 415

Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp
420 425 430

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
435 440 445

Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
450 455 460

Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
465 470 475

<210> 156
<211> 1434
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 156
cagtccgtcc tgactcagcc tccctccgtg tccgcagctc ctgggcagaa ggtcacaatc 60
agttgctctg ggtcatcctc aaacattggc aacaattacg tgtcttggtg tcagcagctg 120
cccggggacag cccctaagct gctgatctac gacaacaaca agcggccaag tggcattccc 180
gatcggttca gcggcagcaa gtctggcacc agcgccacac tgggcatcac tgggctgcag 240
accgggggacg aggctgatta ctattgcgga acctgggact cttcactgtc tgcctacgtc 300
ttcggaaacgg gaaccaaagt gaccgtgctg ggtggaggcg gatccggcgg cggaggcgag 360
gtgcagctgg tggagtctgg gggaggcttg gtccagcctg gagggtcctt gagactctcc 420
tgtgcagcct ctggattcac cttcagcaca tacgctatga attgggtccg ccagggtcca 480
gggaagggggc tggagtgggt tggaaggatc aggtccaagt acaacaatta tgcaacctac 540

P25692-Final PC72054A_Sequence_Listing_Spanish

tatgccgact ctgtgaaggg tagattcacc atctcaagag atgattcaaa gaactcactg	600
tatctgcaaa tgaacagcct gaaaaccgag gacacggccg tgtattactg tgtgagacac	660
ggtaacttcg gcaattctta cgtgtcttgg tttgcttatt ggggacaggg gacactgggtg	720
actgtgtctt ccggagttga gcccaaattct tgtgacaaaa ctacacatg cccaccgtgc	780
ccagcacctg aagccgcggg ggcaccgtca gtcttcctct tccccccaaa acccaaggac	840
accctcatga tctcccggac ccctgaggtc acatgcgtgg tggaggacgt gagccacgaa	900
gaccctgagg tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca	960
aagccgcggg aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg	1020
caccaggact ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca	1080
gcccccatcg agaaaaccat ctcaaagcc aaagggcagc cccgagaacc acaggtgtac	1140
accctgcccc catcccggga ggagatgacc aagaaccagg tcagcctgtg gtgcctggtc	1200
aaaggcttct atcccagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac	1260
aactacaaga ccacgcctcc cgtgctggac tccgacggct ctttcttct ctacagcaag	1320
ctcaccgtgg acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat	1380
gaggctctgc acaaccacta cagcagaag agcctctccc tgtctccggg taaa	1434

<210> 157

<211> 243

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 157

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

Thr	Val	Thr	Leu	Thr	Cys	Arg	Ser	Ser	Thr	Gly	Ala	Val	Thr	Thr	Ser
			20					25					30		

Asn	Tyr	Ala	Asn	Trp	Val	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Gly
		35					40					45			

Leu	Ile	Gly	Gly	Thr	Asn	Lys	Arg	Ala	Pro	Trp	Thr	Pro	Ala	Arg	Phe
	50					55					60				

Ser	Gly	Ser	Leu	Leu	Gly	Gly	Lys	Ala	Ala	Leu	Thr	Ile	Thr	Gly	Ala
65					70					75					80

Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Leu	Trp	Tyr	Ser	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Leu Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
100 105 110

Gly Ser Gly Gly Gly Gly Glu Val Gln Leu Val Gln Ser Gly Ala Glu
115 120 125

Val Lys Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly
130 135 140

Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp Val Arg Gln Ala Pro Gly
145 150 155 160

Gln Gly Leu Glu Trp Met Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr
165 170 175

Asn Tyr Ala Gln Lys Leu Gln Gly Arg Val Thr Met Thr Thr Asp Thr
180 185 190

Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Arg Ser Asp Asp
195 200 205

Thr Ala Val Tyr Tyr Cys Ala Thr Ile Asp Thr Ala Asn Ala Phe Asp
210 215 220

Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Phe Asn Arg
225 230 235 240

Gly Glu Cys

<210> 158
<211> 729
<212> ADN
<213> Secuencia artificial

<220>
<223> Secuencia de síntesis de nucleótidos

<400> 158
caggctgtgg tgactcagga gccttcactg accgtgtccc caggcggaac tgtgaccctg 60
acatgcagat ccagcacagg cgcagtgacc acatctaact acgccaattg ggtgcagcag 120
aagccaggac aggcaccaag gggcctgac ggggggtacaa acaaaaagggc tccctggacc 180
cctgcacggt tttctggaag tctgctgggc ggaaaggccg ctctgactat taccggggca 240
caggccgagg acgaagccga ttactattgt gctctgtggt atagcaatct gtgggtgttc 300
gggggtggca caaaactgac tgtgctggga ggggggtggat ccggcggagg tggagaagtc 360

P25692-Final PC72054A_Sequence_Listing_Spanish

cagctggtgc agagtggggc agaagtcaag aaacccggcg catcagtga agtctcatgt 420
aaagcatcag gctatacctt tacatcatat ggaatcagct gggtgaggca ggctccagga 480
cagggactgg agtggatggg atggatttct gcatacaacg gcaatacaaa ctatgcccag 540
aagctgcagg gccgggtgac tatgaccaca gacactagca cctccacagc ctatatggaa 600
ctgcggtctc tgagaagtga cgatactgcc gtctactatt gcgctaccat tgataccgct 660
aacgccttcg acatttgggg gcaggggact atggtgacag tgagctccgg attcaacagg 720
ggagagtgt 729

<210> 159
<211> 829
<212> PRT
<213> Homo sapiens

<400> 159

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

Cys Trp Leu Gln Cys Ala Ala Ser Glu Pro Cys Arg Ala Val Phe Arg
20 25 30

Glu Ala Glu Val Thr Leu Glu Ala Gly Gly Ala Glu Gln Glu Pro Gly
35 40 45

Gln Ala Leu Gly Lys Val Phe Met Gly Cys Pro Gly Gln Glu Pro Ala
50 55 60

Leu Phe Ser Thr Asp Asn Asp Asp Phe Thr Val Arg Asn Gly Glu Thr
65 70 75 80

Val Gln Glu Arg Arg Ser Leu Lys Glu Arg Asn Pro Leu Lys Ile Phe
85 90 95

Pro Ser Lys Arg Ile Leu Arg Arg His Lys Arg Asp Trp Val Val Ala
100 105 110

Pro Ile Ser Val Pro Glu Asn Gly Lys Gly Pro Phe Pro Gln Arg Leu
115 120 125

Asn Gln Leu Lys Ser Asn Lys Asp Arg Asp Thr Lys Ile Phe Tyr Ser
130 135 140

Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu Gly Val Phe Ala Val
145 150 155 160

P25692-Final PC72054A_Sequence_Listing_Spanish

Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys Pro Leu Asp Arg Glu
165 170 175

Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala Val Ser Glu Asn Gly
180 185 190

Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile Ile Val Thr Asp Gln
195 200 205

Asn Asp His Lys Pro Lys Phe Thr Gln Asp Thr Phe Arg Gly Ser Val
210 215 220

Leu Glu Gly Val Leu Pro Gly Thr Ser Val Met Gln Val Thr Ala Thr
225 230 235 240

Asp Glu Asp Asp Ala Ile Tyr Thr Tyr Asn Gly Val Val Ala Tyr Ser
245 250 255

Ile His Ser Gln Glu Pro Lys Asp Pro His Asp Leu Met Phe Thr Ile
260 265 270

His Arg Ser Thr Gly Thr Ile Ser Val Ile Ser Ser Gly Leu Asp Arg
275 280 285

Glu Lys Val Pro Glu Tyr Thr Leu Thr Ile Gln Ala Thr Asp Met Asp
290 295 300

Gly Asp Gly Ser Thr Thr Thr Ala Val Ala Val Val Glu Ile Leu Asp
305 310 315 320

Ala Asn Asp Asn Ala Pro Met Phe Asp Pro Gln Lys Tyr Glu Ala His
325 330 335

Val Pro Glu Asn Ala Val Gly His Glu Val Gln Arg Leu Thr Val Thr
340 345 350

Asp Leu Asp Ala Pro Asn Ser Pro Ala Trp Arg Ala Thr Tyr Leu Ile
355 360 365

Met Gly Gly Asp Asp Gly Asp His Phe Thr Ile Thr Thr His Pro Glu
370 375 380

Ser Asn Gln Gly Ile Leu Thr Thr Arg Lys Gly Leu Asp Phe Glu Ala
385 390 395 400

Lys Asn Gln His Thr Leu Tyr Val Glu Val Thr Asn Glu Ala Pro Phe
405 410 415

P25692-Final PC72054A_Sequence_Listing_Spanish

Val Leu Lys Leu Pro Thr Ser Thr Ala Thr Ile Val Val His Val Glu
420 425 430

Asp Val Asn Glu Ala Pro Val Phe Val Pro Pro Ser Lys Val Val Glu
435 440 445

Val Gln Glu Gly Ile Pro Thr Gly Glu Pro Val Cys Val Tyr Thr Ala
450 455 460

Glu Asp Pro Asp Lys Glu Asn Gln Lys Ile Ser Tyr Arg Ile Leu Arg
465 470 475 480

Asp Pro Ala Gly Trp Leu Ala Met Asp Pro Asp Ser Gly Gln Val Thr
485 490 495

Ala Val Gly Thr Leu Asp Arg Glu Asp Glu Gln Phe Val Arg Asn Asn
500 505 510

Ile Tyr Glu Val Met Val Leu Ala Met Asp Asn Gly Ser Pro Pro Thr
515 520 525

Thr Gly Thr Gly Thr Leu Leu Leu Thr Leu Ile Asp Val Asn Asp His
530 535 540

Gly Pro Val Pro Glu Pro Arg Gln Ile Thr Ile Cys Asn Gln Ser Pro
545 550 555 560

Val Arg Gln Val Leu Asn Ile Thr Asp Lys Asp Leu Ser Pro His Thr
565 570 575

Ser Pro Phe Gln Ala Gln Leu Thr Asp Asp Ser Asp Ile Tyr Trp Thr
580 585 590

Ala Glu Val Asn Glu Glu Gly Asp Thr Val Val Leu Ser Leu Lys Lys
595 600 605

Phe Leu Lys Gln Asp Thr Tyr Asp Val His Leu Ser Leu Ser Asp His
610 615 620

Gly Asn Lys Glu Gln Leu Thr Val Ile Arg Ala Thr Val Cys Asp Cys
625 630 635 640

His Gly His Val Glu Thr Cys Pro Gly Pro Trp Lys Gly Gly Phe Ile
645 650 655

Leu Pro Val Leu Gly Ala Val Leu Ala Leu Leu Phe Leu Leu Leu Val
660 665 670

P25692-Final PC72054A_Sequence_Listing_Spanish

Leu Leu Leu Leu Val Arg Lys Lys Arg Lys Ile Lys Glu Pro Leu Leu
675 680 685

Leu Pro Glu Asp Asp Thr Arg Asp Asn Val Phe Tyr Tyr Gly Glu Glu
690 695 700

Gly Gly Gly Glu Glu Asp Gln Asp Tyr Asp Ile Thr Gln Leu His Arg
705 710 715 720

Gly Leu Glu Ala Arg Pro Glu Val Val Leu Arg Asn Asp Val Ala Pro
725 730 735

Thr Ile Ile Pro Thr Pro Met Tyr Arg Pro Arg Pro Ala Asn Pro Asp
740 745 750

Glu Ile Gly Asn Phe Ile Ile Glu Asn Leu Lys Ala Ala Asn Thr Asp
755 760 765

Pro Thr Ala Pro Pro Tyr Asp Thr Leu Leu Val Phe Asp Tyr Glu Gly
770 775 780

Ser Gly Ser Asp Ala Ala Ser Leu Ser Ser Leu Thr Ser Ser Ala Ser
785 790 795 800

Asp Gln Asp Gln Asp Tyr Asp Tyr Leu Asn Glu Trp Gly Ser Arg Phe
805 810 815

Lys Lys Leu Ala Asp Met Tyr Gly Gly Gly Glu Asp Asp
820 825

<210> 160
<211> 24
<212> PRT
<213> Homo sapiens

<400> 160

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

Cys Trp Leu Gln Cys Ala Ala Ser
20

<210> 161
<211> 83
<212> PRT
<213> Homo sapiens

<400> 161

P25692-Final PC72054A_Sequence_Listing_Spanish

Glu Pro Cys Arg Ala Val Phe Arg Glu Ala Glu Val Thr Leu Glu Ala
1 5 10 15

Gly Gly Ala Glu Gln Glu Pro Gly Gln Ala Leu Gly Lys Val Phe Met
20 25 30

Gly Cys Pro Gly Gln Glu Pro Ala Leu Phe Ser Thr Asp Asn Asp Asp
35 40 45

Phe Thr Val Arg Asn Gly Glu Thr Val Gln Glu Arg Arg Ser Leu Lys
50 55 60

Glu Arg Asn Pro Leu Lys Ile Phe Pro Ser Lys Arg Ile Leu Arg Arg
65 70 75 80

His Lys Arg

<210> 162
<211> 108
<212> PRT
<213> Homo sapiens

<400> 162

Asp Trp Val Val Ala Pro Ile Ser Val Pro Glu Asn Gly Lys Gly Pro
1 5 10 15

Phe Pro Gln Arg Leu Asn Gln Leu Lys Ser Asn Lys Asp Arg Asp Thr
20 25 30

Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu
35 40 45

Gly Val Phe Ala Val Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys
50 55 60

Pro Leu Asp Arg Glu Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala
65 70 75 80

Val Ser Glu Asn Gly Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile
85 90 95

Ile Val Thr Asp Gln Asn Asp His Lys Pro Lys Phe
100 105

<210> 163
<211> 113
<212> PRT

<213> Homo sapiens

<400> 163

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

Thr Ser Val Met Gln Val Thr Ala Thr Asp Glu Asp Asp Ala Ile Tyr
 20 25 30

Thr Tyr Asn Gly Val Val Ala Tyr Ser Ile His Ser Gln Glu Pro Lys
 35 40 45

Asp Pro His Asp Leu Met Phe Thr Ile His Arg Ser Thr Gly Thr Ile
 50 55 60

Ser Val Ile Ser Ser Gly Leu Asp Arg Glu Lys Val Pro Glu Tyr Thr
 65 70 75 80

Leu Thr Ile Gln Ala Thr Asp Met Asp Gly Asp Gly Ser Thr Thr Thr
 85 90 95

Ala Val Ala Val Val Glu Ile Leu Asp Ala Asn Asp Asn Ala Pro Met
 100 105 110

Phe

<210> 164

<211> 112

<212> PRT

<213> Homo sapiens

<400> 164

Asp Pro Gln Lys Tyr Glu Ala His Val Pro Glu Asn Ala Val Gly His
 1 5 10 15

Glu Val Gln Arg Leu Thr Val Thr Asp Leu Asp Ala Pro Asn Ser Pro
 20 25 30

Ala Trp Arg Ala Thr Tyr Leu Ile Met Gly Gly Asp Asp Gly Asp His
 35 40 45

Phe Thr Ile Thr Thr His Pro Glu Ser Asn Gln Gly Ile Leu Thr Thr
 50 55 60

Arg Lys Gly Leu Asp Phe Glu Ala Lys Asn Gln His Thr Leu Tyr Val
 65 70 75 80

P25692-Final PC72054A_Sequence_Listing_Spanish

Glu Val Thr Asn Glu Ala Pro Phe Val Leu Lys Leu Pro Thr Ser Thr
85 90 95

Ala Thr Ile Val Val His Val Glu Asp Val Asn Glu Ala Pro Val Phe
100 105 110

<210> 165
<211> 106
<212> PRT
<213> Homo sapiens

<400> 165

Val Pro Pro Ser Lys Val Val Glu Val Gln Glu Gly Ile Pro Thr Gly
1 5 10 15

Glu Pro Val Cys Val Tyr Thr Ala Glu Asp Pro Asp Lys Glu Asn Gln
20 25 30

Lys Ile Ser Tyr Arg Ile Leu Arg Asp Pro Ala Gly Trp Leu Ala Met
35 40 45

Asp Pro Asp Ser Gly Gln Val Thr Ala Val Gly Thr Leu Asp Arg Glu
50 55 60

Asp Glu Gln Phe Val Arg Asn Asn Ile Tyr Glu Val Met Val Leu Ala
65 70 75 80

Met Asp Asn Gly Ser Pro Pro Thr Thr Gly Thr Gly Thr Leu Leu Leu
85 90 95

Thr Leu Ile Asp Val Asn Asp His Gly Pro
100 105

<210> 166
<211> 104
<212> PRT
<213> Homo sapiens

<400> 166

Val Pro Glu Pro Arg Gln Ile Thr Ile Cys Asn Gln Ser Pro Val Arg
1 5 10 15

Gln Val Leu Asn Ile Thr Asp Lys Asp Leu Ser Pro His Thr Ser Pro
20 25 30

Phe Gln Ala Gln Leu Thr Asp Asp Ser Asp Ile Tyr Trp Thr Ala Glu
35 40 45

Val Asn Glu Glu Gly Asp Thr Val Val Leu Ser Leu Lys Lys Phe Leu
Página 120

50

55

60

Lys Gln Asp Thr Tyr Asp Val His Leu Ser Leu Ser Asp His Gly Asn
65 70 75 80

Lys Glu Gln Leu Thr Val Ile Arg Ala Thr Val Cys Asp Cys His Gly
85 90 95

His Val Glu Thr Cys Pro Gly Pro
100

<210> 167
<211> 179
<212> PRT
<213> Homo sapiens

<400> 167

Trp Lys Gly Gly Phe Ile Leu Pro Val Leu Gly Ala Val Leu Ala Leu
1 5 10 15

Leu Phe Leu Leu Leu Val Leu Leu Leu Leu Val Arg Lys Lys Arg Lys
20 25 30

Ile Lys Glu Pro Leu Leu Leu Pro Glu Asp Asp Thr Arg Asp Asn Val
35 40 45

Phe Tyr Tyr Gly Glu Glu Gly Gly Gly Glu Glu Asp Gln Asp Tyr Asp
50 55 60

Ile Thr Gln Leu His Arg Gly Leu Glu Ala Arg Pro Glu Val Val Leu
65 70 75 80

Arg Asn Asp Val Ala Pro Thr Ile Ile Pro Thr Pro Met Tyr Arg Pro
85 90 95

Arg Pro Ala Asn Pro Asp Glu Ile Gly Asn Phe Ile Ile Glu Asn Leu
100 105 110

Lys Ala Ala Asn Thr Asp Pro Thr Ala Pro Pro Tyr Asp Thr Leu Leu
115 120 125

Val Phe Asp Tyr Glu Gly Ser Gly Ser Asp Ala Ala Ser Leu Ser Ser
130 135 140

Leu Thr Ser Ser Ala Ser Asp Gln Asp Gln Asp Tyr Asp Tyr Leu Asn
145 150 155 160

Glu Trp Gly Ser Arg Phe Lys Lys Leu Ala Asp Met Tyr Gly Gly Gly
Página 121

Glu Asp Asp

<210> 168
<211> 221
<212> PRT
<213> Homo sapiens
<400> 168

Asp Trp Val Val Ala Pro Ile Ser Val Pro Glu Asn Gly Lys Gly Pro
1 5 10 15

Phe Pro Gln Arg Leu Asn Gln Leu Lys Ser Asn Lys Asp Arg Asp Thr
20 25 30

Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu
35 40 45

Gly Val Phe Ala Val Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys
50 55 60

Pro Leu Asp Arg Glu Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala
65 70 75 80

Val Ser Glu Asn Gly Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile
85 90 95

Ile Val Thr Asp Gln Asn Asp His Lys Pro Lys Phe Thr Gln Asp Thr
100 105 110

Phe Arg Gly Ser Val Leu Glu Gly Val Leu Pro Gly Thr Ser Val Met
115 120 125

Gln Val Thr Ala Thr Asp Glu Asp Asp Ala Ile Tyr Thr Tyr Asn Gly
130 135 140

Val Val Ala Tyr Ser Ile His Ser Gln Glu Pro Lys Asp Pro His Asp
145 150 155 160

Leu Met Phe Thr Ile His Arg Ser Thr Gly Thr Ile Ser Val Ile Ser
165 170 175

Ser Gly Leu Asp Arg Glu Lys Val Pro Glu Tyr Thr Leu Thr Ile Gln
180 185 190

Ala Thr Asp Met Asp Gly Asp Gly Ser Thr Thr Thr Ala Val Ala Val
Página 122

195

200

205

Val Glu Ile Leu Asp Ala Asn Asp Asn Ala Pro Met Phe
 210 215 220

<210> 169
 <211> 333
 <212> PRT
 <213> Homo sapiens
 <400> 169

Asp Trp Val Val Ala Pro Ile Ser Val Pro Glu Asn Gly Lys Gly Pro
 1 5 10 15

Phe Pro Gln Arg Leu Asn Gln Leu Lys Ser Asn Lys Asp Arg Asp Thr
 20 25 30

Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu
 35 40 45

Gly Val Phe Ala Val Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys
 50 55 60

Pro Leu Asp Arg Glu Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala
 65 70 75 80

Val Ser Glu Asn Gly Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile
 85 90 95

Ile Val Thr Asp Gln Asn Asp His Lys Pro Lys Phe Thr Gln Asp Thr
 100 105 110

Phe Arg Gly Ser Val Leu Glu Gly Val Leu Pro Gly Thr Ser Val Met
 115 120 125

Gln Val Thr Ala Thr Asp Glu Asp Asp Ala Ile Tyr Thr Tyr Asn Gly
 130 135 140

Val Val Ala Tyr Ser Ile His Ser Gln Glu Pro Lys Asp Pro His Asp
 145 150 155 160

Leu Met Phe Thr Ile His Arg Ser Thr Gly Thr Ile Ser Val Ile Ser
 165 170 175

Ser Gly Leu Asp Arg Glu Lys Val Pro Glu Tyr Thr Leu Thr Ile Gln
 180 185 190

Ala Thr Asp Met Asp Gly Asp Gly Ser Thr Thr Thr Ala Val Ala Val
 Página 123

P25692-Final PC72054A_Sequence_Listing_Spanish

195

200

205

Val Glu Ile Leu Asp Ala Asn Asp Asn Ala Pro Met Phe Asp Pro Gln
210 215 220

Lys Tyr Glu Ala His Val Pro Glu Asn Ala Val Gly His Glu Val Gln
225 230 235 240

Arg Leu Thr Val Thr Asp Leu Asp Ala Pro Asn Ser Pro Ala Trp Arg
245 250 255

Ala Thr Tyr Leu Ile Met Gly Gly Asp Asp Gly Asp His Phe Thr Ile
260 265 270

Thr Thr His Pro Glu Ser Asn Gln Gly Ile Leu Thr Thr Arg Lys Gly
275 280 285

Leu Asp Phe Glu Ala Lys Asn Gln His Thr Leu Tyr Val Glu Val Thr
290 295 300

Asn Glu Ala Pro Phe Val Leu Lys Leu Pro Thr Ser Thr Ala Thr Ile
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Val Val His Val Glu Asp Val Asn Glu Ala Pro Val Phe
325 330

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<213> Homo sapiens
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20 25 30

Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu
35 40 45

Gly Val Phe Ala Val Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys
50 55 60

Pro Leu Asp Arg Glu Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala
65 70 75 80

Val Ser Glu Asn Gly Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile

Ile Val Thr Asp Gln Asn Asp His Lys Pro Lys Phe Thr Gln Asp Thr
100 105 110

Phe Arg Gly Ser Val Leu Glu Gly Val Leu Pro Gly Thr Ser Val Met
115 120 125

Gln Val Thr Ala Thr Asp Glu Asp Asp Ala Ile Tyr Thr Tyr Asn Gly
130 135 140

Val Val Ala Tyr Ser Ile His Ser Gln Glu Pro Lys Asp Pro His Asp
145 150 155 160

Leu Met Phe Thr Ile His Arg Ser Thr Gly Thr Ile Ser Val Ile Ser
165 170 175

Ser Gly Leu Asp Arg Glu Lys Val Pro Glu Tyr Thr Leu Thr Ile Gln
180 185 190

Ala Thr Asp Met Asp Gly Asp Gly Ser Thr Thr Thr Ala Val Ala Val
195 200 205

Val Glu Ile Leu Asp Ala Asn Asp Asn Ala Pro Met Phe Asp Pro Gln
210 215 220

Lys Tyr Glu Ala His Val Pro Glu Asn Ala Val Gly His Glu Val Gln
225 230 235 240

Arg Leu Thr Val Thr Asp Leu Asp Ala Pro Asn Ser Pro Ala Trp Arg
245 250 255

Ala Thr Tyr Leu Ile Met Gly Gly Asp Asp Gly Asp His Phe Thr Ile
260 265 270

Thr Thr His Pro Glu Ser Asn Gln Gly Ile Leu Thr Thr Arg Lys Gly
275 280 285

Leu Asp Phe Glu Ala Lys Asn Gln His Thr Leu Tyr Val Glu Val Thr
290 295 300

Asn Glu Ala Pro Phe Val Leu Lys Leu Pro Thr Ser Thr Ala Thr Ile
305 310 315 320

Val Val His Val Glu Asp Val Asn Glu Ala Pro Val Phe Val Pro Pro
325 330 335

P25692-Final PC72054A_Sequence_Listing_Spanish

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

Cys Val Tyr Thr Ala Glu Asp Pro Asp Lys Glu Asn Gln Lys Ile Ser
355 360 365

Tyr Arg Ile Leu Arg Asp Pro Ala Gly Trp Leu Ala Met Asp Pro Asp
370 375 380

Ser Gly Gln Val Thr Ala Val Gly Thr Leu Asp Arg Glu Asp Glu Gln
385 390 395 400

Phe Val Arg Asn Asn Ile Tyr Glu Val Met Val Leu Ala Met Asp Asn
405 410 415

Gly Ser Pro Pro Thr Thr Gly Thr Gly Thr Leu Leu Leu Thr Leu Ile
420 425 430

Asp Val Asn Asp His Gly Pro
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<211> 543
<212> PRT
<213> Homo sapiens

<400> 171

Asp Trp Val Val Ala Pro Ile Ser Val Pro Glu Asn Gly Lys Gly Pro
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Phe Pro Gln Arg Leu Asn Gln Leu Lys Ser Asn Lys Asp Arg Asp Thr
20 25 30

Lys Ile Phe Tyr Ser Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu
35 40 45

Gly Val Phe Ala Val Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys
50 55 60

Pro Leu Asp Arg Glu Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala
65 70 75 80

Val Ser Glu Asn Gly Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile
85 90 95

Ile Val Thr Asp Gln Asn Asp His Lys Pro Lys Phe Thr Gln Asp Thr
100 105 110

P25692-Final PC72054A_Sequence_Listing_Spanish

Phe Arg Gly Ser Val Leu Glu Gly Val Leu Pro Gly Thr Ser Val Met
115 120 125

Gln Val Thr Ala Thr Asp Glu Asp Asp Ala Ile Tyr Thr Tyr Asn Gly
130 135 140

Val Val Ala Tyr Ser Ile His Ser Gln Glu Pro Lys Asp Pro His Asp
145 150 155 160

Leu Met Phe Thr Ile His Arg Ser Thr Gly Thr Ile Ser Val Ile Ser
165 170 175

Ser Gly Leu Asp Arg Glu Lys Val Pro Glu Tyr Thr Leu Thr Ile Gln
180 185 190

Ala Thr Asp Met Asp Gly Asp Gly Ser Thr Thr Thr Ala Val Ala Val
195 200 205

Val Glu Ile Leu Asp Ala Asn Asp Asn Ala Pro Met Phe Asp Pro Gln
210 215 220

Lys Tyr Glu Ala His Val Pro Glu Asn Ala Val Gly His Glu Val Gln
225 230 235 240

Arg Leu Thr Val Thr Asp Leu Asp Ala Pro Asn Ser Pro Ala Trp Arg
245 250 255

Ala Thr Tyr Leu Ile Met Gly Gly Asp Asp Gly Asp His Phe Thr Ile
260 265 270

Thr Thr His Pro Glu Ser Asn Gln Gly Ile Leu Thr Thr Arg Lys Gly
275 280 285

Leu Asp Phe Glu Ala Lys Asn Gln His Thr Leu Tyr Val Glu Val Thr
290 295 300

Asn Glu Ala Pro Phe Val Leu Lys Leu Pro Thr Ser Thr Ala Thr Ile
305 310 315 320

Val Val His Val Glu Asp Val Asn Glu Ala Pro Val Phe Val Pro Pro
325 330 335

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

Cys Val Tyr Thr Ala Glu Asp Pro Asp Lys Glu Asn Gln Lys Ile Ser
355 360 365

P25692-Final PC72054A_Sequence_Listing_Spanish

Tyr Arg Ile Leu Arg Asp Pro Ala Gly Trp Leu Ala Met Asp Pro Asp
370 375 380

Ser Gly Gln Val Thr Ala Val Gly Thr Leu Asp Arg Glu Asp Glu Gln
385 390 395 400

Phe Val Arg Asn Asn Ile Tyr Glu Val Met Val Leu Ala Met Asp Asn
405 410 415

Gly Ser Pro Pro Thr Thr Gly Thr Gly Thr Leu Leu Leu Thr Leu Ile
420 425 430

Asp Val Asn Asp His Gly Pro Val Pro Glu Pro Arg Gln Ile Thr Ile
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Cys Asn Gln Ser Pro Val Arg Gln Val Leu Asn Ile Thr Asp Lys Asp
450 455 460

Leu Ser Pro His Thr Ser Pro Phe Gln Ala Gln Leu Thr Asp Asp Ser
465 470 475 480

Asp Ile Tyr Trp Thr Ala Glu Val Asn Glu Glu Gly Asp Thr Val Val
485 490 495

Leu Ser Leu Lys Lys Phe Leu Lys Gln Asp Thr Tyr Asp Val His Leu
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Ser Leu Ser Asp His Gly Asn Lys Glu Gln Leu Thr Val Ile Arg Ala
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<212> PRT

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Ala Trp Arg Ala Thr Tyr His Ile Val Gly Gly Asp Asp Gly Asp His
35 40 45

P25692-Final PC72054A_Sequence_Listing_Spanish

Phe Thr Ile Thr Thr His Pro Glu Thr Asn Gln Gly Val Leu Thr Thr
50 55 60

Lys Lys Gly Leu Asp Phe Glu Ala Gln Asp Gln His Thr Leu Tyr Val
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Glu Val Thr Asn Glu Ala Pro Phe Ala Val Lys Leu Pro Thr Ala Thr
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P25692-Final PC72054A_Sequence_Listing_Spanish

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 cacccagctg ataccgtaag cggtaaaggt gtaaccaga 39

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 <400> 179
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P25692-Final PC72054A_Sequence_Listing_Spanish

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 <400> 183
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 <400> 185
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 <400> 186
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P25692-Final PC72054A_Sequence_Listing_Spanish

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P25692-Final PC72054A_Sequence_Listing_Spanish

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 <400> 199
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 <400> 200
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 <210> 201
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 <400> 201
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 <400> 202
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 <210> 203

P25692-Final PC72054A_Sequence_Listing_Spanish

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P25692-Final PC72054A_Sequence_Listing_Spanish

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P25692-Final PC72054A_Sequence_Listing_Spanish

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 <210> 224

P25692-Final PC72054A_Sequence_Listing_Spanish

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 <400> 226
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 <210> 227
 <211> 39
 <212> ADN
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 <220>
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 <210> 228
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P25692-Final PC72054A_Sequence_Listing_Spanish

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P25692-Final PC72054A_Sequence_Listing_Spanish

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

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

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

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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<400> 237

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

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

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

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

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

Ala Lys Gly Ser Gly Ser Gly Ala Phe Asp Ile Trp Gly Gln Gly Thr
100 105 110

Met Val Thr Val Ser Ser
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<210> 238

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<400> 238

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

Asp Gly Asn Thr Tyr Leu His Trp Phe Gln Gln Arg Pro Gly Gln Ser
35 40 45

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

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

P25692-Final PC72054A_Sequence_Listing_Spanish

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Gly
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Thr His Trp Pro Pro Leu Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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<210> 239

<211> 118

<212> PRT

<213> Secuencia artificial

<220>

<223> Secuencia de síntesis de péptidos

<400> 239

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

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

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

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

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

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

Leu Val Thr Val Ser Ser
115