LISTADO DE SECUENCIAS

<110> MAVERICK THERAPEUTICS, INC.

<120> PROTEÍNAS DE UNIÓN CONDICIONALMENTE ACTIVADAS RESTRINGIDAS

<130> 118459-5005

<150> 62/555,943
<151> 2017-09-08

<150> 62/586,627
<151> 2017-11-15

<150> 62/587,318
<151> 2017-11-16

<160> 272

<170> PatentIn versión 3.5

<210> 1
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1 5 10 15

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

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

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

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

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

Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr
100 105 110

Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
115 120 125

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<220>
<223> Sintético sdCDR1 -Focalización sdAbs - alfa-EGFR1

<400> 2

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

<210> 3
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<223> Sintético sdCDR2 -Focalización sdAbs - alfa-EGFR1

<400> 3

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

<210> 4
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<220>
<223> Sintético sdCDR3 – Focalización sdAbs - alfa-EGFR1

<400> 4

Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr Glu Tyr
1 5 10 15

Asp Tyr

<210> 5
<211> 124
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<213> Secuencia Artificial

<220>
<223> Dominio de unión de antígeno sintético -Focalización sdAbs - alfa-EGFR2

<400> 5

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

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<223> Sintético sdCDR1 -Focalización sdAbs - alfa-EGFR2

<400> 6

Gly Arg Thr Ser Arg Ser Tyr Gly Met Gly
1 5 10

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<220>
<223> Sintético sdCDR2 -Focalización sdAbs - alfa-EGFR2

<400> 7

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

Gly

<210> 8
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<220>
<223> Sintético sdCDR3 -Focalización sdAbs - alfa-EGFR2

<400> 8

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr
1 5 10 15

<210> 9
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<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - h-alfa-EGFR1

<400> 9

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 Arg Thr Phe Ser Ser Tyr
20 25 30

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

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

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

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

Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr
            100   105   110

Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115   120   125

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<220>
<223> Sintético sdCDR1 -Focalización sdAbs - h-alfa-EGFR1

<400> 10

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

<210> 11
<211> 16
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<220>
<223> Sintético sdCDR2 -Focalización sdAbs - h-alfa-EGFR1

<400> 11

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

<210> 12
<211> 18

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<400> 12

Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr Glu Tyr
1 5 10 15

Asp Tyr

<210> 13
<211> 124
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<220>
<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - h-alfa-EGFR2

<400> 13

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

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<220>
<223> Sintético sdCDR1 -Focalización sdAbs - h-alfa-EGFR2

<400> 14

Gly Arg Thr Ser Arg Ser Tyr Gly Met Gly
1 5 10

<210> 15
<211> 17
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR2 -Focalización sdAbs - h-alfa-EGFR2

<400> 15

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

Gly

<210> 16
<211> 15
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR3 -Focalización sdAbs - h-alfa-EGFR2

<400> 16

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr
1 5 10 15

<210> 17
<211> 114
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<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - alfa-FOLR1 h77-2

<400> 17

Gln 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 Val Ser Asn Ser
20 25 30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
35 40 45

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

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 18
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR1 -Focalización sdAbs - alfa-FOLR1 h77-2

<400> 18

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

<210> 19

<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR2 -Focalización sdAbs - alfa-FOLR1 h77-2

<400> 19

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

<210> 20
<211> 6
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<213> Secuencia Artificial

<220>
<223> Sintético sdCDR3 -Focalización sdAbs - alfa-FOLR1 h77-2

<400> 20

Asn Phe Asp Arg Ile Tyr
1 5

<210> 21
<211> 113
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<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - alfa-FOLR1 h59.3

<400> 21

Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
20 25 30

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

Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

Ser

<210> 22
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR1 -Focalización sdAbs - alfa-FOLR1 h59.3

<400> 22

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

<210> 23
<211> 16
<212> PRT
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<220>
<223> Sintético sdCDR2 -Focalización sdAbs - alfa-FOLR1 h59.3

<400> 23

Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 24
<211> 5
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<213> Secuencia Artificial

<220>
<223> Sintético sdCDR3 -Focalización sdAbs - alfa-FOLR1 h59.3

<400> 24

Tyr Gly Ile Asp Tyr
1 5

<210> 25
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<220>
<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - alfa-FOLR1 h22-4

<400> 25

Gln 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 Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
20 25 30

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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Leu
100 105 110

Val Thr Val Ser Ser
115

<210> 26
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR1 -Focalización sdAbs - alfa-FOLR1 h22-4

<400> 26

Gly Thr Thr Phe Ser Arg Asp Val Met Gly
1 5 10

<210> 27
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR2 -Focalización sdAbs - alfa-FOLR1 h22-4

<400> 27

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

<210> 28
<211> 9
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR3 -Focalización sdAbs - alfa-FOLR1 h22-4

<400> 28

Asn Thr Ala Thr Trp Gly Arg Val Phe
1 5

<210> 29
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<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - alfa-B7H3 hF7

<400> 29

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

Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
20 25 30

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

Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
100 105 110

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

<210> 30
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR1 -Focalización sdAbs - alfa-B7H3 hF7

<400> 30

Arg Arg Thr Phe His Thr Tyr His Met Gly
1 5 10

<210> 31
<211> 17
<212> PRT
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<220>
<223> Sintético sdCDR2 -Focalización sdAbs - alfa-B7H3 hF7

<400> 31

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

Gly

<210> 32
<211> 15
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR3 -Focalización sdAbs - alfa-B7H3 hF7

<400> 32

Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp Tyr
1 5 10 15

<210> 33
<211> 122
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - alfa-B7H3 hF12

<400> 33

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr
20 25 30

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

Ala Ala Ile Asn Trp Ser Gly Gly Asn Thr Ser 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 Ala Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp
100 105 110

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

<210> 34
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR1 -Focalización sdAbs - alfa-B7H3 hF12

<400> 34

Pro Arg Thr Phe Ser Thr Tyr Ser Met Ala
1 5 10

<210> 35
<211> 17
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR2 -Focalización sdAbs - alfa-B7H3 hF12

<400> 35

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

Gly

<210> 36
<211> 13
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR3 -Focalización sdAbs - alfa-B7H3 hF12

<400> 36

Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr
1 5 10

<210> 37
<211> 122
<212> PRT

<213> Secuencia Artificial

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<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - alfa-EpCAM h13

<400> 37

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
100 105 110

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

<210> 38
<211> 12
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR1 -Focalización sdAbs - alfa-EpCAM h13

<400> 38

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

<210> 39
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR2 -Focalización sdAbs - alfa-EpCAM h13

<400> 39

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

<210> 40
<211> 12
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR3 -Focalización sdAbs - alfa-EpCAM h13

<400> 40

Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr
1 5 10

<210> 41
<211> 122
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético-Focalización sdAbs - alfa-EpCAM h23

<400> 41

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
100 105 110

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

<210> 42
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR1 -Focalización sdAbs - alfa-EpCAM h23

<400> 42

Gly Ser Phe Ser Ala Leu Trp Ala Met Arg
1 5 10

<210> 43
<211> 15
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR2 -Focalización sdAbs - alfa-EpCAM h23

<400> 43

Ser Ser Arg Gly Gly Thr Thr Ser Tyr Ala Asp Ser Val Lys Gly
1 5 10 15

<210> 44
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético sdCDR3 -Focalización sdAbs - alfa-EpCAM h23

<400> 44

Ile Asp Gly His Leu Ala Tyr
1 5

<210> 45
<211> 115
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<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético- alfa-HSA dominio de extensión de vida media

<400> 45

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

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

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

Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val
50 55 60

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

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

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 46
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> SintéticosdCDR1 - alfa-HSA dominio de extensión de vida media

<400> 46

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

<210> 47
<211> 17
<212> PRT
<213> Secuencia Artificial

<220>
<223> SintéticosdCDR2 - alfa-HSA dominio de extensión de vida media

<400> 47

Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys
1   5   10   15

Gly

<210> 48
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> SintéticosdCDR3 - alfa-HSA dominio de extensión de vida media

<400> 48

Gly Gly Ser Leu Ser Val
1   5

<210> 49
<211> 109
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético- alfa-CD3 scFv -
       Dominio alfa-CD3V(L)

<400> 49

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

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

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

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

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

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

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

<210> 50
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<213> Secuencia Artificial

<220>
<223> SintéticoaVLCDR1 - alfa CD3 scFV Dominio - alfa-CD3 V(L)

<400> 50

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

<210> 51
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético aVLsdCDR2 - alfa CD3 scFV Dominio - alfa-CD3 V(L)

<400> 51

Gly Thr Lys Phe Leu Val Pro
1   5

<210> 52
<211> 9
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético aVLsdCDR3 - alfa CD3 scFV Dominio - alfa-CD3 V(L)

<400> 52

Thr Leu Trp Tyr Ser Asn Arg Trp Val
1 5

<210> 53
<211> 110
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético- alfa-CD3 scFv Dominio - alfa-CD3V(Li)

<400> 53

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

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

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

Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg
50 55 60

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

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

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

<210> 54

<211> 14
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético iVLCDR1 - alfa CD3 scFV Dominio - alfa-CD3 V(Li)

<400> 54

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

<210> 55
<211> 8
<212> PRT
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<220>
<223> Sintético iVLsdCDR2 - alfa CD3 scFV Dominio - alfa-CD3 V(Li)

<400> 55

Asp Tyr Lys Asp Asp Asp Asp Lys
1 5

<210> 56
<211> 9
<212> PRT
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<220>
<223> Sintético iVLsdCDR3 - alfa CD3 scFV Dominio - alfa-CD3 V(Li)

<400> 56

Val Leu Trp Tyr Ser Asn Arg Trp Val
1 5

<210> 57
<211> 109
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético- alfa-CD3 scFv Dominio - alfa-CD3V(Li2)

<400> 57

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

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


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


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


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


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


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


<210>  58
<211>  14
<212>  PRT
<213>  Secuencia Artificial

<220>
<223>  Sintético iVLCDR1 - alfa CD3 scFV Dominio - alfa-CD3 V(Li2)

<400>  58

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


<210>  59
<211>  7
<212>  PRT
<213>  Secuencia Artificial

<220>
<223>  Sintético iVLCDR2 - alfa CD3 scFV Dominio - alfa-CD3 V(Li2)

<400>  59

Gly Thr Lys Asp Asp Ala Pro
1               5
```

<210> 60
<211> 9
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético iVLCDR3 - alfa CD3 scFV Dominio - alfa-CD3 V(Li2)

<400> 60

Val Leu Trp Tyr Ser Asn Arg Trp Val
1 5

<210> 61
<211> 125
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético- alfa-CD3 scFv Dominio - alfa-CD3V(H)

<400> 61

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

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

Ala Ile 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

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

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

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

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

115 120 125

<210> 62
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético aVHCDR1 - alfa CD3 scFV Dominio - alfa-CD3 V(H)

<400> 62

Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
1 5 10

<210> 63
<211> 19
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético aVHsdCDR2 - alfa CD3 scFV Dominio - alfa-CD3 V(H)

<400> 63

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

Val Lys Asp

<210> 64
<211> 14
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético aVHsdCDR3 - alfa CD3 scFV Dominio - alfa-CD3 V(H)

<400> 64

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

<210> 65
<211> 126
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético- alfa-CD3 scFv Dominio - alfa-CD3V(Hi)

<400> 65

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

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys 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 Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    50   55   60

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

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

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

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

<210> 66
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético iVHsdCDR1 - alfa CD3 scFV Dominio - alfa-CD3 V(Hi)

<400> 66

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

<210> 67
<211> 20

<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético iVHsdCDR2 - alfa CD3 scFV Dominio - alfa-CD3 V(Hi)

<400> 67

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

Ser Val Lys Asp
            20

<210> 68
<211> 14
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético iVHsdCDR3 - alfa CD3 scFV Dominio - alfa-CD3 V(Hi)

<400> 68

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

<210> 69
<211> 125
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético- alfa-CD3 scFv Dominio -
alfa-CD3V(Hi2)

<400> 69

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

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys His
            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 Ala Tyr Ala Asp

50 55 60

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

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

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

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

<210> 70
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético iVHsdCDR1 - alfa CD3 scFV Dominio - alfa-CD3 V(Hi2)

<400> 70

Gly Phe Thr Phe Asn Lys His Ala Met Asn
1 5 10

<210> 71
<211> 19
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético iVHsdCDR2 - alfa CD3 scFV Dominio - alfa-CD3 V(Hi2)

<400> 71

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

Val Lys Asp

<210> 72
<211> 14
<212> PRT

<213> Secuencia Artificial

<220>
<223> Sintético iVHsdCDR3 - alfa CD3 scFV Dominio - alfa-CD3 V(Hi2)

<400> 72

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

<210> 73
<211> 15
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Sintético - alfa-CD3 scFV - Nomal, no-plegable

<400> 73

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1   5   10   15

<210> 74
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Sintético - alfa-CD3 scFV - Restringido

<400> 74

Gly Gly Gly Ser Gly Gly Gly Ser
1   5

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

<220>
<223> Vinculado Plegable Sintético - MMP 2/9

<400> 75

Gly Pro Ala Gly Met Lys Gly Leu
1   5

<210> 76

<211> 15
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - MMP 2/9

<400> 76

Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser
1 5 10 15

<210> 77
<211> 17
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - MMP 2/9

<400> 77

Ser Gly Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Gly
1 5 10 15

Ser

<210> 78
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Meprina A/B

<400> 78

Gly Gly Gly Gly Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser
1 5 10 15

<210> 79
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Meprina A/B

<400> 79

Lys Lys Leu Ala Asp Glu Pro Glu
1 5

<210> 80
<211> 13
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Meprina A/B (Variante, alta eficiencia)

<400> 80

Gly Gly Gly Lys Phe Leu Ala Asp Glu Pro Glu Gly Gly
1 5 10

<210> 81
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Catepsina S,K,L

<400> 81

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

<210> 82
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Catepsina S,K,L

<400> 82

Ala Arg Leu Gln Ser Ala Ala Pro
1 5

<210> 83
<211> 18
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Meprina/Grancima B

<400> 83

Ser Gly Gly Gly Gly Val Tyr Ala Asp Ser Leu Glu Asp Gly Gly Gly
1 5 10 15

Gly Ser

<210> 84
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Meprina/Grancima B

<400> 84

Gly Val Tyr Ala Asp Ser Leu Glu Asp Gly
1 5 10

<210> 85
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Matriptasa/apu (MS)

<400> 85

Gly Gly Gly Ser Leu Ser Gly Arg Ser Asp Asn His Gly Gly Gly Ser
1 5 10 15

<210> 86
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Matriptasa/apu (MS)

<400> 86

Gly Leu Ser Gly Arg Ser Asp Asn His Gly
1 5 10

<210> 87

<211> 17
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Matriptasa (MV)

<400> 87

Ser Gly Gly Gly Ser Phe Thr Arg Gln Ala Arg Val Val Gly Gly Gly
1 5 10 15

Ser

<210> 88
<211> 9
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Matriptasa (MV)

<400> 88

Ser Phe Thr Arg Gln Ala Arg Val Val
1 5

<210> 89
<211> 14
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Catepsina S/MMP9/Meprina A

<400> 89

Ala Arg Leu Gln Ser Ala Ala Pro Ala Gly Leu Lys Gly Ala
1 5 10

<210> 90
<211> 13
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - MMP9 (Variante, alta eficiencia)

<400> 90

Gly Gly Pro Gly Pro Ala Gly Met His Gly Leu Pro Gly
1 5 10

<210> 91
<211> 13
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - MMP9 (Variante, baja eficiencia)

<400> 91

Gly Gly Pro Gly Pro Ala Gly Met Glu Gly Leu Pro Gly
1 5 10

<210> 92
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Trombina 1

<400> 92

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

<210> 93
<211> 15
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Trombina 2

<400> 93

Ser Ser Gly Gly Gly Met Pro Arg Ser Phe Arg Gly Gly Gly Ser
1 5 10 15

<210> 94
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - Enteropeptidasa/Banderín

<400> 94

Gly Gly Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Ser
1 5 10 15

<210> 95
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - KLK7-6

<400> 95

Ser Gly Gly Gly Gln Asn Pro Tyr Ser Ala Gly Arg Gly Gly Gly Ser
1 5 10 15

<210> 96
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - KLK7-13

<400> 96

Ser Gly Gly Gly Gln Asn Pro Tyr Ser Ala Gly Gly Gly Ser Gly Gly
1 5 10 15

<210> 97
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - KLK7-11

<400> 97

Ser Gly Gly Gly Arg Asn Val Tyr Ser Ala Gly Gly Gly Ser Gly Gly
1 5 10 15

<210> 98
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - KLK7-10

<400> 98

Ser Gly Gly Gly Gln Asn Thr Trp Ser Ala Gly Lys Gly Gly Gly Ser
1   5   10   15

<210> 99
<211> 16
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - apu

<400> 99

Gly Gly Gly Ser His Thr Gly Arg Ser Ala Tyr Phe Gly Gly Gly Ser
1   5   10   15

<210> 100
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP7

<400> 100

Lys Arg Ala Leu Gly Leu Pro Gly
1   5

<210> 101
<211> 24
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP7

<220>
<221> características_diversas
<222> (1)..(8)
<223> X puede ser Asp o Glu

<220>
<221> características_diversas
<222> (17)..(24)

<223> X puede ser Asp o Arg

<400> 101

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Pro Leu Ala Leu Trp Arg Ser
1   5   10   15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
            20

<210> 102
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP9

<400> 102

Pro Arg Ser Thr Leu Ile Ser Thr
1   5

<210> 103
<211> 5
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP9

<400> 103

Leu Glu Ala Thr Ala
1   5

<210> 104
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP11

<400> 104

Gly Gly Ala Ala Asn Leu Val Arg Gly Gly
1   5   10

<210> 105
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP14

<400> 105

Ser Gly Arg Ile Gly Phe Leu Arg Thr Ala
1 5 10

<210> 106
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP

<400> 106

Pro Leu Gly Leu Ala Gly
1 5

<210> 107
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP

<220>
<221> características_diversas
<222> (6)..(6)
<223> Xaa puede ser cualquier aminoácido que se produce de forma natural

<400> 107

Pro Leu Gly Leu Ala Xaa
1 5

<210> 108
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>

<223> Sitio de escisión de peptidasa sintética - MMP

<220>
<221> características_diversas
<222> (5)..(5)
<223> X puede ser Met o Glu

<400> 108

Pro Leu Gly Cys Xaa Ala Gly
1   5

<210> 109
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP

<400> 109

Glu Ser Pro Ala Tyr Tyr Thr Ala
1   5

<210> 110
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP

<400> 110

Arg Leu Gln Leu Lys Leu
1   5

<210> 111
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP

<400> 111

Arg Leu Gln Leu Lys Ala Cys
1   5

<210> 112
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - MMP2, MMP9, MMP14

<220>
<221> características_diversas
<222> (1)..(3)
<223> X puede ser Cys o Ile o Thr

<220>
<221> características_diversas
<222> (5)..(5)
<223> X puede ser His o On o Phe

<400> 112

Glu Pro Xaa Gly Xaa Tyr Leu
1 5

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

<220>
<223> Sitio de escisión de peptidasa sintética - Activador del Plasminaógeno tipo uroquinasa(apu)

<400> 113

Ser Gly Arg Ser Ala
1 5

<210> 114
<211> 4
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Activador del Plasminaógeno tipo uroquinasa (apu)

<400> 114

Asp Ala Phe Lys

1

<210> 115
<211> 5
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Activador del Plasminaógeno tipo uroquinasa (apu)

<400> 115

Gly Gly Gly Arg Arg
1 5

<210> 116
<211> 4
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética – Enzima Lisosomal

<400> 116

Gly Phe Leu Gly
1

<210> 117
<211> 4
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Enzima Lisosomal

<400> 117

Ala Leu Ala Leu
1

<210> 118
<211> 2
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Enzima Lisosomal

<400> 118

Phe Lys
1

<210> 119
<211> 3
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética – Catepsina B

<400> 119

Asn Leu Leu
1

<210> 120
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética – Catepsina D

<220>
<221> características_diversas
<222> (4)..(4)
<223> X puede ser Glu o Thr

<400> 120

Pro Ile Cys Xaa Phe Phe
1 5

<210> 121
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética – Catepsina K

<400> 121

Gly Gly Pro Arg Gly Leu Pro Gly
1 5

<210> 122
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Antígeno prostático específico

<400> 122

His Ser Ser Lys Leu Gln
1 5

<210> 123
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Antígeno prostático específico

<400> 123

His Ser Ser Lys Leu Gln Leu
1 5

<210> 124
<211> 9
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Antígeno prostático específico

<400> 124

His Ser Ser Lys Leu Gln Glu Asp Ala
1 5

<210> 125
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Proteasa del virus del herpes simple

<400> 125

Leu Val Leu Ala Ser Ser Ser Phe Gly Tyr
1 5 10

<210> 126
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Proteasa Hiv

<400> 126

Gly Val Ser Gln Asn Tyr Pro Ile Val Gly
1 5 10

<210> 127
<211> 10
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Proteasa Cmv

<400> 127

Gly Val Val Gln Ala Ser Cys Arg Leu Ala
1 5 10

<210> 128
<211> 4
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Trombina

<220>
<221> características_diversas
<222> (2)..(2)
<223> X puede ser Pro o Ile o Pro

<400> 128

Phe Xaa Arg Ser
1

<210> 129
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Trombina

<400> 129

Asp Pro Arg Ser Phe Leu
1   5

<210> 130
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Trombina

<400> 130

Pro Pro Arg Ser Phe Leu
1   5

<210> 131
<211> 4
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Caspasa-3

<400> 131

Asp Glu Val Asp
1

<210> 132
<211> 5
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Caspasa-3

<400> 132

Asp Glu Val Asp Pro
1   5

<210> 133
<211> 8
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Caspasa-3

<400> 133

Lys Gly Ser Gly Asp Val Glu Gly
1 5

<210> 134
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Enzima de conversión de interleucina 1-beta

<400> 134

Gly Trp Glu His Asp Gly
1 5

<210> 135
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Enteropeptidasa

<400> 135

Glu Asp Asp Asp Asp Lys Ala
1 5

<210> 136
<211> 9
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Fap

<400> 136

Lys Gln Glu Gln Asn Pro Gly Ser Thr
1 5

<210> 137
<211> 6
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Calicreína 2

<400> 137

Gly Lys Ala Phe Arg Arg
1 5

<210> 138
<211> 4
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Plasmina

<400> 138

Asp Ala Phe Lys
1

<210> 139
<211> 4
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Plasmina

<400> 139

Asp Val Leu Lys
1

<210> 140
<211> 4
<212> PRT
<213> Secuencia Artificial

<220>

<223> Sitio de escisión de peptidasa sintética - Plasmina

<400> 140

Asp Ala Phe Lys
1

<210> 141
<211> 7
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sitio de escisión de peptidasa sintética - Cresta

<400> 141

Ala Leu Leu Leu Ala Leu Leu
1   5

<210> 142
<211> 121
<212> PRT
<213> Secuencia Artificial

<220>
<223> Dominio de Unión de Antígeno Sintético- alfa-HSA extensión de dominio de media vida

<400> 142

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

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

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

Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val
    50   55   60

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

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

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser His His His His His His
115 120

<210> 143
<211> 889
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro140 Formato1

<400> 143

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

```
Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Pro Ala Gly Met Lys Gly Leu Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350
```

```
Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560
```

```
Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
               565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
               645                 650                 655

Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685

Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700

Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
               725                 730                 735

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            740                 745                 750

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        755                 760                 765

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    770                 775                 780
```

```
Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785                 790                 795                 800


Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
                805                 810                 815


Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
            820                 825                 830


Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        835                 840                 845


Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
    850                 855                 860


Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865                 870                 875                 880


Gln Gly Thr Leu Val Thr Val Ser Ser
                885


<210>  144
<211>  890
<212>  PRT
<213>  Secuencia Artificial

<220>
<223>  Sintético constructor - Pro140b Formato 1

<400>  144

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15


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


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


Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60
```

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Lys Lys Leu Ala Asp Glu Pro Glu Gln Thr Val Val Thr Gln Glu
            260                 265                 270
```

```
Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495
```

```
Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys
            500                 505                 510

Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700
```

```
Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser
                885                 890
```

<210> 145
<211> 889
<212> PRT
<213> Secuencia Artificial

<220>

<223> Sintético constructor - Pro186 Formato2

<400> 145

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15


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


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


Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60


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


Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95


Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110


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


Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140


Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160


Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175


Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190


Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205
```

```
Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415
```

```
Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640
```

```
Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
                645                 650                 655

Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685

Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700

Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                725                 730                 735

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            740                 745                 750

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        755                 760                 765

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    770                 775                 780

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785                 790                 795                 800

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
                805                 810                 815

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
            820                 825                 830

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        835                 840                 845
```

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
    850   855   860

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865   870   875   880

Gln Gly Thr Leu Val Thr Val Ser Ser
                885

<210> 146
<211> 890
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro187 Formato 2

<400> 146

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1   5   10   15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50   55   60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85   90   95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100   105   110

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

```
Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350
```

```
Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys
            500                 505                 510

Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560
```

```
Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780
```

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785 790 795 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
805 810 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
820 825 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
835 840 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
850 855 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865 870 875 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser
885 890

<210> 147
<211> 895
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro225 (FL aB7H3 hF7 MMP9 enlazador) Formato 2

<400> 147

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

Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
20 25 30

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

Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270
```

```
Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr His Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Val
            420                 425                 430

Ile Asn Trp Ser Gly Gly Ser Thr Val Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp Tyr Trp
                485                 490                 495
```

```
Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
                645                 650                 655

Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685

Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700
```

```
Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                725                 730                 735

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            740                 745                 750

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        755                 760                 765

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    770                 775                 780

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785                 790                 795                 800

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
                805                 810                 815

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
            820                 825                 830

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        835                 840                 845

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
    850                 855                 860

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865                 870                 875                 880

Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 148
<211> 891
<212> PRT
<213> Secuencia Artificial

<220>

<223> Sintético constructor - Pro226 (FL aB7H3 hF12 MMP9 enlazador) Formato 2

<400> 148

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


Ser Leu Arg Leu Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr
            20                  25                  30


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


Ala Ala Ile Asn Trp Ser Gly Gly Asn Thr Ser 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 Ala Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp
            100                 105                 110


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


Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140


Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160


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


Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190


Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205
```

```
Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    290                 295                 300

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu
    370                 375                 380

Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
385                 390                 395                 400

Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr Ser Met Ala Trp
                405                 410                 415
```

```
Phe Arg Gln Ala Pro Gly Lys Glu Arg Ser Phe Val Ala Ala Ile Asn
            420                 425                 430

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

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
    450                 455                 460

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Gly Gly
465                 470                 475                 480

Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr
                485                 490                 495

Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys
            500                 505                 510

Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr
        515                 520                 525

Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly
    530                 535                 540

Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly
545                 550                 555                 560

Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys
                565                 570                 575

Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala
            580                 585                 590

Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys
        595                 600                 605

Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu
    610                 615                 620

Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
625                 630                 635                 640
```

```
Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
               645                 650                 655

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val
            660                 665                 670

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
        675                 680                 685

Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp
    690                 695                 700

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
705                 710                 715                 720

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
               725                 730                 735

His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
            740                 745                 750

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
        755                 760                 765

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    770                 775                 780

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
785                 790                 795                 800

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
               805                 810                 815

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
            820                 825                 830

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
        835                 840                 845
```

```
Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
    850                 855                 860

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
865                 870                 875                 880

Val Thr Val Ser Ser His His His His His His
                885                 890
```

<210> 149
<211> 895
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro233 (Pro186 humanizado) Formato 2

<400> 149

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

```
Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350
```

```
Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560
```

```
Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
               565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
               645                 650                 655

Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685

Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700

Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
               725                 730                 735

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            740                 745                 750

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        755                 760                 765

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    770                 775                 780
```

```
Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785                 790                 795                 800


Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
                805                 810                 815


Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
            820                 825                 830


Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        835                 840                 845


Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
    850                 855                 860


Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865                 870                 875                 880


Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895


<210>  150
<211>  875
<212>  PRT
<213>  Secuencia Artificial

<220>
<223>  Sintético constructor - Pro311 (FL aFOLR1 h77.2 MMP9 enlazador) Formato
2

<400>  150

Gln 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 Val Ser Asn Ser
            20                  25                  30


Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
        35                  40                  45


Ala Ile Ile Asn Ser Ile Gly Ile Thr Asn Tyr Ala Asp Ser Val Lys
```

```
    50                  55                  60

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

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

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
    130                 135                 140

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
145                 150                 155                 160

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
                165                 170                 175

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
            180                 185                 190

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

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
    210                 215                 220

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                245                 250                 255

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            260                 265                 270
```

```
Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        275                 280                 285

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    290                 295                 300

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
305                 310                 315                 320

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
                325                 330                 335

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
            340                 345                 350

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
        355                 360                 365

Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    370                 375                 380

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
385                 390                 395                 400

Val Ser Asn Ser Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu
                405                 410                 415

Arg Glu Phe Val Ala Ile Ile Asn Ser Ile Gly Ile Thr Asn Tyr Ala
            420                 425                 430

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
        435                 440                 445

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
    450                 455                 460

Tyr Val Cys Asn Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr
465                 470                 475                 480

Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys
```

```
                485                 490                 495

Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr
            500                 505                 510

Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly
        515                 520                 525

Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly
    530                 535                 540

Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys
545                 550                 555                 560

Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala
                565                 570                 575

Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys
            580                 585                 590

Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu
        595                 600                 605

Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
    610                 615                 620

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
625                 630                 635                 640

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val
                645                 650                 655

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
            660                 665                 670

Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp
        675                 680                 685

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
    690                 695                 700
```

```
Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
705                 710                 715                 720


His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
                725                 730                 735


Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
            740                 745                 750


Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
        755                 760                 765


Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
    770                 775                 780


Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
785                 790                 795                 800


Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
                805                 810                 815


Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
            820                 825                 830


Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
        835                 840                 845


Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
    850                 855                 860


Val Thr Val Ser Ser His His His His His His
865                 870                 875
```

<210> 151
<211> 873
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro312 (FL aFOLR1 h59.3 MMP9 enlazador)

<400> 151

```
Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
            20                  25                  30

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

Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

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

His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
            100                 105                 110

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

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

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

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

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
            180                 185                 190

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

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
```

```
    210                 215                 220

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

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr
                245                 250                 255

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
            260                 265                 270

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
        275                 280                 285

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
    290                 295                 300

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
305                 310                 315                 320

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
                325                 330                 335

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
            340                 345                 350

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly
        355                 360                 365

Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    370                 375                 380

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Asn Thr Phe
385                 390                 395                 400

Ser Ile Ser Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg
                405                 410                 415

Glu Trp Val Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp
            420                 425                 430
```

```
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
        435                 440                 445

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
    450                 455                 460

Tyr Cys Lys His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val
465                 470                 475                 480

Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu
                485                 490                 495

Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser
            500                 505                 510

Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val
        515                 520                 525

Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala
    530                 535                 540

Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr
545                 550                 555                 560

Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr
                565                 570                 575

Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu
            580                 585                 590

Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val
        595                 600                 605

Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
    610                 615                 620

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
625                 630                 635                 640

Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln
```

```
                645                 650                 655

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
            660                 665                 670

Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe
        675                 680                 685

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn
    690                 695                 700

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
705                 710                 715                 720

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
                725                 730                 735

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
            740                 745                 750

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
        755                 760                 765

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
    770                 775                 780

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
785                 790                 795                 800

Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val
                805                 810                 815

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr
            820                 825                 830

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
        835                 840                 845

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
    850                 855                 860
```

Val Ser Ser His His His His His His
865 870

<210> 152
<211> 881
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro313 (FL aFOLR1 h22.4 MMP9 enlazador) Formato 2

<400> 152

Gln 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 Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
20 25 30

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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Leu
100 105 110

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

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
130 135 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145 150 155 160

```
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
            260                 265                 270

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
        275                 280                 285

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
    290                 295                 300

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
305                 310                 315                 320

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
                325                 330                 335

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
            340                 345                 350

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
        355                 360                 365
```

```
Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Glu Ala Ser
385                 390                 395                 400

Gly Thr Thr Phe Ser Arg Asp Val Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415

Gly Lys Gln Arg Glu Leu Val Ala Ile Ile Ser Arg Gly Gly Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Asn Ala Asn Thr Ala Thr Trp Gly Arg Val
465                 470                 475                 480

Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro
                485                 490                 495

Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr
            500                 505                 510

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
        515                 520                 525

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
    530                 535                 540

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr
545                 550                 555                 560

Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                565                 570                 575

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            580                 585                 590
```

```
Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
        595                 600                 605

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    610                 615                 620

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
625                 630                 635                 640

Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
                645                 650                 655

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
            660                 665                 670

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
        675                 680                 685

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
    690                 695                 700

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
705                 710                 715                 720

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
                725                 730                 735

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
            740                 745                 750

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
        755                 760                 765

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
    770                 775                 780

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
785                 790                 795                 800
```

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
805 810 815

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
820 825 830

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
835 840 845

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
850 855 860

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
865 870 875 880

His

<210> 153
<211> 898
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro246 (FL haEGFR1/haEGFR2 heterólogo de COBRA con MMP9 enlazador)

<400> 153

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 Arg Thr Phe Ser Ser Tyr
20 25 30

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

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

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

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

Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr
            100                 105                 110

Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
        115                 120                 125

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    130                 135                 140

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
145                 150                 155                 160

Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro
                165                 170                 175

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn
            180                 185                 190

Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser
        195                 200                 205

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
    210                 215                 220

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly
225                 230                 235                 240

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
                245                 250                 255

Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val
            260                 265                 270

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        275                 280                 285

Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
```

```
    290                 295                 300

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
305                 310                 315                 320

Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                325                 330                 335

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            340                 345                 350

Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe
        355                 360                 365

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    370                 375                 380

Ser Gln Val Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly
385                 390                 395                 400

Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser
                405                 410                 415

Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
            420                 425                 430

Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser
        435                 440                 445

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu
    450                 455                 460

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr
465                 470                 475                 480

Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr
                485                 490                 495

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly
            500                 505                 510
```

```
Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val
        515                 520                 525

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
    530                 535                 540

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
545                 550                 555                 560

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
                565                 570                 575

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
            580                 585                 590

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
        595                 600                 605

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
    610                 615                 620

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
                645                 650                 655

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
            660                 665                 670

Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
        675                 680                 685

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp
    690                 695                 700

Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
705                 710                 715                 720

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
```

725 730 735

Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile
740 745 750

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
755 760 765

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
770 775 780

Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
785 790 795 800

Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln
805 810 815

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
820 825 830

Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
835 840 845

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
850 855 860

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
865 870 875 880

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His
885 890 895

His His

<210> 154
<211> 893
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro256 (FL haEpCAM VIB13/haEGFR1

heterólogo de COBRA MMP9 enlazador)

<400> 154

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


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
            20                  25                  30


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


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


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


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


Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110


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


Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140


Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160


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


Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190


Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205
```

```
Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    290                 295                 300

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Lys Leu
    370                 375                 380

Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu Thr Leu
385                 390                 395                 400

Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met Gly Trp
                405                 410                 415
```

```
Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly Ile Ser
            420                 425                 430

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

Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln Met Asn
    450                 455                 460

Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala Ala Ala
465                 470                 475                 480

Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly
            500                 505                 510

Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
        515                 520                 525

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
    530                 535                 540

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
545                 550                 555                 560

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp
                565                 570                 575

Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
625                 630                 635                 640
```

```
Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
                645                 650                 655

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn
            660                 665                 670

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
        675                 680                 685

Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val
    690                 695                 700

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
705                 710                 715                 720

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
                725                 730                 735

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
            740                 745                 750

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        755                 760                 765

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    770                 775                 780

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
785                 790                 795                 800

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                805                 810                 815

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
            820                 825                 830

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
        835                 840                 845
```

```
Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
    850                 855                 860

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
865                 870                 875                 880

Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890
```

<210> 155
<211> 885
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro420 (FL aFOLR1 h77.2/haEGFR1 heterólogo de COBRA MMP9 enlazador)

<400> 155

```
Gln 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 Val Ser Asn Ser
            20                  25                  30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
        35                  40                  45

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

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

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

```
Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
    130                 135                 140

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
145                 150                 155                 160

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
                165                 170                 175

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
            180                 185                 190

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

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
    210                 215                 220

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                245                 250                 255

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            260                 265                 270

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        275                 280                 285

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    290                 295                 300

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
305                 310                 315                 320

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
                325                 330                 335

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
```

```
            340                 345                 350

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
        355                 360                 365

Gly Gly Gly Ser Gln Val Lys Leu Val Glu Ser Gly Gly Gly Val Val
    370                 375                 380

Arg Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr
385                 390                 395                 400

Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
                405                 410                 415

Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr
            420                 425                 430

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
        435                 440                 445

Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
    450                 455                 460

Leu Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu
465                 470                 475                 480

Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                485                 490                 495

Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln
            500                 505                 510

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
        515                 520                 525

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
    530                 535                 540

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
545                 550                 555                 560
```

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
565 570 575

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
580 585 590

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
595 600 605

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
610 615 620

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
625 630 635 640

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
645 650 655

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
660 665 670

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
675 680 685

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
690 695 700

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
705 710 715 720

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
725 730 735

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
740 745 750

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
755 760 765

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu

770 775 780

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
785 790 795 800

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
805 810 815

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe
820 825 830

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
835 840 845

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
850 855 860

Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His
865 870 875 880

His His His His His
885

<210> 156
<211> 885
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro421 (FL haEGFR1/aFOLR1 h77.2 heterólogo de COBRA MMP9 enlazador)

<400> 156

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

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

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

```
Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270
```

```
Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Asn Ser Val Met
                405                 410                 415

Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val Ala Ile
            420                 425                 430

Ile Asn Ser Ile Gly Ile Thr Asn Tyr Ala Asp Ser Val Lys Gly Arg
        435                 440                 445

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
    450                 455                 460

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Val Cys Asn Arg Asn
465                 470                 475                 480
```

```
Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                485                 490                 495

Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln
            500                 505                 510

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
        515                 520                 525

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
    530                 535                 540

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
545                 550                 555                 560

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
                565                 570                 575

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            580                 585                 590

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
        595                 600                 605

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
    610                 615                 620

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
625                 630                 635                 640

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
                645                 650                 655

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
            660                 665                 670

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
        675                 680                 685

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
    690                 695                 700
```

```
Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
705                 710                 715                 720

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
                725                 730                 735

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
            740                 745                 750

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
        755                 760                 765

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
    770                 775                 780

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
785                 790                 795                 800

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
                805                 810                 815

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe
            820                 825                 830

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
        835                 840                 845

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
    850                 855                 860

Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His
865                 870                 875                 880

His His His His His
                885
```

<210> 157
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro393 (Pro186 S9 enlazador)

<400> 157

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                  10                  15


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


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


Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60


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


Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95


Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110


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


Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140


Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160


Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175


Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190
```

```
Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415
```

```
Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Ala Arg Leu Gln Ser
            500                 505                 510

Ala Ala Pro Ala Gly Leu Lys Gly Ala Gly Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620
```

```
Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845
```

```
Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 158
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro394 (Pro186 ST14(MV) enlazador)

<400> 158

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125
```

```
Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335
```

```
Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Phe Thr
            500                 505                 510

Arg Gln Ala Arg Val Val Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560
```

```
Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
               565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765
```

```
Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 159
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro395 (Pro186 CathS enlazador)

<400> 159

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15

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

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45
```

```
Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270
```

```
Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480
```

```
Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Ala Arg
            500                 505                 510

Leu Gln Ser Ala Ala Pro Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700
```

```
Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 160
<211> 897
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro396 (Pro186 MMP9v enlazador)

<400> 160

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                  10                  15


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


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


Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60


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


Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95


Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110


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


Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140


Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160


Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175


Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190
```

```
Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415
```

```
Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Ser Gly Gly Pro Gly
            500                 505                 510

Pro Ala Gly Met His Gly Leu Pro Gly Gly Ser Gln Thr Val Val Thr
        515                 520                 525

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
    530                 535                 540

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
545                 550                 555                 560

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr
                565                 570                 575

Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
            580                 585                 590

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
        595                 600                 605

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
    610                 615                 620
```

```
Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                645                 650                 655

Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
            660                 665                 670

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
        675                 680                 685

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
    690                 695                 700

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
705                 710                 715                 720

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
                725                 730                 735

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
            740                 745                 750

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
        755                 760                 765

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
    770                 775                 780

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
785                 790                 795                 800

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
                805                 810                 815

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
            820                 825                 830

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
        835                 840                 845
```

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
    850   855   860

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
865   870   875   880

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
                885   890   895

His

<210> 161
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro429 (Pro186 Meprina/Grancima B enlazador)

<400> 161

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1   5   10   15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50   55   60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85   90   95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100   105   110

```
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320
```

```
Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Gly Val Tyr
            500                 505                 510

Ala Asp Ser Leu Glu Asp Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540
```

```
Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750
```

```
Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765


Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780


Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800


Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815


Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830


Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845


Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860


Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880


Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895


<210>  162
<211>  895
<212>  PRT
<213>  Secuencia Artificial

<220>
<223>  Sintético constructor - Pro430 (Pro186 MMP9-2 enlazador)

<400>  162

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15


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

```
Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255
```

```
Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460
```

```
Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Leu Lys Gly Ala Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
                645                 650                 655

Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685
```

```
Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700

Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                725                 730                 735

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            740                 745                 750

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        755                 760                 765

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    770                 775                 780

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785                 790                 795                 800

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
                805                 810                 815

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
            820                 825                 830

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        835                 840                 845

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
    850                 855                 860

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865                 870                 875                 880

Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 163
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro431 (Pro186 ST14(MS) enlazador)

<400> 163

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                  10                  15


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


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


Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60


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


Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95


Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110


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


Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140


Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160


Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175
```

```
Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly Ser Leu
385                 390                 395                 400
```

```
Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Leu Ser
            500                 505                 510

Gly Arg Ser Asp Asn His Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605
```

```
Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830
```

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
835 840 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
850 855 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865 870 875 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
885 890 895

<210> 164
<211> 763
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro258 (Pro186 con un único dominio aEGFR y un dominio aHSA central)

<400> 164

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp

```
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320
```

```
Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Ser Gly Gly Pro Gly Pro Ala Gly Met Lys
    370                 375                 380

Gly Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
385                 390                 395                 400

Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
                405                 410                 415

Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys
            420                 425                 430

Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu
        435                 440                 445

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
    450                 455                 460

Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
465                 470                 475                 480

Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
            500                 505                 510

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
        515                 520                 525

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser
```

```
    530                 535                 540

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
545                 550                 555                 560

Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala
                565                 570                 575

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
            580                 585                 590

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr
        595                 600                 605

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
    610                 615                 620

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
625                 630                 635                 640

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
                645                 650                 655

Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
            660                 665                 670

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr
        675                 680                 685

Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
    690                 695                 700

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
705                 710                 715                 720

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe
                725                 730                 735

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
            740                 745                 750
```

Val Thr Val Ser Ser His His His His His His
        755   760

<210> 165
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro221 - Enlazador Plegable Variante

<400> 165

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1   5   10   15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50   55   60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85   90   95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100   105   110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130   135   140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145   150   155   160

```
Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
```

```
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Gly Gln Asn
            500                 505                 510

Pro Tyr Ser Ala Gly Arg Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590
```

```
Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
```

805 810 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
820 825 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
835 840 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
850 855 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865 870 875 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
885 890 895

<210> 166
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro222 - enlazador Plegable Variante

<400> 166

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys

```
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300
```

```
Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Gly Gln Asn
            500                 505                 510

Pro Tyr Ser Ala Gly Gly Gly Ser Gly Gly Gln Thr Val Val Thr Gln
```

```
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735
```

```
Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 167
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro223 - enlazador Plegable Variante

<400> 167

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15
```

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
```

```
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445
```

```
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Gly Arg Asn
            500                 505                 510

Val Tyr Ser Ala Gly Gly Gly Ser Gly Gly Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
```

```
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880
```

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
885 890 895

<210> 168
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro224- enlazador Plegable Variante

<400> 168

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

```
Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
```

```
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Gly Gln Asn
            500                 505                 510

Thr Trp Ser Ala Gly Lys Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590
```

```
Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
```

805 810 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
820 825 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
835 840 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
850 855 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865 870 875 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
885 890 895

<210> 169
<211> 898
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro254- Heterólogo Formato 2

<400> 169

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

```
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300
```

```
Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Tyr Ala Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Val Ala
            420                 425                 430

Ile Asn Trp Ser Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr Glu Tyr
                485                 490                 495

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly
            500                 505                 510

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

```
        515                 520                 525

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
    530                 535                 540

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
545                 550                 555                 560

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
                565                 570                 575

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
            580                 585                 590

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
        595                 600                 605

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
    610                 615                 620

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
                645                 650                 655

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
            660                 665                 670

Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
        675                 680                 685

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp
    690                 695                 700

Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
705                 710                 715                 720

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
                725                 730                 735
```

```
Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile
            740                 745                 750

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        755                 760                 765

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
    770                 775                 780

Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
785                 790                 795                 800

Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln
                805                 810                 815

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
            820                 825                 830

Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
        835                 840                 845

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
    850                 855                 860

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
865                 870                 875                 880

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His
                885                 890                 895

His His
```

<210> 170
<211> 893
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro255- Heterólogo Formato 2

<400> 170

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
```

```
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430
```

```
Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly
            500                 505                 510

Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
        515                 520                 525

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
    530                 535                 540

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
545                 550                 555                 560

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp
                565                 570                 575

Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
625                 630                 635                 640

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
```

```
                645                 650                 655

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn
            660                 665                 670

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
        675                 680                 685

Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val
    690                 695                 700

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
705                 710                 715                 720

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
                725                 730                 735

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
            740                 745                 750

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        755                 760                 765

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    770                 775                 780

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
785                 790                 795                 800

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                805                 810                 815

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
            820                 825                 830

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
        835                 840                 845

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
    850                 855                 860
```

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
865 870 875 880

Thr Leu Val Thr Val Ser Ser His His His His His His
885 890

<210> 171
<211> 902
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro262

<400> 171

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

```
Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
```

```
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
    370                 375                 380

Ser Gly Gly Gly Ser Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser
385                 390                 395                 400

Val Gln Thr Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg
                405                 410                 415

Thr Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys
            420                 425                 430

Glu Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly
        435                 440                 445

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
    450                 455                 460

Lys Asn Thr Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr
465                 470                 475                 480

Ala Ile Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr
                485                 490                 495

Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
            500                 505                 510

Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser
        515                 520                 525

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
    530                 535                 540

Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly
545                 550                 555                 560

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
                565                 570                 575
```

```
Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg
            580                 585                 590

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
        595                 600                 605

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser
    610                 615                 620

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
625                 630                 635                 640

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
    770                 775                 780

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg
```

785 790 795 800

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser
805 810 815

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile
820 825 830

Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg
835 840 845

Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met
850 855 860

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly
865 870 875 880

Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
885 890 895

His His His His His His
900

<210> 172
<211> 766
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro356 – Formato 4

<400> 172

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 Arg Thr Phe Ser Ser Tyr
20 25 30

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

Val Ala Ile Asn Trp Ser Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val

```
    50                  55                  60

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

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

Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr
            100                 105                 110

Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
        115                 120                 125

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    130                 135                 140

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
145                 150                 155                 160

Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro
                165                 170                 175

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn
            180                 185                 190

Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser
        195                 200                 205

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
    210                 215                 220

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly
225                 230                 235                 240

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
                245                 250                 255

Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val
            260                 265                 270
```

```
Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        275                 280                 285

Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    290                 295                 300

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
305                 310                 315                 320

Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                325                 330                 335

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            340                 345                 350

Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe
        355                 360                 365

Gly Gly Gly Thr Lys Leu Thr Val Leu Ser Gly Gly Pro Gly Pro Ala
    370                 375                 380

Gly Met Lys Gly Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser Gly
385                 390                 395                 400

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
                405                 410                 415

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
            420                 425                 430

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
        435                 440                 445

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
    450                 455                 460

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
465                 470                 475                 480

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
```

```
                485                 490                 495

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
            500                 505                 510

Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
        515                 520                 525

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala
    530                 535                 540

Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln
545                 550                 555                 560

Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly
                565                 570                 575

Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu
            580                 585                 590

Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val
        595                 600                 605

Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr
    610                 615                 620

Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
625                 630                 635                 640

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
                645                 650                 655

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg
            660                 665                 670

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
        675                 680                 685

Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg
    690                 695                 700
```

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
705 710 715 720

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
725 730 735

Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
740 745 750

Gly Thr Leu Val Thr Val Ser Ser His His His His His His
755 760 765

<210> 173
<211> 763
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro359 – Formato 4

<400> 173

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

Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
20 25 30

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

Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
```

```
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Ser Gly Gly Pro Gly Pro Ala Gly Met Lys
    370                 375                 380

Gly Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
385                 390                 395                 400

Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
                405                 410                 415

Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys
            420                 425                 430

Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu
        435                 440                 445

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
    450                 455                 460

Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
465                 470                 475                 480

Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
            500                 505                 510

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
        515                 520                 525

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser
    530                 535                 540
```

```
Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
545                 550                 555                 560


Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala
                565                 570                 575


Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
            580                 585                 590


Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr
        595                 600                 605


Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
    610                 615                 620


Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
625                 630                 635                 640


Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
                645                 650                 655


Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
            660                 665                 670


Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr
        675                 680                 685


Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
    690                 695                 700


Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
705                 710                 715                 720


Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe
                725                 730                 735


Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
            740                 745                 750


Val Thr Val Ser Ser His His His His His His
```

755 760

<210> 174
<211> 752
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro364 – Formato 4

<400> 174

Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
20 25 30

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

Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

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

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

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

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr

```
                165                 170                 175

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
            180                 185                 190

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

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
    210                 215                 220

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

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr
                245                 250                 255

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
            260                 265                 270

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
        275                 280                 285

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
    290                 295                 300

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
305                 310                 315                 320

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
                325                 330                 335

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
            340                 345                 350

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ser Gly Gly Pro Gly
        355                 360                 365

Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Glu Val Gln Leu Val Glu
    370                 375                 380
```

```
Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys
385                 390                 395                 400


Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg
                405                 410                 415


Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser
            420                 425                 430


Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile
        435                 440                 445


Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu
    450                 455                 460


Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu
465                 470                 475                 480


Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
                485                 490                 495


Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu
            500                 505                 510


Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr
        515                 520                 525


Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro
    530                 535                 540


Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp
545                 550                 555                 560


Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                565                 570                 575


Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            580                 585                 590


Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
```

595 600 605

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
610 615 620

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
625 630 635 640

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp
645 650 655

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
660 665 670

Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys
675 680 685

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
690 695 700

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
705 710 715 720

Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
725 730 735

Gly Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
740 745 750

<210> 175
<211> 753
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro388 – Formato 4

<400> 175

Gln 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 Val Ser Asn Ser

```
            20                  25                  30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
        35                  40                  45

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

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

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

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
    130                 135                 140

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
145                 150                 155                 160

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
                165                 170                 175

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
            180                 185                 190

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

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
    210                 215                 220

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
225                 230                 235                 240
```

```
Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                245                 250                 255

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            260                 265                 270

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        275                 280                 285

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    290                 295                 300

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
305                 310                 315                 320

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
                325                 330                 335

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
            340                 345                 350

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ser Gly Gly Pro
        355                 360                 365

Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Glu Val Gln Leu Val
    370                 375                 380

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser
385                 390                 395                 400

Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val
                405                 410                 415

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly
            420                 425                 430

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

Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser
```

```
    450                 455                 460

Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser
465                 470                 475                 480

Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
                485                 490                 495

Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            500                 505                 510

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
        515                 520                 525

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    530                 535                 540

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp
545                 550                 555                 560

Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
                565                 570                 575

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
            580                 585                 590

Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
        595                 600                 605

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
    610                 615                 620

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
625                 630                 635                 640

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn
                645                 650                 655

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
            660                 665                 670
```

Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val
        675   680   685

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
    690   695   700

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
705   710   715   720

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
                725   730   735

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
            740   745   750

His

<210> 176
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro432- Heterólogo – Formato 2

<400> 176

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
            20   25   30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
```

```
    290                 295                 300

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    370                 375                 380

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
385                 390                 395                 400

Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Tyr Ala Met Gly Trp
                405                 410                 415

Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Val Ala Ile Asn
            420                 425                 430

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

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
    450                 455                 460

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Gly Tyr
465                 470                 475                 480

Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr Glu Tyr Asp Tyr
                485                 490                 495

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly
            500                 505                 510
```

```
Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
```

```
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895


<210>  177
<211>  636
<212>  PRT
<213>  Secuencia Artificial

<220>
<223>  Sintético constructor - Pro448- Focalización Dual Hemis Formato 3

<400>  177

Gln 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 Val Ser Asn Ser
            20                  25                  30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
        35                  40                  45

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

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

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

Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu Thr Leu Ser
    130                 135                 140

Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met Gly Trp Phe
145                 150                 155                 160

Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly Ile Ser Trp
                165                 170                 175

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

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

Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala Ala Ala Gly
    210                 215                 220
```

```
Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly
225                 230                 235                 240


Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
                245                 250                 255


Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
            260                 265                 270


Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
        275                 280                 285


Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
    290                 295                 300


Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
305                 310                 315                 320


Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
                325                 330                 335


Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
            340                 345                 350


Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
        355                 360                 365


Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly
    370                 375                 380


Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val
385                 390                 395                 400


Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
                405                 410                 415


Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
            420                 425                 430


Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
```

```
        435                 440                 445

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
    450                 455                 460

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
465                 470                 475                 480

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
                485                 490                 495

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly
            500                 505                 510

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
        515                 520                 525

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
    530                 535                 540

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
545                 550                 555                 560

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
                565                 570                 575

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
            580                 585                 590

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
        595                 600                 605

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
    610                 615                 620

Leu Val Thr Val Ser Ser His His His His His His
625                 630                 635
```

<210> 178
<211> 636
<212> PRT

<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro449 Focalización Dual Hemis Formato 3

<400> 178

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


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


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


Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60


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


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


Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110


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


Ser Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    130                 135                 140


Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
145                 150                 155                 160


Thr Val Ser Asn Ser Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn
                165                 170                 175


Glu Arg Glu Phe Val Ala Ile Ile Asn Ser Ile Gly Ile Thr Asn Tyr
            180                 185                 190
```

```
Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
        195                 200                 205

Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
    210                 215                 220

Val Tyr Val Cys Asn Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
                245                 250                 255

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
            260                 265                 270

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
        275                 280                 285

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
    290                 295                 300

Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp
305                 310                 315                 320

Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
                325                 330                 335

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
            340                 345                 350

Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
        355                 360                 365

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly
    370                 375                 380

Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val
385                 390                 395                 400

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

```
                405                 410                 415

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
            420                 425                 430

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
        435                 440                 445

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
    450                 455                 460

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
465                 470                 475                 480

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
                485                 490                 495

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly
            500                 505                 510

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
        515                 520                 525

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
    530                 535                 540

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
545                 550                 555                 560

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
                565                 570                 575

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
            580                 585                 590

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
        595                 600                 605

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
    610                 615                 620
```

Leu Val Thr Val Ser Ser His His His His His His
625 630 635

<210> 179
<211> 636
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro450 Focalización Dual Hemis Formato 3

<400> 179

Gln 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 Val Ser Asn Ser
20 25 30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
35 40 45

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

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

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

Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu Thr Leu Ser
130 135 140

Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met Gly Trp Phe
145 150 155 160

```
Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly Ile Ser Trp
                165                 170                 175

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

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

Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala Ala Ala Gly
    210                 215                 220

Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
                245                 250                 255

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
            260                 265                 270

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
        275                 280                 285

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
    290                 295                 300

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
305                 310                 315                 320

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
                325                 330                 335

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
            340                 345                 350

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ser Gly Gly
        355                 360                 365

Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Glu Val Gln Leu
```

```
    370                 375                 380

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

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp
                405                 410                 415

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
            420                 425                 430

Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys
        435                 440                 445

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
    450                 455                 460

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
465                 470                 475                 480

Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
            500                 505                 510

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
        515                 520                 525

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
    530                 535                 540

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
545                 550                 555                 560

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
                565                 570                 575

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
            580                 585                 590
```

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
595 600 605

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
610 615 620

Leu Val Thr Val Ser Ser His His His His His His
625 630 635

<210> 180
<211> 636
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro451 Focalización Dual Hemis Formato 3

<400> 180

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

```
Ser Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    130                 135                 140

Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
145                 150                 155                 160

Thr Val Ser Asn Ser Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn
                165                 170                 175

Glu Arg Glu Phe Val Ala Ile Ile Asn Ser Ile Gly Ile Thr Asn Tyr
            180                 185                 190

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys
        195                 200                 205

Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
    210                 215                 220

Val Tyr Val Cys Asn Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
                245                 250                 255

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
            260                 265                 270

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
        275                 280                 285

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
    290                 295                 300

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
305                 310                 315                 320

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
                325                 330                 335

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
```

```
            340                 345                 350

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Ser Gly Gly
        355                 360                 365

Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Glu Val Gln Leu
    370                 375                 380

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

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp
                405                 410                 415

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
            420                 425                 430

Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys
        435                 440                 445

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
    450                 455                 460

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
465                 470                 475                 480

Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
            500                 505                 510

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
        515                 520                 525

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
    530                 535                 540

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
545                 550                 555                 560
```

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
565 570 575

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
580 585 590

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
595 600 605

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
610 615 620

Leu Val Thr Val Ser Ser His His His His His His
625 630 635

<210> 181
<211> 893
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro479- Heterólogo – Formato 2

<400> 181

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

Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
20 25 30

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

Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
```

```
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr Ser Met
                405                 410                 415

Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Ser Phe Val Ala Ala
            420                 425                 430

Ile Asn Trp Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly
            500                 505                 510

Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
        515                 520                 525
```

```
Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
    530                 535                 540

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
545                 550                 555                 560

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp
                565                 570                 575

Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
625                 630                 635                 640

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
                645                 650                 655

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn
            660                 665                 670

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
        675                 680                 685

Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val
    690                 695                 700

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
705                 710                 715                 720

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
                725                 730                 735

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
```

```
            740                 745                 750

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        755                 760                 765

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    770                 775                 780

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
785                 790                 795                 800

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                805                 810                 815

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
            820                 825                 830

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
        835                 840                 845

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
    850                 855                 860

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
865                 870                 875                 880

Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890
```

<210> 182
<211> 893
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro480- Heterólogo – Formato 2

<400> 182

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr
```

```
            20                  25                  30

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

Ala Ala Ile Asn Trp Ser Gly Gly Asn Thr Ser 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 Ala Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240
```

```
Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    290                 295                 300

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu
    370                 375                 380

Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
385                 390                 395                 400

Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr His Met Gly Trp
                405                 410                 415

Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Val Ile Asn
            420                 425                 430

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

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
```

```
    450                 455                 460

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Gly Gly
465                 470                 475                 480

Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly
            500                 505                 510

Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
        515                 520                 525

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
    530                 535                 540

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
545                 550                 555                 560

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp
                565                 570                 575

Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
625                 630                 635                 640

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
                645                 650                 655

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn
            660                 665                 670
```

```
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
        675                 680                 685

Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val
    690                 695                 700

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
705                 710                 715                 720

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
                725                 730                 735

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
            740                 745                 750

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        755                 760                 765

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    770                 775                 780

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
785                 790                 795                 800

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                805                 810                 815

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
            820                 825                 830

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
        835                 840                 845

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
    850                 855                 860

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
865                 870                 875                 880

Thr Leu Val Thr Val Ser Ser His His His His His His
```

885 890

<210> 183
<211> 893
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro495 – Formato 2

<400> 183

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

Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
20 25 30

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

Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly

```
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380
```

```
Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400


Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr His Met
                405                 410                 415


Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Val
            420                 425                 430


Ile Asn Trp Ser Gly Gly Ser Thr Val Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445


Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
    450                 455                 460


Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
465                 470                 475                 480


Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp Tyr Trp
                485                 490                 495


Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510


Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525


Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540


Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560


Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Asp
                565                 570                 575


Asp Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590


Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
```

```
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
625                 630                 635                 640

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
                645                 650                 655

Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys His Ala Met
            660                 665                 670

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg
        675                 680                 685

Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Ala Tyr Ala Asp Ser Val
    690                 695                 700

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
705                 710                 715                 720

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
                725                 730                 735

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
            740                 745                 750

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        755                 760                 765

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    770                 775                 780

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
785                 790                 795                 800

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                805                 810                 815
```

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
820 825 830

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
835 840 845

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
850 855 860

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
865 870 875 880

Thr Leu Val Thr Val Ser Ser His His His His His His
885 890

<210> 184
<211> 15
<212> PRT
<213> Secuencia Artificial

<220>
<223> Vinculado Plegable Sintético - MMP9-2

<400> 184

Ser Gly Gly Pro Gly Pro Ala Gly Leu Lys Gly Ala Pro Gly Ser
1 5 10 15

<210> 185
<211> 887
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro141

<400> 185

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val

```
        35                  40                  45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255
```

```
Ser Gly Pro Ala Gly Met Lys Gly Leu Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
```

```
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Ser Asn
                565                 570                 575

Lys His Ser Trp Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Gly Ser Arg Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
625                 630                 635                 640

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
                645                 650                 655

Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Ser Ala Met
            660                 665                 670

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg
        675                 680                 685
```

```
Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Ala Tyr Ala Asp Ser Val
    690                 695                 700

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
705                 710                 715                 720

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
                725                 730                 735

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Thr Phe Trp Ala Tyr
            740                 745                 750

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        755                 760                 765

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    770                 775                 780

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
785                 790                 795                 800

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                805                 810                 815

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
            820                 825                 830

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
        835                 840                 845

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
    850                 855                 860

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
865                 870                 875                 880

Thr Leu Val Thr Val Ser Ser
                885
```

<210> 186

<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro160

<400> 186

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
165 170 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr

```
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Pro Ala Gly Met Lys Gly Leu Gly Gln Thr Val Val Thr
            260                 265                 270

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
        275                 280                 285

Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
    290                 295                 300

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr
305                 310                 315                 320

Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
                325                 330                 335

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
            340                 345                 350

Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
        355                 360                 365

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
    370                 375                 380

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
385                 390                 395                 400
```

```
Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
                405                 410                 415

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
            420                 425                 430

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
        435                 440                 445

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
    450                 455                 460

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
465                 470                 475                 480

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
                485                 490                 495

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro
            500                 505                 510

Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr
        515                 520                 525

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
    530                 535                 540

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp
545                 550                 555                 560

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr
                565                 570                 575

Ser Asn Lys His Ser Trp Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Gly Ser Arg Arg Trp Val Phe Gly
```

```
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
                645                 650                 655

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
            660                 665                 670

Ser Gly Phe Thr Phe Asn Lys Ser Ala Met Asn Trp Val Arg Gln Ala
        675                 680                 685

Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn
    690                 695                 700

Asn Tyr Ala Thr Ala Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
705                 710                 715                 720

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                725                 730                 735

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe
            740                 745                 750

Gly Asn Ser Tyr Ile Thr Phe Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        755                 760                 765

Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly
    770                 775                 780

Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
785                 790                 795                 800

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
                805                 810                 815

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
            820                 825                 830
```

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
835 840 845

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
850 855 860

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
865 870 875 880

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
885 890 895

Thr Leu Val Thr Val Ser Ser
900

<210> 187
<211> 899
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro161

<400> 187

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

```
Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Pro Ala Gly Met Lys Gly Leu Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
```

```
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly
            500                 505                 510

Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
        515                 520                 525
```

```
Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
    530                 535                 540

Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp Val Gln Gln Lys
545                 550                 555                 560

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Ser Asn Lys His
                565                 570                 575

Ser Trp Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
            580                 585                 590

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
        595                 600                 605

Cys Val Leu Trp Gly Ser Arg Arg Trp Val Phe Gly Gly Gly Thr Lys
    610                 615                 620

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
                645                 650                 655

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
            660                 665                 670

Phe Asn Lys Ser Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
        675                 680                 685

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
    690                 695                 700

Ala Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
705                 710                 715                 720

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
                725                 730                 735

Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr
```

```
            740                 745                 750

Ile Thr Phe Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
        755                 760                 765

Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser
    770                 775                 780

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
785                 790                 795                 800

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
                805                 810                 815

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
            820                 825                 830

Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val
        835                 840                 845

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr
    850                 855                 860

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
865                 870                 875                 880

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
                885                 890                 895

Val Ser Ser
```

<210> 188
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro162

<400> 188

```
Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
```

```
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
            20                  25                  30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220
```

```
Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Val Tyr Ala Asp Ser Leu Glu Asp Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
```

```
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Val Tyr Ala Asp
            500                 505                 510

Ser Leu Glu Asp Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Ser Asn Lys
                565                 570                 575

His Ser Trp Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Gly Ser Arg Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655
```

```
Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Ser Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
    690                 695                 700

Thr Ala Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
705                 710                 715                 720

Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
                725                 730                 735

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser
            740                 745                 750

Tyr Ile Thr Phe Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
        755                 760                 765

Ser Ser Gly Gly Gly Ser Val Tyr Ala Asp Ser Leu Glu Asp Gly Gly
    770                 775                 780

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
785                 790                 795                 800

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
                805                 810                 815

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
            820                 825                 830

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
        835                 840                 845

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
    850                 855                 860

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
```

865 870 875 880

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
885 890 895

Val Thr Val Ser Ser
900

<210> 189
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro189

<400> 189

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
100 105 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro

```
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Ala Arg Leu Gln Ser Ala Ala Pro Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350
```

```
Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Ala Arg Leu Gln
            500                 505                 510

Ser Ala Ala Pro Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Ser Asn Lys
```

```
                565                 570                 575

His Ser Trp Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Gly Ser Arg Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Ser Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
    690                 695                 700

Thr Ala Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
705                 710                 715                 720

Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
                725                 730                 735

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser
            740                 745                 750

Tyr Ile Thr Phe Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
        755                 760                 765

Ser Ser Gly Gly Gly Ser Ala Arg Leu Gln Ser Ala Ala Pro Gly Gly
    770                 775                 780
```

```
Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
785                 790                 795                 800


Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
                805                 810                 815


Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
            820                 825                 830


Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
        835                 840                 845


Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
    850                 855                 860


Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
865                 870                 875                 880


Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
                885                 890                 895


Val Thr Val Ser Ser
            900
```

<210> 190
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro164

<400> 190

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


Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
            20                  25                  30


Ile Asn Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu
        35                  40                  45
```

```
Leu Val Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser
    50                  55                  60

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Lys Lys Leu Ala Asp Glu Pro Glu Gly Gln Thr Val Val Thr Gln Glu
```

```
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480
```

```
Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys Leu Ala
            500                 505                 510

Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Ser Asn Lys
                565                 570                 575

His Ser Trp Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Gly Ser Arg Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Ser Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
```

```
    690                 695                 700

Thr Ala Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
705                 710                 715                 720

Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
                725                 730                 735

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser
            740                 745                 750

Tyr Ile Thr Phe Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
        755                 760                 765

Ser Ser Gly Gly Gly Ser Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly
    770                 775                 780

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
785                 790                 795                 800

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
                805                 810                 815

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
            820                 825                 830

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
        835                 840                 845

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
    850                 855                 860

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
865                 870                 875                 880

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
                885                 890                 895

Val Thr Val Ser Ser
            900
```

<210> 191
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro 191

<400> 191

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
100 105 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
130 135 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145 150 155 160

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

```
Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Leu Ser Gly Arg Ser Asp Asn His Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
```

```
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Leu Ser Gly Arg
            500                 505                 510

Ser Asp Asn His Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Ser Asn Lys
                565                 570                 575

His Ser Trp Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605
```

```
Tyr Cys Val Leu Trp Gly Ser Arg Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Ser Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
    690                 695                 700

Thr Ala Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
705                 710                 715                 720

Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
                725                 730                 735

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser
            740                 745                 750

Tyr Ile Thr Phe Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
        755                 760                 765

Ser Ser Gly Gly Gly Ser Leu Ser Gly Arg Ser Asp Asn His Gly Gly
    770                 775                 780

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
785                 790                 795                 800

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
                805                 810                 815

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
```

820 825 830

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
835 840 845

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
850 855 860

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
865 870 875 880

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
885 890 895

Val Thr Val Ser Ser
900

<210> 192
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro166

<400> 192

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr

```
                85                  90                  95

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser
                245                 250                 255

Phe Thr Arg Gln Ala Arg Val Val Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300
```

```
Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Phe Thr Arg Gln
            500                 505                 510

Ala Arg Val Val Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
```

```
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Ser Asn Lys
                565                 570                 575

His Ser Trp Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Gly Ser Arg Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Ser Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
    690                 695                 700

Thr Ala Tyr Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
705                 710                 715                 720

Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
                725                 730                 735
```

```
Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser
            740                 745                 750

Tyr Ile Thr Phe Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
        755                 760                 765

Ser Ser Gly Gly Gly Ser Phe Thr Arg Gln Ala Arg Val Val Gly Gly
    770                 775                 780

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
785                 790                 795                 800

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
                805                 810                 815

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
            820                 825                 830

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
        835                 840                 845

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
    850                 855                 860

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
865                 870                 875                 880

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
                885                 890                 895

Val Thr Val Ser Ser
            900
```

<210> 193
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro169

<400> 193

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
            20                  25                  30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
```

```
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Pro Ala Gly Met Lys Gly Leu Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430
```

```
Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly
            500                 505                 510

Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
        515                 520                 525

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
    530                 535                 540

Thr Gly Ala Val Thr Ser Gly His Tyr Pro Asn Trp Val Gln Gln Lys
545                 550                 555                 560

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp
                565                 570                 575

Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
```

```
               645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
    690                 695                 700

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
705                 710                 715                 720

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
               725                 730                 735

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
            740                 745                 750

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
        755                 760                 765

Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro
    770                 775                 780

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
785                 790                 795                 800

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
               805                 810                 815

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
            820                 825                 830

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
        835                 840                 845

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
    850                 855                 860
```

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
865 870 875 880

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
885 890 895

Val Thr Val Ser Ser
900

<210> 194
<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro170

<400> 194

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
100 105 110

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

```
Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Val Tyr Ala Asp Ser Leu Glu Asp Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
```

```
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Val Tyr Ala Asp
            500                 505                 510

Ser Leu Glu Asp Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560
```

```
Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp
                565                 570                 575

Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765

Thr Val Ser Ser Gly Gly Gly Ser Val Tyr Ala Asp Ser Leu Glu Asp
```

770 775 780

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
785 790 795 800

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
805 810 815

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
820 825 830

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
835 840 845

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
850 855 860

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
865 870 875 880

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
885 890 895

Thr Leu Val Thr Val Ser Ser
900

<210> 195
<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro171

<400> 195

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

Ile Asn Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu

```
        35                  40                  45

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255
```

```
Ala Arg Leu Gln Ser Ala Ala Pro Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
```

```
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Ala Arg Leu Gln
            500                 505                 510

Ser Ala Ala Pro Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp
                565                 570                 575

Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685
```

```
Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765

Thr Val Ser Ser Gly Gly Gly Ser Ala Arg Leu Gln Ser Ala Ala Pro
    770                 775                 780

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
785                 790                 795                 800

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
                805                 810                 815

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
            820                 825                 830

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
        835                 840                 845

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
    850                 855                 860

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
865                 870                 875                 880

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
                885                 890                 895

Thr Leu Val Thr Val Ser Ser
```

900

<210> 196
<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro172

<400> 196

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
100 105 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
130 135 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145 150 155 160

Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu

```
                165                 170                 175

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Lys Lys Leu Ala Asp Glu Pro Glu Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380
```

```
Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys Leu Ala
            500                 505                 510

Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp
                565                 570                 575

Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
```

```
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765

Thr Val Ser Ser Gly Gly Gly Ser Lys Lys Leu Ala Asp Glu Pro Glu
    770                 775                 780

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
785                 790                 795                 800

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
                805                 810                 815
```

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
820 825 830

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
835 840 845

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
850 855 860

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
865 870 875 880

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
885 890 895

Thr Leu Val Thr Val Ser Ser
900

<210> 197
<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro173

<400> 197

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Leu Ser Gly Arg Ser Asp Asn His Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
```

```
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Leu Ser Gly Arg
            500                 505                 510
```

```
Ser Asp Asn His Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp
                565                 570                 575

Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
```

```
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765

Thr Val Ser Ser Gly Gly Gly Ser Leu Ser Gly Arg Ser Asp Asn His
    770                 775                 780

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
785                 790                 795                 800

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
                805                 810                 815

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
            820                 825                 830

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
        835                 840                 845

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
    850                 855                 860

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
865                 870                 875                 880

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
                885                 890                 895

Thr Leu Val Thr Val Ser Ser
            900
```

<210> 198
<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro174

<400> 198

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
            20                  25                  30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205
```

```
Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser
                245                 250                 255

Phe Thr Arg Gln Ala Arg Val Val Gly Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn
                405                 410                 415

Leu Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val
```

```
            420                 425                 430

Ala Arg Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
    450                 455                 460

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn
465                 470                 475                 480

Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Phe Thr Arg Gln
            500                 505                 510

Ala Arg Val Val Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro
        515                 520                 525

Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser
    530                 535                 540

Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln
545                 550                 555                 560

Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp
                565                 570                 575

Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
625                 630                 635                 640
```

```
Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765

Thr Val Ser Ser Gly Gly Gly Ser Phe Thr Arg Gln Ala Arg Val Val
    770                 775                 780

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
785                 790                 795                 800

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
                805                 810                 815

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
            820                 825                 830

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
        835                 840                 845

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
```

```
    850                 855                 860

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
865                 870                 875                 880

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
                885                 890                 895

Thr Leu Val Thr Val Ser Ser
            900
```

<210> 199
<211> 888
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro176

<400> 199

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
```

```
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Pro Ala Gly Met Lys Gly Leu Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335
```

```
Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
```

```
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Asp
                565                 570                 575

Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
625                 630                 635                 640

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
                645                 650                 655

Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met
            660                 665                 670

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg
        675                 680                 685

Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser
    690                 695                 700

Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala
705                 710                 715                 720

Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
                725                 730                 735

Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala
            740                 745                 750

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        755                 760                 765
```

```
Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    770                 775                 780

Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
785                 790                 795                 800

Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys
                805                 810                 815

Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu
            820                 825                 830

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
        835                 840                 845

Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
    850                 855                 860

Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln
865                 870                 875                 880

Gly Thr Leu Val Thr Val Ser Ser
                885
```

<210> 200
<211> 892
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro178

<400> 200

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15

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

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45
```

```
Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Lys Lys Leu Ala Asp Glu Pro Glu Gly Gln Thr Val Val Thr
```

```
            260                 265                 270

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
        275                 280                 285

Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
    290                 295                 300

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr
305                 310                 315                 320

Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
                325                 330                 335

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
            340                 345                 350

Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
        355                 360                 365

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
    370                 375                 380

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

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
                405                 410                 415

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
            420                 425                 430

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
        435                 440                 445

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
    450                 455                 460

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
465                 470                 475                 480
```

```
Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
                485                 490                 495

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
            500                 505                 510

Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr Val Val
        515                 520                 525

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
    530                 535                 540

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
545                 550                 555                 560

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
                565                 570                 575

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
            580                 585                 590

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
        595                 600                 605

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
    610                 615                 620

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
                645                 650                 655

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
            660                 665                 670

Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
        675                 680                 685

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp
```

690 695 700

Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
705 710 715 720

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
725 730 735

Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile
740 745 750

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
755 760 765

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
770 775 780

Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
785 790 795 800

Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln
805 810 815

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
820 825 830

Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
835 840 845

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
850 855 860

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
865 870 875 880

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
885 890

<210> 201
<211> 894
<212> PRT

<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro179

<400> 201

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
165 170 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
180 185 190

```
Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Ser Lys Lys Leu Ala Asp Glu Pro Glu Gly Ser Gln Thr Val
            260                 265                 270

Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr
        275                 280                 285

Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro
    290                 295                 300

Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly
305                 310                 315                 320

Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser
                325                 330                 335

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
            340                 345                 350

Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val
        355                 360                 365

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
    370                 375                 380

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

Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg
```

```
                405                 410                 415

Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu
            420                 425                 430

Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp
        435                 440                 445

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
    450                 455                 460

Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr
465                 470                 475                 480

Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu
                485                 490                 495

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly
            500                 505                 510

Gly Ser Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr
        515                 520                 525

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
    530                 535                 540

Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
545                 550                 555                 560

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
                565                 570                 575

Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser
            580                 585                 590

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
        595                 600                 605

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg
    610                 615                 620
```

```
Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
625                 630                 635                 640


Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
                645                 650                 655


Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
            660                 665                 670


Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
        675                 680                 685


Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp
    690                 695                 700


Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
705                 710                 715                 720


Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
                725                 730                 735


Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser
            740                 745                 750


Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
        755                 760                 765


Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
    770                 775                 780


Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser
785                 790                 795                 800


Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val
                805                 810                 815


Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly
            820                 825                 830


Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr
```

835 840 845

Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser
850 855 860

Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser
865 870 875 880

Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
885 890

<210> 202
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro180

<400> 202

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser

```
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Ser Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly Ser Gln
            260                 265                 270

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
        275                 280                 285

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
    290                 295                 300

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
305                 310                 315                 320

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
                325                 330                 335
```

```
Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
            340                 345                 350

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
        355                 360                 365

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
    370                 375                 380

Gly Gly Gly Ser Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val
385                 390                 395                 400

Gln Thr Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr
                405                 410                 415

Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
            420                 425                 430

Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr
        435                 440                 445

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
    450                 455                 460

Asn Thr Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala
465                 470                 475                 480

Ile Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu
                485                 490                 495

Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
            500                 505                 510

Gly Gly Gly Ser Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser
        515                 520                 525

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
    530                 535                 540

Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly
```

```
545                 550                 555                 560

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
                565                 570                 575

Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg
            580                 585                 590

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
        595                 600                 605

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser
    610                 615                 620

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
625                 630                 635                 640

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765
```

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
    770   775   780

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg
785   790   795   800

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser
                805   810   815

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile
            820   825   830

Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg
        835   840   845

Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met
    850   855   860

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly
865   870   875   880

Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
                885   890   895

<210> 203
<211> 898
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro181

<400> 203

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1   5   10   15

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

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

```
Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly Gly
```

```
            260                 265                 270

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
        275                 280                 285

Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser
    290                 295                 300

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
305                 310                 315                 320

Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg
                325                 330                 335

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
            340                 345                 350

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser
        355                 360                 365

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
    370                 375                 380

Gly Ser Gly Gly Gly Ser Gln Val Lys Leu Glu Glu Ser Gly Gly Gly
385                 390                 395                 400

Ser Val Gln Thr Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly
                405                 410                 415

Arg Thr Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly
            420                 425                 430

Lys Glu Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr
        435                 440                 445

Gly Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
    450                 455                 460

Ala Lys Asn Thr Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp
465                 470                 475                 480
```

```
Thr Ala Ile Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly
                485                 490                 495

Thr Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
            500                 505                 510

Ser Ser Gly Gly Gly Ser Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly
        515                 520                 525

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
    530                 535                 540

Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr
545                 550                 555                 560

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
                565                 570                 575

Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro
            580                 585                 590

Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu
        595                 600                 605

Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp
    610                 615                 620

Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
625                 630                 635                 640

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
                645                 650                 655

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
            660                 665                 670

Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala
        675                 680                 685

Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp
```

```
    690                 695                 700

Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr
705                 710                 715                 720

Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
                725                 730                 735

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn
            740                 745                 750

Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
        755                 760                 765

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
    770                 775                 780

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
785                 790                 795                 800

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly
                805                 810                 815

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
            820                 825                 830

Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys
        835                 840                 845

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
    850                 855                 860

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
865                 870                 875                 880

Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val
                885                 890                 895

Ser Ser
```

<210> 204
<211> 891
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro182

<400> 204

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
165 170 175

```
Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Pro Ala Gly Met Lys Gly Leu Gly Gln Thr Val Val Thr
            260                 265                 270

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
        275                 280                 285

Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
    290                 295                 300

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr
305                 310                 315                 320

Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
                325                 330                 335

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
            340                 345                 350

Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
        355                 360                 365

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
    370                 375                 380

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
```

```
385                 390                 395                 400

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
                405                 410                 415

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
            420                 425                 430

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
        435                 440                 445

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
    450                 455                 460

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
465                 470                 475                 480

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
                485                 490                 495

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro
            500                 505                 510

Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr
        515                 520                 525

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
    530                 535                 540

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
545                 550                 555                 560

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr
                565                 570                 575

Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
            580                 585                 590

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
        595                 600                 605
```

```
Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
    610                 615                 620

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                645                 650                 655

Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
            660                 665                 670

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
        675                 680                 685

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
    690                 695                 700

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
705                 710                 715                 720

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
                725                 730                 735

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
            740                 745                 750

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
        755                 760                 765

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
    770                 775                 780

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
785                 790                 795                 800

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
                805                 810                 815

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
```

820 825 830

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
835 840 845

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
850 855 860

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
865 870 875 880

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
885 890

<210> 205
<211> 893
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro183

<400> 205

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp

```
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Ser Gly Pro Ala Gly Met Lys Gly Leu Gly Ser Gln Thr Val
            260                 265                 270

Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr
        275                 280                 285

Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro
    290                 295                 300

Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly
305                 310                 315                 320
```

```
Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser
                325                 330                 335

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
            340                 345                 350

Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val
        355                 360                 365

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
    370                 375                 380

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

Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg
                405                 410                 415

Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu
            420                 425                 430

Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp
        435                 440                 445

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
    450                 455                 460

Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr
465                 470                 475                 480

Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu
                485                 490                 495

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly
            500                 505                 510

Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val
        515                 520                 525

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

```
    530                 535                 540

Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro
545                 550                 555                 560

Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly
                565                 570                 575

Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly
            580                 585                 590

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
        595                 600                 605

Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp
    610                 615                 620

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly
625                 630                 635                 640

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
                645                 650                 655

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
            660                 665                 670

Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
        675                 680                 685

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp
    690                 695                 700

Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
705                 710                 715                 720

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
                725                 730                 735

Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr
            740                 745                 750
```

```
Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
        755                 760                 765

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
    770                 775                 780

Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys
785                 790                 795                 800

Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg
                805                 810                 815

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser
            820                 825                 830

Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile
        835                 840                 845

Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu
    850                 855                 860

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu
865                 870                 875                 880

Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
                885                 890
```

<210> 206
<211> 895
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro184

<400> 206

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                   10                  15

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

```
Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
```

```
                245                 250                 255

Ser Gly Gly Ser Gly Pro Ala Gly Met Lys Gly Leu Gly Gly Ser Gln
            260                 265                 270

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
        275                 280                 285

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
    290                 295                 300

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
305                 310                 315                 320

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
                325                 330                 335

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

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
        355                 360                 365

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
    370                 375                 380

Gly Gly Gly Ser Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val
385                 390                 395                 400

Gln Thr Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr
                405                 410                 415

Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
            420                 425                 430

Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr
        435                 440                 445

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
    450                 455                 460
```

```
Asn Thr Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala
465                 470                 475                 480

Ile Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu
                485                 490                 495

Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser
            500                 505                 510

Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln
        515                 520                 525

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
    530                 535                 540

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
545                 550                 555                 560

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
                565                 570                 575

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
            580                 585                 590

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
        595                 600                 605

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
    610                 615                 620

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
```

```
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
    690                 695                 700

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
705                 710                 715                 720

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
                725                 730                 735

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
            740                 745                 750

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
        755                 760                 765

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    770                 775                 780

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
785                 790                 795                 800

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
                805                 810                 815

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
            820                 825                 830

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe
        835                 840                 845

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
    850                 855                 860

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
865                 870                 875                 880

Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
                885                 890                 895
```

<210> 207
<211> 897
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro185

<400> 207

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
165 170 175

```
Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Pro Ala Gly Met Lys Gly Leu Gly Gly Gly
            260                 265                 270

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
        275                 280                 285

Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser
    290                 295                 300

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
305                 310                 315                 320

Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg
                325                 330                 335

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
            340                 345                 350

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser
        355                 360                 365

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
    370                 375                 380

Gly Ser Gly Gly Gly Ser Gln Val Lys Leu Glu Glu Ser Gly Gly Gly
```

385 390 395 400

Ser Val Gln Thr Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly
405 410 415

Arg Thr Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly
420 425 430

Lys Glu Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr
435 440 445

Gly Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
450 455 460

Ala Lys Asn Thr Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp
465 470 475 480

Thr Ala Ile Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly
485 490 495

Thr Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
500 505 510

Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly
515 520 525

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
530 535 540

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser
545 550 555 560

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
565 570 575

Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala
580 585 590

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
595 600 605

```
Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr
    610                 615                 620

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
625                 630                 635                 640

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
                645                 650                 655

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
            660                 665                 670

Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
        675                 680                 685

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr
    690                 695                 700

Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
705                 710                 715                 720

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                725                 730                 735

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe
            740                 745                 750

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        755                 760                 765

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
    770                 775                 780

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu
785                 790                 795                 800

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met
                805                 810                 815

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
```

820 825 830

Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly
835 840 845

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln
850 855 860

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile
865 870 875 880

Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser
885 890 895

Ser

<210> 208
<211> 889
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro188

<400> 208

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys

```
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Pro Ala Gly Met Lys Gly Leu Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300
```

```
Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
```

```
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Asp
                565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
                645                 650                 655

Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685

Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700

Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                725                 730                 735
```

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
740 745 750

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
755 760 765

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
770 775 780

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785 790 795 800

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
805 810 815

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
820 825 830

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
835 840 845

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
850 855 860

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865 870 875 880

Gln Gly Thr Leu Val Thr Val Ser Ser
885

<210> 209
<211> 897
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro189

<400> 209

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
```

```
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445
```

```
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly
625                 630                 635                 640

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
                645                 650                 655

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
```

```
            660                 665                 670

Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
        675                 680                 685

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr
    690                 695                 700

Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
705                 710                 715                 720

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                725                 730                 735

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe
            740                 745                 750

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        755                 760                 765

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
    770                 775                 780

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu
785                 790                 795                 800

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met
                805                 810                 815

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
            820                 825                 830

Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly
        835                 840                 845

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln
    850                 855                 860

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile
865                 870                 875                 880
```

Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser
885 890 895

Ser

<210> 210
<211> 898
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro190

<400> 210

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

```
Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
```

```
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys
            500                 505                 510

Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575
```

```
Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
                645                 650                 655

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
            660                 665                 670

Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala
        675                 680                 685

Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp
    690                 695                 700

Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr
705                 710                 715                 720

Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
                725                 730                 735

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn
            740                 745                 750

Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
        755                 760                 765

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu
    770                 775                 780

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser
```

785 790 795 800

Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly
805 810 815

Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
820 825 830

Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys
835 840 845

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu
850 855 860

Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr
865 870 875 880

Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val
885 890 895

Ser Ser

<210> 211
<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro191

<400> 211

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val

```
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270
```

```
Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
```

```
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly
625                 630                 635                 640

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
                645                 650                 655

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
            660                 665                 670

Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
        675                 680                 685

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr
    690                 695                 700
```

```
Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
705                 710                 715                 720


Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                725                 730                 735


Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe
            740                 745                 750


Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        755                 760                 765


Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly
    770                 775                 780


Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
785                 790                 795                 800


Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
                805                 810                 815


Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
            820                 825                 830


Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
        835                 840                 845


Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
    850                 855                 860


Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
865                 870                 875                 880


Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
                885                 890                 895


Thr Leu Val Thr Val Ser Ser
            900
```

<210> 212

<211> 905
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro192

<400> 212

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
165 170 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr

```
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly Ser Leu
385                 390                 395                 400
```

```
Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys
            500                 505                 510

Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
```

```
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
                645                 650                 655

Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala
            660                 665                 670

Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala
        675                 680                 685

Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp
    690                 695                 700

Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr
705                 710                 715                 720

Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
                725                 730                 735

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn
            740                 745                 750

Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
        755                 760                 765

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys Leu Ala Asp Glu
    770                 775                 780

Pro Glu Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
785                 790                 795                 800

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
                805                 810                 815

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
            820                 825                 830
```

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
835 840 845

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
850 855 860

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
865 870 875 880

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
885 890 895

Gln Gly Thr Leu Val Thr Val Ser Ser
900 905

<210> 213
<211> 763
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro193

<400> 213

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

```
Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
```

```
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Ser Gly Gly Pro Gly Pro Ala Gly Met Lys
    370                 375                 380

Gly Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
385                 390                 395                 400

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
                405                 410                 415

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
            420                 425                 430

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
        435                 440                 445

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
    450                 455                 460

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
465                 470                 475                 480

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
                485                 490                 495

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
            500                 505                 510

Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr
        515                 520                 525
```

```
Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
    530                 535                 540

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
545                 550                 555                 560

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr
                565                 570                 575

Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
            580                 585                 590

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
        595                 600                 605

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
    610                 615                 620

Gly Gly Gly Thr Lys Leu Thr Val Leu Ser Gly Gly Pro Gly Pro Ala
625                 630                 635                 640

Gly Met Lys Gly Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser Gly
                645                 650                 655

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
            660                 665                 670

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
        675                 680                 685

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
    690                 695                 700

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
705                 710                 715                 720

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
                725                 730                 735

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
```

740 745 750

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
755 760

<210> 214
<211> 892
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro195

<400> 214

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

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

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

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

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

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

Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr
100 105 110

Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
130 135 140

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser

```
145                 150                 155                 160

Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro
                165                 170                 175

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn
            180                 185                 190

Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser
        195                 200                 205

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
    210                 215                 220

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly
225                 230                 235                 240

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
                245                 250                 255

Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val
            260                 265                 270

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        275                 280                 285

Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    290                 295                 300

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
305                 310                 315                 320

Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                325                 330                 335

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            340                 345                 350

Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe
        355                 360                 365
```

```
Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    370                 375                 380

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

Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser
                405                 410                 415

Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
            420                 425                 430

Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser
        435                 440                 445

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
    450                 455                 460

Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr
465                 470                 475                 480

Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr
                485                 490                 495

Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly
            500                 505                 510

Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val
        515                 520                 525

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
    530                 535                 540

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
545                 550                 555                 560

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
                565                 570                 575

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
```

```
            580                 585                 590

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
        595                 600                 605

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
    610                 615                 620

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
                645                 650                 655

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
            660                 665                 670

Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
        675                 680                 685

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp
    690                 695                 700

Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
705                 710                 715                 720

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
                725                 730                 735

Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile
            740                 745                 750

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        755                 760                 765

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
    770                 775                 780

Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
785                 790                 795                 800
```

Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln
805 810 815

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
820 825 830

Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
835 840 845

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
850 855 860

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
865 870 875 880

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
885 890

<210> 215
<211> 889
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro196

<400> 215

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

```
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
    130                 135                 140

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala
145                 150                 155                 160

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

Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr
            180                 185                 190

Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr
        195                 200                 205

Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu
    210                 215                 220

Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val
225                 230                 235                 240

Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
                245                 250                 255

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
            260                 265                 270

Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln
        275                 280                 285

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
```

```
    290                 295                 300

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
305                 310                 315                 320

Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
                325                 330                 335

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
            340                 345                 350

Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
        355                 360                 365

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510
```

```
Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
                645                 650                 655

Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685

Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700

Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
```

```
                725                 730                 735

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            740                 745                 750

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        755                 760                 765

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    770                 775                 780

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785                 790                 795                 800

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
                805                 810                 815

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
            820                 825                 830

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        835                 840                 845

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
    850                 855                 860

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865                 870                 875                 880

Gln Gly Thr Leu Val Thr Val Ser Ser
                885
```

<210> 216
<211> 888
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro197

<400> 216

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
```

```
1               5                   10                  15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220
```

```
Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
```

```
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser
        515                 520                 525

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
    530                 535                 540

Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln
545                 550                 555                 560

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
                565                 570                 575

Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe
            580                 585                 590

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn
        595                 600                 605

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
    610                 615                 620

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
625                 630                 635                 640

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                645                 650                 655
```

```
Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            660                 665                 670

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        675                 680                 685

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    690                 695                 700

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
705                 710                 715                 720

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
                725                 730                 735

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
            740                 745                 750

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
        755                 760                 765

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    770                 775                 780

Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
785                 790                 795                 800

Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys
                805                 810                 815

Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu
            820                 825                 830

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
        835                 840                 845

Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
    850                 855                 860

Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln
```

865 870 875 880

Gly Thr Leu Val Thr Val Ser Ser
885

<210> 217
<211> 888
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro198

<400> 217

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
130 135 140

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala

```
145                 150                 155                 160

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

Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr
            180                 185                 190

Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr
        195                 200                 205

Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu
    210                 215                 220

Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val
225                 230                 235                 240

Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
                245                 250                 255

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
            260                 265                 270

Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln
        275                 280                 285

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
    290                 295                 300

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
305                 310                 315                 320

Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
                325                 330                 335

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
            340                 345                 350

Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
        355                 360                 365
```

```
Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Glu Val Gln Leu Val Glu Ser
        515                 520                 525

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
    530                 535                 540

Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln
545                 550                 555                 560

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
                565                 570                 575

Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe
```

```
            580                 585                 590

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn
        595                 600                 605

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
    610                 615                 620

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
625                 630                 635                 640

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                645                 650                 655

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            660                 665                 670

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        675                 680                 685

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    690                 695                 700

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
705                 710                 715                 720

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
                725                 730                 735

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
            740                 745                 750

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
        755                 760                 765

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    770                 775                 780

Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
785                 790                 795                 800
```

Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys
805 810 815

Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu
820 825 830

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
835 840 845

Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
850 855 860

Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln
865 870 875 880

Gly Thr Leu Val Thr Val Ser Ser
885

<210> 218
<211> 885
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro199

<400> 218

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
20 25 30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
```

```
    290                 295                 300

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu
    370                 375                 380

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

Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn Leu Met
                405                 410                 415

Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val Ala Arg
            420                 425                 430

Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys Gly Arg
        435                 440                 445

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
    450                 455                 460

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Leu Leu
465                 470                 475                 480

Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln Gly Thr
                485                 490                 495

Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys
            500                 505                 510
```

```
Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr
        515                 520                 525

Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly
    530                 535                 540

Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly
545                 550                 555                 560

Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys
                565                 570                 575

Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala
            580                 585                 590

Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys
        595                 600                 605

Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu
    610                 615                 620

Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
625                 630                 635                 640

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
                645                 650                 655

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val
            660                 665                 670

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
        675                 680                 685

Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp
    690                 695                 700

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
705                 710                 715                 720

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
```

725 730 735

His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
740 745 750

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
755 760 765

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
770 775 780

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
785 790 795 800

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
805 810 815

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
820 825 830

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
835 840 845

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
850 855 860

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
865 870 875 880

Val Thr Val Ser Ser
885

<210> 219
<211> 886
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro200

<400> 219

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

```
1               5                   10                  15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser
            20                  25                  30

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

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

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

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

Cys Asn Leu Leu Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220
```

```
Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    290                 295                 300

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu
    370                 375                 380

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

Ser Cys Ala Ala Ser Gly Thr Gly Ser Ile Phe Ser Ile Asn Leu Met
                405                 410                 415

Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val Ala Arg
            420                 425                 430

Ile Thr Ser Gly Asp Ser Thr Val Tyr Ala Asp Ser Val Lys Gly Arg
```

```
        435                 440                 445

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
    450                 455                 460

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn Leu Leu
465                 470                 475                 480

Leu Arg Ser Ser Pro Gly Ala Thr Thr Pro Tyr Trp Gly Gln Gly Thr
                485                 490                 495

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys Leu Ala Asp Glu
            500                 505                 510

Pro Glu Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu
        515                 520                 525

Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr
    530                 535                 540

Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro
545                 550                 555                 560

Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp
                565                 570                 575

Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
            580                 585                 590

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
        595                 600                 605

Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
    610                 615                 620

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
625                 630                 635                 640

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
                645                 650                 655
```

```
Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp
            660                 665                 670

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
        675                 680                 685

Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys
    690                 695                 700

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
705                 710                 715                 720

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
                725                 730                 735

Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
            740                 745                 750

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
        755                 760                 765

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    770                 775                 780

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
785                 790                 795                 800

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                805                 810                 815

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
            820                 825                 830

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
        835                 840                 845

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
    850                 855                 860

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
```

865 870 875 880

Leu Val Thr Val Ser Ser
885

<210> 220
<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro189 (Pro186 con enlazador largo entre dominios de acD3 inactivados)

<400> 220

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

```
Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365
```

```
Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575
```

```
Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly
625                 630                 635                 640

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
                645                 650                 655

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
            660                 665                 670

Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
        675                 680                 685

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr
    690                 695                 700

Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
705                 710                 715                 720

Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                725                 730                 735

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe
            740                 745                 750

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        755                 760                 765

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
    770                 775                 780

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu
785                 790                 795                 800
```

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met
805 810 815

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
820 825 830

Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly
835 840 845

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln
850 855 860

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile
865 870 875 880

Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser
885 890 895

Ser His His His His His His
900

<210> 221
<211> 636
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro206 (Dominio activo Pro186+ aHSA)

<400> 221

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270
```

```
Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

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

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460

Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495
```

```
Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
            500                 505                 510

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
        515                 520                 525

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
    530                 535                 540

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
545                 550                 555                 560

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
                565                 570                 575

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
            580                 585                 590

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
        595                 600                 605

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
    610                 615                 620

Leu Val Thr Val Ser Ser His His His His His His
625                 630                 635
```

<210> 222
<211> 513
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro227 (Pro22 aB7H3 hF7)

<400> 222

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

Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
            20                  25                  30
```

```
His Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
            100                 105                 110

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

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    130                 135                 140

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
145                 150                 155                 160

Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys
                165                 170                 175

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
            180                 185                 190

Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
        195                 200                 205

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

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser
225                 230                 235                 240
```

```
Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
                245                 250                 255

Ser Ser Gly Gly Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly
            260                 265                 270

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
        275                 280                 285

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
    290                 295                 300

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
305                 310                 315                 320

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
                325                 330                 335

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
            340                 345                 350

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
        355                 360                 365

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
    370                 375                 380

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
385                 390                 395                 400

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
                405                 410                 415

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
            420                 425                 430

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
        435                 440                 445

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
    450                 455                 460
```

```
Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
465                 470                 475                 480


Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
                485                 490                 495


Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
            500                 505                 510


His
```

<210> 223
<211> 511
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro228 (Pro22 aB7H3 hF12)

<400> 223

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


Ser Leu Arg Leu Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr
            20                  25                  30


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


Ala Ala Ile Asn Trp Ser Gly Gly Asn Thr Ser 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 Ala Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp
            100                 105                 110
```

```
Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
        115                 120                 125

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320
```

```
Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
    370                 375                 380

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
385                 390                 395                 400

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
                405                 410                 415

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
            420                 425                 430

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
        435                 440                 445

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
    450                 455                 460

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
465                 470                 475                 480

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
                485                 490                 495

Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
            500                 505                 510
```

<210> 224
<211> 512
<212> PRT
<213> Secuencia Artificial

<220>

<223> Sintético constructor - Pro244 (Pro51 aB7H3 hF7)

<400> 224

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


Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
            20                  25                  30


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


Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
            100                 105                 110


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


Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    130                 135                 140


Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
145                 150                 155                 160


Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys
                165                 170                 175


Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala
            180                 185                 190


Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp
        195                 200                 205
```

```
Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu
    210                 215                 220

Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser
225                 230                 235                 240

Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
                245                 250                 255

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
            260                 265                 270

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
        275                 280                 285

Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser
    290                 295                 300

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
305                 310                 315                 320

Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg
                325                 330                 335

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
            340                 345                 350

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser
        355                 360                 365

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
    370                 375                 380

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
385                 390                 395                 400

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
                405                 410                 415
```

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
420 425 430

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
435 440 445

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
450 455 460

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
465 470 475 480

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
485 490 495

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
500 505 510

<210> 225
<211> 510
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro245 (Pro51 aB7H3 hF12)

<400> 225

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr
20 25 30

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

Ala Ala Ile Asn Trp Ser Gly Gly Asn Thr Ser 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 Ala Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp
            100                 105                 110

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

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    130                 135                 140

Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
145                 150                 155                 160

Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
                165                 170                 175

Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr
            180                 185                 190

Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
        195                 200                 205

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
    210                 215                 220

Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile
225                 230                 235                 240

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln
            260                 265                 270

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
        275                 280                 285

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
    290                 295                 300
```

```
Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
305                 310                 315                 320

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
                325                 330                 335

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

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
        355                 360                 365

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly
    370                 375                 380

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
385                 390                 395                 400

Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
                405                 410                 415

Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys
            420                 425                 430

Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu
        435                 440                 445

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
    450                 455                 460

Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
465                 470                 475                 480

Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln
                485                 490                 495

Gly Thr Leu Val Thr Val Ser Ser His His His His His His
            500                 505                 510
```

<210> 226
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro247 (Pro186 humanizado con enlazador de Meprina)

<400> 226

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
165 170 175

```
Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
```

385 390 395 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
405 410 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
420 425 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
435 440 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
450 455 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465 470 475 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
485 490 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Lys Lys
500 505 510

Leu Ala Asp Glu Pro Glu Gly Gly Gly Ser Gln Thr Val Val Thr Gln
515 520 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
530 535 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545 550 555 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
565 570 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
580 585 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
595 600 605

```
Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
```

820 825 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
835 840 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
850 855 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865 870 875 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
885 890 895

<210> 227
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro248 (Pro186 humanizado con enlazador CathS)

<400> 227

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp

```
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320
```

```
Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Ala Arg
            500                 505                 510

Leu Gln Ser Ala Ala Pro Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
```

```
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750
```

```
Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765


Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780


Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800


Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815


Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830


Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845


Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860


Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880


Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895


<210>  228
<211>  896
<212>  PRT
<213>  Secuencia Artificial

<220>
<223>  Sintético constructor - Pro249 (Pro186 humanizado con
       enlazador de Meprina/Grancima B)

<400>  228

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


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

```
Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240
```

```
Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
    450                 455                 460
```

```
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Val Tyr
            500                 505                 510

Ala Asp Ser Leu Glu Asp Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670
```

```
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 229
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro250 (Pro186 humanizado con S9 - enlazador CathS/MMP9)

<400> 229

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly

```
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380
```

```
Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ala Arg Leu Gln Ser
            500                 505                 510

Ala Ala Pro Ala Gly Leu Lys Gly Ala Gly Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
```

```
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815
```

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
820 825 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
835 840 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
850 855 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865 870 875 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
885 890 895

<210> 230
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro251 (Pro186 humanizado con enlazador ST14(MS)

<400> 230

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

```
Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
```

```
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Leu Ser
            500                 505                 510

Gly Arg Ser Asp Asn His Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525
```

```
Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
```

```
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 231
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro252 (Pro186 humanizado con enlazador ST14(MV)

<400> 231

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

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
```

```
            20                  25                  30

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240
```

```
Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
```

```
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Phe Thr
            500                 505                 510

Arg Gln Ala Arg Val Val Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670
```

```
Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
```

885 890 895

<210> 232
<211> 897
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro253 (Pro18 humanizado 6 con MMP9v enlazador)

<400> 232

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly

```
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380
```

```
Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser Gly Gly Pro Gly
            500                 505                 510

Pro Ala Gly Met His Gly Leu Pro Gly Gly Ser Gln Thr Val Val Thr
        515                 520                 525

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
    530                 535                 540

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
545                 550                 555                 560

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr
                565                 570                 575

Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
            580                 585                 590

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
```

```
        595                 600                 605

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
    610                 615                 620

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                645                 650                 655

Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
            660                 665                 670

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
        675                 680                 685

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
    690                 695                 700

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
705                 710                 715                 720

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
                725                 730                 735

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
            740                 745                 750

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
        755                 760                 765

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
    770                 775                 780

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
785                 790                 795                 800

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
                805                 810                 815
```

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
820 825 830

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
835 840 845

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
850 855 860

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
865 870 875 880

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
885 890 895

His

<210> 233
<211> 902
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro261 (Pro186 humanizado con un enlazador acD3 de largo dominio activo)

<400> 233

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285
```

```
Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

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

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
    370                 375                 380

Ser Gly Gly Gly Ser Gln Val Lys Leu Val Glu Ser Gly Gly Gly Val
385                 390                 395                 400

Val Arg Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg
                405                 410                 415

Thr Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys
            420                 425                 430

Glu Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly
        435                 440                 445

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
    450                 455                 460

Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr
465                 470                 475                 480

Ala Leu Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr
                485                 490                 495

Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
            500                 505                 510
```

```
Ser Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser
        515                 520                 525

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
    530                 535                 540

Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly
545                 550                 555                 560

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
                565                 570                 575

Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg
            580                 585                 590

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
        595                 600                 605

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser
    610                 615                 620

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
625                 630                 635                 640

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720
```

```
Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
    770                 775                 780

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg
785                 790                 795                 800

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser
                805                 810                 815

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile
            820                 825                 830

Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg
        835                 840                 845

Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met
    850                 855                 860

Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly
865                 870                 875                 880

Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
                885                 890                 895

His His His His His His
            900
```

<210> 234
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>

<223> Sintético constructor - Pro294 (enlazador FL haEGFR2 MMP9)

<400> 234

```
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 Arg Thr Phe Ser Ser Tyr
            20                  25                  30


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


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


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


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


Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr
            100                 105                 110


Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
        115                 120                 125


Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    130                 135                 140


Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
145                 150                 155                 160


Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro
                165                 170                 175


Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn
            180                 185                 190


Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser
        195                 200                 205
```

```
Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
    210                 215                 220

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly
225                 230                 235                 240

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
                245                 250                 255

Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val
            260                 265                 270

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        275                 280                 285

Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    290                 295                 300

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
305                 310                 315                 320

Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                325                 330                 335

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            340                 345                 350

Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe
        355                 360                 365

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    370                 375                 380

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
385                 390                 395                 400

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser
                405                 410                 415
```

```
Tyr Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
            420                 425                 430

Val Val Ala Ile Asn Trp Ser Ser Gly Ser Thr Tyr Tyr Ala Asp Ser
        435                 440                 445

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
    450                 455                 460

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
465                 470                 475                 480

Cys Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp
                485                 490                 495

Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            500                 505                 510

Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln
        515                 520                 525

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
    530                 535                 540

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
545                 550                 555                 560

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
                565                 570                 575

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
            580                 585                 590

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
        595                 600                 605

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
    610                 615                 620

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
625                 630                 635                 640
```

```
Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
    690                 695                 700

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
705                 710                 715                 720

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
                725                 730                 735

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
            740                 745                 750

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
        755                 760                 765

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    770                 775                 780

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
785                 790                 795                 800

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
                805                 810                 815

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
            820                 825                 830

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe
        835                 840                 845
```

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
    850   855   860

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
865   870   875   880

Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His
                885   890   895

His His His His His
            900

<210> 235
<211> 895
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro295 (enlazador FL aB7H3 hF7 NC)

<400> 235

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

Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
            20   25   30

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

Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
            100   105   110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335
```

```
Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr His Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Val
            420                 425                 430

Ile Asn Trp Ser Gly Gly Ser Thr Val Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
            500                 505                 510

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540
```

```
Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560


Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575


Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590


Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605


Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620


Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640


Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
                645                 650                 655


Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670


Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685


Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700


Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720


Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                725                 730                 735


Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            740                 745                 750


Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        755                 760                 765
```

```
Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    770                 775                 780

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785                 790                 795                 800

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
                805                 810                 815

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
            820                 825                 830

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        835                 840                 845

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
    850                 855                 860

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865                 870                 875                 880

Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```

<210> 236
<211> 891
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro296 (enlazador FL aB7H3 hF12 NC)

<400> 236

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr
            20                  25                  30

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

```
Ala Ala Ile Asn Trp Ser Gly Gly Asn Thr Ser 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 Ala Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255
```

```
Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    290                 295                 300

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu
    370                 375                 380

Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
385                 390                 395                 400

Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr Ser Met Ala Trp
                405                 410                 415

Phe Arg Gln Ala Pro Gly Lys Glu Arg Ser Phe Val Ala Ala Ile Asn
            420                 425                 430

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

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
    450                 455                 460

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Gly Gly
465                 470                 475                 480
```

```
Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr
                485                 490                 495

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            500                 505                 510

Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr
        515                 520                 525

Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly
    530                 535                 540

Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly
545                 550                 555                 560

Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys
                565                 570                 575

Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala
            580                 585                 590

Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys
        595                 600                 605

Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu
    610                 615                 620

Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
625                 630                 635                 640

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
                645                 650                 655

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val
            660                 665                 670

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
        675                 680                 685
```

```
Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp
    690                 695                 700

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
705                 710                 715                 720

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
                725                 730                 735

His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
            740                 745                 750

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
        755                 760                 765

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    770                 775                 780

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
785                 790                 795                 800

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
                805                 810                 815

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
            820                 825                 830

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
        835                 840                 845

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
    850                 855                 860

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
865                 870                 875                 880

Val Thr Val Ser Ser His His His His His His
                885                 890
```

<210> 237
<211> 876

<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro297 (enlazador FL aFOLR1 h77-2 KLK7.6)

<400> 237

```
Gln 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 Val Ser Asn Ser
            20                  25                  30


Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
        35                  40                  45


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


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


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


Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110


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


Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
    130                 135                 140


Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
145                 150                 155                 160


Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
                165                 170                 175


Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
            180                 185                 190
```

```
Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn
        195                 200                 205

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
    210                 215                 220

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                245                 250                 255

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            260                 265                 270

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        275                 280                 285

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    290                 295                 300

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
305                 310                 315                 320

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
                325                 330                 335

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
            340                 345                 350

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
        355                 360                 365

Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    370                 375                 380

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
385                 390                 395                 400
```

```
Val Ser Asn Ser Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu
                405                 410                 415

Arg Glu Phe Val Ala Ile Ile Asn Ser Ile Gly Ile Thr Asn Tyr Ala
            420                 425                 430

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
        435                 440                 445

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
    450                 455                 460

Tyr Val Cys Asn Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr
465                 470                 475                 480

Leu Val Thr Val Ser Ser Ser Gly Gly Gly Gln Asn Pro Tyr Ser Ala
                485                 490                 495

Gly Arg Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu
            500                 505                 510

Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr
        515                 520                 525

Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro
    530                 535                 540

Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp
545                 550                 555                 560

Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                565                 570                 575

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            580                 585                 590

Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        595                 600                 605

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    610                 615                 620
```

```
Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
625                 630                 635                 640

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp
                645                 650                 655

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
            660                 665                 670

Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys
        675                 680                 685

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
    690                 695                 700

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
705                 710                 715                 720

Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
                725                 730                 735

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
            740                 745                 750

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
        755                 760                 765

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
    770                 775                 780

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
785                 790                 795                 800

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
                805                 810                 815

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
            820                 825                 830
```

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
835 840 845

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
850 855 860

Leu Val Thr Val Ser Ser His His His His His His
865 870 875

<210> 238
<211> 876
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro298 (enlazador FL aFOLR1 h77-2 KLK7.11)

<400> 238

Gln 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 Val Ser Asn Ser
20 25 30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
35 40 45

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

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

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

```
Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
    130                 135                 140

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
145                 150                 155                 160

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
                165                 170                 175

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
            180                 185                 190

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

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
    210                 215                 220

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                245                 250                 255

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            260                 265                 270

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        275                 280                 285

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    290                 295                 300

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
305                 310                 315                 320

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
                325                 330                 335

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
            340                 345                 350
```

```
Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
        355                 360                 365

Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    370                 375                 380

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
385                 390                 395                 400

Val Ser Asn Ser Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu
                405                 410                 415

Arg Glu Phe Val Ala Ile Ile Asn Ser Ile Gly Ile Thr Asn Tyr Ala
            420                 425                 430

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
        435                 440                 445

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
    450                 455                 460

Tyr Val Cys Asn Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr
465                 470                 475                 480

Leu Val Thr Val Ser Ser Ser Gly Gly Gly Arg Asn Val Tyr Ser Ala
                485                 490                 495

Gly Gly Gly Ser Gly Gly Gln Thr Val Val Thr Gln Glu Pro Ser Leu
            500                 505                 510

Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr
        515                 520                 525

Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro
    530                 535                 540

Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp
545                 550                 555                 560
```

```
Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                565                 570                 575

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            580                 585                 590

Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        595                 600                 605

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    610                 615                 620

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
625                 630                 635                 640

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp
                645                 650                 655

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
            660                 665                 670

Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys
        675                 680                 685

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
    690                 695                 700

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
705                 710                 715                 720

Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
                725                 730                 735

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
            740                 745                 750

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
        755                 760                 765

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
    770                 775                 780
```

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
785 790 795 800

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
805 810 815

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
820 825 830

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
835 840 845

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
850 855 860

Leu Val Thr Val Ser Ser His His His His His His
865 870 875

<210> 239
<211> 876
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - enlazador Pro299 (FL aFOLR1 h77-2 NC)

<400> 239

Gln 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 Val Ser Asn Ser
20 25 30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
35 40 45

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

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

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

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
    130                 135                 140

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
145                 150                 155                 160

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
                165                 170                 175

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
            180                 185                 190

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

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
    210                 215                 220

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                245                 250                 255

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            260                 265                 270

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        275                 280                 285
```

```
Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    290                 295                 300

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
305                 310                 315                 320

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
                325                 330                 335

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
            340                 345                 350

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
        355                 360                 365

Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    370                 375                 380

Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
385                 390                 395                 400

Val Ser Asn Ser Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu
                405                 410                 415

Arg Glu Phe Val Ala Ile Ile Asn Ser Ile Gly Ile Thr Asn Tyr Ala
            420                 425                 430

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
        435                 440                 445

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
    450                 455                 460

Tyr Val Cys Asn Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr
465                 470                 475                 480

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
                485                 490                 495

Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu
            500                 505                 510
```

```
Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr
        515                 520                 525

Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro
    530                 535                 540

Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp
545                 550                 555                 560

Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                565                 570                 575

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            580                 585                 590

Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        595                 600                 605

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    610                 615                 620

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu
625                 630                 635                 640

Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp
                645                 650                 655

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg
            660                 665                 670

Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys
        675                 680                 685

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
    690                 695                 700

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
705                 710                 715                 720
```

```
Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
                725                 730                 735

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
            740                 745                 750

Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
        755                 760                 765

Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
    770                 775                 780

Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
785                 790                 795                 800

Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala
                805                 810                 815

Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr
            820                 825                 830

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val
        835                 840                 845

Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr
    850                 855                 860

Leu Val Thr Val Ser Ser His His His His His His
865                 870                 875
```

<210> 240
<211> 502
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro300 (Pro51 aFOLR1 h77-2)

<400> 240

```
Gln 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 Val Ser Asn Ser
            20                  25                  30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
        35                  40                  45

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

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

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

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
            100                 105                 110

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

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
    130                 135                 140

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val
145                 150                 155                 160

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
                165                 170                 175

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

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
        195                 200                 205

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
    210                 215                 220

Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
225                 230                 235                 240
```

```
Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
                245                 250                 255

Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    290                 295                 300

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
    370                 375                 380

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg
385                 390                 395                 400

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser
                405                 410                 415

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile
            420                 425                 430

Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg
        435                 440                 445
```

```
Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met
    450                 455                 460


Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly
465                 470                 475                 480


Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
                485                 490                 495


His His His His His His
            500
```

<210> 241
<211> 874
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro301 (enlazador FL aFOLR1 h59.3 KLK7.6)

<400> 241

```
Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
            20                  25                  30


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


Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


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


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


His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
            100                 105                 110
```

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

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

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

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

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
            180                 185                 190

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

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
    210                 215                 220

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

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr
                245                 250                 255

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
            260                 265                 270

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
        275                 280                 285

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
    290                 295                 300

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
305                 310                 315                 320

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
                325                 330                 335
```

```
Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
            340                 345                 350

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly
        355                 360                 365

Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    370                 375                 380

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Asn Thr Phe
385                 390                 395                 400

Ser Ile Ser Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg
                405                 410                 415

Glu Trp Val Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp
            420                 425                 430

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
        435                 440                 445

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
    450                 455                 460

Tyr Cys Lys His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val
465                 470                 475                 480

Thr Val Ser Ser Ser Gly Gly Gly Gln Asn Pro Tyr Ser Ala Gly Arg
                485                 490                 495

Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
            500                 505                 510

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala
        515                 520                 525

Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln
    530                 535                 540
```

```
Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly
545                 550                 555                 560

Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu
                565                 570                 575

Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val
            580                 585                 590

Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr
        595                 600                 605

Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
    610                 615                 620

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
625                 630                 635                 640

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg
                645                 650                 655

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
            660                 665                 670

Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg
        675                 680                 685

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
    690                 695                 700

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
705                 710                 715                 720

Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
                725                 730                 735

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
            740                 745                 750

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
        755                 760                 765
```

```
Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys
    770                 775                 780

Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
785                 790                 795                 800

Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser
                805                 810                 815

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu
            820                 825                 830

Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr
        835                 840                 845

Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val
    850                 855                 860

Thr Val Ser Ser His His His His His His
865                 870
```

<210> 242
<211> 874
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro302 (enlazador FL aFOLR1 h59.3 KLK7.11)

<400> 242

```
Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
            20                  25                  30

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

Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60
```

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

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

His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
            100                 105                 110

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

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

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

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

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
            180                 185                 190

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

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
    210                 215                 220

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

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr
                245                 250                 255

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
            260                 265                 270
```

```
Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
        275                 280                 285

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
    290                 295                 300

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
305                 310                 315                 320

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
                325                 330                 335

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
            340                 345                 350

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly
        355                 360                 365

Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    370                 375                 380

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Asn Thr Phe
385                 390                 395                 400

Ser Ile Ser Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg
                405                 410                 415

Glu Trp Val Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp
            420                 425                 430

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
        435                 440                 445

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
    450                 455                 460

Tyr Cys Lys His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val
465                 470                 475                 480

Thr Val Ser Ser Ser Gly Gly Gly Arg Asn Val Tyr Ser Ala Gly Gly
                485                 490                 495
```

```
Gly Ser Gly Gly Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
            500                 505                 510

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala
        515                 520                 525

Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln
    530                 535                 540

Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly
545                 550                 555                 560

Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu
                565                 570                 575

Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val
            580                 585                 590

Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr
        595                 600                 605

Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
    610                 615                 620

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
625                 630                 635                 640

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg
                645                 650                 655

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
            660                 665                 670

Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg
        675                 680                 685

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
    690                 695                 700
```

```
Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
705                 710                 715                 720


Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
                725                 730                 735


Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
            740                 745                 750


Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
        755                 760                 765


Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys
    770                 775                 780


Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
785                 790                 795                 800


Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser
                805                 810                 815


Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu
            820                 825                 830


Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr
        835                 840                 845


Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val
    850                 855                 860


Thr Val Ser Ser His His His His His His
865                 870
```

<210> 243
<211> 874
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro303 (enlazador FL aFOLR1 h59.3 NC)

<400> 243

```
Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
            20                  25                  30

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

Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

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

His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
            100                 105                 110

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

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

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

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

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
            180                 185                 190

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

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
    210                 215                 220
```

```
Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
225                 230                 235                 240

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr
                245                 250                 255

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
            260                 265                 270

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
        275                 280                 285

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
    290                 295                 300

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
305                 310                 315                 320

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
                325                 330                 335

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
            340                 345                 350

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly
        355                 360                 365

Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
    370                 375                 380

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Asn Thr Phe
385                 390                 395                 400

Ser Ile Ser Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg
                405                 410                 415

Glu Trp Val Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp
            420                 425                 430
```

```
Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr
        435                 440                 445

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
    450                 455                 460

Tyr Cys Lys His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val
465                 470                 475                 480

Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
                485                 490                 495

Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val
            500                 505                 510

Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala
        515                 520                 525

Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln
    530                 535                 540

Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly
545                 550                 555                 560

Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu
                565                 570                 575

Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val
            580                 585                 590

Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr
        595                 600                 605

Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
    610                 615                 620

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
625                 630                 635                 640

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg
                645                 650                 655
```

```
Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
            660                 665                 670

Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg
        675                 680                 685

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
    690                 695                 700

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
705                 710                 715                 720

Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
                725                 730                 735

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
            740                 745                 750

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
        755                 760                 765

Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys
    770                 775                 780

Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
785                 790                 795                 800

Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser
                805                 810                 815

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu
            820                 825                 830

Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr
        835                 840                 845

Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val
    850                 855                 860
```

Thr Val Ser Ser His His His His His His
865 870

<210> 244
<211> 501
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro304 (Pro51 aFOLR1 h59.3)

<400> 244

Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
20 25 30

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

Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

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

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

His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
100 105 110

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

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
130 135 140

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
145 150 155 160

```
Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
                165                 170                 175

Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
            180                 185                 190

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

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
    210                 215                 220

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu
            260                 265                 270

Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr
        275                 280                 285

Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro
    290                 295                 300

Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro
305                 310                 315                 320

Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala
                325                 330                 335

Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys
            340                 345                 350

Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu
        355                 360                 365

Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    370                 375                 380
```

```
Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
385                 390                 395                 400


Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
                405                 410                 415


Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
            420                 425                 430


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


Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
    450                 455                 460


Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
465                 470                 475                 480


Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His
                485                 490                 495


His His His His His
            500
```

<210> 245
<211> 882
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro305 (enlazador FL aFOLR1 h22.4 KLK7.6)

<400> 245

```
Gln 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 Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
            20                  25                  30


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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Leu
            100                 105                 110

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

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
                245                 250                 255
```

```
Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
            260                 265                 270

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
        275                 280                 285

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
    290                 295                 300

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
305                 310                 315                 320

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
                325                 330                 335

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
            340                 345                 350

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Glu Ala Ser
385                 390                 395                 400

Gly Thr Thr Phe Ser Arg Asp Val Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415

Gly Lys Gln Arg Glu Leu Val Ala Ile Ile Ser Arg Gly Gly Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Asn Ala Asn Thr Ala Thr Trp Gly Arg Val
465                 470                 475                 480
```

```
Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly
                485                 490                 495

Arg Asn Val Tyr Ser Ala Gly Gly Gly Ser Gly Gly Gln Thr Val Val
            500                 505                 510

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        515                 520                 525

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    530                 535                 540

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
545                 550                 555                 560

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
                565                 570                 575

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
            580                 585                 590

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
        595                 600                 605

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
    610                 615                 620

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
625                 630                 635                 640

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
                645                 650                 655

Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
            660                 665                 670

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp
        675                 680                 685
```

```
Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
    690                 695                 700

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
705                 710                 715                 720

Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile
                725                 730                 735

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            740                 745                 750

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
        755                 760                 765

Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
    770                 775                 780

Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln
785                 790                 795                 800

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
                805                 810                 815

Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
            820                 825                 830

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
        835                 840                 845

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
    850                 855                 860

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His
865                 870                 875                 880

His His
```

<210> 246
<211> 882

<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro306 (enlazador FL aFOLR1 h22.4 KLK7.11)

<400> 246

```
Gln 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 Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
            20                  25                  30


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


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


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


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


Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Leu
            100                 105                 110


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


Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140


Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160


Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175


Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190
```

```
Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
            260                 265                 270

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
        275                 280                 285

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
    290                 295                 300

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
305                 310                 315                 320

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
                325                 330                 335

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
            340                 345                 350

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Glu Ala Ser
385                 390                 395                 400
```

```
Gly Thr Thr Phe Ser Arg Asp Val Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415

Gly Lys Gln Arg Glu Leu Val Ala Ile Ile Ser Arg Gly Gly Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Asn Ala Asn Thr Ala Thr Trp Gly Arg Val
465                 470                 475                 480

Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly
                485                 490                 495

Arg Asn Val Tyr Ser Ala Gly Gly Gly Ser Gly Gly Gln Thr Val Val
            500                 505                 510

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        515                 520                 525

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    530                 535                 540

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
545                 550                 555                 560

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
                565                 570                 575

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
            580                 585                 590

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
        595                 600                 605

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
    610                 615                 620
```

```
Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
625                 630                 635                 640

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
                645                 650                 655

Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
            660                 665                 670

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp
        675                 680                 685

Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
    690                 695                 700

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
705                 710                 715                 720

Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile
                725                 730                 735

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            740                 745                 750

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
        755                 760                 765

Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
    770                 775                 780

Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln
785                 790                 795                 800

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
                805                 810                 815

Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
            820                 825                 830
```

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
835 840 845

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
850 855 860

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His
865 870 875 880

His His

<210> 247
<211> 882
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro307 (enlazador FL aFOLR1 h22.4 NC)

<400> 247

Gln 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 Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
20 25 30

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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Leu
100 105 110

```
Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
        115                 120                 125

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
            260                 265                 270

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
        275                 280                 285

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
    290                 295                 300

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
305                 310                 315                 320

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
                325                 330                 335
```

```
Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
            340                 345                 350

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Glu Ala Ser
385                 390                 395                 400

Gly Thr Thr Phe Ser Arg Asp Val Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415

Gly Lys Gln Arg Glu Leu Val Ala Ile Ile Ser Arg Gly Gly Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Asn Ala Asn Thr Ala Thr Trp Gly Arg Val
465                 470                 475                 480

Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser
                485                 490                 495

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val
            500                 505                 510

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        515                 520                 525

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    530                 535                 540
```

```
Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
545                 550                 555                 560

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
                565                 570                 575

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
            580                 585                 590

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
        595                 600                 605

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
    610                 615                 620

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
625                 630                 635                 640

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
                645                 650                 655

Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
            660                 665                 670

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp
        675                 680                 685

Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
    690                 695                 700

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
705                 710                 715                 720

Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile
                725                 730                 735

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            740                 745                 750

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
        755                 760                 765
```

```
Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
    770                 775                 780

Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln
785                 790                 795                 800

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
                805                 810                 815

Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
            820                 825                 830

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
        835                 840                 845

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
    850                 855                 860

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His
865                 870                 875                 880

His His
```

<210> 248
<211> 505
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro308 (Pro51 aFOLR1 h22.4)

<400> 248

```
Gln 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 Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
            20                  25                  30

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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Leu
            100                 105                 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
        115                 120                 125

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
    130                 135                 140

Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile
145                 150                 155                 160

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg
                165                 170                 175

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

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
        195                 200                 205

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
    210                 215                 220

Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
225                 230                 235                 240

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
                245                 250                 255
```

```
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln
            260                 265                 270

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
        275                 280                 285

Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
    290                 295                 300

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys
305                 310                 315                 320

Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
                325                 330                 335

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
            340                 345                 350

Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
        355                 360                 365

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Ser
    370                 375                 380

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
                405                 410                 415

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
            420                 425                 430

Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val
        435                 440                 445

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr
    450                 455                 460

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
465                 470                 475                 480
```

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
485 490 495

Val Ser Ser His His His His His His
500 505

<210> 249
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro335 (enlazador FL aEGFR2 NC)

<400> 249

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 Arg Thr Phe Ser Ser Tyr
20 25 30

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

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

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

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

Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr
100 105 110

Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
115 120 125

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
130 135 140

```
Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
145                 150                 155                 160

Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro
                165                 170                 175

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn
            180                 185                 190

Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser
        195                 200                 205

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
    210                 215                 220

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly
225                 230                 235                 240

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
                245                 250                 255

Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val
            260                 265                 270

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        275                 280                 285

Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    290                 295                 300

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
305                 310                 315                 320

Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                325                 330                 335

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            340                 345                 350
```

```
Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe
        355                 360                 365

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    370                 375                 380

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
385                 390                 395                 400

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser
                405                 410                 415

Tyr Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
            420                 425                 430

Val Val Ala Ile Asn Trp Ser Ser Gly Ser Thr Tyr Tyr Ala Asp Ser
        435                 440                 445

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
    450                 455                 460

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
465                 470                 475                 480

Cys Ala Ala Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp
                485                 490                 495

Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
            500                 505                 510

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln
        515                 520                 525

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
    530                 535                 540

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
545                 550                 555                 560

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
                565                 570                 575
```

```
Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
            580                 585                 590

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
        595                 600                 605

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
    610                 615                 620

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
    690                 695                 700

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
705                 710                 715                 720

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
                725                 730                 735

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
            740                 745                 750

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
        755                 760                 765

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    770                 775                 780
```

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
785 790 795 800

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
805 810 815

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
820 825 830

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe
835 840 845

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
850 855 860

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
865 870 875 880

Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His
885 890 895

His His His His His
900

<210> 250
<211> 894
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro345 (humanizado Pro186 Vli2 Dominio MMP9 enlazador)

<400> 250

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

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

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

```
Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
```

```
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400

Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480
```

```
Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro
            500                 505                 510

Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Asp
                565                 570                 575

Asp Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
625                 630                 635                 640

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
                645                 650                 655

Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met
            660                 665                 670

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg
        675                 680                 685

Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser
```

```
    690                 695                 700

Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala
705                 710                 715                 720

Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
                725                 730                 735

Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala
            740                 745                 750

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        755                 760                 765

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    770                 775                 780

Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
785                 790                 795                 800

Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys
                805                 810                 815

Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu
            820                 825                 830

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
        835                 840                 845

Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
    850                 855                 860

Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln
865                 870                 875                 880

Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890

<210>  251
<211>  894
<212>  PRT
```

<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro346 (humanizado Pro186 Vli2 Dominio NC enlazador)

<400> 251

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


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


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


Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60


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


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


Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110


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


Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140


Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160


Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175


Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190
```

```
Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly Ser Leu
385                 390                 395                 400
```

```
Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly
            500                 505                 510

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Asp
                565                 570                 575

Asp Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
            580                 585                 590

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
        595                 600                 605

Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
    610                 615                 620
```

```
Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
625                 630                 635                 640

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
                645                 650                 655

Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met
            660                 665                 670

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg
        675                 680                 685

Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser
    690                 695                 700

Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala
705                 710                 715                 720

Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr
                725                 730                 735

Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala
            740                 745                 750

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly
        755                 760                 765

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
    770                 775                 780

Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe
785                 790                 795                 800

Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys
                805                 810                 815

Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu
            820                 825                 830
```

Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
835 840 845

Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr
850 855 860

Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln
865 870 875 880

Gly Thr Leu Val Thr Val Ser Ser His His His His His His
885 890

<210> 252
<211> 880
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro368 (enlazador FL aFOLR1 wt22.4 MMP9)

<400> 252

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
20 25 30

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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Gln
100 105 110

```
Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
        115                 120                 125

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
            260                 265                 270

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
        275                 280                 285

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
    290                 295                 300

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
305                 310                 315                 320

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
                325                 330                 335
```

```
Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
            340                 345                 350

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Glu Ala Ser
385                 390                 395                 400

Gly Thr Thr Phe Ser Arg Asp Val Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415

Gly Lys Gln Arg Glu Leu Val Ala Ile Ile Ser Arg Gly Gly Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Ala Pro Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Asn Ala Asn Thr Ala Thr Trp Gly Arg Val
465                 470                 475                 480

Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Pro
                485                 490                 495

Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr
            500                 505                 510

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
        515                 520                 525

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
    530                 535                 540
```

```
Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr
545                 550                 555                 560


Lys Asp Asp Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
                565                 570                 575


Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
            580                 585                 590


Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
        595                 600                 605


Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
    610                 615                 620


Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
625                 630                 635                 640


Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
                645                 650                 655


Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
            660                 665                 670


Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
        675                 680                 685


Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
    690                 695                 700


Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
705                 710                 715                 720


Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
                725                 730                 735


Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
            740                 745                 750


Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
        755                 760                 765
```

```
Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
    770                 775                 780

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
785                 790                 795                 800

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
                805                 810                 815

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
            820                 825                 830

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
        835                 840                 845

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
    850                 855                 860

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
865                 870                 875                 880
```

<210> 253
<211> 881
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro369 (enlazador FL aFOLR1 wt22.4 KLK7.6)

<400> 253

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
            20                  25                  30

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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Gln
            100                 105                 110

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

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
            260                 265                 270
```

```
Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
        275                 280                 285

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
    290                 295                 300

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
305                 310                 315                 320

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
                325                 330                 335

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
            340                 345                 350

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Glu Ala Ser
385                 390                 395                 400

Gly Thr Thr Phe Ser Arg Asp Val Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415

Gly Lys Gln Arg Glu Leu Val Ala Ile Ile Ser Arg Gly Gly Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Ala Pro Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Asn Ala Asn Thr Ala Thr Trp Gly Arg Val
465                 470                 475                 480

Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Gly
                485                 490                 495
```

```
Gln Asn Pro Tyr Ser Ala Gly Arg Gly Gly Gly Ser Gln Thr Val Val
            500                 505                 510

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        515                 520                 525

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    530                 535                 540

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
545                 550                 555                 560

Thr Lys Asp Asp Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                565                 570                 575

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            580                 585                 590

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
        595                 600                 605

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    610                 615                 620

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
625                 630                 635                 640

Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
                645                 650                 655

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
            660                 665                 670

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
        675                 680                 685

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
    690                 695                 700
```

```
Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
705                 710                 715                 720


Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
                725                 730                 735


Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
            740                 745                 750


Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
        755                 760                 765


Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
    770                 775                 780


Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
785                 790                 795                 800


Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
                805                 810                 815


Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
            820                 825                 830


Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
        835                 840                 845


Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
    850                 855                 860


Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
865                 870                 875                 880


His
```

<210> 254
<211> 881
<212> PRT
<213> Secuencia Artificial

<220>

<223> Sintético constructor - Pro370 (enlazador FL aFOLR1 wt22.4 KLK7.11)

<400> 254

```
Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
1               5                  10                  15


Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
            20                  25                  30


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


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


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


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


Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Gln
            100                 105                 110


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


Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140


Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160


Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175


Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190


Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205
```

```
Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
            260                 265                 270

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
        275                 280                 285

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
    290                 295                 300

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
305                 310                 315                 320

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
                325                 330                 335

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
            340                 345                 350

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Glu Ala Ser
385                 390                 395                 400

Gly Thr Thr Phe Ser Arg Asp Val Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415
```

```
Gly Lys Gln Arg Glu Leu Val Ala Ile Ile Ser Arg Gly Gly Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Ala Pro Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Asn Ala Asn Thr Ala Thr Trp Gly Arg Val
465                 470                 475                 480

Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Gly
                485                 490                 495

Arg Asn Val Tyr Ser Ala Gly Gly Gly Ser Gly Gly Gln Thr Val Val
            500                 505                 510

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        515                 520                 525

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    530                 535                 540

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
545                 550                 555                 560

Thr Lys Asp Asp Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                565                 570                 575

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            580                 585                 590

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
        595                 600                 605

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    610                 615                 620

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
625                 630                 635                 640
```

```
Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
               645                 650                 655

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
            660                 665                 670

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
        675                 680                 685

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
    690                 695                 700

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
705                 710                 715                 720

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
                725                 730                 735

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
            740                 745                 750

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
        755                 760                 765

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
    770                 775                 780

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
785                 790                 795                 800

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
                805                 810                 815

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
            820                 825                 830

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
        835                 840                 845
```

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
850 855 860

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
865 870 875 880

His

<210> 255
<211> 881
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro371 (enlazador FL aFOLR1 wt22.4 NC)

<400> 255

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
20 25 30

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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Gln
100 105 110

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

```
Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
    130                 135                 140

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn
145                 150                 155                 160

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
                165                 170                 175

Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys
            180                 185                 190

Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu
        195                 200                 205

Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val
    210                 215                 220

Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp
225                 230                 235                 240

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly
                245                 250                 255

Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro
            260                 265                 270

Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr
        275                 280                 285

Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro
    290                 295                 300

Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala
305                 310                 315                 320

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
                325                 330                 335

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr
            340                 345                 350
```

```
Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Gln Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Glu Ala Ser
385                 390                 395                 400

Gly Thr Thr Phe Ser Arg Asp Val Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415

Gly Lys Gln Arg Glu Leu Val Ala Ile Ile Ser Arg Gly Gly Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Ala Pro Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Asn Ala Asn Thr Ala Thr Trp Gly Arg Val
465                 470                 475                 480

Phe Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
                485                 490                 495

Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val
            500                 505                 510

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
        515                 520                 525

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
    530                 535                 540

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly
545                 550                 555                 560
```

```
Thr Lys Asp Asp Ala Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                565                 570                 575

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            580                 585                 590

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
        595                 600                 605

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    610                 615                 620

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
625                 630                 635                 640

Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
                645                 650                 655

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
            660                 665                 670

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
        675                 680                 685

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
    690                 695                 700

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
705                 710                 715                 720

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
                725                 730                 735

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
            740                 745                 750

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
        755                 760                 765

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
    770                 775                 780
```

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
785 790 795 800

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
805 810 815

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
820 825 830

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
835 840 845

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
850 855 860

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
865 870 875 880

His

<210> 256
<211> 505
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro372 (Pro51 aFOLR1 wt22.4)

<400> 256

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Thr Thr Phe Ser Arg Asp
20 25 30

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

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

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

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

Ala Asn Thr Ala Thr Trp Gly Arg Val Phe Trp Gly Gln Gly Thr Gln
            100                 105                 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
        115                 120                 125

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
    130                 135                 140

Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile
145                 150                 155                 160

Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg
                165                 170                 175

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

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
        195                 200                 205

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
    210                 215                 220

Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
225                 230                 235                 240

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
                245                 250                 255

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln
            260                 265                 270
```

```
Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
        275                 280                 285

Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
    290                 295                 300

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys
305                 310                 315                 320

Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
                325                 330                 335

Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
            340                 345                 350

Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
        355                 360                 365

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gly Gly Gly Ser
    370                 375                 380

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

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
                405                 410                 415

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
            420                 425                 430

Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val
        435                 440                 445

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr
    450                 455                 460

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
465                 470                 475                 480

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
                485                 490                 495
```

Val Ser Ser His His His His His His
            500   505

<210> 257
<211> 895
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro373 (enlazador FL aB7H3 hF7 Meprina)

<400> 257

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

Ser Leu Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr
            20   25   30

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

Ala Val Ile Asn Trp Ser Gly Gly Ser Thr Val 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 Ala Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp
            100   105   110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130   135   140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145   150   155   160

```
Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365
```

```
Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Ser Cys Ala Pro Ser Arg Arg Thr Phe His Thr Tyr His Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ala Val
            420                 425                 430

Ile Asn Trp Ser Gly Gly Ser Thr Val Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Gly Gly Ala Thr Thr Gln Arg Ala Thr Glu Ala Ser Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Gly Lys Lys
            500                 505                 510

Leu Ala Asp Glu Pro Glu Gly Gly Ser Gln Thr Val Val Thr Gln Glu
        515                 520                 525

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly
    530                 535                 540

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
545                 550                 555                 560

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp
                565                 570                 575

Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly
            580                 585                 590
```

```
Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala
        595                 600                 605

Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly
    610                 615                 620

Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu
625                 630                 635                 640

Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser
                645                 650                 655

Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala
            660                 665                 670

Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
        675                 680                 685

Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp
    690                 695                 700

Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr
705                 710                 715                 720

Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr
                725                 730                 735

Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp
            740                 745                 750

Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly
        755                 760                 765

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
    770                 775                 780

Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
785                 790                 795                 800
```

Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly
805 810 815

Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr
820 825 830

Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
835 840 845

Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp
850 855 860

Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser
865 870 875 880

Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
885 890 895

<210> 258
<211> 891
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro374 (enlazador FL aB7H3 hF12 Meprina)

<400> 258

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

Ser Leu Arg Leu Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr
20 25 30

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

Ala Ala Ile Asn Trp Ser Gly Gly Asn Thr Ser 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 Ala Gly Gly Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp
            100                 105                 110

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

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    130                 135                 140

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
145                 150                 155                 160

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

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr
            180                 185                 190

Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
        195                 200                 205

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
    210                 215                 220

Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr Ile Ser
225                 230                 235                 240

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
                245                 250                 255

Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            260                 265                 270

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ser
        275                 280                 285

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    290                 295                 300
```

```
Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Val
305                 310                 315                 320

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
                325                 330                 335

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
            340                 345                 350

Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
        355                 360                 365

Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu
    370                 375                 380

Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu
385                 390                 395                 400

Ser Cys Glu Ala Ser Pro Arg Thr Phe Ser Thr Tyr Ser Met Ala Trp
                405                 410                 415

Phe Arg Gln Ala Pro Gly Lys Glu Arg Ser Phe Val Ala Ala Ile Asn
            420                 425                 430

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

Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn
    450                 455                 460

Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Gly Gly
465                 470                 475                 480

Val Leu Ala His His Asn Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr
                485                 490                 495

Leu Val Thr Val Ser Ser Ser Gly Gly Gly Lys Lys Leu Ala Asp Glu
            500                 505                 510
```

```
Pro Glu Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr
        515                 520                 525

Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly
    530                 535                 540

Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly
545                 550                 555                 560

Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys
                565                 570                 575

Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala
            580                 585                 590

Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys
        595                 600                 605

Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu
    610                 615                 620

Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
625                 630                 635                 640

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
                645                 650                 655

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val
            660                 665                 670

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
        675                 680                 685

Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp
    690                 695                 700

Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
705                 710                 715                 720

Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
                725                 730                 735
```

```
His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
            740                 745                 750

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
        755                 760                 765

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    770                 775                 780

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
785                 790                 795                 800

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
                805                 810                 815

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
            820                 825                 830

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
        835                 840                 845

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
    850                 855                 860

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
865                 870                 875                 880

Val Thr Val Ser Ser His His His His His His
                885                 890
```

<210> 259
<211> 898
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro375 (enlazador FL hEGFR1/hEGFR2 Meprina)

<400> 259

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

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

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

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

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220
```

```
Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Ser Tyr Ala Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Val Ala
            420                 425                 430

Ile Asn Trp Ser Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445
```

```
Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
    450                 455                 460

Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Gly Tyr Gln Ile Asn Ser Gly Asn Tyr Asn Phe Lys Asp Tyr Glu Tyr
                485                 490                 495

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly
            500                 505                 510

Gly Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly Ser Gln Thr Val Val
        515                 520                 525

Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu
    530                 535                 540

Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn
545                 550                 555                 560

Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp
                565                 570                 575

Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser
            580                 585                 590

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu
        595                 600                 605

Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val
    610                 615                 620

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly
625                 630                 635                 640

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
                645                 650                 655
```

```
Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn
            660                 665                 670

Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
        675                 680                 685

Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp
    690                 695                 700

Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser
705                 710                 715                 720

Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr
                725                 730                 735

Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile
            740                 745                 750

Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        755                 760                 765

Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
    770                 775                 780

Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala
785                 790                 795                 800

Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln
                805                 810                 815

Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly
            820                 825                 830

Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
        835                 840                 845

Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
    850                 855                 860

Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser
865                 870                 875                 880
```

Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His
885 890 895

His His

<210> 260
<211> 902
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro376 (enlazador Pro262 Meprina)

<400> 260

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

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

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

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

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

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

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

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

```
Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

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

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
            260                 265                 270

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
        275                 280                 285

Thr Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly
    290                 295                 300

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
305                 310                 315                 320

Leu Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe
                325                 330                 335

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

```
Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn
        355                 360                 365

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
    370                 375                 380

Ser Gly Gly Gly Ser Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser
385                 390                 395                 400

Val Gln Thr Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg
                405                 410                 415

Thr Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys
            420                 425                 430

Glu Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly
        435                 440                 445

Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala
    450                 455                 460

Lys Asn Thr Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr
465                 470                 475                 480

Ala Ile Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr
                485                 490                 495

Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser
            500                 505                 510

Ser Ser Gly Gly Gly Lys Lys Leu Ala Asp Glu Pro Glu Gly Gly Ser
        515                 520                 525

Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly
    530                 535                 540

Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly
545                 550                 555                 560

Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly
                565                 570                 575
```

```
Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg
            580                 585                 590

Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly
        595                 600                 605

Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser
    610                 615                 620

Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly
625                 630                 635                 640

Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly
                645                 650                 655

Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly
            660                 665                 670

Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly
        675                 680                 685

Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys
    690                 695                 700

Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser
705                 710                 715                 720

Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys
                725                 730                 735

Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly
            740                 745                 750

Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val
        755                 760                 765

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
    770                 775                 780
```

```
Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg
785                 790                 795                 800


Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser
                805                 810                 815


Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile
            820                 825                 830


Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg
        835                 840                 845


Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met
    850                 855                 860


Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly
865                 870                 875                 880


Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser
                885                 890                 895


His His His His His His
            900
```

<210> 261
<211> 877
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro390 (FL aFOLR1 h59.3 enlazador central extendido con enlazador MMP9)

<400> 261

```
Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
            20                  25                  30


Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Trp Val
        35                  40                  45
```

```
Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60

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

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

His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
            100                 105                 110

Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
        115                 120                 125

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
    130                 135                 140

Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln
145                 150                 155                 160

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
                165                 170                 175

Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
            180                 185                 190

Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
        195                 200                 205

Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
    210                 215                 220

Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
225                 230                 235                 240

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr
                245                 250                 255

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
```

```
            260                 265                 270

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
        275                 280                 285

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
    290                 295                 300

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
305                 310                 315                 320

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
                325                 330                 335

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
            340                 345                 350

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Pro
385                 390                 395                 400

Gly Asn Thr Phe Ser Ile Ser Ala Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415

Gly Lys Gln Arg Glu Trp Val Ala Val Thr His Ser Asp Tyr Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Lys His Tyr Gly Ile Asp Tyr Trp Gly Gln
465                 470                 475                 480
```

```
Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly
                485                 490                 495

Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
            500                 505                 510

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
        515                 520                 525

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
    530                 535                 540

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp
545                 550                 555                 560

Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
                565                 570                 575

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
            580                 585                 590

Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
        595                 600                 605

Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
    610                 615                 620

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
625                 630                 635                 640

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn
                645                 650                 655

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
            660                 665                 670

Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val
        675                 680                 685

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
```

690 695 700

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
705 710 715 720

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
725 730 735

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
740 745 750

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
755 760 765

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
770 775 780

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
785 790 795 800

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
805 810 815

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
820 825 830

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
835 840 845

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
850 855 860

Thr Leu Val Thr Val Ser Ser His His His His His His
865 870 875

<210> 262
<211> 881
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro391 (FL aFOLR1 h59.3 enlazador central

extendido y un enlazador MMP9 extendido)

<400> 262

```
Gln 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 Pro Gly Asn Thr Phe Ser Ile Ser
            20                  25                  30


Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Trp Val
        35                  40                  45


Ala Val Thr His Ser Asp Tyr Ser Thr Asn Tyr Ala Asp Ser Val Lys
    50                  55                  60


Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65                  70                  75                  80


Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Lys
                85                  90                  95


His Tyr Gly Ile Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
            100                 105                 110


Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
        115                 120                 125


Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
    130                 135                 140


Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln
145                 150                 155                 160


Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
                165                 170                 175


Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr
            180                 185                 190


Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn
        195                 200                 205
```

```
Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn
    210                 215                 220

Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr
225                 230                 235                 240

Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr
                245                 250                 255

Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val
            260                 265                 270

Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr
        275                 280                 285

Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile
    290                 295                 300

Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly
305                 310                 315                 320

Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
                325                 330                 335

Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp
            340                 345                 350

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly
        355                 360                 365

Gly Gly Ser Gly Gly Gly Ser Gln Val Gln Leu Val Glu Ser Gly Gly
    370                 375                 380

Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Pro
385                 390                 395                 400

Gly Asn Thr Phe Ser Ile Ser Ala Met Gly Trp Tyr Arg Gln Ala Pro
                405                 410                 415
```

```
Gly Lys Gln Arg Glu Trp Val Ala Val Thr His Ser Asp Tyr Ser Thr
            420                 425                 430

Asn Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
        435                 440                 445

Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
    450                 455                 460

Thr Ala Val Tyr Tyr Cys Lys His Tyr Gly Ile Asp Tyr Trp Gly Gln
465                 470                 475                 480

Gly Thr Leu Val Thr Val Ser Ser Ser Gly Gly Pro Gly Pro Ala Gly
                485                 490                 495

Met Lys Gly Leu Pro Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr
            500                 505                 510

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
        515                 520                 525

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
    530                 535                 540

Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr
545                 550                 555                 560

Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
                565                 570                 575

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
            580                 585                 590

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
        595                 600                 605

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
    610                 615                 620

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
625                 630                 635                 640
```

```
Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
               645                 650                 655

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
            660                 665                 670

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
        675                 680                 685

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
    690                 695                 700

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
705                 710                 715                 720

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
                725                 730                 735

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
            740                 745                 750

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
        755                 760                 765

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
    770                 775                 780

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
785                 790                 795                 800

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
                805                 810                 815

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
            820                 825                 830

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
        835                 840                 845
```

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
    850   855   860

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
865   870   875   880

His

<210> 263
<211> 897
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro412 (Pro186 con enlazador 2aa central extendido)

<400> 263

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1   5   10   15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
            20   25   30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35   40   45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50   55   60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65   70   75   80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85   90   95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100   105   110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115   120   125

```
Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
```

```
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
    370                 375                 380

Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly Ser
385                 390                 395                 400

Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly
                405                 410                 415

Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser
            420                 425                 430

Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys
        435                 440                 445

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu
    450                 455                 460

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
465                 470                 475                 480

Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr
                485                 490                 495

Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Ser Gly Gly Pro
            500                 505                 510

Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr
        515                 520                 525

Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr
    530                 535                 540

Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp
545                 550                 555                 560
```

```
Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr
                565                 570                 575

Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu
            580                 585                 590

Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp
        595                 600                 605

Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe
    610                 615                 620

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly
625                 630                 635                 640

Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
                645                 650                 655

Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys
            660                 665                 670

Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
        675                 680                 685

Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys
    690                 695                 700

Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys
705                 710                 715                 720

Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala
                725                 730                 735

Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser
            740                 745                 750

Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
        755                 760                 765

Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly
```

770 775 780

Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala
785 790 795 800

Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala
805 810 815

Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg
820 825 830

Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg
835 840 845

Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro
850 855 860

Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val
865 870 875 880

Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His
885 890 895

His

<210> 264
<211> 899
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro413 (Pro186 con enlazador 4aa central extendido)

<400> 264

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
20 25 30

```
Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255
```

```
Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser
    370                 375                 380

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
385                 390                 395                 400

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
                405                 410                 415

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
            420                 425                 430

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
        435                 440                 445

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
    450                 455                 460
```

```
Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
465                 470                 475                 480


Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
                485                 490                 495


Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Ser Gly
            500                 505                 510


Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln Thr Val
        515                 520                 525


Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr
    530                 535                 540


Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro
545                 550                 555                 560


Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly
                565                 570                 575


Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly
            580                 585                 590


Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro
        595                 600                 605


Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp
    610                 615                 620


Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly
625                 630                 635                 640


Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
                645                 650                 655


Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
            660                 665                 670


Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
        675                 680                 685
```

```
Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp
    690                 695                 700

Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
705                 710                 715                 720

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
                725                 730                 735

Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr
            740                 745                 750

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
        755                 760                 765

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
    770                 775                 780

Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys
785                 790                 795                 800

Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg
                805                 810                 815

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser
            820                 825                 830

Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile
        835                 840                 845

Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu
    850                 855                 860

Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu
865                 870                 875                 880

Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His
                885                 890                 895
```

His His His

<210> 265
<211> 901
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro414 (Pro186 con enlazador central 6aa extendido)

<400> 265

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
115 120 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
130 135 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145 150 155 160

```
Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly
```

```
    370                 375                 380

Ser Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly
385                 390                 395                 400

Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser
                405                 410                 415

Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe
            420                 425                 430

Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser
        435                 440                 445

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
    450                 455                 460

Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr
465                 470                 475                 480

Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr
                485                 490                 495

Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly
            500                 505                 510

Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln
        515                 520                 525

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
    530                 535                 540

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
545                 550                 555                 560

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
                565                 570                 575

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
            580                 585                 590
```

```
Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
        595                 600                 605

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
    610                 615                 620

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
625                 630                 635                 640

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
                645                 650                 655

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
            660                 665                 670

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
        675                 680                 685

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
    690                 695                 700

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
705                 710                 715                 720

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
                725                 730                 735

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
            740                 745                 750

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
        755                 760                 765

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
    770                 775                 780

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
785                 790                 795                 800

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
```

805 810 815

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
820 825 830

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe
835 840 845

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
850 855 860

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
865 870 875 880

Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His
885 890 895

His His His His His
900

<210> 266
<211> 903
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro415 (Pro186 con enlazador central 8aa extendido)

<400> 266

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

```
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285
```

```
Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
    370                 375                 380

Gly Ser Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr
385                 390                 395                 400

Gly Gly Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg
                405                 410                 415

Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu
            420                 425                 430

Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp
        435                 440                 445

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
    450                 455                 460

Val Asp Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr
465                 470                 475                 480

Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu
                485                 490                 495
```

```
Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly
            500                 505                 510

Gly Gly Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly
        515                 520                 525

Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly
    530                 535                 540

Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser
545                 550                 555                 560

Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg
                565                 570                 575

Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala
            580                 585                 590

Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser
        595                 600                 605

Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr
    610                 615                 620

Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
625                 630                 635                 640

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
                645                 650                 655

Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
            660                 665                 670

Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro
        675                 680                 685

Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr
    690                 695                 700

Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile
705                 710                 715                 720
```

```
Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu
                725                 730                 735

Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe
            740                 745                 750

Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu
        755                 760                 765

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val
    770                 775                 780

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu
785                 790                 795                 800

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met
                805                 810                 815

Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser
            820                 825                 830

Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly
        835                 840                 845

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln
    850                 855                 860

Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile
865                 870                 875                 880

Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser
                885                 890                 895

Ser His His His His His His
            900
```

<210> 267
<211> 893
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro416 (Pro186 con enlazador cent2aa central acortado)

<400> 267

```
Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1               5                  10                  15


Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
            20                  25                  30


Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45


Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60


Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65                  70                  75                  80


Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95


Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110


Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125


Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140


Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160


Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175


Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190
```

```
Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Ser Gly Gly Gly Ser Gln Val Lys
    370                 375                 380

Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly Ser Leu Arg
385                 390                 395                 400

Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met Gly
```

```
                405                 410                 415

Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly Ile
            420                 425                 430

Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly Arg
        435                 440                 445

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln Met
    450                 455                 460

Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala Ala
465                 470                 475                 480

Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp Gly
                485                 490                 495

Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Pro Gly Pro Ala Gly
            500                 505                 510

Met Lys Gly Leu Pro Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
        515                 520                 525

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
    530                 535                 540

Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys
545                 550                 555                 560

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp
                565                 570                 575

Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys
            580                 585                 590

Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr
        595                 600                 605

Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr
    610                 615                 620
```

```
Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln
625                 630                 635                 640

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys
                645                 650                 655

Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn
            660                 665                 670

Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile
        675                 680                 685

Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val
    690                 695                 700

Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr
705                 710                 715                 720

Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys
                725                 730                 735

Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr
            740                 745                 750

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser
        755                 760                 765

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    770                 775                 780

Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr
785                 790                 795                 800

Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly
                805                 810                 815

Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr
            820                 825                 830

Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
```

835 840 845

Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala
850 855 860

Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly
865 870 875 880

Thr Leu Val Thr Val Ser Ser His His His His His His
885 890

<210> 268
<211> 891
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro417 (Pro186 con enlazador 4aa central acortado)

<400> 268

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1 5 10 15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
100 105 110

```
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335
```

```
Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Ser Gly Gly Gly Ser Gln Val Lys Leu
    370                 375                 380

Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly Ser Leu Arg Leu
385                 390                 395                 400

Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met Gly Trp
                405                 410                 415

Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly Ile Ser
            420                 425                 430

Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly Arg Phe
        435                 440                 445

Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln Met Asn
    450                 455                 460

Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala Ala Ala
465                 470                 475                 480

Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln
                485                 490                 495

Gly Thr Gln Val Thr Val Ser Ser Ser Gly Pro Gly Pro Ala Gly Met
            500                 505                 510

Lys Gly Leu Pro Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr
        515                 520                 525

Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly
    530                 535                 540
```

```
Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly
545                 550                 555                 560


Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys
                565                 570                 575


Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala
            580                 585                 590


Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys
        595                 600                 605


Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu
    610                 615                 620


Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val
625                 630                 635                 640


Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
                645                 650                 655


Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val
            660                 665                 670


Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
        675                 680                 685


Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp
    690                 695                 700


Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln
705                 710                 715                 720


Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg
                725                 730                 735


His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly
            740                 745                 750


Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
        755                 760                 765
```

Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
    770   775   780

Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
785   790   795   800

Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
                805   810   815

Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu
            820   825   830

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr
        835   840   845

Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr
    850   855   860

Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu
865   870   875   880

Val Thr Val Ser Ser His His His His His His
                885   890

<210> 269
<211> 889
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro418 (Pro186 con enlazador 6aa central acortado)

<400> 269

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1   5   10   15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
            20   25   30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val

```
        35                  40                  45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255
```

```
Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Gly Ser Gln Val Lys Leu Glu
    370                 375                 380

Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly Ser Leu Arg Leu Thr
385                 390                 395                 400

Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met Gly Trp Phe
                405                 410                 415

Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly Ile Ser Trp
            420                 425                 430

Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr
        435                 440                 445

Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln Met Asn Ser
    450                 455                 460

Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala Ala Ala Gly
```

```
465                 470                 475                 480

Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly
                485                 490                 495

Thr Gln Val Thr Val Ser Ser Gly Pro Gly Pro Ala Gly Met Lys Gly
            500                 505                 510

Leu Pro Ser Gln Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser
        515                 520                 525

Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val
    530                 535                 540

Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala
545                 550                 555                 560

Pro Arg Gly Leu Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr
                565                 570                 575

Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr
            580                 585                 590

Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu
        595                 600                 605

Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val
    610                 615                 620

Leu Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser
625                 630                 635                 640

Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala
                645                 650                 655

Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln
            660                 665                 670

Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr
        675                 680                 685
```

```
Asp Tyr Lys Asp Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe
    690                 695                 700

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn
705                 710                 715                 720

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly
                725                 730                 735

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
            740                 745                 750

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
        755                 760                 765

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn
    770                 775                 780

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe
785                 790                 795                 800

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
                805                 810                 815

Ser Ser Ile Ser Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val
            820                 825                 830

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr
        835                 840                 845

Leu Gln Met Asn Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys
    850                 855                 860

Thr Ile Gly Gly Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr
865                 870                 875                 880

Val Ser Ser His His His His His His
                885
```

<210> 270

<211> 885
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro420 (FL aFOLR1 h77.2/haEGFR1 heterólogo COBRA MMP9 enlazador)

<400> 270

Gln 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 Val Ser Asn Ser
20 25 30

Val Met Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val
35 40 45

Ala Ile Ile Asn Ser Ile Gly Ile Thr Asn Tyr Ala Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu
65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Val Cys Asn
85 90 95

Arg Asn Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu
115 120 125

Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys
130 135 140

Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg
145 150 155 160

Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys
165 170 175

```
Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe
            180                 185                 190

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn
        195                 200                 205

Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Ala
    210                 215                 220

Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly
225                 230                 235                 240

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln
                245                 250                 255

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
            260                 265                 270

Val Thr Leu Thr Cys Ala Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
        275                 280                 285

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
    290                 295                 300

Ile Gly Gly Thr Lys Phe Leu Val Pro Gly Thr Pro Ala Arg Phe Ser
305                 310                 315                 320

Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln
                325                 330                 335

Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg
            340                 345                 350

Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser
        355                 360                 365

Gly Gly Gly Ser Gln Val Lys Leu Val Glu Ser Gly Gly Gly Val Val
    370                 375                 380

Arg Pro Gly Gly Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr
385                 390                 395                 400
```

```
Ser Arg Ser Tyr Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu
                405                 410                 415

Arg Glu Phe Val Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr
            420                 425                 430

Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
        435                 440                 445

Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala
    450                 455                 460

Leu Tyr Tyr Cys Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu
465                 470                 475                 480

Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                485                 490                 495

Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln
            500                 505                 510

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
        515                 520                 525

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
    530                 535                 540

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
545                 550                 555                 560

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
                565                 570                 575

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            580                 585                 590

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
        595                 600                 605
```

```
Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
    610                 615                 620

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
625                 630                 635                 640

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
                645                 650                 655

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
            660                 665                 670

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
        675                 680                 685

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
    690                 695                 700

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
705                 710                 715                 720

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
                725                 730                 735

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
            740                 745                 750

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
        755                 760                 765

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
    770                 775                 780

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
785                 790                 795                 800

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
                805                 810                 815

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe
            820                 825                 830
```

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
835 840 845

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
850 855 860

Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His
865 870 875 880

His His His His His
885

<210> 271
<211> 885
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro421 (FL haEGFR1/aFOLR1 h77.2 heterólogo COBRA MMP9 enlazador)

<400> 271

Gln Val Lys Leu Val Glu Ser Gly Gly Gly Val Val Arg Pro Gly Gly
1 5 10 15

Ser Leu Thr Leu Ser Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
20 25 30

Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Leu Tyr Tyr Cys
85 90 95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp

```
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320
```

```
Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Asn Ser Val Met
                405                 410                 415

Ala Trp Tyr Arg Gln Thr Pro Gly Asn Glu Arg Glu Phe Val Ala Ile
            420                 425                 430

Ile Asn Ser Ile Gly Ile Thr Asn Tyr Ala Asp Ser Val Lys Gly Arg
        435                 440                 445

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met
    450                 455                 460

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Val Cys Asn Arg Asn
465                 470                 475                 480

Phe Asp Arg Ile Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
                485                 490                 495

Ser Gly Gly Pro Gly Pro Ala Gly Met Lys Gly Leu Pro Gly Ser Gln
            500                 505                 510

Thr Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr
        515                 520                 525

Val Thr Leu Thr Cys Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn
```

```
    530                 535                 540

Tyr Pro Asn Trp Val Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu
545                 550                 555                 560

Ile Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe
                565                 570                 575

Ser Gly Ser Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val
            580                 585                 590

Gln Pro Glu Asp Glu Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn
        595                 600                 605

Arg Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly
    610                 615                 620

Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu
625                 630                 635                 640

Val Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe
                645                 650                 655

Thr Phe Asn Lys Tyr Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys
            660                 665                 670

Gly Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp
        675                 680                 685

Asp Asp Asp Lys Ala Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg
    690                 695                 700

Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr
705                 710                 715                 720

Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn
                725                 730                 735

Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
            740                 745                 750
```

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu
        755   760   765

Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu
    770   775   780

Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp
785   790   795   800

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser
                805   810   815

Gly Ser Gly Arg Asp Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe
            820   825   830

Thr Ile Ser Arg Asp Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn
        835   840   845

Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly
    850   855   860

Ser Leu Ser Val Ser Ser Gln Gly Thr Leu Val Thr Val Ser Ser His
865   870   875   880

His His His His His
                885

<210> 272
<211> 896
<212> PRT
<213> Secuencia Artificial

<220>
<223> Sintético constructor - Pro429 (Pro186 Meprina/Grancima B enlazador)

<400> 272

Gln Val Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly
1   5   10   15

Ser Leu Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr
            20   25   30

```
Gly Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
        35                  40                  45

Ser Gly Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys
                85                  90                  95

Ala Ala Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp
            100                 105                 110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly Gly Gly Ser
        115                 120                 125

Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val
    130                 135                 140

Gln Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
145                 150                 155                 160

Phe Asn Lys Tyr Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Lys Gly
                165                 170                 175

Leu Glu Trp Val Ala Arg Ile Arg Ser Lys Tyr Asn Asn Tyr Ala Thr
            180                 185                 190

Tyr Tyr Ala Asp Gln Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp
        195                 200                 205

Ser Lys Asn Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp
    210                 215                 220

Thr Ala Val Tyr Tyr Cys Val Arg His Ala Asn Phe Gly Asn Ser Tyr
225                 230                 235                 240

Ile Ser Tyr Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
```

```
                245                 250                 255

Ser Gly Gly Gly Ser Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu
            260                 265                 270

Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala
        275                 280                 285

Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val Gln
    290                 295                 300

Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe
305                 310                 315                 320

Leu Val Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly
                325                 330                 335

Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu
            340                 345                 350

Tyr Tyr Cys Thr Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly
        355                 360                 365

Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser Gln Val
    370                 375                 380

Lys Leu Glu Glu Ser Gly Gly Gly Ser Val Gln Thr Gly Gly Ser Leu
385                 390                 395                 400

Arg Leu Thr Cys Ala Ala Ser Gly Arg Thr Ser Arg Ser Tyr Gly Met
                405                 410                 415

Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val Ser Gly
            420                 425                 430

Ile Ser Trp Arg Gly Asp Ser Thr Gly Tyr Ala Asp Ser Val Lys Gly
        435                 440                 445

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Asp Leu Gln
    450                 455                 460
```

```
Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Ala
465                 470                 475                 480

Ala Ala Gly Ser Ala Trp Tyr Gly Thr Leu Tyr Glu Tyr Asp Tyr Trp
                485                 490                 495

Gly Gln Gly Thr Gln Val Thr Val Ser Ser Ser Gly Gly Gly Val Tyr
            500                 505                 510

Ala Asp Ser Leu Glu Asp Gly Gly Gly Ser Gln Thr Val Val Thr Gln
        515                 520                 525

Glu Pro Ser Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys
    530                 535                 540

Gly Ser Ser Thr Gly Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Val
545                 550                 555                 560

Gln Gln Lys Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Asp Tyr Lys
                565                 570                 575

Asp Asp Asp Asp Lys Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu
            580                 585                 590

Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu
        595                 600                 605

Ala Glu Tyr Tyr Cys Val Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly
    610                 615                 620

Gly Gly Thr Lys Leu Thr Val Leu Gly Gly Gly Ser Gly Gly Gly Ser
625                 630                 635                 640

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
                645                 650                 655

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr
            660                 665                 670

Ala Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
```

```
        675                 680                 685

Ala Arg Ile Arg Ser Lys Tyr Asp Tyr Lys Asp Asp Asp Asp Lys Ala
    690                 695                 700

Asp Ser Val Lys Asp Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn
705                 710                 715                 720

Thr Ala Tyr Leu Gln Met Asn Asn Leu Lys Thr Glu Asp Thr Ala Val
                725                 730                 735

Tyr Tyr Cys Val Arg His Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr
            740                 745                 750

Trp Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
        755                 760                 765

Gly Gly Ser Gly Gly Gly Ser Glu Val Gln Leu Val Glu Ser Gly Gly
    770                 775                 780

Gly Leu Val Gln Pro Gly Asn Ser Leu Arg Leu Ser Cys Ala Ala Ser
785                 790                 795                 800

Gly Phe Thr Phe Ser Lys Phe Gly Met Ser Trp Val Arg Gln Ala Pro
                805                 810                 815

Gly Lys Gly Leu Glu Trp Val Ser Ser Ile Ser Gly Ser Gly Arg Asp
            820                 825                 830

Thr Leu Tyr Ala Glu Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
        835                 840                 845

Asn Ala Lys Thr Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Pro Glu
    850                 855                 860

Asp Thr Ala Val Tyr Tyr Cys Thr Ile Gly Gly Ser Leu Ser Val Ser
865                 870                 875                 880

Ser Gln Gly Thr Leu Val Thr Val Ser Ser His His His His His His
                885                 890                 895
```