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Presentación de Poder
EXP: NC2016/0001621



CUESTA & ASOCIADOS LTDA
ABOGADOS / ATTORNEYS AT LAW

Señor

José Luis Salazar López

Director de Nuevas Creaciones

Superintendencia de Industria y Comercio

E.

S.

D.



Referencia: Solicitud de PCT Patente de Invención denominada
Anticuerpos Específicos del Receptor del Factor 1 de Crecimiento
Similar a la Insulina y Usos de los Mismos.

Asunto: Presentación del Listado de Secuencias.

Expediente No. NC2016/0001621.

Juan Carlos Cuesta Quintero, mayor de edad, identificado como aparece al pie de mi firma, obrando en mi calidad de apoderado de la sociedad **National Research Council of Canada**, apporto a la actuación administrativa los siguientes documentos:

1. Copia del listado de secuencias.

Cordialmente,

Juan Carlos Cuesta Quintero.

C.C. 79.339.809 de Bogotá

T.P. 43.273 del C.S. de la J.

SEQUENCE LISTING

<110> National Research Council of Canada

Stanimirovic, Danica

Kemmerich, Kristin

Sulea, Traian

Arbabi-Ghahroudi, Mehdi

Haqqani, Arsalan

Gilbert, Renald

Massie, Bernard

<120> Insulin-Like Growth Factor 1 Receptor-Specific Antibodies and
Uses Thereof

<130> 12596-98

<150> 61/948,808

<151> 2014-03-06

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

Xaa Gly Val Ser Arg Asp Gly Leu Thr Thr Leu Tyr Ala Asp Ser Val
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Lys Gly Arg Phe Thr Xaa Ser Arg Asp Asn Xaa Lys Asn Thr Xaa Xaa
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Leu Gln Met Asn Ser Xaa Xaa Ala Glu Asp Thr Ala Val Tyr Tyr Cys
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Ala Ile Val Ile Thr Gly Val Trp Asn Lys Val Asp Val Asn Ser Arg
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35 40 45

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50 55 60

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

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

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

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

Ser Gly Val Ser Arg Asp Gly Leu Thr Thr Leu 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

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35 40 45

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

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

35 40 45

Ala Gly Val Ser Arg Asp Gly Leu Thr Thr Leu Tyr Ala Asp Ser Val

50 55 60

Lys Gly Arg Phe Thr Met Ser Arg Asp Asn Ser Lys Asn Thr Val 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 Ile Val Ile Thr Gly Val Trp Asn Lys Val Asp Val Asn Ser Arg
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Ser Tyr His Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

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

Lys Gly Arg Phe Thr Met Ser Arg Asp Asn Ser Lys Asn Thr Val 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 Ile Val Ile Thr Gly Val Trp Asn Lys Val Asp Val Asn Ser Arg
100 105 110

Ser Tyr His Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Tyr Pro Ser Asn Phe Tyr
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Ala Met Ser Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val
35 40 45

Ser Gly Val Ser Arg Asp Gly Leu Thr Thr Leu 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 Ile Val Ile Thr Gly Val Trp Asn Lys Val Asp Val Asn Ser Arg
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Ser Tyr His Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

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30

Ala Met Ser Trp Xaa Arg Gln Ala Pro Gly Lys Xaa Xaa Glu Xaa Val

35

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45

Xaa Gly Val Ser Arg Asp Gly Leu Thr Thr Leu Tyr Ala Asp Ser Val

50

55

60

Lys Gly Arg Phe Thr Xaa Ser Arg Asp Asn Xaa Lys Asn Thr Xaa Xaa

65

70

75

80

Leu Gln Met Asn Ser Xaa Xaa Ala Glu Asp Thr Ala Val Tyr Tyr Cys

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Ala Ile Val Ile Thr Gly Val Trp Asn Lys Val Asp Val Asn Ser Arg

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Ser Tyr His Tyr Trp Gly Gln Gly Thr Xaa Val Thr Val Ser Ser Met

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Thr Val Asp Lys Lys Leu Glu Pro Ser Gly Pro Ile Ser Thr Ile Asn

130

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Pro Cys Pro Pro Cys Lys Glu Cys His Lys Cys Pro Ala Pro Asn Leu

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Glu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Asn Ile Lys Asp Val

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Leu Met Ile Ser Leu Thr Pro Lys Val Thr Cys Val Val Val Asp Val

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Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp Phe Val Asn Asn Val

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Glu Val His Thr Ala Gln Thr Gln Thr His Arg Glu Asp Tyr Asn Ser
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Thr Ile Arg Val Val Ser Thr Leu Pro Ile Gln His Gln Asp Trp Met
225 230 235 240

Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Asp Leu Pro Ser
245 250 255

Pro Ile Glu Arg Thr Ile Ser Lys Ile Lys Gly Leu Val Arg Ala Pro
260 265 270

Gln Val Tyr Ile Leu Pro Pro Pro Ala Glu Gln Leu Ser Arg Lys Asp
275 280 285

Val Ser Leu Thr Cys Leu Val Val Gly Phe Asn Pro Gly Asp Ile Ser
290 295 300

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

Ala Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Ile Tyr Ser Lys Leu
325 330 335

Asn Met Lys Thr Ser Lys Trp Glu Lys Thr Asp Ser Phe Ser Cys Asn
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Arg Ser Pro Gly Lys
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35

40

45

Phe Val Ala Gly Val Ser Arg Asp Gly Leu Thr Thr Leu Tyr Ala Asp

50

55

60

Ser Val Lys Gly Arg Phe Thr Met Ser Arg Asp Asn Ala Lys Asn Thr

65

70

75

80

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

85

90

95

Tyr Cys Ala Ile Val Ile Thr Gly Val Trp Asn Lys Val Asp Val Asn

100

105

110

Ser Arg Ser Tyr His Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser

115

120

125

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

130

135

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Ile Asn Pro Cys Pro Pro Cys Lys Glu Cys His Lys Cys Pro Ala Pro
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Asn Leu Glu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Asn Ile Lys
165 170 175

Asp Val Leu Met Ile Ser Leu Thr Pro Lys Val Thr Cys Val Val Val
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Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp Phe Val Asn
195 200 205

Asn Val Glu Val His Thr Ala Gln Thr Gln Thr His Arg Glu Asp Tyr
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Asn Ser Thr Ile Arg Val Val Ser Thr Leu Pro Ile Gln His Gln Asp
225 230 235 240

Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Asp Leu
245 250 255

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

Ala Pro Gln Val Tyr Ile Leu Pro Pro Pro Ala Glu Gln Leu Ser Arg
275 280 285

Lys Asp Val Ser Leu Thr Cys Leu Val Val Gly Phe Asn Pro Gly Asp
290 295 300

Ile Ser Val Glu Trp Thr Ser Asn Gly His Thr Glu Glu Asn Tyr Lys
305 310 315 320

Asp Thr Ala Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe Ile Tyr Ser
325 330 335

Lys Leu Asn Met Lys Thr Ser Lys Trp Glu Lys Thr Asp Ser Phe Ser
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Ile Ser Arg Ser Pro Gly Lys
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Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg

35 40 45

Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu Leu Ile

50 55 60

Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val

65 70 75 80

Ile Thr Glu Tyr Leu Leu Leu Phe Arg Val Ala Gly Leu Glu Ser Leu

85

90

95

Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys Leu Phe

100

105

110

Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys Asp Ile

115

120

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Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Ala Ile Arg Ile Glu

130

135

140

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

145

150

155

160

Leu Asp Ala Val Ser Asn Asn Tyr Ile Val Gly Asn Lys Pro Pro Lys

165

170

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Glu Cys Gly Asp Leu Cys Pro Gly Thr Met Glu Glu Lys Pro Met Cys

180

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Glu Lys Thr Thr Ile Asn Asn Glu Tyr Asn Tyr Arg Cys Trp Thr Thr

195

200

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Asn Arg Cys Gln Lys Met Cys Pro Ser Thr Cys Gly Lys Arg Ala Cys

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Thr Glu Asn Asn Glu Cys Cys His Pro Glu Cys Leu Gly Ser Cys Ser

225

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Ala Pro Asp Asn Asp Thr Ala Cys Val Ala Cys Arg His Tyr Tyr Tyr

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Ala Gly Val Cys Val Pro Ala Cys Pro Pro Asn Thr Tyr Arg Phe Glu

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Gly Trp Arg Cys Val Asp Arg Asp Phe Cys Ala Asn Ile Leu Ser Ala

275

280

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Glu Ser Ser Asp Ser Glu Gly Phe Val Ile His Asp Gly Glu Cys Met

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Gln Glu Cys Pro Ser Gly Phe Ile Arg Asn Gly Ser Gln Ser Met Tyr

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340 345 350

Cys Thr Ile Phe Lys Gly Asn Leu Leu Ile Asn Ile Arg Arg Gly Asn
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Asn Ile Ala Ser Glu Leu Glu Asn Phe Met Gly Leu Ile Glu Val Val
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Thr Gly Tyr Val Lys Ile Arg His Ser His Ala Leu Val Ser Leu Ser
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Arg Pro Pro Asp Tyr Arg Asp Leu Ile Ser Phe Thr Val Tyr Tyr Lys
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Glu Ala Pro Phe Lys Asn Val Thr Glu Tyr Asp Gly Gln Asp Ala Cys
530 535 540

Gly Ser Asn Ser Trp Asn Met Val Asp Val Asp Leu Pro Pro Asn Lys
545 550 555 560

17

Asp Val Glu Pro Gly Ile Leu Leu His Gly Leu Lys Pro Trp Thr Gln
565 570 575

Tyr Ala Val Tyr Val Lys Ala Val Thr Leu Thr Met Val Glu Asn Asp
580 585 590

His Ile Arg Gly Ala Lys Ser Glu Ile Leu Tyr Ile Arg Thr Asn Ala
595 600 605

Ser Val Pro Ser Ile Pro Leu Asp Val Leu Ser Ala Ser Asn Ser Ser
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Ser Gln Leu Ile Val Lys Trp Asn Pro Pro Ser Leu Pro Asn Gly Asn
625 630 635 640

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

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Thr Glu Ala Glu Lys Gln Ala Glu Lys Glu Glu Ala Glu Tyr Arg Lys

705 710 715 720

Val Phe Glu Asn Phe Leu His Asn Ser Ile Phe Val Pro Arg Pro Glu

725 730 735

Arg Lys Arg Arg Asp Val Met Gln Val Ala Asn Thr Thr Met Ser Ser

740 745 750

Arg Ser Arg Asn Thr Thr Ala Ala Asp Thr Tyr Asn Ile Thr Asp Pro

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Glu Glu Leu Glu Thr Glu Tyr Pro Phe Phe Glu Ser Arg Val Asp Asn

770 775 780

Lys Glu Arg Thr Val Ile Ser Asn Leu Arg Pro Phe Thr Leu Tyr Arg

785 790 795 800

Ile Asp Ile His Ser Cys Asn His Glu Ala Glu Lys Leu Gly Cys Ser
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Ala Ser Asn Phe Val Phe Ala Arg Thr Met Pro Ala Glu Gly Ala Asp
820 825 830

Asp Ile Pro Gly Pro Val Thr Trp Glu Pro Arg Pro Glu Asn Ser Ile
835 840 845

Phe Leu Lys Trp Pro Glu Pro Glu Asn Pro Asn Gly Leu Ile Leu Met
850 855 860

Tyr Glu Ile Lys Tyr Gly Ser Gln Val Glu Asp Gln Arg Glu Cys Val
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Ser Arg Gln Glu Tyr Arg Lys Tyr Gly Gly Ala Lys Leu Asn Arg Leu
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Asn Pro Gly Asn Tyr Thr Ala Arg Ile Gln Ala Thr Ser Leu Ser Gly
900 905 910

Asn Gly Ser Trp Thr Asp Pro Val Phe Phe Tyr Val Gln Ala Lys Thr
915 920 925

Gly Tyr Glu Asn Phe Ile His Leu Ile Ile Ala Leu Pro Val Ala Val
930 935 940

Leu Leu Ile Val Gly Gly Leu Val Ile Met Leu Tyr Val Phe His Arg
945 950 955 960

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

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Phe Thr Thr Tyr Ser Asp Val Trp Ser Phe Gly Val Val Leu Trp

1190

1195

1200

Glu Ile Ala Thr Leu Ala Glu Gln Pro Tyr Gln Gly Leu Ser Asn

1205

1210

1215

Glu Gln Val Leu Arg Phe Val Met Glu Gly Gly Leu Leu Asp Lys

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Pro Asp Asn Cys Pro Asp Met Leu Phe Glu Leu Met Arg Met Cys

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<400> 17

gcccagccgg ccatggccsm kgtgcagctg gtggaktctg gggga

45

<210> 18

<211> 45

<212> DNA

<213> Artificial

<220>

<223> MJ2 primer

<400> 18

gcccagccgg ccatggccca ggtaaagctg gaggagtctg gggga

45

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ggggtacctg tcatccacgg accagctga

29

<210> 22

<211> 34

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<223> MJ7 primer

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catgtgtaga ctgcggccc agccggccat ggcc

34

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47

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<223> Forward primer

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tatgaagaca ccaggcccag gttaaagctgg aggagtct

38

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<211> 30

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<223> Reverse primer

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ttgttcggat cctgaggaga cggtgacctg

30

<210> 26

<211> 8

<212> PRT

<213> Artificial

23

<220>

<223> IGF1R-3 peptide

<400> 26

Glu Phe Val Ala Gly Val Ser Arg

1

5

<210> 27

<211> 19

<212> PRT

<213> Artificial

<220>

<223> IGF1R-3 peptide

<400> 27

Leu Ser Cys Val Ala Ser Glu Tyr Pro Ser Asn Phe Tyr Ala Met Ser

1

5

10

15

Trp Phe Arg

<210> 28

<211> 11

<212> PRT
<213> Artificial

<220>
<223> IGF1R-3 peptide

<400> 28

Asn Thr Val Asp Leu Gln Met Asn Ser Val Lys
1 5 10

<210> 29
<211> 20
<212> PRT
<213> Artificial

<220>
<223> IGF1R-3 peptide

<400> 29

Ser Tyr His Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Gly
1 5 10 15

Ser Glu Gln Lys
20

24

<210> 30

<211> 15

<212> PRT

<213> Artificial

<220>

<223> FC5 and FC5-ILIS peptide

<400> 30

Ile Thr Trp Gly Gly Asp Asn Thr Phe Tyr Ser Asn Ser Val Lys

1 5 10 15

<210> 31

<211> 9

<212> PRT

<213> Artificial

<220>

<223> A20.1 peptide

<400> 31

Thr Thr Tyr Tyr Ala Asp Ser Val Lys

1 5

<210> 32

<211> 11

<212> PRT

<213> Artificial

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<223> A20.1 peptide

<400> 32

Glu Phe Val Ala Ala Gly Ser Ser Thr Gly Arg

1 5 10

<210> 33

<211> 11

<212> PRT

<213> Artificial

<220>

<223> A20.1 peptide

<400> 33

Thr Phe Ser Met Asp Pro Met Ala Trp Phe Arg

1 5 10

<210> 34

<211> 26

<212> PRT

<213> Artificial

25

<220>

<223> A20.1 peptide

<400> 34

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

Gly Gln Ala Gly Gln Gly Ser Glu Gln Lys
20 25

<210> 35

<211> 11

<212> PRT

<213> Artificial

<220>

<223> EG2 peptide

<400> 35

Asp Phe Ser Asp Tyr Val Met Gly Trp Phe Arg
1 5 10

<210> 36

<211> 16

<212> PRT

<213> Artificial

<220>

<223> EG2 peptide

<400> 36

Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp Ser Leu Arg

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<210> 37

<211> 32

<212> PRT

<213> Artificial

<220>

<223> EG2 peptide

<400> 37

Asn Met Val Tyr Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala

1 5 10 15

Val Tyr Tyr Cys Ala Val Asn Ser Ala Gly Thr Tyr Val Ser Pro Arg

20 25 30

26

<210> 38
<211> 14
<212> PRT
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<220>
<223> Albumin peptide

<400> 38

Ala Pro Gln Val Ser Thr Pro Thr Leu Val Glu Ala Ala Arg
1 5 10

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

<220>
<223> Galanin-cys

<400> 39

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Ile
1 5 10 15

Asp Asn His Arg Ser Phe Ser Asp Lys His Gly Leu Thr Cys Tyr Ser
20 25 30

Thr Glu Ala Met Ile Asp Glu

35

<210> 40

<211> 19

<212> PRT

<213> Artificial

 $\langle 220 \rangle$

<223> Signal peptide

<400> 40

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly

1

5

10

15

Val Gln Cys

<210> 41

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<220>

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<220>

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<220>
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<223> Xaa is Leu or Arg

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23

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<223> Xaa is Leu or Val

<220>

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<223> Xaa is Asp or Tyr

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<223> Xaa is Val or Leu

<220>

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<223> Xaa is Lys or Arg

<220>

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<223> Xaa is Gln or Leu

<400> 41

Glu Pro Ser Gly Pro Ile Ser Thr Ile Asn Pro Cys Pro Pro Cys Lys
1 5 10 15

Glu Cys His Lys Cys Pro Ala Pro Asn Leu Glu Gly Gly Pro Ser Val
20 25 30

Phe Ile Phe Pro Pro Asn Ile Lys Asp Val Leu Met Ile Ser Leu Thr
35 40 45

Pro Lys Val Thr Cys Val Val Val Asp Val Ser Glu Asp Asp Pro Asp
50 55 60

Val Gln Ile Ser Trp Phe Val Asn Asn Val Glu Val His Thr Ala Gln
65 70 75 80

Thr Gln Thr His Arg Glu Asp Tyr Asn Ser Thr Ile Arg Val Val Ser
85 90 95

Thr Leu Pro Ile Gln His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys
100 105 110

29

Cys Lys Val Asn Asn Lys Asp Leu Pro Ser Pro Ile Glu Arg Thr Ile
115 120 125

Ser Lys Ile Lys Gly Leu Val Arg Ala Pro Gln Val Tyr Ile Leu Pro
130 135 140

Pro Pro Ala Glu Gln Leu Ser Arg Lys Asp Val Ser Leu Thr Cys Leu
145 150 155 160

Val Val Gly Phe Asn Pro Gly Asp Ile Ser Val Glu Trp Thr Ser Asn
165 170 175

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

Asp Gly Ser Tyr Phe Ile Tyr Ser Lys Leu Asn Met Lys Thr Ser Lys
195 200 205

Trp Glu Lys Thr Asp Ser Phe Ser Cys Asn Val Arg His Glu Gly Leu
210 215 220

Lys Asn Tyr Tyr Leu Lys Lys Thr Ile Ser Arg Ser Pro Gly Gly Gly
225 230 235 240

Gly Ser Gly Gly Gly Gly Ser Xaa Val Xaa Leu Xaa Glu Ser Gly Gly
245 250 255

Gly Leu Val Gln Xaa Gly Gly Ser Leu Arg Leu Ser Cys Xaa Ala Ser
260 265 270

Glu Tyr Pro Ser Asn Phe Tyr Ala Met Ser Trp Xaa Arg Gln Ala Pro
275 280 285

Gly Lys Xaa Xaa Glu Xaa Val Xaa Gly Val Ser Arg Asp Gly Leu Thr
290 295 300

Thr Leu Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Xaa Ser Arg Asp
305 310 315 320

Asn Xaa Lys Asn Thr Xaa Xaa Leu Gln Met Asn Ser Xaa Xaa Ala Glu
325 330 335

Asp Thr Ala Val Tyr Tyr Cys Ala Ile Val Ile Thr Gly Val Trp Asn
340 345 350

Lys Val Asp Val Asn Ser Arg Ser Tyr His Tyr Trp Gly Gln Gly Thr
355 360 365

Xaa Val Thr Val Ser Ser
370