SEQUENCE LISTING

<110> Novartis AG

<120> ANTIBODIES TO MODIFIED HUMAN IGF-1/E PEPTIDES

<130> PAT052787A

<150> US 61/112957
<151> 2008-11-10

<160> 11

<170> PatentIn version 3.3

<210> 1
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Modified IGF-1 peptide

<400> 1

Gly Pro Thr Leu Cys Gly Ala Glu Leu Val
1 5 10

<210> 2
<211> 11
<212> PRT
<213> Homo sapiens

<400> 2

Gly Pro Glu Thr Leu Cys Gly Ala Glu Leu Val
1 5 10

<210> 3
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Modified IGF-1 peptide

<400> 3

Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly Ser
1 5 10 15

Ser

<210> 4
<211> 17
<212> PRT
<213> Mus musculus

<400> 4

Cys Gly Pro Arg Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly Ser
1 5 10 15

Ser

<210> 5
<211> 11
<212> PRT
<213> Artificial

<220>
<223> modified IGF-1 peptide

<400> 5

Cys Pro Ala Lys Ser Ala Val Arg Ala Gln Arg
1 5 10

<210> 6
<211> 10
<212> PRT
<213> Artificial

<220>
<223> modified IGF-1 peptide

<400> 6

Pro Ala Lys Ser Ala Val Arg Ala Gln Arg
1 5 10

<210> 7
<211> 12
<212> PRT
<213> Mus musculus

<400> 7

Pro Thr Lys Ala Ala Arg Ser Ile Arg Ala Gln Arg
1 5 10

<210> 8
<211> 70
<212> PRT
<213> Homo sapiens

<400> 8

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

Val Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly
20 25 30

Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys
35 40 45

Phe Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu
50 55 60

Lys Pro Ala Lys Ser Ala

65 70

<210> 9
<211> 86
<212> PRT
<213> Homo sapiens

<400> 9

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

Val Cys Gly Asp Arg Gly Phe Tyr Phe Asn Lys Pro Thr Gly Tyr Gly
20 25 30

Ser Ser Ser Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys
35 40 45

Phe Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu
50 55 60

Lys Pro Ala Lys Ser Ala Arg Ser Val Arg Ala Gln Arg His Thr Asp
65 70 75 80

Met Pro Lys Thr Gln Lys
85

<210> 10
<211> 83
<212> PRT
<213> Artificial

<220>
<223> hIGF-1/Ea triple mutant

<400> 10

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

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

Ser Ser Arg Ala Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys Phe
35 40 45

Arg Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu Lys
50 55 60

Pro Ala Lys Ser Ala Val Arg Ala Gln Arg His Thr Asp Met Pro Lys
65 70 75 80

Thr Gln Lys

<210> 11
<211> 83
<212> PRT
<213> Homo sapiens

<400> 11

```
Ala Tyr Arg Pro Ser Glu Thr Leu Cys Gly Gly Glu Leu Val Asp Thr
1               5                  10                  15

Leu Gln Phe Val Cys Gly Asp Arg Gly Phe Tyr Phe Ser Arg Pro Ala
            20                  25                  30

Ser Arg Val Ser Arg Arg Ser Arg Gly Ile Val Glu Glu Cys Cys Phe
        35                  40                  45

Arg Ser Cys Asp Leu Ala Leu Leu Glu Thr Tyr Cys Ala Thr Pro Ala
    50                  55                  60

Lys Ser Ala Arg Asp Val Ser Thr Pro Pro Thr Val Leu Pro Asp Asn
65                  70                  75                  80

Phe Pro Arg
```