SEQUENCE LISTING

<110> SCHOEBERL, BIRGIT
NIELSEN, ULRIK
FELDHAUS, MICHAEL

<120> ANTIBODIES AGAINST THE ECTODOMAIN OF ERBB3 AND USES THEREOF

<130> MMJ-022PC

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<160> 80

<170> PatentIn Ver. 3.5

<210> 1
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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1 5 10 15

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

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

Ser Ser Ile Ser Ser Ser Gly Gly Trp 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

Thr Arg Gly Leu Lys Met Ala Thr Ile Phe Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 2
<211> 111
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 2
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
  1   5   10   15

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

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

Ile Ile Tyr Glu Val Ser Gln Arg Pro Ser Gly Val Ser Asn Arg Phe
     50   55   60

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

Gln Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Cys Ser Tyr Ala Gly Ser
                 85   90   95

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

<210> 3
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 3
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
  1   5   10   15

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

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

Ser Val Ile Tyr Pro Ser Gly Gly Ala Thr Arg 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 Arg Gly Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr
            100   105   110

Leu Val Thr Val Ser Ser
115

<210> 4
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

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

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

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

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Ile Ser
50 55 60

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

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

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

<210> 5
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 5
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Tyr Ile Ser Pro Ser Gly Gly His Thr Lys 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

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

Ala Lys Val Leu Glu Thr Gly Leu Leu Val Asp Ala Phe Asp Ile Trp
            100                 105                 110

Gly Gln Gly Thr Met Val Thr Val Ser Ser
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<210> 6
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 6

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  1               5                  10                  15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Gln Leu Gly Ser Lys Phe Val
             20                  25                  30

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

Lys Asp Lys Arg Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser
     50                  55                  60

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

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

Phe Gly Thr Gly Thr Lys Val Thr Val Leu
            100                 105
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<210> 7
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 7

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His Tyr Val Met Ala
  1               5
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<210> 8
<211> 17
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 8
Ser Ile Ser Ser Ser Gly Gly Trp Thr Leu Tyr Ala Asp Ser Val Lys
  1   5   10   15

Gly

<210> 9
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 9
Gly Leu Lys Met Ala Thr Ile Phe Asp Tyr
  1   5   10

<210> 10
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 10
Thr Gly Thr Ser Ser Asp Val Gly Ser Tyr Asn Val Val Ser
  1   5   10

<210> 11
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 11
Glu Val Ser Gln Arg Pro Ser
  1   5

<210> 12
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 12
Cys Ser Tyr Ala Gly Ser Ser Ile Phe Val Ile
  1   5   10

<210> 13
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 13
Ala Tyr Asn Met Arg
  1   5

<210> 14
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 14
Val Ile Tyr Pro Ser Gly Gly Ala Thr Arg Tyr Ala Asp Ser Val Lys
  1   5   10   15

Gly

<210> 15
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 15
Gly Tyr Tyr Tyr Tyr Gly Met Asp Val
  1   5

<210> 16
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 16

Ser Gly Ser Asp Ser Asn Ile Gly Arg Asn Tyr Ile Tyr
1 5 10

<210> 17
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 17
Arg Asn Asn Gln Arg Pro Ser
1 5

<210> 18
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 18
Gly Thr Trp Asp Asp Ser Leu Ser Gly Pro Val
1 5 10

<210> 19
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 19
Ala Tyr Gly Met Gly
1 5

<210> 20
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 20
Tyr Ile Ser Pro Ser Gly Gly His Thr Lys Tyr Ala Asp Ser Val Lys
1 5 10 15

Gly

<210> 21
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 21
Val Leu Glu Thr Gly Leu Leu Val Asp Ala Phe Asp Ile
  1   5   10

<210> 22
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 22
Ser Gly Asp Gln Leu Gly Ser Lys Phe Val Ser
  1   5   10

<210> 23
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 23
Tyr Lys Asp Lys Arg Arg Pro Ser
  1   5

<210> 24
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 24
Gln Ala Trp Asp Ser Ser Thr Tyr Val
  1   5

<210> 25
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

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tcctgcgccg ccagcggctt caccttcagc cactacgtga tggcctgggt gcggcaggcc 120
ccaggcaagg gcctggaatg ggtgtccagc atcagcagca gcggcggctg gaccctgtac 180
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcac caggggcctg 300
aagatggcca ccatcttcga ctactggggc cagggcaccc tggtgaccgt gagcagc 357

<210> 26
<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 26
cagtccgccc tgacccagcc cgccagcgtg agcggcagcc caggccagag catcaccatc 60
agctgcaccg gcaccagcag cgacgtgggc agctacaacg tggtgtcctg gtatcagcag 120
caccccggca aggcccccaa gctgatcatc tacgaggtgt cccagaggcc cagcggcgtg 180
agcaacaggt tcagcggcag caagagcggc aacaccgcca gcctgaccat cagcggcctg 240
cagaccgagg acgaggccga ctactactgc tgcagctacg ccggcagcag catcttcgtg 300
atcttcggcg agggaccaa ggtgaccgtc cta 333

<210> 27
<211> 354
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 27
gaggtgcagc tgctggaaag cggcggaggg ctggtgcagc caggcggcag cctgaggctg 60
tcctgcgccg ccagcggctt caccttcagc gcctacaaca tgagatgggt gcggcaggcc 120
ccaggcaagg gcctggaatg ggtgtccgtg atctacccca gcggcggagc caccagatac 180
gccgacagcg tgaagggcag gttcaccatc agcagggaca acagcaagaa caccctgtac 240
ctgcagatga acagcctgag ggccgaggac accgccgtgt actactgcgc caggggctac 300
tactactacg gcatggacgt gtggggccag ggcaccctgg tgaccgtgag cagc 354

<210> 28
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 28
cagagcgtgc tgacccagcc cccaagcgcc agcggcaccc caggccagag ggtgaccatc 60
agctgcagcg gcagcgacag caacatcggc aggaactaca tctactggta tcagcagttc 120
cccggcaccg cccccaagct gctgatctac aggaacaacc agaggcccag cggcgtgccc 180

gacaggatca gcggcagcaa gagcggcacc agcgccagcc tggccatcag cggcctgaga 240
agcgaggacg aggccgagta ccactgcggc acctgggacg acagcctgag cggcccagtg 300
ttcggcggag ggaccaagct gaccgtccta 330

<210> 29
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

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tcttgcgctg cttccggatt cactttctct gcttacggta tgggttgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttcttat atctctcctt ctggtggcca tactaagtat 180
gctgactccg ttaaaggtcg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac acggccgtat attactgtgc gaaagtactg 300
gaaactggct tattggttga tgcttttgat atctggggcc aagggacaat ggtcaccgtc 360
tcaagc 366

<210> 30
<211> 318
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 30
cagtacgaat tgactcagcc accctcagtg tccgtgtacc caggacagac agccagcatc 60
acctgctctg gagatcaatt ggggagtaaa tttgtttcct ggtatcagca gaggccaggc 120
cagtcccctg tgttggtcat gtataaagat aaaaggcggc cgtcagagat ccctgagcga 180
ttctctggct ccaactctgg gaacacagcc actctgacca tcagcgggac ccaggctata 240
gatgaggctg actattattg tcaggcgtgg gacagcagca cttatgtctt cggcactggg 300
accaaggtca ccgtccta 318

<210> 31
<211> 357
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 31
gaagttcaat tgttagagtc tggtggcggt cttgttcagc ctggtggttc tttacgtctt 60
tcttgcgctg cttccggatt cactttctct cattacgtta tggcttgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttcttct atctcttctt ctggtggctg gactctttat 180
gctgactccg ttaaaggtcg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac acagccgtgt attactgtac tagaggtctc 300
aagatggcta caatttttga ctactggggc cagggcaccc tggtcaccgt ctcaagc 357

<210> 32

<211> 333
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

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cagagcgctt tgactcagcc tgcctccgtg tctgggtctc ctggacagtc gatcaccatc 60
tcctgcactg gaaccagcag tgatgttggg agttataatg ttgtctcctg gtaccaacaa 120
cacccaggca aagcccccaa actcatcatt tatgaggtca gtcagcggcc ctcaggggtt 180
tctaatcgct tctctggctc caagtctggc aacacggcct ccctgacaat ctctgggctc 240
cagactgagg acgaggctga ttattactgc tgctcatatg caggtagtag tattttcgtg 300
atattcggcg gagggaccaa ggtgaccgtc cta 333

<210> 33
<211> 354
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

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tcttgcgctg cttccggatt cactttctct gcttacaata tgcgttgggt tcgccaagct 120
cctggtaaag gtttggagtg ggtttctgtt atctatcctt ctggtggcgc tactcgttat 180
gctgactccg ttaaaggtcg cttcactatc tctagagaca actctaagaa tactctctac 240
ttgcagatga acagcttaag ggctgaggac acggccgtgt attactgtgc gagagggtac 300
tactactacg gtatggacgt ctggggccaa ggcaccctgg tcaccgtctc aagc 354

<210> 34
<211> 330
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

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tcgtgttctg gaagcgactc caacatcgga agaaattata tatattggta ccagcaattc 120
ccaggaacgg ccccccaagct cctcatctat aggaataatc agcggccctc aggggtccct 180
gaccgaatct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccgg 240
tccgaggatg aggctgagta tcactgtgga acatgggatg acagcctgag tggtccggta 300
ttcggcggag ggactaagct gaccgtccta 330

<210> 35
<211> 118
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 35
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

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

Thr Val Thr Val Ser Ser
115

<210> 36
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 36
Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Ile Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Gly Asp
20 25 30

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

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

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

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

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys
100 105

<210> 37

<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 37
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
  1   5   10   15

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

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

Ser Tyr Ile Gly Ser Ser Gly Gly Pro Thr Tyr Tyr Val 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 Gly Gly Arg Gly Thr Pro Tyr Tyr Phe Asp Ser Trp Gly Gln Gly
            100   105   110

Thr Leu Val Thr Val Ser Ser
        115

<210> 38
<211> 110
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 38
Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
  1   5   10   15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly Arg Trp
             20   25   30

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

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

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

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser

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                85                  90                  95

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


<210> 39
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 39
Trp Tyr Gly Met Gly
  1               5


<210> 40
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 40
Tyr Ile Ser Pro Ser Gly Gly Ile Thr Val Tyr Ala Asp Ser Val Lys
  1               5                  10                  15

Gly



<210> 41
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 41
Leu Asn Tyr Tyr Tyr Gly Leu Asp Val
  1               5


<210> 42
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 42
Gln Ala Ser Gln Asp Ile Gly Asp Ser Leu Asn
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1 5 10

<210> 43
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 43
Asp Ala Ser Asn Leu Glu Thr
1 5

<210> 44
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 44
Gln Gln Ser Ala Asn Ala Pro Phe Thr
1 5

<210> 45
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 45
Arg Tyr Gly Met Trp
1 5

<210> 46
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 46
Tyr Ile Gly Ser Ser Gly Gly Pro Thr Tyr Tyr Val Asp Ser Val Lys
1 5 10 15

Gly

<210> 47
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 47
Gly Arg Gly Thr Pro Tyr Tyr Phe Asp Ser
1 5 10

<210> 48
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 48
Thr Gly Thr Ser Ser Asp Ile Gly Arg Trp Asn Ile Val Ser
1 5 10

<210> 49
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 49
Asp Val Ser Asn Arg Pro Ser
1 5

<210> 50
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 50
Ser Ser Tyr Thr Ser Ser Ser Thr Trp Val
1 5 10

<210> 51
<211> 111
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 51
Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

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

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

Met Ile Tyr Glu Val Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe
50 55 60

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

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Cys Ser Tyr Ala Gly Ser
85 90 95

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

<210> 52
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 52
Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
1 5 10 15

Gly Asp Arg Ile Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Gly Asp
20 25 30

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

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

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

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

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Arg
100 105

<210> 53
<211> 110

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 53
Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly Arg Trp
20 25 30

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

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

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

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser
85 90 95

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

<210> 54
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 54
Arg Tyr Thr Met Ser
1 5

<210> 55
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 55
Thr Ile Ser Gly Gly Gly His Thr Tyr Tyr Leu Asp Ser Val Lys Gly
1 5 10 15

<210> 56
<211> 10
<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 56
Gly Phe Gly Asp Gly Gly Tyr Phe Asp Val
1 5 10

<210> 57
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 57
Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser
1 5 10

<210> 58
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 58
Glu Val Asn Lys Arg Pro Ser
1 5

<210> 59
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 59
Ser Ser Tyr Glu Gly Ser Asp Asn Phe Val
1 5 10

<210> 60
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Tyr, Phe, Trp or His

<400> 60
Xaa Xaa Val Met Ala
  1   5

<210> 61
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(5)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Thr or Ala

<400> 61
Ser Ile Xaa Xaa Xaa Gly Gly Trp Xaa Leu Tyr Ala Asp Ser Val Lys
  1   5   10   15

Gly

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

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Any amino acid

<220>

<221> MOD_RES
<222> (9)..(9)
<223> Any amino acid

<400> 62
Gly Leu Xaa Met Ala Thr Ile Phe Xaa Tyr
  1   5   10

<210> 63
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Tyr, Phe, Trp or His

<220>
<221> MOD_RES
<222> (4)..(5)
<223> Any amino acid

<400> 63
Xaa Xaa Val Xaa Xaa
  1   5

<210> 64
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(7)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Thr or Ala

<220>

<221> MOD_RES
<222> (11)..(17)
<223> Any amino acid

<400> 64
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa
  1   5   10   15

Xaa

<210> 65
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (8)..(10)
<223> Any amino acid

<400> 65
Xaa Leu Xaa Met Xaa Thr Ile Xaa Xaa Xaa
  1   5   10

<210> 66
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES

<222> (3)..(5)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Tyr, Phe, Trp or His

<220>
<221> MOD_RES
<222> (11)..(11)
<223> Any amino acid

<400> 66
Thr Gly Xaa Xaa Xaa Asp Val Gly Xaa Xaa Xaa Val Val Ser
1 5 10

<210> 67
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid

<400> 67
Xaa Xaa Xaa Xaa Xaa Pro Ser
1 5

<210> 68
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Tyr, Phe, Trp or His

<220>
<221> MOD_RES

<222> (6)..(8)
<223> Any amino acid

<400> 68
Cys Ser Xaa Ala Gly Xaa Xaa Xaa Phe Val Ile
  1   5   10

<210> 69
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (7)..(9)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Tyr, Phe, Trp or His

<220>
<221> MOD_RES
<222> (11)..(11)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (13)..(14)
<223> Any amino acid

<400> 69
Xaa Xaa Xaa Xaa Xaa Asp Xaa Xaa Xaa Xaa Xaa Val Xaa Xaa
  1   5   10

<210> 70
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES

<222> (1)..(7)
<223> Any amino acid

<400> 70
Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 71
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(2)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Tyr, Phe, Trp or His

<220>
<221> MOD_RES
<222> (4)..(11)
<223> Any amino acid

<400> 71
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 72
<211> 248
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 72
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

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

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

Ser Ser Ile Ser Ser Ser Gly Gly Trp 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

Thr Arg Gly Leu Lys Met Ala Thr Ile Phe Asp Tyr Trp Gly Gln Gly
            100                 105                 110

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

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

Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr
145                 150                 155                 160

Gly Thr Ser Ser Asp Val Gly Ser Tyr Asn Val Val Ser Trp Tyr Gln
                165                 170                 175

Gln His Pro Gly Lys Ala Pro Lys Leu Ile Ile Tyr Glu Val Ser Gln
            180                 185                 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn
        195                 200                 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Thr Glu Asp Glu Ala Asp
    210                 215                 220

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

Gly Gly Thr Lys Val Thr Val Leu
                245
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<210> 73
<211> 1323
<212> PRT
<213> Homo sapiens

<400> 73

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

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

Leu Tyr Glu Arg Cys Glu Val Val Met Gly Asn Leu Glu Ile Val Leu
         35                  40                  45

Thr Gly His Asn Ala Asp Leu Ser Phe Leu Gln Trp Ile Arg Glu Val
     50                  55                  60

Thr Gly Tyr Val Leu Val Ala Met Asn Glu Phe Ser Thr Leu Pro Leu
 65                  70                  75                  80
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```
Pro Asn Leu Arg Val Val Arg Gly Thr Gln Val Tyr Asp Gly Lys Phe
                 85                  90                  95

Ala Ile Phe Val Met Leu Asn Tyr Asn Thr Asn Ser Ser His Ala Leu
            100                 105                 110

Arg Gln Leu Arg Leu Thr Gln Leu Thr Glu Ile Leu Ser Gly Gly Val
        115                 120                 125

Tyr Ile Glu Lys Asn Asp Lys Leu Cys His Met Asp Thr Ile Asp Trp
    130                 135                 140

Arg Asp Ile Val Arg Asp Arg Asp Ala Glu Ile Val Val Lys Asp Asn
145                 150                 155                 160

Gly Arg Ser Cys Pro Pro Cys His Glu Val Cys Lys Gly Arg Cys Trp
                165                 170                 175

Gly Pro Gly Ser Glu Asp Cys Gln Thr Leu Thr Lys Thr Ile Cys Ala
            180                 185                 190

Pro Gln Cys Asn Gly His Cys Phe Gly Pro Asn Pro Asn Gln Cys Cys
        195                 200                 205

His Asp Glu Cys Ala Gly Gly Cys Ser Gly Pro Gln Asp Thr Asp Cys
    210                 215                 220

Phe Ala Cys Arg His Phe Asn Asp Ser Gly Ala Cys Val Pro Arg Cys
225                 230                 235                 240

Pro Gln Pro Leu Val Tyr Asn Lys Leu Thr Phe Gln Leu Glu Pro Asn
                245                 250                 255

Pro His Thr Lys Tyr Gln Tyr Gly Gly Val Cys Val Ala Ser Cys Pro
            260                 265                 270

His Asn Phe Val Val Asp Gln Thr Ser Cys Val Arg Ala Cys Pro Pro
        275                 280                 285

Asp Lys Met Glu Val Asp Lys Asn Gly Leu Lys Met Cys Glu Pro Cys
    290                 295                 300

Gly Gly Leu Cys Pro Lys Ala Cys Glu Gly Thr Gly Ser Gly Ser Arg
305                 310                 315                 320

Phe Gln Thr Val Asp Ser Ser Asn Ile Asp Gly Phe Val Asn Cys Thr
                325                 330                 335

Lys Ile Leu Gly Asn Leu Asp Phe Leu Ile Thr Gly Leu Asn Gly Asp
            340                 345                 350

Pro Trp His Lys Ile Pro Ala Leu Asp Pro Glu Lys Leu Asn Val Phe
        355                 360                 365

Arg Thr Val Arg Glu Ile Thr Gly Tyr Leu Asn Ile Gln Ser Trp Pro
    370                 375                 380

Pro His Met His Asn Phe Ser Val Phe Ser Asn Leu Thr Thr Ile Gly
```

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385                 390                 395                 400

Gly Arg Ser Leu Tyr Asn Arg Gly Phe Ser Leu Leu Ile Met Lys Asn
                405                 410                 415

Leu Asn Val Thr Ser Leu Gly Phe Arg Ser Leu Lys Glu Ile Ser Ala
            420                 425                 430

Gly Arg Ile Tyr Ile Ser Ala Asn Arg Gln Leu Cys Tyr His His Ser
        435                 440                 445

Leu Asn Trp Thr Lys Val Leu Arg Gly Pro Thr Glu Glu Arg Leu Asp
    450                 455                 460

Ile Lys His Asn Arg Pro Arg Arg Asp Cys Val Ala Glu Gly Lys Val
465                 470                 475                 480

Cys Asp Pro Leu Cys Ser Ser Gly Gly Cys Trp Gly Pro Gly Pro Gly
                485                 490                 495

Gln Cys Leu Ser Cys Arg Asn Tyr Ser Arg Gly Gly Val Cys Val Thr
            500                 505                 510

His Cys Asn Phe Leu Asn Gly Glu Pro Arg Glu Phe Ala His Glu Ala
        515                 520                 525

Glu Cys Phe Ser Cys His Pro Glu Cys Gln Pro Met Glu Gly Thr Ala
    530                 535                 540

Thr Cys Asn Gly Ser Gly Ser Asp Thr Cys Ala Gln Cys Ala His Phe
545                 550                 555                 560

Arg Asp Gly Pro His Cys Val Ser Ser Cys Pro His Gly Val Leu Gly
                565                 570                 575

Ala Lys Gly Pro Ile Tyr Lys Tyr Pro Asp Val Gln Asn Glu Cys Arg
            580                 585                 590

Pro Cys His Glu Asn Cys Thr Gln Gly Cys Lys Gly Pro Glu Leu Gln
        595                 600                 605

Asp Cys Leu Gly Gln Thr Leu Val Leu Ile Gly Lys Thr His Leu Thr
    610                 615                 620

Met Ala Leu Thr Val Ile Ala Gly Leu Val Val Ile Phe Met Met Leu
625                 630                 635                 640

Gly Gly Thr Phe Leu Tyr Trp Arg Gly Arg Arg Ile Gln Asn Lys Arg
                645                 650                 655

Ala Met Arg Arg Tyr Leu Glu Arg Gly Glu Ser Ile Glu Pro Leu Asp
            660                 665                 670

Pro Ser Glu Lys Ala Asn Lys Val Leu Ala Arg Ile Phe Lys Glu Thr
        675                 680                 685

Glu Leu Arg Lys Leu Lys Val Leu Gly Ser Gly Val Phe Gly Thr Val
    690                 695                 700
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```
His Lys Gly Val Trp Ile Pro Glu Gly Glu Ser Ile Lys Ile Pro Val
705                 710                 715                 720

Cys Ile Lys Val Ile Glu Asp Lys Ser Gly Arg Gln Ser Phe Gln Ala
                725                 730                 735

Val Thr Asp His Met Leu Ala Ile Gly Ser Leu Asp His Ala His Ile
            740                 745                 750

Val Arg Leu Leu Gly Leu Cys Pro Gly Ser Ser Leu Gln Leu Val Thr
        755                 760                 765

Gln Tyr Leu Pro Leu Gly Ser Leu Leu Asp His Val Arg Gln His Arg
    770                 775                 780

Gly Ala Leu Gly Pro Gln Leu Leu Leu Asn Trp Gly Val Gln Ile Ala
785                 790                 795                 800

Lys Gly Met Tyr Tyr Leu Glu Glu His Gly Met Val His Arg Asn Leu
                805                 810                 815

Ala Ala Arg Asn Val Leu Leu Lys Ser Pro Ser Gln Val Gln Val Ala
            820                 825                 830

Asp Phe Gly Val Ala Asp Leu Leu Pro Pro Asp Asp Lys Gln Leu Leu
        835                 840                 845

Tyr Ser Glu Ala Lys Thr Pro Ile Lys Trp Met Ala Leu Glu Ser Ile
    850                 855                 860

His Phe Gly Lys Tyr Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val
865                 870                 875                 880

Thr Val Trp Glu Leu Met Thr Phe Gly Ala Glu Pro Tyr Ala Gly Leu
                885                 890                 895

Arg Leu Ala Glu Val Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Ala
            900                 905                 910

Gln Pro Gln Ile Cys Thr Ile Asp Val Tyr Met Val Met Val Lys Cys
        915                 920                 925

Trp Met Ile Asp Glu Asn Ile Arg Pro Thr Phe Lys Glu Leu Ala Asn
    930                 935                 940

Glu Phe Thr Arg Met Ala Arg Asp Pro Pro Arg Tyr Leu Val Ile Lys
945                 950                 955                 960

Arg Glu Ser Gly Pro Gly Ile Ala Pro Gly Pro Glu Pro His Gly Leu
                965                 970                 975

Thr Asn Lys Lys Leu Glu Glu Val Glu Leu Glu Pro Glu Leu Asp Leu
            980                 985                 990

Asp Leu Asp Leu Glu Ala Glu Glu  Asp Asn Leu Ala Thr  Thr Thr Leu
        995                 1000                1005
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Gly Ser  Ala Leu Ser Leu Pro  Val Gly Thr Leu Asn  Arg Pro Arg
    1010                1015                1020

Gly Ser  Gln Ser Leu Leu Ser  Pro Ser Ser Gly Tyr  Met Pro Met
    1025                1030                1035

Asn Gln  Gly Asn Leu Gly Glu  Ser Cys Gln Glu Ser  Ala Val Ser
    1040                1045                1050

Gly Ser  Ser Glu Arg Cys Pro  Arg Pro Val Ser Leu  His Pro Met
    1055                1060                1065

Pro Arg  Gly Cys Leu Ala Ser  Glu Ser Ser Glu Gly  His Val Thr
    1070                1075                1080

Gly Ser  Glu Ala Glu Leu Gln  Glu Lys Val Ser Met  Cys Arg Ser
    1085                1090                1095

Arg Ser  Arg Ser Arg Ser Pro  Arg Pro Arg Gly Asp  Ser Ala Tyr
    1100                1105                1110

His Ser  Gln Arg His Ser Leu  Leu Thr Pro Val Thr  Pro Leu Ser
    1115                1120                1125

Pro Pro  Gly Leu Glu Glu Glu  Asp Val Asn Gly Tyr  Val Met Pro
    1130                1135                1140

Asp Thr  His Leu Lys Gly Thr  Pro Ser Ser Arg Glu  Gly Thr Leu
    1145                1150                1155

Ser Ser  Val Gly Leu Ser Ser  Val Leu Gly Thr Glu  Glu Glu Asp
    1160                1165                1170

Glu Asp  Glu Glu Tyr Glu Tyr  Met Asn Arg Arg Arg  Arg His Ser
    1175                1180                1185

Pro Pro  His Pro Pro Arg Pro  Ser Ser Leu Glu Glu  Leu Gly Tyr
    1190                1195                1200

Glu Tyr  Met Asp Val Gly Ser  Asp Leu Ser Ala Ser  Leu Gly Ser
    1205                1210                1215

Thr Gln  Ser Cys Pro Leu His  Pro Val Pro Ile Met  Pro Thr Ala
    1220                1225                1230

Gly Thr  Thr Pro Asp Glu Asp  Tyr Glu Tyr Met Asn  Arg Gln Arg
    1235                1240                1245

Asp Gly  Gly Gly Pro Gly Gly  Asp Tyr Ala Ala Met  Gly Ala Cys
    1250                1255                1260

Pro Ala  Ser Glu Gln Gly Tyr  Glu Glu Met Arg Ala  Phe Gln Gly
    1265                1270                1275

Pro Gly  His Gln Ala Pro His  Val His Tyr Ala Arg  Leu Lys Thr
    1280                1285                1290

Leu Arg  Ser Leu Glu Ala Thr  Asp Ser Ala Phe Asp  Asn Pro Asp
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    1295                1300                1305

Tyr Trp  His Ser Arg Leu Phe  Pro Lys Ala Asn Ala  Gln Arg Thr
    1310                1315                1320


<210> 74
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 74
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
  1               5                  10                  15


<210> 75
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide


<220>
<221> MOD_RES
<222> (1)..(1)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (2)..(2)
<223> Tyr or Phe

<400> 75
Xaa Xaa Val Met Ala
  1               5


<210> 76
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide


<220>
<221> MOD_RES
<222> (1)..(1)
<223> Any amino acid

<220>
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<221> MOD_RES
<222> (2)..(2)
<223> Tyr or Phe

<220>
<221> MOD_RES
<222> (4)..(5)
<223> Any amino acid

<400> 76
Xaa Xaa Val Xaa Xaa
1 5

<210> 77
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(5)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (9)..(9)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Tyr or Phe

<220>
<221> MOD_RES
<222> (11)..(11)
<223> Any amino acid

<400> 77
Thr Gly Xaa Xaa Xaa Asp Val Gly Xaa Xaa Xaa Val Val Ser
1 5 10

<210> 78
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES
<222> (1)..(5)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (7)..(9)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (10)..(10)
<223> Tyr or Phe

<220>
<221> MOD_RES
<222> (11)..(11)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (13)..(14)
<223> Any amino acid

<400> 78
Xaa Xaa Xaa Xaa Xaa Asp Xaa Xaa Xaa Xaa Xaa Val Xaa Xaa
1 5 10

<210> 79
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Tyr or Phe

<220>
<221> MOD_RES
<222> (6)..(8)
<223> Any amino acid

<400> 79
Cys Ser Xaa Ala Gly Xaa Xaa Xaa Phe Val Ile
1 5 10

<210> 80
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<220>
<221> MOD_RES
<222> (1)..(2)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Tyr or Phe

<220>
<221> MOD_RES
<222> (4)..(11)
<223> Any amino acid

<400> 80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
  1   5   10

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1