SEQUENCE LISTING

<110> Raeber, Olivia
Gazit-Bornstein, Gadi
Yang, Xiaodong
Cartlidge, Susan Ann
Tonge, David William

<120> BINDING PROTEINS SPECIFIC FOR
INSULIN-LIKE GROWTH FACTORS AND USES THEREOF

<130> ABXAZ.004VPC

<160> 102

<170> FastSEQ for Windows Version 4.0

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35 40 45
Trp Ile Gly Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Phe
65 70 75 80
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
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Cys Ala Arg Gln Arg Gly His Ser Ser Gly Trp Trp Tyr Phe Asp Leu
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gggaaagccc ctaaactcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180
aggttcagcg gcaatggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240

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35 40 45
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Asn Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
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35 40 45
Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
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His Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60
Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80
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100 105 110

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ccagggaggg gactggagtg gattggctat ttcttttaca gtgggtacac caactacaac 180
ccctccctca agagtcgcgt caccatgtca gttgacacgt ccaagaacca gttctctctg 240
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Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile
35 40 45
Gly Tyr Phe Phe Tyr Ser Gly Tyr Thr Asn Tyr Asn Pro Ser Leu Lys
50 55 60
Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65 70 75 80
Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95
Cys Ile Thr Gly Thr Thr Lys Gly Gly Met Asp Val Trp Gly Gln Gly
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Ala Thr Val Thr Val Ser Ser Ala
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cctgaccgat tctctggctc caagtctggc acctcagcct ccctggccat cactgggctc 240
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Tyr Asp Val His Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
85 90 95
Leu Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

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aagctgagct ctgtgaccgc tgcggacacg gccgtgtatt actgtgcgtg tataactgga 300
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<211> 120
<212> PRT
<213> Human

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20 25 30
Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45
Gly Tyr Phe Phe Tyr Ser Gly Tyr Thr Asn Tyr Asn Pro Ser Leu Lys
50 55 60
Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65 70 75 80
Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95
Cys Ile Thr Gly Thr Thr Lys Gly Gly Met Asp Val Trp Gly Gln Gly

100 105 110
Thr Thr Val Thr Val Ser Ser Ala
115 120

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cctgaccgat tctctggctc caagtctggc acctcagcct ccctggccat cactgggctc 240
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Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
20 25 30
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Gly Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80
Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Phe Asp Ser Ser
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cagccccag ggaagggact ggcgtggatt gggggcatct attatagtgg gagcacctac 180
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gtctcctcag cc 372

<210> 18
<211> 124
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<400> 18
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20 25 30
Ser Asn Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Ala
35 40 45
Trp Ile Gly Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60

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Leu Arg Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Phe
65                  70                  75                  80
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95
Cys Ala Arg Gln Arg Gly His Ser Ser Gly Trp Trp Tyr Phe Asp Leu
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Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala
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<400> 20
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            20                  25                  30
Leu Ala Trp Tyr Gln Gln Arg Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45
Tyr Thr Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro Phe
                85                  90                  95
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<213> Human

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<210> 26
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<400> 27
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<210> 28
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<400> 28
Tyr Phe Phe Tyr Ser Gly Tyr Thr Asn Tyr Asn Pro Ser Leu Lys Ser
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<210> 30

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<400> 30
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<400> 31
Gly Asn Ser Asn Arg Pro Ser
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<210> 32
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<400> 32
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<210> 33
<211> 5
<212> PRT
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<400> 33
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<210> 34
<211> 17
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<210> 36
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<210> 37
<211> 7
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<400> 37
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<210> 38
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Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser
35 40 45
Ile Arg Ser Ser Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly
50 55 60
Lys Gly Leu Glu Trp Ile Gly Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr
65 70 75 80
Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Met Ser Val Asp Thr Ser
85 90 95
Lys Asn Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr
100 105 110
Ala Val Tyr Tyr Cys Ala Arg Gln Arg Gly His Ser Ser Gly Trp Trp
115 120 125
Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala
130 135 140
Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser
145 150 155 160
Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
165 170 175

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180 185 190
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<212> DNA
<213> Human

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gaagattttg caacttacta ttgtcaacag gctaacaatt tcccattcac tttcggccct 360
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20 25 30
Ala Ser Val Gly Asp Ser Val Thr Ile Thr Cys Arg Ala Ser Gln Gly
35 40 45
Ile Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
50 55 60
Lys Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser
65 70 75 80
Arg Phe Ser Gly Asn Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
85 90 95
Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn
100 105 110
Asn Phe Pro Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
115 120 125
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
130 135

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<211> 437
<212> DNA
<213> Human

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gcctccacca agggccc 437

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<400> 44
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            20                  25                  30
Lys Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr
        35                  40                  45
Phe Thr Ser Tyr Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly
    50                  55                  60
Leu Glu Trp Met Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr
65                  70                  75                  80
Ala Gln Lys Phe Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile
                85                  90                  95
Ser Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala
            100                 105                 110
Val Tyr Tyr Cys Ala Arg Asp Pro Tyr Tyr Tyr Tyr Tyr Gly Met Asp
        115                 120                 125
Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys
    130                 135                 140
Gly
145
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<212> DNA
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tgctctggaa gcagctccaa cattgagaat aatcatgtat cctggtacca gcagctccca 180
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ggggacgagg ccgattatta ctgcgaaaca tgggatacca gcctgagtgc tggccgggta 360
ttcggcggag ggaccaagct gaccgtccta ggtcagccca aggctgcccc ctcggtcact 420
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<212> PRT
<213> Human

<400> 46
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            20                  25                  30
Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile
        35                  40                  45
Glu Asn Asn His Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro
    50                  55                  60
Lys Leu Leu Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp
65                  70                  75                  80
Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr
                85                  90                  95
Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Glu Thr Trp Asp
            100                 105                 110
Thr Ser Leu Ser Ala Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr
        115                 120                 125
Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro
    130                 135                 140
Ser Ser Glu Glu Leu Gln Ala Asn Lys
145                 150
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<210> 47
<211> 613
<212> DNA
<213> Human

<400> 47
accatgaaac atctgtggtt cttccttctc ctggtggcag ctcccagatg ggtcctgtcc 60
caggtgcagc tgcaggagtc gggcccagga ctggtgaagc cttcggagac cctgtccctc 120
acctgcactg tctctggtgg ctccatcagt agttactact ggagctggat ccggcagccc 180
ccagggaggg gactggagtg gattggctat ttcttttaca gtgggtacac caactacaac 240
ccctccctca agagtcgcgt caccatgtca gttgacacgt ccaagaacca gttctctctg 300
aagctgagct ctgtgaccgc tgcggacacg gccgtgtatt actgtgcgtg tataactgga 360
acgacgaagg ggggtatgga cgtctggggc caaggggcca cggtcaccgt ctcctcagcc 420
tccaccaagg gcccatcggt cttccccctg gcgccctgct ccaggagcac ctccgagagc 480
acagcggccc tgggctgcct ggtcaaggac tacttccccg aaccggtgac ggtgtcgtgg 540
aactcaggcg ctctgaccag cggcgtgcac accttcccag ctgtcctaca gtcctcagga 600
ctctactccc tca 613

<210> 48
<211> 204
<212> PRT
<213> Human

<400> 48
Thr Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg
 1   5   10   15
Trp Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val
            20   25   30
Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser
        35   40   45
Ile Ser Ser Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Arg Gly
    50   55   60
Leu Glu Trp Ile Gly Tyr Phe Phe Tyr Ser Gly Tyr Thr Asn Tyr Asn
65   70   75   80
Pro Ser Leu Lys Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn
                85   90   95
Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val
            100   105   110
Tyr Tyr Cys Ala Cys Ile Thr Gly Thr Thr Lys Gly Gly Met Asp Val
        115   120   125
Trp Gly Gln Gly Ala Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly
    130   135   140
Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser
145   150   155   160
Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
                165   170   175
Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
            180   185   190
Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
        195   200

<210> 49
<211> 432
<212> DNA
<213> Human

<400> 49
cctctgctcc tcactctcct cgctcactgc acagggtcct gggcccagtc tgtgctgacg 60
caggcgccct cagtgtctgg ggccccaggg cagagggtca ccatctcctg cactgggaga 120
agttccaaca tcggggcagg ttatgatgta cactggtacc agcagtttcc aggaacagcc 180
cccaaactcc tcatctatgg taacagcaat cggccctcag gggtccctga ccgattctct 240
ggctccaagt ctggcacctc agcctccctg gccatcactg ggctccaggc tgaggatgag 300
gctgattatt actgccagtc ctatgacagc agtctgagtg gttcggtatt cggcggaggg 360
accaagctga ccgtcctagg tcagcccaag gctgcccccc cggtcactct gttcccgccc 420
tcctctgagg ag 432

<210> 50
<211> 144
<212> PRT
<213> Human

<400> 50
Pro Leu Leu Leu Thr Leu Leu Ala His Cys Thr Gly Ser Trp Ala Gln
1 5 10 15
Ser Val Leu Thr Gln Ala Pro Ser Val Ser Gly Ala Pro Gly Gln Arg
20 25 30
Val Thr Ile Ser Cys Thr Gly Arg Ser Ser Asn Ile Gly Ala Gly Tyr
35 40 45
Asp Val His Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu
50 55 60
Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
65 70 75 80
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln
85 90 95
Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu
100 105 110
Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
115 120 125
Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
130 135 140

<210> 51
<211> 543
<212> DNA
<213> Human

<400> 51
atgaagcatc tgtggttctt ccttctcctg gtggcagctc ccagatgggt cctgtcccag 60
gtgcagctgc aggagtcggg cccaggactg gtgaagcctt cggagaccct gtccctcacc 120
tgcactgtct ctggtggctc catcagtagt tactactgga gctggatccg gcagcccccа 180
gggaagggac tggagtggat tgggtatttc ttttacagtg ggtacaccaa ctacaacccc 240
tccctcaaga gtcgagtcac catatcagta gacacgtcca agaaccagtt ctccctgaag 300
ctgagctctg tgaccgctgc ggacacggcc gtgtattact gtgcgtgtat aactggaacg 360
acgaaggggg gtatggacgt ctggggccaa gggaccacgg tcaccgtctc ctcagcctcc 420
accaagggcc catcggtctt ccccctggcg ccctgctcca ggagcacctc cgagagcaca 480
gcggccctgg gctgcctggt caaggactac ttccccgaac cggtgacggt gtcgtggaac 540
tca 543

<210> 52
<211> 181
<212> PRT
<213> Human

<400> 52
Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15
Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys
20 25 30
Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile
35 40 45
Ser Ser Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu
50 55 60
Glu Trp Ile Gly Tyr Phe Phe Tyr Ser Gly Tyr Thr Asn Tyr Asn Pro
65 70 75 80
Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
85 90 95
Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
100 105 110
Tyr Cys Ala Cys Ile Thr Gly Thr Thr Lys Gly Gly Met Asp Val Trp
115 120 125
Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
130 135 140
Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr
145 150 155 160
Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
165 170 175
Val Ser Trp Asn Ser
180

<210> 53
<211> 451
<212> DNA
<213> Human

<400> 53
tcctctgctc ctcactctcc tcgctcactg cacagggtcc tgggcccagt ctgtactgac 60
gcagccgccc tcagtgtctg gggccccagg gcagagggtc accatctcct gcactgggag 120
cagctccaac atcggggcag gttatgatgt acactggtac cagcagcttc caggaacagc 180
ccccaagctc ctcatctatg gtaacaacaa tcggccctca ggggtccctg accgattctc 240
tggctccaag tctggcacct cagcctccct ggccatcact gggctccagg ctgatgatga 300
ggctgattat tactgccagt cctttgacag cagtctgagt ggttcggtat tcggcggagg 360
gaccaagctg accgtcctag gtcagcccaa ggctgccccc tcggtcactc tgttcccgcc 420
ctcctctgag gagctccaag ccaacaagga a 451

<210> 54
<211> 145
<212> PRT
<213> Human

<400> 54
Pro Leu Leu Leu Thr Leu Leu Ala His Cys Thr Gly Ser Trp Ala Gln
1 5 10 15
Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg
20 25 30
Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr
35 40 45
Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
50 55 60
Ile Tyr Gly Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
65 70 75 80
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln
85 90 95
Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Phe Asp Ser Ser Leu
100 105 110
Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
115 120 125
Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
130 135 140
Leu
145

<210> 55
<211> 559
<212> DNA
<213> Human

<400> 55
accatgaaac atctgtggtt cttcctcctg ctggtggcgg ctcccagatg ggtcctgtcc 60
cagctgcagc tgcaggagtc gggcccagga ctggtgaagc cttcggagac cctgtccctc 120
acctgcactg tctctggtgg ctccatcaac agtagtagta actactgggg ctggatccgc 180
cagccccag ggaagggact ggcgtggatt gggggcatct attatagtgg gagcacctac 240
tacaacccgt ccctcaggag tcgagtcacc atgtccgtag acacgtccaa gaaccagttc 300
tccctgaagc tgagctctgt gaccgccgca gacacggctg tatattactg tgcgagacaa 360
aggggtcata gcagtggctg gtggtacttc gatctctggg gccgtggcac cctggtcact 420
gtctcctcag cctccaccaa gggcccatcg gtcttccccc tggcgccctg ctccaggagc 480
acctccgaga gcacagcggc cctgggctgc ctggtcaagg actacttccc cgaaccggtg 540
acggtgtcgt ggaactcag 559

<210> 56
<211> 186
<212> PRT
<213> Human

<400> 56

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Thr Met Lys His Leu Trp Phe Phe Leu Leu Val Ala Ala Pro Arg
 1               5                  10                  15
Trp Val Leu Ser Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val
            20                  25                  30
Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser
        35                  40                  45
Ile Asn Ser Ser Ser Asn Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly
    50                  55                  60
Lys Gly Leu Ala Trp Ile Gly Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr
65                  70                  75                  80
Tyr Asn Pro Ser Leu Arg Ser Arg Val Thr Met Ser Val Asp Thr Ser
                85                  90                  95
Lys Asn Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr
            100                 105                 110
Ala Val Tyr Tyr Cys Ala Arg Gln Arg Gly His Ser Ser Gly Trp Trp
        115                 120                 125
Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala
    130                 135                 140
Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser
145                 150                 155                 160
Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
                165                 170                 175
Pro Glu Pro Val Thr Val Ser Trp Asn Ser
            180                 185
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<210> 57
<211> 532
<212> DNA
<213> Human

<400> 57

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atgagggtcc ccgctcagct cctggggctc ctgctgctct ggttcccagg ttccagatgc 60
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 120
atcacttgtc gggcgagtcg gggtattagc agctggttag cctggtatca gcagagacca 180
gggaaagccc ctaagctcct gatctatact gcatccagtt tgcaaagtgg ggtcccatca 240
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 300
gaagattttg caacttacta ttgtcaacag gctaacagtt tcccattcac tttcggccct 360
gggaccaaag tggatatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcca 420
tctgatgagc agttgaaatc tggaactgcc tctgttgtgt gcctgctgaa taacttctat 480
cccagagagg ccaaagtaca gtggaaggtg gataacgccc tccaatcggg ta          532
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<210> 58
<211> 177
<212> PRT
<213> Human

<400> 58

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Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Phe Pro
 1               5                  10                  15
Gly Ser Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser
            20                  25                  30
Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly
        35                  40                  45
Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Arg Pro Gly Lys Ala Pro
    50                  55                  60
Lys Leu Leu Ile Tyr Thr Ala Ser Ser Leu Gln Ser Gly Val Pro Ser
65                  70                  75                  80
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
                85                  90                  95
Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn
            100                 105                 110
Ser Phe Pro Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
        115                 120                 125
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln
    130                 135                 140
Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr
145                 150                 155                 160
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Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser
165 170 175
Gly

<210> 59
<211> 594
<212> DNA
<213> Human

<400> 59
accatgaaac atctgtggtt cttcctcctg ctggtggcgg ctcccagatg ggtcctgtcc 60
cagctgcagc tgcaggagtc gggcccagga ctggtgaagc cttcggagac cctgtccctc 120
acctgcactg tctctggtgg ctccatcagc agtagtagtt actactgggg ctggatccgc 180
cagccccag ggaaggggct ggagtggatt gggggtatct attatagtgg gagcacctac 240
tacaacccgt ctctcaagag tcgagtcatc atgtccgtag acacgtccaa gaaccagttc 300
tccctgaagc tgagctccgt gaccgccgca gacacggctg tgtattactg tgcgagacaa 360
aggggtcata gcagtggctg gtggtacttc gatctctggg gccgtggcac cctggtcact 420
gtctcctcag cctccaccaa gggcccatcg gtcttccccc tggcgccctg ctccaggagc 480
acctccgaga gcacagcggc cctgggctgc ctggtcaagg actacttccc cgaaccggtg 540
acggtgtcgt ggaactcagg cgctctgacc agcggcgtgc acaccttccc agct 594

<210> 60
<211> 198
<212> PRT
<213> Human

<400> 60
Thr Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg
1 5 10 15
Trp Val Leu Ser Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val
20 25 30
Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser
35 40 45
Ile Ser Ser Ser Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly
50 55 60
Lys Gly Leu Glu Trp Ile Gly Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr
65 70 75 80
Tyr Asn Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser
85 90 95
Lys Asn Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr
100 105 110
Ala Val Tyr Tyr Cys Ala Arg Gln Arg Gly His Ser Ser Gly Trp Trp
115 120 125
Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Ala
130 135 140
Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser
145 150 155 160
Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
165 170 175
Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
180 185 190
Val His Thr Phe Pro Ala
195

<210> 61
<211> 419
<212> DNA
<213> Human

<400> 61
atgagggtcc ctgctcagct cctggggctc ctgctgctct ggttcccagg ttccagatgc 60
gacatccaga tgacccagtc tccatcttcc gtgtctgcat ctgtaggaga cagagtcacc 120
atcacttgtc gggcgagtca gggtattagc agctacttag cctggtatca gcagaaacca 180
gggaaagccc ctaaactcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 240
aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 300

gaagattttg caacttacta ttgtcaacag gctaacaatt tcccattcac tttcggccct 360
gggaccaaag tggatatcaa acgaactgtg gctgcaccat ctgtcttcat cttcccgcc 419

<210> 62
<211> 139
<212> PRT
<213> Human

<400> 62

Met	Arg	Val	Pro	Ala	Gln	Leu	Leu	Gly	Leu	Leu	Leu	Leu	Trp	Phe	Pro
1				5				10						15	
Gly	Ser	Arg	Cys	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser
			20					25					30		
Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly
		35					40					45			
Ile	Ser	Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro
	50					55					60				
Lys	Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser
65					70					75					80
Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser
				85					90					95	
Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ala	Asn
			100					105					110		
Asn	Phe	Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg
		115					120					125			
Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro					
	130					135									

<210> 63
<211> 437
<212> DNA
<213> Human

<400> 63
accatggact ggacctggag gatcctcttc ttggtggcag cagctacaag tgcccactcc 60
caggtgcagc tggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc 120
tcctgcaagg cttctggata caccttcacc agttatgata tcaactgggt gcgacaggcc 180
actggacaag ggcttgagtg gatgggatgg atgaacccta acagtggtaa cacaggctat 240
gcacagaagt tccagggcag agtcaccatg accagggaca cctccataag cacagcctac 300
atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagagaccct 360
tactactact actacggtat ggacgtctgg ggccaaggga ccacggtcac cgtctcctca 420
gcctccacca agggccc 437

<210> 64
<211> 145
<212> PRT
<213> Human

<400> 64

Thr	Met	Asp	Trp	Thr	Trp	Arg	Ile	Leu	Phe	Leu	Val	Ala	Ala	Ala	Thr
1				5				10						15	
Ser	Ala	His	Ser	Gln	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys
			20					25					30		
Lys	Pro	Gly	Ala	Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr
		35					40					45			
Phe	Thr	Ser	Tyr	Asp	Ile	Asn	Trp	Val	Arg	Gln	Ala	Thr	Gly	Gln	Gly
	50					55					60				
Leu	Glu	Trp	Met	Gly	Trp	Met	Asn	Pro	Asn	Ser	Gly	Asn	Thr	Gly	Tyr
65					70					75					80
Ala	Gln	Lys	Phe	Gln	Gly	Arg	Val	Thr	Met	Thr	Arg	Asp	Thr	Ser	Ile
				85					90					95	
Ser	Thr	Ala	Tyr	Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala
			100					105					110		
Val	Tyr	Tyr	Cys	Ala	Arg	Asp	Pro	Tyr	Tyr	Tyr	Tyr	Tyr	Gly	Met	Asp
		115					120					125			
Val	Trp	Gly	Gln	Gly	Thr	Thr	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys
	130					135					140				

Gly
145

<210> 65
<211> 460
<212> DNA
<213> Human

<400> 65
atggcctggt ctcctctcct cctcaccctt ctcattcact gcacagggtc ctgggcccag 60
tctgtgttga cgcagccgcc ctcagtctct gcggccccag gacagaaggt caccatctcc 120
tgctctggaa gcagctccaa cattgagaat aatcatgtat cctggtacca gcagctccca 180
ggaacagccc ccaaactcct catttatgac aataataagc gaccctcagg gattcctgac 240
cgattctctg gctccaagtc tggcacgtca gccaccctgg gcatcaccgg actccagact 300
ggggacgagg ccgattatta ctgcgaaaca tgggatacca gcctgagtgc tggccgggta 360
ttcggcggag ggaccaagct gaccgtccta ggtcagccca aggctgcccc ctcggtcact 420
ctgttcccac cctcctctga ggagctccaa gccaacaagg 460

<210> 66
<211> 153
<212> PRT
<213> Human

<400> 66
Met Ala Trp Ser Pro Leu Leu Leu Thr Leu Leu Ile His Cys Thr Gly
 1   5   10   15
Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala
            20   25   30
Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile
        35   40   45
Glu Asn Asn His Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro
    50   55   60
Lys Leu Leu Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp
65   70   75   80
Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr
                85   90   95
Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Glu Thr Trp Asp
            100   105   110
Thr Ser Leu Ser Ala Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr
        115   120   125
Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro
    130   135   140
Ser Ser Glu Glu Leu Gln Ala Asn Lys
145   150

<210> 67
<211> 613
<212> DNA
<213> Human

<400> 67
accatgaaac atctgtggtt cttccttctc ctggtggcag ctcccagatg ggtcctgtcc 60
caggtgcagc tgcaggagtc gggcccagga ctggtgaagc cttcggagac cctgtccctc 120
acctgcactg tctctggtgg ctccatcagt agttactact ggagctggat ccggcagccc 180
ccagggaagg gactggagtg gattggctat ttcttttaca gtgggtacac caactacaac 240
ccctccctca agagtcgcgt caccatctca gttgacacgt ccaagaacca gttctctctg 300
aagctgagct ctgtgaccgc tgcggacacg gccgtgtatt actgtgcgcg tataactgga 360
acgacgaagg ggggtatgga cgtctggggc caagggacca cggtcaccgt ctcctcagcc 420
tccaccaagg gcccatcggt cttccccctg gcgccctgct ccaggagcac ctccgagagc 480
acagcggccc tgggctgcct ggtcaaggac tacttccccg aaccggtgac ggtgtcgtgg 540
aactcaggcg ctctgaccag cggcgtgcac accttcccag ctgtcctaca gtcctcagga 600
ctctactccc tca 613

<210> 68
<211> 204
<212> PRT

<213> Human

<400> 68

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Thr Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg
 1               5                  10                  15
Trp Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val
            20                  25                  30
Lys Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser
        35                  40                  45
Ile Ser Ser Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly
    50                  55                  60
Leu Glu Trp Ile Gly Tyr Phe Phe Tyr Ser Gly Tyr Thr Asn Tyr Asn
65                  70                  75                  80
Pro Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn
                85                  90                  95
Gln Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val
            100                 105                 110
Tyr Tyr Cys Ala Arg Ile Thr Gly Thr Thr Lys Gly Gly Met Asp Val
        115                 120                 125
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly
    130                 135                 140
Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser
145                 150                 155                 160
Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val
                165                 170                 175
Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe
            180                 185                 190
Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
        195                 200
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<210> 69
<211> 432
<212> DNA
<213> Human

<400> 69

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cctctgctcc tcactctcct cgctcactgc acagggtcct gggcccagtc tgtgctgacg 60
cagccgccct cagtgtctgg ggccccaggg cagagggtca ccatctcctg cactgggaga 120
agttccaaca tcggggcagg ttatgatgta cactggtacc agcagttgcc aggaacagcc 180
cccaaactcc tcatctatgg taacagcaat cggccctcag gggtccctga ccgattctct 240
ggctccaagt ctggcacctc agcctccctg gccatcactg ggctccaggc tgaggatgag 300
gctgattatt actgccagtc ctatgacagc agtctgagtg gttcggtatt cggcggaggg 360
accaagctga ccgtcctagg tcagcccaag gctgcccccc cggtcactct gttcccgccc 420
tcctctgagg ag                                                     432
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<210> 70
<211> 144
<212> PRT
<213> Human

<400> 70

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 1               5                  10                  15
Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg
            20                  25                  30
Val Thr Ile Ser Cys Thr Gly Arg Ser Ser Asn Ile Gly Ala Gly Tyr
        35                  40                  45
Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
    50                  55                  60
Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
65                  70                  75                  80
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln
                85                  90                  95
Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu
            100                 105                 110
Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
        115                 120                 125
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Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
130 135 140

<210> 71
<211> 543
<212> DNA
<213> Human

<400> 71
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gtgcagctgc aggagtcggg cccaggactg gtgaagcctt cggagaccct gtccctcacc 120
tgcactgtct ctggtggctc catcagtagt tactactgga gctggatccg gcagcccccа 180
gggaagggac tggagtggat tgggtatttc ttttacagtg ggtacaccaa ctacaacccc 240
tccctcaaga gtcgagtcac catatcagta gacacgtcca agaaccagtt ctccctgaag 300
ctgagctctg tgaccgctgc ggacacggcc gtgtattact gtgcgcgtat aactggaacg 360
acgaaggggg gtatggacgt ctggggccaa gggaccacgg tcaccgtctc ctcagcctcc 420
accaagggcc catcggtctt ccccctggcg ccctgctcca ggagcacctc cgagagcaca 480
gcggccctgg gctgcctggt caaggactac ttccccgaac cggtgacggt gtcgtggaac 540
tca 543

<210> 72
<211> 181
<212> PRT
<213> Human

<400> 72
Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15
Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys
20 25 30
Pro Ser Glu Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile
35 40 45
Ser Ser Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu
50 55 60
Glu Trp Ile Gly Tyr Phe Phe Tyr Ser Gly Tyr Thr Asn Tyr Asn Pro
65 70 75 80
Ser Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln
85 90 95
Phe Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr
100 105 110
Tyr Cys Ala Arg Ile Thr Gly Thr Thr Lys Gly Gly Met Asp Val Trp
115 120 125
Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
130 135 140
Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr
145 150 155 160
Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr
165 170 175
Val Ser Trp Asn Ser
180

<210> 73
<211> 451
<212> DNA
<213> Human

<400> 73
tcctctgctc ctcactctcc tcgctcactg cacagggtcc tgggcccagt ctgtactgac 60
gcagccgccc tcagtgtctg gggccccagg gcagagggtc accatctcct gcactgggag 120
cagctccaac atcggggcag gttatgatgt acactggtac cagcagcttc caggaacagc 180
ccccaagctc ctcatctatg gtaacaacaa tcggccctca ggggtccctg accgattctc 240
tggctccaag tctggcacct cagcctccct ggccatcact gggctccagg ctgaagatga 300
ggctgattat tactgccagt cctttgacag cagtctgagt ggttcggtat tcggcggagg 360
gaccaagctg accgtcctag gtcagcccaa ggctgccccc tcggtcactc tgttcccgcc 420
ctcctctgag gagctccaag ccaacaagga a 451

<210> 74
<211> 145
<212> PRT
<213> Human

<400> 74
Pro Leu Leu Leu Thr Leu Leu Ala His Cys Thr Gly Ser Trp Ala Gln
1 5 10 15
Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg
20 25 30
Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr
35 40 45
Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
50 55 60
Ile Tyr Gly Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
65 70 75 80
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln
85 90 95
Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Phe Asp Ser Ser Leu
100 105 110
Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
115 120 125
Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
130 135 140
Leu
145

<210> 75
<211> 119
<212> PRT
<213> Human

<400> 75
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30
Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met
35 40 45
Gly Trp Met Asn Pro Asn Ser Gly Asn Thr Gly Tyr Ala Gln Lys Phe
50 55 60
Gln Gly Arg Val Thr Met Thr Arg Asn Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95
Ala Arg Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr
100 105 110
Thr Val Thr Val Ser Ser Ala
115

<210> 76
<211> 110
<212> PRT
<213> Human

<400> 76
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
1 5 10 15
Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
20 25 30
Tyr Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45
Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
50 55 60
Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
65 70 75 80

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Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu
                85                  90                  95
Ser Ala Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
            100                 105                 110
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<210> 77
<211> 118
<212> PRT
<213> Human

<400> 77

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Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1               5                  10                  15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Ser
            20                  25                  30
Ser Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu
        35                  40                  45
Trp Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
    50                  55                  60
Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe
65                  70                  75                  80
Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
                85                  90                  95
Cys Ala Arg Ser Ser Trp Tyr Phe Asp Leu Trp Gly Arg Gly Thr Leu
            100                 105                 110
Val Thr Val Ser Ser Ala
        115
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<210> 78
<211> 108
<212> PRT
<213> Human

<400> 78

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly
 1               5                  10                  15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp
            20                  25                  30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
        35                  40                  45
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
    50                  55                  60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65                  70                  75                  80
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro Phe
                85                  90                  95
Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
            100                 105
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<210> 79
<211> 117
<212> PRT
<213> Human

<400> 79

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Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1               5                  10                  15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Tyr
            20                  25                  30
Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
        35                  40                  45
Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
    50                  55                  60
Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65                  70                  75                  80
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Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
85 90 95
Arg Ile Thr Gly Thr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val
100 105 110
Thr Val Ser Ser Ala
115

<210> 80
<211> 112
<212> PRT
<213> Human

<400> 80
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln
1 5 10 15
Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
20 25 30
Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45
Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60
Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu
65 70 75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser
85 90 95
Leu Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 81
<211> 7
<212> PRT
<213> Human

<400> 81
Ser Ser Ser Tyr Tyr Trp Gly
1 5

<210> 82
<211> 16
<212> PRT
<213> Human

<400> 82
Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
1 5 10 15

<210> 83
<211> 13
<212> PRT
<213> Human

<400> 83
Gln Arg Gly His Ser Ser Gly Trp Trp Tyr Phe Asp Leu
1 5 10

<210> 84
<211> 11
<212> PRT
<213> Human

<400> 84
Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala
1 5 10

<210> 85
<211> 7
<212> PRT
<213> Human

<400> 85
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 86
<211> 9
<212> PRT
<213> Human

<400> 86
Gln Gln Ala Asn Asn Phe Pro Phe Thr
1 5

<210> 87
<211> 7
<212> PRT
<213> Human

<400> 87
Ser Ser Ser Asn Tyr Trp Gly
1 5

<210> 88
<211> 16
<212> PRT
<213> Human

<400> 88
Gly Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Arg Ser
1 5 10 15

<210> 89
<211> 13
<212> PRT
<213> Human

<400> 89
Gln Arg Gly His Ser Ser Gly Trp Trp Tyr Phe Asp Leu
1 5 10

<210> 90
<211> 11
<212> PRT
<213> Human

<400> 90
Arg Ala Ser Arg Gly Ile Ser Ser Trp Leu Ala
1 5 10

<210> 91
<211> 7
<212> PRT
<213> Human

<400> 91

Thr Ala Ser Ser Leu Gln Ser
1 5

<210> 92
<211> 9
<212> PRT
<213> Human

<400> 92
Gln Gln Ala Asn Ser Phe Pro Phe Thr
1 5

<210> 93
<211> 25
<212> PRT
<213> Human

<400> 93
Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15
Ser Val Lys Val Ser Cys Lys Ala Ser
20 25

<210> 94
<211> 10
<212> PRT
<213> Human

<400> 94
Gly Tyr Thr Phe Thr Ser Tyr Asp Ile Asn
1 5 10

<210> 95
<211> 25
<212> PRT
<213> Human

<400> 95
Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser
20 25

<210> 96
<211> 12
<212> PRT
<213> Human

<400> 96
Gly Gly Ser Ile Arg Ser Ser Ser Tyr Tyr Trp Gly
1 5 10

<210> 97
<211> 25
<212> PRT
<213> Human

<400> 97
Gln Leu Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser
20 25

<210> 98
<211> 12
<212> PRT
<213> Human

<400> 98
Gly Gly Ser Ile Asn Ser Ser Ser Asn Tyr Trp Gly
 1   5   10

<210> 99
<211> 25
<212> PRT
<213> Human

<400> 99
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1   5   10   15
Thr Leu Ser Leu Thr Cys Thr Val Ser
            20   25

<210> 100
<211> 10
<212> PRT
<213> Human

<400> 100
Gly Gly Ser Ile Ser Ser Tyr Tyr Trp Ser
 1   5   10

<210> 101
<211> 25
<212> PRT
<213> Human

<400> 101
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
 1   5   10   15
Thr Leu Ser Leu Thr Cys Thr Val Ser
            20   25

<210> 102
<211> 10
<212> PRT
<213> Human

<400> 102
Gly Gly Ser Ile Ser Ser Tyr Tyr Trp Ser
 1   5   10