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35 40 45

Ser Gly Ile Ser Gly Ser Gly Gly Gly Thr Tyr Tyr Ala Asp Ser Met
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 Val Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

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Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe 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 Val Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gln Gly Thr Arg Val Glu Ile Lys
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Gln Gln Ser Tyr Ser Thr Pro Arg Thr
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

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

Ser Gly Ile Ser Gly Ser Gly Gly Gly Thr Tyr Tyr Ala Asp Ser Met
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 Val Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Lys Asp Arg Leu Gly Pro Ile Thr Leu Val Arg Gly Gly Tyr Tyr
100 105 110

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

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
130 135 140

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
145 150 155 160

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
165 170 175

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
180 185 190

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
195 200 205

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
210 215 220

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
225 230 235 240

Glu Phe Glu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
245 250 255

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
260 265 270

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
275 280 285

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
290 295 300

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
305 310 315 320

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
325 330 335

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
340 345 350

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
355 360 365

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
370 375 380

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
385 390 395 400

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
405 410 415

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
420 425 430

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
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Leu Ser Leu Ser Leu Gly Lys
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asp Tyr
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Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Phe 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 Val Ser Ser Leu Gln Pro
65 70 75 80

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

Thr Phe Gly Gln Gly Thr Arg Val Glu Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

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

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
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Phe Asn Arg Gly Glu Cys
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ccagggaagg ggctggagtg ggtctcaact attagcggaa gtggtggtgc cacaaggtat 180

gcagactccg tgaagggccg attcaccata tccagagaca attccaggaa cacggtgtat 240

ctgcaaatga acagcctgag agtcgaggac acggccgttt tttactgtac gaaagatcgg 300

ctcattatgg ctacggttcg gggaccctat tactacggta tggacgtctg gggccaaggg 360

accacggtca ccgtctcctc a 381

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

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

Ser Thr Ile Ser Gly 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 Arg Asn Thr Val Tyr
65 70 75 80

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

Thr Lys Asp Arg Leu Ile Met Ala Thr Val Arg Gly Pro Tyr Tyr Tyr
100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115 120 125

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Gly Phe Thr Phe Ser Asn Tyr Ala
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<400> 38

Ile Ser Gly Ser Gly Gly Ala Thr
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Gly Met Asp Val
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<212> DNA
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gaagattttg caacttacta ctgtcaacag agtcacagtg tctcattcac tttcggccct 300

gggaccaaag tggatatcaa a 321

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<400> 48

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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn 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 Glu 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 Ser His Ser Val Ser Phe
85 90 95

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

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20 25 30

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

Ser Thr Ile Ser Gly 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 Arg Asn Thr Val Tyr
65 70 75 80

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

Thr Lys Asp Arg Leu Ile Met Ala Thr Val Arg Gly Pro Tyr Tyr Tyr
100 105 110

Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Ala
115 120 125

Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg Ser
130 135 140

Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe
145 150 155 160

Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly
165 170 175

Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu
180 185 190

Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr Tyr
195 200 205

Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys Arg
210 215 220

Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro Glu
225 230 235 240

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

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
260 265 270

Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
275 280 285

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
290 295 300

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
305 310 315 320

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
325 330 335

Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
340 345 350

Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys Asn
355 360 365

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
370 375 380

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
385 390 395 400

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Arg
405 410 415

Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys
420 425 430

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
435 440 445

Ser Leu Ser Leu Gly Lys
450

<210> 63
<211> 642
<212> DNA
<213> Homo Sapiens

<400> 63
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atcacctgca gggcctccca aagcatctcc tcctacctga actggtacca gcagaaaccc 120

ggcaaggccc ccaacctgct gatctacgct gcctcctccc tccagtccgg cgtgcctagc 180

aggtttagcg gctccggaag cgagaccgac ttcaccctga ccatctcctc cctgcagccc 240

gaggacttcg ccacctacta ctgccagcaa tcccacagcg tgtccttcac cttcggcccc 300

ggcaccaagg tggacatcaa gaggaccgtg gccgcccccc ccgtgttcat ctttcccccc 360

tccgatgaac agctgaagag cggcaccgct agcgtggtgt gcctgctgaa caacttctac 420

cccagggagg ccaaggtgca gtggaaggtg gacaatgccc tgcagtccgg caacagccag 480

gagagcgtga ccgagcagga ctccaaggac agcacctaca gcctgtcctc caccctgacc 540

ctgtccaagg ccgactacga gaagcacaaa gtgtacgcct gcgaagtgac ccatcagggc 600

ctgagctccc ccgtgaccaa gtcctttaac aggggcgagt gc 642

<210> 64
<211> 214
<212> PRT
<213> Homo Sapiens

<400> 64

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

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
20 25 30

Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn 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 Glu 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 Ser His Ser Val Ser Phe
85 90 95

Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg Thr Val Ala Ala
100 105 110

Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
115 120 125

Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
130 135 140

Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln
145 150 155 160

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
165 170 175

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

Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
195 200 205

Phe Asn Arg Gly Glu Cys
210

<210> 65
<211> 372
<212> DNA
<213> Homo Sapiens

<400> 65
caggtgcagc tggtggagtc tgggggaggc ttggtcaagc ctggagggtc cctgagactc 60

tcctgtgcag cctctcgatt caccctcagt gactactaca tgacctggat ccgccaggct 120

ccagggaagg ggctggagtg ggtttcatac attagtagta gtggtaatac catatactac 180

gcagactctg tgaagggccg attcaccatc tccagggaca acgccaagaa ctcactgtat 240

ctgcaaatga acagcctgag agccgaggac acggccgtgt attactgtgc gagagatctg 300

agtgggagct actgggacta ctactacggt atggacgtct ggggccaagg gaccacggtc 360

accgtctcct ca 372

<210> 66
<211> 124
<212> PRT
<213> Homo Sapiens

<400> 66

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

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

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

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

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

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

Ala Arg Asp Leu Ser Gly Ser Tyr Trp Asp Tyr Tyr Tyr Gly Met Asp
100 105 110

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

<210> 67
<211> 24
<212> DNA
<213> Homo Sapiens

<400> 67
cgattcaccc tcagtgacta ctac 24

<210> 68
<211> 8
<212> PRT
<213> Homo Sapiens

<400> 68

Arg Phe Thr Leu Ser Asp Tyr Tyr
1 5

<210> 69
<211> 24
<212> DNA
<213> Homo Sapiens

<400> 69
attagtagta gtggtaatac cata 24

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

<400> 70

Ile Ser Ser Ser Gly Asn Thr Ile
1 5

<210> 71
<211> 51
<212> DNA
<213> Homo Sapiens

<400> 71
gcgagagatc tgagtgggag ctactgggac tactactacg gtatggacgt c 51

<210> 72
<211> 17
<212> PRT
<213> Homo Sapiens

<400> 72

Ala Arg Asp Leu Ser Gly Ser Tyr Trp Asp Tyr Tyr Tyr Gly Met Asp
1 5 10 15

Val

<210> 73
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 73
gactactaca tgacc 15

<210> 74
<211> 5
<212> PRT
<213> Homo Sapiens

<400> 74

Asp Tyr Tyr Met Thr
1 5

<210> 75
<211> 51
<212> DNA
<213> Homo Sapiens

<400> 75
tacattagta gtagtggtaa taccatatac tacgcagact ctgtgaaggg c 51

<210> 76
<211> 17
<212> PRT
<213> Homo Sapiens

<400> 76

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

Gly

<210> 77
<211> 45
<212> DNA
<213> Homo Sapiens

<400> 77
gatctgagtg ggagctactg ggactactac tacggtatgg acgtc 45

<210> 78
<211> 15
<212> PRT
<213> Homo Sapiens

<400> 78

Asp Leu Ser Gly Ser Tyr Trp Asp Tyr Tyr Tyr Gly Met Asp Val
1 5 10 15

<210> 79
<211> 321
<212> DNA
<213> Homo Sapiens

<400> 79
gccatccagt tgacccagtc tccatcctcc ctgtctacat ctgtaggaga cagagtcacc 60

atcgcttgcc gggcaagtca gggcattaac aatgctttag cctggtatca gcagaaacca 120

gggaaagctc ctaagctcct gatctatgat gcctccagtt tggaaagtgg ggtcccatca 180

aggttcagcg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240

gaagattttg caacttatta ctgtcaacag tttaatagtt accctcggac gttcggccaa 300

gggaccaagg tggaaatcaa a 321

<210> 80
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 80

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

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

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

Tyr Asp Ala Ser Ser Leu Glu 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 Phe Asn Ser Tyr Pro Arg
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 81
<211> 18
<212> DNA
<213> Homo Sapiens

<400> 81
cagggcatta acaatgct 18

<210> 82
<211> 6
<212> PRT
<213> Homo Sapiens

<400> 82

Gln Gly Ile Asn Asn Ala
1 5

<210> 83
<211> 9
<212> DNA
<213> Homo Sapiens

<400> 83
gatgcctcc 9

<210> 84
<211> 3
<212> PRT
<213> Homo Sapiens

<400> 84

Asp Ala Ser
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<210> 85
<211> 27

<212> DNA
<213> Homo Sapiens

<400> 85
caacagttta atagttaccc tcggacg 27

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

<400> 86

Gln Gln Phe Asn Ser Tyr Pro Arg Thr
1 5

<210> 87
<211> 33
<212> DNA
<213> Homo Sapiens

<400> 87
cgggcaagtc agggcattaa caatgcttta gcc 33

<210> 88
<211> 11
<212> PRT
<213> Homo Sapiens

<400> 88

Arg Ala Ser Gln Gly Ile Asn Asn Ala Leu Ala
1 5 10

<210> 89
<211> 21
<212> DNA
<213> Homo Sapiens

<400> 89
gatgcctcca gtttggaaag t 21

<210> 90
<211> 7
<212> PRT
<213> Homo Sapiens

<400> 90

Asp Ala Ser Ser Leu Glu Ser
1 5

<210> 91
<211> 27
<212> DNA
<213> Homo Sapiens

<400> 91
caacagttta atagttaccc tcggacg 27

<210> 92
<211> 9
<212> PRT
<213> Homo Sapiens

<400> 92

Gln Gln Phe Asn Ser Tyr Pro Arg Thr
1 5

<210> 93
<211> 369
<212> DNA
<213> Homo Sapiens

<400> 93
gaggtgcagc tggtggagtc tgggggaggc ttggtaaagc ctgggggtc ccttagactc 60

tcctgtgcag cctctggatt cactttcagt aacgcctgga tgagctgggt ccgccaggct 120

ccagggaagg ggctggagtg ggttggccgt attaaaagca aaactgaagg tgggacaaca 180

gactacgctg cacccgtgaa aggcagattc accatctcaa gagatgattc aaaaaacacg 240

ctgtatctgc aaatgaacag cctgaaaacc gaggacacag ccgtgtatta ctgtaccaca 300

gattttctat ggttcgggga gttccctttt gactactggg gccagggaac cctggtcacc 360

gtctcctca 369

<210> 94
<211> 123
<212> PRT
<213> Homo Sapiens

<400> 94

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

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

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

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

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

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

Tyr Cys Thr Thr Asp Phe Leu Trp Phe Gly Glu Phe Pro Phe Asp Tyr
100 105 110

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

<210> 95
<211> 24
<212> DNA
<213> Homo Sapiens

<400> 95
ggattcactt tcagtaacgc ctgg 24

<210> 96
<211> 8
<212> PRT
<213> Homo Sapiens

<400> 96

Gly Phe Thr Phe Ser Asn Ala Trp
1 5

<210> 97
<211> 30
<212> DNA
<213> Homo Sapiens

<400> 97
attaaaagca aaactgaagg tgggacaaca 30

<210> 98
<211> 10
<212> PRT
<213> Homo Sapiens

<400> 98

Ile Lys Ser Lys Thr Glu Gly Gly Thr Thr
1 5 10

<210> 99
<211> 42
<212> DNA
<213> Homo Sapiens

<400> 99
accacagatt ttctatggtt cggggagttc ccttttgact ac 42

<210> 100
<211> 14
<212> PRT
<213> Homo Sapiens

<400> 100

Thr Thr Asp Phe Leu Trp Phe Gly Glu Phe Pro Phe Asp Tyr
1 5 10

<210> 101
<211> 15
<212> DNA
<213> Homo Sapiens

<400> 101
aacgcctgga tgagc 15

<210> 102
<211> 5
<212> PRT
<213> Homo Sapiens

<400> 102

Asn Ala Trp Met Ser
1 5

<210> 103
<211> 57
<212> DNA
<213> Homo Sapiens

<400> 103
cgtattaaaa gcaaaactga aggtgggaca acagactacg ctgcacccgt gaaaggc 57

<210> 104
<211> 19
<212> PRT
<213> Homo Sapiens

<400> 104

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

Val Lys Gly

<210> 105
<211> 36
<212> DNA
<213> Homo Sapiens

<400> 105
gattttctat ggttcgggga gttccctttt gactac 36

<210> 106
<211> 12
<212> PRT
<213> Homo Sapiens

<400> 106

Asp Phe Leu Trp Phe Gly Glu Phe Pro Phe Asp Tyr
1 5 10

<210> 107
<211> 321
<212> DNA
<213> Homo Sapiens

<400> 107
gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60

atcacttgcc gggcgagtca gggcattagc aattatttag cctggtatca gcagaaacca 120

gggaaaattc ctaagctcct gatctatgct gcatccactt tgcaatcagg ggtcccatct 180

cggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag cctgcagcct 240

gaagatgttg caacttatta ctgtcaaaag tataacagtg cccctcggac gttcggccaa 300

gggaccaagg tggaaatcaa a 321

<210> 108
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 108

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

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

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

Tyr Ala Ala Ser Thr 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 Val Ala Thr Tyr Tyr Cys Gln Lys Tyr Asn Ser Ala Pro Arg
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 109
<211> 18
<212> DNA
<213> Homo Sapiens

<400> 109
cagggcatta gcaattat 18

<210> 110
<211> 6
<212> PRT
<213> Homo Sapiens

<400> 110

Gln Gly Ile Ser Asn Tyr
1 5

<210> 111
<211> 9
<212> DNA
<213> Homo Sapiens

<400> 111
gctgcatcc 9

<210> 112
<211> 3
<212> PRT
<213> Homo Sapiens

<400> 112

Ala Ala Ser
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<210> 113
<211> 27
<212> DNA
<213> Homo Sapiens

<400> 113
caaaagtata acagtgcccc tcggacg 27

<210> 114
<211> 9
<212> PRT
<213> Homo Sapiens

<400> 114

Gln Lys Tyr Asn Ser Ala Pro Arg Thr
1 5

<210> 115
<211> 33

<212> DNA
<213> Homo Sapiens

<400> 115
cgggcgagtc agggcattag caattattta gcc 33

<210> 116
<211> 11
<212> PRT
<213> Homo Sapiens

<400> 116

Arg Ala Ser Gln Gly Ile Ser Asn Tyr Leu Ala
1 5 10

<210> 117
<211> 21
<212> DNA
<213> Homo Sapiens

<400> 117
gctgcatcca ctttgcaatc a 21

<210> 118
<211> 7
<212> PRT
<213> Homo Sapiens

<400> 118

Ala Ala Ser Thr Leu Gln Ser
1 5

<210> 119
<211> 27
<212> DNA
<213> Homo Sapiens

<400> 119
caaaagtata acagtgcccc tcggacg 27

<210> 120
<211> 9
<212> PRT
<213> Homo Sapiens

<400> 120

Gln Lys Tyr Asn Ser Ala Pro Arg Thr
1 5

<210> 121
<211> 981
<212> DNA
<213> Homo Sapiens

<400> 121
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agcacagccg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacgaagacc 240

tacacctgca acgtagatca caagcccagc aacaccaagg tggacaagag agttgagtcc 300

aaatatggtc ccccatgccc atcatgccca gcacctgagt tcctgggggg accatcagtc 360

ttcctgttcc ccccaaaacc caaggacact ctcatgatct cccggacccc tgaggtcacg 420

tgcgtggtgg tggacgtgag ccaggaagac cccgaggtcc agttcaactg gtacgtggat 480

ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagttcaa cagcacgtac 540

cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaacggcaa ggagtacaag 600

tgcaaggtct ccaacaaagg cctcccgtcc tccatcgaga aaaccatctc caaagccaaa 660

gggcagcccc gagagccaca ggtgtacacc ctgcccccat cccaggagga gatgaccaag 720

aaccaggtca gcctgacctg cctggtcaaa ggcttctacc ccagcgacat cgccgtggag 780

tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc 840

gacggctcct tcttcctcta cagcaggcta accgtggaca agagcaggtg gcaggagggg 900

aatgtcttct catgctccgt gatgcatgag gctctgcaca accactacac acagaagagc 960

ctctccctgt ctctgggtaa a 981

<210> 122
<211> 327
<212> PRT
<213> Homo Sapiens

<400> 122

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

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

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
            100                 105                 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
    130                 135                 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220
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Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
325

<210> 123
<211> 981
<212> DNA
<213> Homo Sapiens

<400> 123
gcttccacca agggcccatc cgtcttcccc ctggcgccct gctccaggag cacctccgag 60

agcacagccg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacgaagacc 240

tacacctgca acgtagatca caagcccagc aacaccaagg tggacaagag agttgagtcc 300

aaatatggtc ccccgtgccc atcatgccca gcacctgagt tcctgggggg accatcagtc 360

ttcctgttcc ccccaaaacc caaggacact ctcatgatct cccggacccc tgaggtcacg 420

tgcgtggtgg tggacgtgag ccaggaagac cccgaggtcc agttcaactg gtacgtggat 480

ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagttcaa cagcacgtac 540

cgtgtggtca gcgtcctcac cgtcgtgcac caggactggc tgaacggcaa ggagtacaag 600

tgcaaggtct ccaacaaagg cctcccgtcc tccatcgaga aaaccatctc caaagccaaa 660

gggcagcccc gagagccaca ggtgtacacc ctgcccccat cccaggagga gatgaccaag 720

aaccaggtca gcctgacctg cctggtcaaa ggcttctacc ccagcgacat cgccgtggag 780

tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc 840

gacggctcct tcttcctcta cagcaggcta accgtggaca agagcaggtg gcaggagggg 900

aatgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc 960

ctctccctgt ctctgggtaa a 981

<210> 124
<211> 327
<212> PRT
<213> Homo Sapiens

<400> 124

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

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

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Val His Gln Asp
180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
325

<210> 125
<211> 981

<212> DNA
<213> Homo Sapiens

<400> 125
gcttccacca agggcccatc cgtcttcccc ctggcgccct gctccaggag cacctccgag 60

agcacagccg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacgaagacc 240

tacacctgca acgtagatca caagcccagc aacaccaagg tggacaagag agttgagtcc 300

aaatatggtc ccccatgccc atcatgccca gcacctgagt tcctgggggg accatcagtc 360

ttcctgttcc ccccaaaacc caaggacact ctcatgatct cccggacccc tgaggtcacg 420

tgcgtggtgg tggacgtgag ccaggaagac cccgaggtcc agttcaactg gtacgtggat 480

ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagttcaa cagcacgtac 540

cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaacggcaa ggagtacaag 600

tgcaaggtct ccaacaaagg cctcccgtcc tccatcgaga aaaccatctc caaagccaaa 660

gggcagcccc gagagccaca ggtgtacacc ctgcccccat cccaggagga gatgaccaag 720

aaccaggtca gcctgacctg cctggtcaaa ggcttctacc ccagcgacat cgccgtggag 780

tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc 840

gacggctcct tcttcctcta cagcaagctc accgtggaca agagcaggtg gcaggagggg 900

aacgtcttct catgctccgt gatgcatgag gctctgcaca accactacac gcagaagagc 960

ctctccctgt ctctgggtaa a 981

<210> 126
<211> 327
<212> PRT
<213> Homo Sapiens

<400> 126

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

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Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
        35                  40                  45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
    50                  55                  60

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

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro
            100                 105                 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
        115                 120                 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
    130                 135                 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145                 150                 155                 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
                165                 170                 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
            180                 185                 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
        195                 200                 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
    210                 215                 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225                 230                 235                 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
                245                 250                 255
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Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
325

<210> 127
<211> 981
<212> DNA
<213> Homo Sapiens

<400> 127
gcctccacca agggcccatc cgtcttcccc ctggcgccct gctccaggag cacctccgag 60

agcacggccg ccctgggctg cctggtcaag gactacttcc ccgaaccagt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacgaagacc 240

tacacctgca acgtagatca caagcccagc aacaccaagg tggacaagag agttgagtcc 300

aaatatggtc ccccatgccc accatgccca gcgcctgaat ttgaggggg accatcagtc 360

ttcctgttcc ccccaaaacc caaggacact ctcatgatct cccggacccc tgaggtcacg 420

tgcgtggtgg tggacgtgag ccaggaagac cccgaggtcc agttcaactg gtacgtggat 480

ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagttcaa cagcacgtac 540

cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaacggcaa ggagtacaag 600

tgcaaggtct ccaacaaagg cctcccgtca tcgatcgaga aaaccatctc caaagccaaa 660

gggcagcccc gagagccaca ggtgtacacc ctgcccccat cccaggagga gatgaccaag 720

aaccaggtca gcctgacctg cctggtcaaa ggcttctacc ccagcgacat cgccgtggag 780

tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc 840

gacggatcct tcttcctcta cagcaggcta accgtggaca agagcaggtg gcaggagggg 900

aatgtcttct catgctccgt gatgcatgag gctctgcaca accactacac acagaagagc 960

ctctccctgt ctctgggtaa a 981

<210> 128
<211> 327
<212> PRT
<213> Homo Sapiens

<400> 128

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

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

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
100 105 110

Glu Phe Glu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
325

<210> 129
<211> 981
<212> DNA
<213> Homo Sapiens

<400> 129
gcctccacca agggacctag cgtgttccct ctcgcccccc gttccaggtc cacaagcgag 60

tccaccgctg ccctcggctg tctggtgaaa gactactttc ccgagcccgt gaccgtctcc 120

tggaatagcg gagccctgac ctccggcgtg cacacatttc ccgccgtgct gcagagcagc 180

ggactgtata gcctgagcag cgtggtgacc gtgcccagct ccagcctcgg caccaaaacc 240

tacacctgca acgtggacca caagccctcc aacaccaagg tggacaagcg ggtggagagc 300

aagtacggcc ccccttgccc tccttgtcct gcccctgagt tcgagggagg accctccgtg 360

ttcctgtttc cccccaaacc caaggacacc ctgatgatct cccggacacc cgaggtgacc 420

tgtgtggtcg tggacgtcag ccaggaggac cccgaggtgc agttcaactg gtatgtggac 480

ggcgtggagg tgcacaatgc caaaaccaag cccagggagg agcagttcaa ttccacctac 540

agggtggtga gcgtgctgac cgtcctgcat caggattggc tgaacggcaa ggagtacaag 600

tgcaaggtgt ccaacaaggg actgcccagc tccatcgaga agaccatcag caaggctaag 660

ggccagccga gggagcccca ggtgtatacc ctgcctccta gccaggaaga gatgaccaag 720

aaccaagtgt ccctgacctg cctggtgaag ggattctacc cctccgacat cgccgtggag 780

tgggagagca atggccagcc cgagaacaac tacaaaacaa cccctcccgt gctcgatagc 840

gacggcagct tctttctcta cagccggctg acagtggaca agagcaggtg gcaggagggc 900

aacgtgttct cctgttccgt gatgcacgag gccctgcaca atcactacac ccagaagagc 960

ctctccctgt ccctgggcaa g 981

<210> 130
<211> 981
<212> DNA
<213> Homo Sapiens

<400> 130
gccagcacca agggcccttc cgtgttcccc ctggcccctt gcagcaggag cacctccgaa 60

tccacagctg ccctgggctg tctggtgaag gactactttc ccgagcccgt gaccgtgagc 120

tggaacagcg gcgctctgac atccggcgtc cacacctttc ctgccgtcct gcagtcctcc 180

ggcctctact ccctgtcctc cgtggtgacc gtgcctagct cctccctcgg caccaagacc 240

tacacctgta acgtggacca caaaccctcc aacaccaagg tggacaaacg ggtcgagagc 300

aagtacggcc ctccctgccc tccttgtcct gccccgagt tcgaaggcgg acccagcgtg 360

ttcctgttcc ctcctaagcc caaggacacc ctcatgatca gccggacacc cgaggtgacc 420

tgcgtggtgg tggatgtgag ccaggaggac cctgaggtcc agttcaactg gtatgtggat 480

ggcgtggagg tgcacaacgc caagacaaag ccccgggaag agcagttcaa ctccacctac 540

agggtggtca gcgtgctgac cgtgctgcat caggactggc tgaacggcaa ggagtacaag 600

tgcaaggtca gcaataaggg actgcccagc agcatcgaga agaccatctc caaggctaaa 660

ggccagcccc gggaacctca ggtgtacacc ctgcctccca gccaggagga gatgaccaag 720

aaccaggtga gcctgacctg cctggtgaag ggattctacc cttccgacat cgccgtggag 780

tgggagtcca acggccagcc cgagaacaat tataagacca cccctcccgt cctcgacagc 840

gacggatcct tctttctgta ctccaggctg accgtggata agtccaggtg gcaggaaggc 900

aacgtgttca gctgctccgt gatgcacgag gccctgcaca atcactacac ccagaagtcc 960

ctgagcctgt ccctgggaaa g 981

<210> 131
<211> 981
<212> DNA
<213> Homo Sapiens

<400> 131
gcctccacca agggcccatc cgtcttcccc ctggcgccct gctccaggag cacctccgag 60

agcacggccg ccctgggctg cctggtcaag gactacttcc ccgaaccagt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacgaagacc 240

tacacctgca acgtagatca caagcccagc aacaccaagg tggacaagag agttgagtcc 300

aaatatggtc ccccatgccc accatgccca gcgcctccag ttgcgggggg accatcagtc 360

ttcctgttcc ccccaaaacc caaggacact ctcatgatct cccggacccc tgaggtcacg 420

tgcgtggtgg tggacgtgag ccaggaagac cccgaggtcc agttcaactg gtacgtggat 480

ggcgtggagg tgcataatgc caagacaaag ccgcgggagg agcagttcaa cagcacgtac 540

cgtgtggtca gcgtcctcac cgtcctgcac caggactggc tgaacggcaa ggagtacaag 600

tgcaaggtct ccaacaaagg cctcccgtca tcgatcgaga aaaccatctc caaagccaaa 660

gggcagcccc gagagccaca ggtgtacacc ctgcccccat cccaggagga gatgaccaag 720

aaccaggtca gcctgacctg cctggtcaaa ggcttctacc ccagcgacat cgccgtggag 780

tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc 840

gacggatcct tcttcctcta cagcaggcta accgtggaca agagcaggtg gcaggagggg 900

aatgtcttct catgctccgt gatgcatgag gctctgcaca accactacac acagaagagc 960

ctctccctgt ctctgggtaa a 981

<210> 132
<211> 327
<212> PRT
<213> Homo Sapiens

<400> 132

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

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

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

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

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Pro Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val
130 135 140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp
145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe
165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp
180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu
195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg
210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys
325

<210> 133
<211> 990
<212> DNA
<213> Homo Sapiens

<400> 133
gcctccacca agggcccatc ggtcttcccc ctggcaccct cctccaagag cacctctggg 60

ggcacagcgg ccctgggctg cctggtcaag gactacttcc ccgaaccggt gacggtgtcg 120

tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180

ggactctact ccctcagcag cgtggtgacc gtgccctcca gcagcttggg cacccagacc 240

tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agtggagccc 300

aaatcttgtg acaaaactca cacatgccca ccgtgcccag cacctgaact cgcgggggca 360

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccccct 420

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacaac 540

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660

aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggatgag 720

ctgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780

gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840

ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 900

cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960

cagaagagcc tctccctgtc tccgggtaaa 990

<210> 134
<211> 330
<212> PRT
<213> Homo Sapiens

<400> 134

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

```
Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65                  70                  75                  80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
                85                  90                  95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys
            100                 105                 110

Pro Ala Pro Glu Leu Ala Gly Ala Pro Ser Val Phe Leu Phe Pro Pro
        115                 120                 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys
    130                 135                 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp
145                 150                 155                 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu
                165                 170                 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu
            180                 185                 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn
        195                 200                 205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly
    210                 215                 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu
225                 230                 235                 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr
                245                 250                 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn
            260                 265                 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe
        275                 280                 285
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Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
325 330

<210> 135
<211> 321
<212> DNA
<213> Homo Sapiens

<400> 135
cgtacggtgg ccgctccctc cgtgttcatc ttcccacctt ccgacgagca gctgaagtcc 60

ggcaccgctt ctgtcgtgtg cctgctgaac aacttctacc cccgcgaggc caaggtgcag 120

tggaaggtgg acaacgccct gcagtccggc aactcccagg aatccgtgac cgagcaggac 180

tccaaggaca gcacctactc cctgtcctcc accctgaccc tgtccaaggc cgactacgag 240

aagcacaagg tgtacgcctg cgaagtgacc caccagggcc tgtctagccc cgtgaccaag 300

tctttcaacc ggggcgagtg t 321

<210> 136
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 136

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 137
<211> 321
<212> DNA
<213> Homo Sapiens

<400> 137
cgaactgtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggag 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgccgg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 138
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 138

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Glu Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Gly Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 139
<211> 321
<212> DNA
<213> Homo Sapiens

<400> 139
cgaactgtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

cggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggag 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 140
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 140

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Arg Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Glu Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 141
<211> 321
<212> DNA
<213> Homo Sapiens

<400> 141
cgaactgtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcagc accctgacgc tgagcaaagc agactacgag 240

aaacacaaac tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg t 321

<210> 142
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 142

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Leu Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 143
<211> 321
<212> DNA
<213> Homo Sapiens

<400> 143
cgaactgtgg ctgcaccatc tgtcttcatc ttcccgccat ctgatgagca gttgaaatct 60

ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120

tggaaggtgg ataacgccct ccaatcgggt aactcccagg agagtgtcac agagcaggac 180

agcaaggaca gcacctacag cctcagcaac accctgacgc tgagcaaagc agactacgag 240

aaacacaaag tctacgcctg cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag 300

agcttcaaca ggggagagtg c 321

<210> 144
<211> 107
<212> PRT
<213> Homo Sapiens

<400> 144

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

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

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Asn Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 145
<211> 312
<212> DNA
<213> Homo Sapiens

<400> 145
cccaaggcca accccacggt cactctgttc ccgccctcct ctgaggagct ccaagccaac 60

aaggccacac tagtgtgtct gatcagtgac ttctacccgg gagctgtgac agtggcttgg 120

aaggcagatg gcagccccgt caaggcggga gtggagacga ccaaaccctc caaacagagc 180

aacaacaagt acgcggccag cagctacctg agcctgacgc ccgagcagtg gaagtcccac 240

agaagctaca gctgccaggt cacgcatgaa gggagcaccg tggagaagac agtggccccct 300

acagaatgtt ca 312

<210> 146
<211> 104
<212> PRT
<213> Homo Sapiens

<400> 146

Pro Lys Ala Asn Pro Thr Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
1 5 10 15

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

Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro Val Lys
35 40 45

Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn Lys Tyr
50 55 60

Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
65 70 75 80

Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
85 90 95

Thr Val Ala Pro Thr Glu Cys Ser
100

<210> 147
<211> 318
<212> DNA
<213> Homo Sapiens

<400> 147
ggtcagccca aggccaaccc cactgtcact ctgttcccgc cctcctctga ggagctccaa 60

gccaacaagg ccacactagt gtgtctgatc agtgacttct acccgggagc tgtgacagtg 120

gcctggaagg cagatggcag ccccgtcaag gcgggagtgg agaccaccaa accctccaaa 180

cagagcaaca acaagtacgc ggccagcagc tacctgagcc tgacgcccga gcagtggaag 240

tcccacagaa gctacagctg ccaggtcacg catgaaggga gcaccgtgga gaagacagtg 300

gcccctacag aatgttca 318

<210> 148
<211> 106
<212> PRT
<213> Homo Sapiens

<400> 148

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

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 149
<211> 318
<212> DNA
<213> Homo Sapiens

<400> 149
ggtcagccca aggccaaccc cactgtcact ctgttcccgc cctcctctga ggagctccaa 60

gccaacaagg ccacactagt gtgtctgatc agtgacttct acccgggagc tgtgacagtg 120

gcctggaagg cagatggcag ccccgtcaag gcgggagtgg agaccaccaa accctccaaa 180

cagagcaaca acaagtacgc ggccagcagc tacctgagcc tgacgcccga gcagtggaag 240

tcccacagaa gctacagctg ccaggtcacg catgaaggga gcaccgtgga gaagacagtg 300

gcccctacag aatgttca 318

<210> 150
<211> 318
<212> DNA
<213> Homo Sapiens

<400> 150
ggccagccta aggccgctcc ttctgtgacc ctgttccccc catcctccga ggaactgcag 60

gctaacaagg ccaccctcgt gtgcctgatc agcgacttct accctggcgc cgtgaccgtg 120

gcctggaagg ctgatagctc tcctgtgaag gccggcgtgg aaaccaccac cccttccaag 180

cagtccaaca acaaatacgc cgcctcctcc tacctgtccc tgaccctga gcagtggaag 240

tcccaccggt cctacagctg ccaagtgacc cacgagggct ccaccgtgga aaagaccgtg 300

gctcctaccg agtgctcc 318

<210> 151
<211> 318

<212> DNA
<213> Homo Sapiens

<400> 151
ggccagccta aagctgcccc cagcgtcacc ctgtttcctc cctccagcga ggagctccag 60

gccaacaagg ccaccctcgt gtgcctgatc tccgacttct atcccggcgc tgtgaccgtg 120

gcttggaaag ccgactccag ccctgtcaaa gccggcgtgg agaccaccac accctccaag 180

cagtccaaca acaagtacgc cgcctccagc tatctctccc tgaccctga gcagtggaag 240

tcccaccggt cctactcctg tcaggtgacc cacgagggct ccaccgtgga aaagaccgtc 300

gcccccaccg agtgctcc 318

<210> 152
<211> 106
<212> PRT
<213> Homo Sapiens

<400> 152

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

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 153
<211> 318

<212> DNA
<213> Homo Sapiens

<400> 153
ggtcagccca aggctgcccc ctcggtcact ctgttcccgc cctcctctga ggagcttcaa 60

gccaacaagg ccacactggt gtgtctcata agtgacttct acccgggagc cgtgacagtg 120

gcctggaagg cagatagcag ccccgtcaag gcgggagtgg agaccaccac accctccaaa 180

caaagcaaca acaagtacgc ggccagcagc tatctgagcc tgacgcctga gcagtggaag 240

tcccacagaa gctacagctg ccaggtcacg catgaaggga gcaccgtgga gaagacagtg 300

gcccctacag aatgttca 318

<210> 154
<211> 106
<212> PRT
<213> Homo Sapiens

<400> 154

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

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 155
<211> 312

<212> DNA
<213> Homo Sapiens

<400> 155
cccaaggctg ccccctcggt cactctgttc ccaccctcct ctgaggagct tcaagccaac 60

aaggccacac tggtgtgtct cataagtgac ttctacccgg gagccgtgac agttgcctgg 120

aaggcagata gcagccccgt caaggcgggg gtggagacca ccacaccctc caaacaaagc 180

aacaacaagt acgcggccag cagctacctg agcctgacgc ctgagcagtg gaagtcccac 240

aaaagctaca gctgccaggt cacgcatgaa gggagcaccg tggagaagac agttgcccct 300

acggaatgtt ca 312

<210> 156
<211> 104
<212> PRT
<213> Homo Sapiens

<400> 156

Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
1 5 10 15

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

Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
35 40 45

Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
50 55 60

Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
65 70 75 80

Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
85 90 95

Thr Val Ala Pro Thr Glu Cys Ser
100

<210> 157
<211> 318

<212> DNA
<213> Homo Sapiens

<400> 157
ggtcagccca aggctgcccc ctcggtcact ctgttcccac cctcctctga ggagcttcaa 60

gccaacaagg ccacactggt gtgtctcata agtgacttct acccggggcc agtgacagtt 120

gcctggaagg cagatagcag ccccgtcaag gcgggggtgg agaccaccac accctccaaa 180

caaagcaaca acaagtacgc ggccagcagc tacctgagcc tgacgcctga gcagtggaag 240

tcccacaaaa gctacagctg ccaggtcacg catgaaggga gcaccgtgga gaagacagtg 300

gcccctacgg aatgttca 318

<210> 158
<211> 106
<212> PRT
<213> Homo Sapiens

<400> 158

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

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Pro Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 159
<211> 318

<212> DNA
<213> Homo Sapiens

<400> 159
ggtcagccca aggctgcccc ctcggtcact ctgttcccac cctcctctga ggagcttcaa 60

gccaacaagg ccacactggt gtgtctcata agtgacttct acccgggagc cgtgacagtg 120

gcctggaagg cagatagcag ccccgtcaag gcgggagtgg agaccaccac accctccaaa 180

caaagcaaca acaagtacgc ggccagcagc tacctgagcc tgacgcctga gcagtggaag 240

tcccacaaaa gctacagctg ccaggtcacg catgaaggga gcaccgtgga gaagacagtg 300

gcccctacag aatgttca 318

<210> 160
<211> 106
<212> PRT
<213> Homo Sapiens

<400> 160

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

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 161
<211> 318

<212> DNA
<213> Homo Sapiens

<400> 161
ggtcagccca aggctgcccc ctcggtcact ctgttcccgc cctcctctga ggagcttcaa 60

gccaacaagg ccacactggt gtgtctcata agtgacttct acccgggagc cgtgacagtg 120

gcctggaagg cagatagcag ccccgtcaag gcgggagtgg agaccaccac accctccaaa 180

caaagcaaca acaagtacgc ggccagcagc tacctgagcc tgacgcctga gcagtggaag 240

tcccacagaa gctacagctg ccaggtcacg catgaaggga gcaccgtgga gaagacagtg 300

gcccctacag aatgttca 318

<210> 162
<211> 106
<212> PRT
<213> Homo Sapiens

<400> 162

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

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 163
<211> 318

<212> DNA
<213> Homo Sapiens

<400> 163
ggtcagccca aggctgcccc atcggtcact ctgttcccgc cctcctctga ggagcttcaa 60

gccaacaagg ccacactggt gtgcctgatc agtgacttct acccgggagc tgtgaaagtg 120

gcctggaagg cagatggcag ccccgtcaac acgggagtgg agaccaccac accctccaaa 180

cagagcaaca acaagtacgc ggccagcagc tacctgagcc tgacgcctga gcagtggaag 240

tcccacagaa gctacagctg ccaggtcacg catgaaggga gcaccgtgga gaagacagtg 300

gcccctgcag aatgttca 318

<210> 164
<211> 106
<212> PRT
<213> Homo Sapiens

<400> 164

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

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp
20 25 30

Phe Tyr Pro Gly Ala Val Lys Val Ala Trp Lys Ala Asp Gly Ser Pro
35 40 45

Val Asn Thr Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Ala Glu Cys Ser
100 105

<210> 165
<211> 318

<212> DNA
<213> Homo Sapiens

<400> 165
ggtcagccca aggctgcccc atcggtcact ctgttcccac cctcctctga ggagcttcaa 60

gccaacaagg ccacactggt gtgtctcgta agtgacttct acccgggagc cgtgacagtg 120

gcctggaagg cagatggcag ccccgtcaag gtgggagtgg agaccaccaa accctccaaa 180

caaagcaaca acaagtatgc ggccagcagc tacctgagcc tgacgcccga gcagtggaag 240

tcccacagaa gctacagctg ccgggtcacg catgaaggga gcaccgtgga gaagacagtg 300

gcccctgcag aatgctct 318

<210> 166
<211> 106
<212> PRT
<213> Homo Sapiens

<400> 166

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

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

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Gly Ser Pro
35 40 45

Val Lys Val Gly Val Glu Thr Thr Lys Pro Ser Lys Gln Ser Asn Asn
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
65 70 75 80

Ser His Arg Ser Tyr Ser Cys Arg Val Thr His Glu Gly Ser Thr Val
85 90 95

Glu Lys Thr Val Ala Pro Ala Glu Cys Ser
100 105

<210> 167
<211> 615

<212> DNA
<213> Homo Sapiens

<400> 167
atgggctggt cctgcatcat cctgtttctg gtggccaccg ccaccggcgt gcacagcgat 60

tacaaggatg acgacgataa gcgtatgaaa cagatcgaag ataaaattga agagatcttg 120

agcaaaatct atcatatcga aaacgaaatt gcgcgtatca aaaagctgat tggcgaacgt 180

ggcggtggca gcggtggcgg tagcggcggt ggcagccagg tgtcccaccg ataccccagg 240

atccagtcca tcaaggtcca gttcaccgag tacaaaaagg agaagggatt catcctgacc 300

tcccaaaagg aggacgagat catgaaggtg caaaacaact ccgtgatcat caactgcgac 360

ggcttctacc tgatctccct gaagggctac ttctcccagg aggtgaacat ctccctgcac 420

taccagaagg acgaggagcc cctgttccag ctgaagaagg tgaggtccgt gaattccctg 480

atggtggcca gcctgaccta caaggacaag gtctacctga acgtgaccac cgacaacacc 540

agcctggacg acttccatgt caacggcggc gagctgatcc tgatccatca gaaccccggc 600

gagttttgcg tcctg 615

<210> 168
<211> 205
<212> PRT
<213> Homo Sapiens

<400> 168

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Asp Tyr Lys Asp Asp Asp Asp Lys Arg Met Lys Gln Ile
20 25 30

Glu Asp Lys Ile Glu Glu Ile Leu Ser Lys Ile Tyr His Ile Glu Asn
35 40 45

Glu Ile Ala Arg Ile Lys Lys Leu Ile Gly Glu Arg Gly Gly Gly Ser
50 55 60

Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Ser His Arg Tyr Pro Arg
65 70 75 80

Ile Gln Ser Ile Lys Val Gln Phe Thr Glu Tyr Lys Lys Glu Lys Gly
85 90 95

Phe Ile Leu Thr Ser Gln Lys Glu Asp Glu Ile Met Lys Val Gln Asn
100 105 110

Asn Ser Val Ile Ile Asn Cys Asp Gly Phe Tyr Leu Ile Ser Leu Lys
115 120 125

Gly Tyr Phe Ser Gln Glu Val Asn Ile Ser Leu His Tyr Gln Lys Asp
130 135 140

Glu Glu Pro Leu Phe Gln Leu Lys Lys Val Arg Ser Val Asn Ser Leu
145 150 155 160

Met Val Ala Ser Leu Thr Tyr Lys Asp Lys Val Tyr Leu Asn Val Thr
165 170 175

Thr Asp Asn Thr Ser Leu Asp Asp Phe His Val Asn Gly Gly Glu Leu
180 185 190

Ile Leu Ile His Gln Asn Pro Gly Glu Phe Cys Val Leu
195 200 205

<210> 169
<211> 615
<212> DNA
<213> Homo Sapiens

<400> 169
atgggctggt cctgcatcat cctgtttctg gtggccaccg ccaccggcgt gcacagcgat 60

tacaaggatg acgacgataa gcgtatgaaa cagatcgaag ataaaattga agagatcttg 120

agcaaaatct atcatatcga aaacgaaatt gcgcgtatca aaaagctgat tggcgaacgt 180

ggcggtggca gcggtggcgg tagcggcggt ggcagccagg tgtcccacca ataccccagg 240

atccagtcca tcaaggtcca gttcaccgag tacaaaaagg aggagggatt catcctgacc 300

tcccaaaagg aggacgagat catgaaggtg caaaacaact ccgtgatcat caactgcgac 360

ggcttctacc tgatctccct gaagggctac ttctcccagg aggtgaacat ctccctgcac 420

taccagaagg acgaggagcc cctgttccag ctgaagaagg tgaggtccgt gaattccctg 480

atggtggcca gcctgaccta caaggacaag gtctacctga acgtgaccac cgacaacacc 540

agcctggacg acttccatgt caacggcggc gagctgatcc tgatccatca gaaccccggc 600

gagttttgcg tcctg 615

<210> 170
<211> 205
<212> PRT
<213> Homo Sapiens

<400> 170

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Asp Tyr Lys Asp Asp Asp Asp Lys Arg Met Lys Gln Ile
20 25 30

Glu Asp Lys Ile Glu Glu Ile Leu Ser Lys Ile Tyr His Ile Glu Asn
35 40 45

Glu Ile Ala Arg Ile Lys Lys Leu Ile Gly Glu Arg Gly Gly Gly Ser
50 55 60

Gly Gly Gly Ser Gly Gly Gly Ser Gln Val Ser His Gln Tyr Pro Arg
65 70 75 80

Ile Gln Ser Ile Lys Val Gln Phe Thr Glu Tyr Lys Lys Glu Glu Gly
85 90 95

Phe Ile Leu Thr Ser Gln Lys Glu Asp Glu Ile Met Lys Val Gln Asn
100 105 110

Asn Ser Val Ile Ile Asn Cys Asp Gly Phe Tyr Leu Ile Ser Leu Lys
115 120 125

Gly Tyr Phe Ser Gln Glu Val Asn Ile Ser Leu His Tyr Gln Lys Asp
130 135 140

Glu Glu Pro Leu Phe Gln Leu Lys Lys Val Arg Ser Val Asn Ser Leu
145 150 155 160

Met Val Ala Ser Leu Thr Tyr Lys Asp Lys Val Tyr Leu Asn Val Thr
165 170 175

Thr Asp Asn Thr Ser Leu Asp Asp Phe His Val Asn Gly Gly Glu Leu
180 185 190

Ile Leu Ile His Gln Asn Pro Gly Glu Phe Cys Val Leu
195 200 205

<210> 171
<211> 1332
<212> DNA
<213> Homo Sapiens

<400> 171
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cattgcgtgg gcgacaccta tccctccaac gacaggtgct gccacgagtg caggcctgga 120

aacggcatgg tgagcaggtg cagccggtcc cagaataccg tgtgtaggcc ctgcggcccc 180

ggcttttaca acgacgtggt gtcctccaag ccctgcaagc cctgcacatg gtgcaacctg 240

cggtccggca gcgagaggaa gcagctctgc acagccaccc aggacaccgt ctgtaggtgt 300

agggctggca cccagcctct ggactcctac aagcccggcg tggattgtgc tccttgccct 360

cccggccatt tctcccctgg cgacaaccag gcttgcaagc cctggaccaa ctgtaccctg 420

gccggcaagc atacactgca gcctgcttcc aactcctccg acgctatctg cgaggatagg 480

gacccccctg ccacacaacc ccaggagaca cagggccctc ctgctaggcc catcacagtc 540

caacccaccg aagcctggcc caggacatcc caaggccctt ccaccaggcc tgtggaagtg 600

cctggaggaa gggctgtggc cattgaaggt cgtatggatg aacccaagtc ctgcgacaag 660

acccacacct gtccccttg tcctgcccct gaactgctgg gcggaccttc cgtgttcctg 720

ttcccccaa agcccaagga caccctgatg atctcccgga cccccgaagt gacctgcgtg 780

gtggtggatg tgtcccacga ggaccctgaa gtgaagttca attggtacgt ggacggcgtg 840

gaagtgcaca acgccaagac caagcctaga gaggaacagt acaactccac ctaccgggtg 900

gtgtccgtgc tgaccgtgct gcaccaggat tggctgaacg gcaaagagta caagtgcaag 960

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ccccgggaac cccaggtgta cacactgccc cctagcaggg acgagctgac caagaaccag 1080

gtgtccctga cctgtctcgt gaaaggcttc tacccctccg atatcgccgt ggaatgggag 1140

tccaacggcc agcctgagaa caactacaag accacccccc ctgtgctgga ctccgacggc 1200

tcattcttcc tgtacagcaa gctgacagtg gacaagtccc ggtggcagca gggcaacgtg 1260

ttctcctgct ccgtgatgca cgaggccctg cacaaccact acacccagaa gtccctgtcc 1320

ctgagcccct ga 1332

<210> 172
<211> 443
<212> PRT
<213> Homo Sapiens

<400> 172

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Leu His Cys Val Gly Asp Thr Tyr Pro Ser Asn Asp Arg
20 25 30

Cys Cys His Glu Cys Arg Pro Gly Asn Gly Met Val Ser Arg Cys Ser
35 40 45

Arg Ser Gln Asn Thr Val Cys Arg Pro Cys Gly Pro Gly Phe Tyr Asn
50 55 60

Asp Val Val Ser Ser Lys Pro Cys Lys Pro Cys Thr Trp Cys Asn Leu
65 70 75 80

Arg Ser Gly Ser Glu Arg Lys Gln Leu Cys Thr Ala Thr Gln Asp Thr
85 90 95

Val Cys Arg Cys Arg Ala Gly Thr Gln Pro Leu Asp Ser Tyr Lys Pro
100 105 110

Gly Val Asp Cys Ala Pro Cys Pro Pro Gly His Phe Ser Pro Gly Asp
115 120 125

Asn Gln Ala Cys Lys Pro Trp Thr Asn Cys Thr Leu Ala Gly Lys His
130 135 140

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Thr Leu Gln Pro Ala Ser Asn Ser Ser Asp Ala Ile Cys Glu Asp Arg
145                 150                 155                 160

Asp Pro Pro Ala Thr Gln Pro Gln Glu Thr Gln Gly Pro Pro Ala Arg
                165                 170                 175

Pro Ile Thr Val Gln Pro Thr Glu Ala Trp Pro Arg Thr Ser Gln Gly
            180                 185                 190

Pro Ser Thr Arg Pro Val Glu Val Pro Gly Gly Arg Ala Val Ala Ile
        195                 200                 205

Glu Gly Arg Met Asp Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys
    210                 215                 220

Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu
225                 230                 235                 240

Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu
                245                 250                 255

Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
            260                 265                 270

Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys
        275                 280                 285

Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu
    290                 295                 300

Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys
305                 310                 315                 320

Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys
                325                 330                 335

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

Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys
        355                 360                 365
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Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln
370 375 380

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly
385 390 395 400

Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
405 410 415

Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn
420 425 430

His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro
435 440

<210> 173
<211> 552
<212> DNA
<213> Homo Sapiens

<400> 173
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acctacatct gcctccactt cagcgccctg caggtgtccc accgataccc caggatccag 180

tccatcaagg tccagttcac cgagtacaaa aaggagaagg gattcatcct gacctcccaa 240

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tacctgatct ccctgaaggg ctacttctcc caggaggtga acatctccct gcactaccag 360

aaggacgagg agcccctgtt ccagctgaag aaggtgaggt ccgtgaattc cctgatggtg 420

gccagcctga cctacaagga caaggtctac ctgaacgtga ccaccgacaa caccagcctg 480

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tgcgtcctgt aa 552

<210> 174
<211> 181
<212> PRT
<213> Homo Sapiens

<400> 174

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

Ala Leu Gln Val Ser His Arg Tyr Pro Arg Ile Gln Ser Ile Lys Val
50 55 60

Gln Phe Thr Glu Tyr Lys Lys Glu Lys Gly Phe Ile Leu Thr Ser Gln
65 70 75 80

Lys Glu Asp Glu Ile Met Lys Val Gln Asn Asn Ser Val Ile Ile Asn
85 90 95

Cys Asp Gly Phe Tyr Leu Ile Ser Leu Lys Gly Tyr Phe Ser Gln Glu
100 105 110

Val Asn Ile Ser Leu His Tyr Gln Lys Asp Glu Glu Pro Leu Phe Gln
115 120 125

Leu Lys Lys Val Arg Ser Val Asn Ser Leu Met Val Ala Ser Leu Thr
130 135 140

Tyr Lys Asp Lys Val Tyr Leu Asn Val Thr Thr Asp Asn Thr Ser Leu
145 150 155 160

Asp Asp Phe His Val Asn Gly Gly Glu Leu Ile Leu Ile His Gln Asn
165 170 175

Pro Gly Glu Phe Cys
180

<210> 175
<211> 834
<212> DNA
<213> Homo Sapiens

<400> 175
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cggtgctgcc acgagtgcag gccaggcaac gggatggtga gccgctgcag ccgctcccag 180

aacacggtgt gccgtccgtg cgggccgggc ttctacaacg acgtggtcag ctccaagccg 240

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gccacacagg acacagtctg ccgctgccgg gcgggcaccc agcccctgga cagctacaag 360

cctggagttg actgtgcccc ctgccctcca gggcacttct ccccaggcga caaccaggcc 420

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ggaccctcca cccggcccgt ggaggtcccc gggggccgtg cggttgccgc catcctgggc 660

ctgggcctgg tgctggggct gctgggcccc ctggccatcc tgctggccct gtacctgctc 720

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<210> 176
<211> 277
<212> PRT
<213> Homo Sapiens

<400> 176

Met Cys Val Gly Ala Arg Arg Leu Gly Arg Gly Pro Cys Ala Ala Leu
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Leu Leu Leu Gly Leu Gly Leu Ser Thr Val Thr Gly Leu His Cys Val
20 25 30

Gly Asp Thr Tyr Pro Ser Asn Asp Arg Cys Cys His Glu Cys Arg Pro
35 40 45

Gly Asn Gly Met Val Ser Arg Cys Ser Arg Ser Gln Asn Thr Val Cys
50 55 60

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Arg Pro Cys Gly Pro Gly Phe Tyr Asn Asp Val Val Ser Ser Lys Pro
65                  70                  75                  80

Cys Lys Pro Cys Thr Trp Cys Asn Leu Arg Ser Gly Ser Glu Arg Lys
                85                  90                  95

Gln Leu Cys Thr Ala Thr Gln Asp Thr Val Cys Arg Cys Arg Ala Gly
            100                 105                 110

Thr Gln Pro Leu Asp Ser Tyr Lys Pro Gly Val Asp Cys Ala Pro Cys
        115                 120                 125

Pro Pro Gly His Phe Ser Pro Gly Asp Asn Gln Ala Cys Lys Pro Trp
    130                 135                 140

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

Ser Ser Asp Ala Ile Cys Glu Asp Arg Asp Pro Pro Ala Thr Gln Pro
                165                 170                 175

Gln Glu Thr Gln Gly Pro Pro Ala Arg Pro Ile Thr Val Gln Pro Thr
            180                 185                 190

Glu Ala Trp Pro Arg Thr Ser Gln Gly Pro Ser Thr Arg Pro Val Glu
        195                 200                 205

Val Pro Gly Gly Arg Ala Val Ala Ala Ile Leu Gly Leu Gly Leu Val
    210                 215                 220

Leu Gly Leu Leu Gly Pro Leu Ala Ile Leu Leu Ala Leu Tyr Leu Leu
225                 230                 235                 240

Arg Arg Asp Gln Arg Leu Pro Pro Asp Ala His Lys Pro Pro Gly Gly
                245                 250                 255

Gly Ser Phe Arg Thr Pro Ile Gln Glu Glu Gln Ala Asp Ala His Ser
            260                 265                 270

Thr Leu Ala Lys Ile
        275
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