

FP1729 Sequence Listing.TXT
SEQUENCE LISTING

<110> DAIICHI SANKYO COMPANY, LIMITED
<120> Anti-CD3 Antibody and Molecules Comprising the Antibody
<130> FP1729
<150> JP2016-249148
<151> 2016-12-22
<160> 103
<170> PatentIn version 3.5
<210> 1
<211> 207
<212> PRT
<213> Homo sapiens
<400> 1

Met Gln Ser Gly Thr His Trp Arg Val Leu Gly Leu Cys Leu Leu Ser
1 5 10 15

Val Gly Val Trp Gly Gln Asp Gly Asn Glu Glu Met Gly Gly Ile Thr
20 25 30

Gln Thr Pro Tyr Lys Val Ser Ile Ser Gly Thr Thr Val Ile Leu Thr
35 40 45

Cys Pro Gln Tyr Pro Gly Ser Glu Ile Leu Trp Gln His Asn Asp Lys
50 55 60

Asn Ile Gly Gly Asp Glu Asp Asp Lys Asn Ile Gly Ser Asp Glu Asp
65 70 75 80

His Leu Ser Leu Lys Glu Phe Ser Glu Leu Glu Gln Ser Gly Tyr Tyr
85 90 95

Val Cys Tyr Pro Arg Gly Ser Lys Pro Glu Asp Ala Asn Phe Tyr Leu
100 105 110

Tyr Leu Arg Ala Arg Val Cys Glu Asn Cys Met Glu Met Asp Val Met
115 120 125

Ser Val Ala Thr Ile Val Ile Val Asp Ile Cys Ile Thr Gly Gly Leu
130 135 140

Leu Leu Leu Val Tyr Tyr Trp Ser Lys Asn Arg Lys Ala Lys Ala Lys
145 150 155 160

Pro Val Thr Arg Gly Ala Gly Ala Gly Gly Arg Gln Arg Gly Gln Asn
165 170 175

Lys Glu Arg Pro Pro Pro Val Pro Asn Pro Asp Tyr Glu Pro Ile Arg
180 185 190

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Lys Gly Gln Arg Asp Leu Tyr Ser Gly Leu Asn Gln Arg Arg Ile
195 200 205

<210> 2
<211> 171
<212> PRT
<213> Homo sapiens

<400> 2

Met Glu His Ser Thr Phe Leu Ser Gly Leu Val Leu Ala Thr Leu Leu
1 5 10 15

Ser Gln Val Ser Pro Phe Lys Ile Pro Ile Glu Glu Leu Glu Asp Arg
20 25 30

Val Phe Val Asn Cys Asn Thr Ser Ile Thr Trp Val Glu Gly Thr Val
35 40 45

Gly Thr Leu Leu Ser Asp Ile Thr Arg Leu Asp Leu Gly Lys Arg Ile
50 55 60

Leu Asp Pro Arg Gly Ile Tyr Arg Cys Asn Gly Thr Asp Ile Tyr Lys
65 70 75 80

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

Val Glu Leu Asp Pro Ala Thr Val Ala Gly Ile Ile Val Thr Asp Val
100 105 110

Ile Ala Thr Leu Leu Leu Ala Leu Gly Val Phe Cys Phe Ala Gly His
115 120 125

Glu Thr Gly Arg Leu Ser Gly Ala Ala Asp Thr Gln Ala Leu Leu Arg
130 135 140

Asn Asp Gln Val Tyr Gln Pro Leu Arg Asp Arg Asp Asp Ala Gln Tyr
145 150 155 160

Ser His Leu Gly Gly Asn Trp Ala Arg Asn Lys
165 170

<210> 3
<211> 182
<212> PRT
<213> Homo sapiens

<400> 3

Met Glu Gln Gly Lys Gly Leu Ala Val Leu Ile Leu Ala Ile Ile Leu
1 5 10 15

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Leu Gln Gly Thr Leu Ala Gln Ser Ile Lys Gly Asn His Leu Val Lys
20 25 30

Val Tyr Asp Tyr Gln Glu Asp Gly Ser Val Leu Leu Thr Cys Asp Ala
35 40 45

Glu Ala Lys Asn Ile Thr Trp Phe Lys Asp Gly Lys Met Ile Gly Phe
50 55 60

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

Pro Arg Gly Met Tyr Gln Cys Lys Gly Ser Gln Asn Lys Ser Lys Pro
85 90 95

Leu Gln Val Tyr Tyr Arg Met Cys Gln Asn Cys Ile Glu Leu Asn Ala
100 105 110

Ala Thr Ile Ser Gly Phe Leu Phe Ala Glu Ile Val Ser Ile Phe Val
115 120 125

Leu Ala Val Gly Val Tyr Phe Ile Ala Gly Gln Asp Gly Val Arg Gln
130 135 140

Ser Arg Ala Ser Asp Lys Gln Thr Leu Leu Pro Asn Asp Gln Leu Tyr
145 150 155 160

Gln Pro Leu Lys Asp Arg Glu Asp Asp Gln Tyr Ser His Leu Gln Gly
165 170 175

Asn Gln Leu Arg Arg Asn
180

<210> 4
<211> 657
<212> DNA
<213> Artificial Sequence

<220>
<223> CD3 epsilon gamma DNA

<400> 4
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gtgaaagtgt atgactatca agaagatggg agcgttctgc tgacctgtga tgcagaagca 120
aaaaacatta cctgggttcaa agacggcaaa atgattgggt ttctgaccga agataaaaaa 180
aaatggaatc tgggcagcaa tgcaaaagat ccgcgtggta tgtatcagtg taaaggtagc 240
cagaataaaa gcaaaccgct gcagggtttat tatcgtatgg gtagcgcaga tgatgcaaaa 300
aaagatgcag ccaaaaaaga cgacgcgaaa aaagatgatg ctaaaaaaga cggttccgat 360
ggcaatgaag aaatgggtgg tattaccag acccgtata aagttagcat tagcggcacc 420
accgttattc tgacctgtcc gcagtatccg ggtagcgaat ttctgtggca gcataacgat 480

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aaaaacattg gcggtgatga ggacgacaaa aatatcggtg gtgatgaaga tcattctgagc 540
ctgaaagaat tcagcgaact ggaacagagc gggtattatg ttgttatcc tcgtggtagc 600
aaaccggaag atgcaaactt ttatctgtat ctgcgtgcac gtgttgggaa gcttaat 657

<210> 5
<211> 219
<212> PRT
<213> Artificial Sequence

<220>
<223> His-sCCD3 AA

<400> 5

Met Arg Gly Ser His His His His His His Gly Ser Gln Ser Ile Lys
1 5 10 15

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

Leu Leu Thr Cys Asp Ala Glu Ala Lys Asn Ile Thr Trp Phe Lys Asp
35 40 45

Gly Lys Met Ile Gly Phe Leu Thr Glu Asp Lys Lys Lys Trp Asn Leu
50 55 60

Gly Ser Asn Ala Lys Asp Pro Arg Gly Met Tyr Gln Cys Lys Gly Ser
65 70 75 80

Gln Asn Lys Ser Lys Pro Leu Gln Val Tyr Tyr Arg Met Gly Ser Ala
85 90 95

Asp Asp Ala Lys Lys Asp Ala Ala Lys Lys Asp Asp Ala Lys Lys Asp
100 105 110

Asp Ala Lys Lys Asp Gly Ser Asp Gly Asn Glu Glu Met Gly Gly Ile
115 120 125

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

Thr Cys Pro Gln Tyr Pro Gly Ser Glu Ile Leu Trp Gln His Asn Asp
145 150 155 160

Lys Asn Ile Gly Gly Asp Glu Asp Asp Lys Asn Ile Gly Ser Asp Glu
165 170 175

Asp His Leu Ser Leu Lys Glu Phe Ser Glu Leu Glu Gln Ser Gly Tyr
180 185 190

Tyr Val Cys Tyr Pro Arg Gly Ser Lys Pro Glu Asp Ala Asn Phe Tyr
195 200 205

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Leu Tyr Leu Arg Ala Arg Val Gly Lys Leu Asn
210 215

<210> 6
<211> 354
<212> DNA
<213> Rutilus rutilus

<400> 6
gaggtgcagt tgggtggagtc tgggggagggc ctggtgcagc ctggaagggc cctgaaactc 60
tcctgtgtag tctctggagt cacattcaat tactacggga tgagctggat ccgccaggct 120
ccaggggaagg ggctggagtg ggttgcattc attactaatt ctggtggtag aatttactat 180
ccagactctg tgaagggccg attcactatc tccagagaaa atacacaaaa gaccctatac 240
ctacaaatga acagtctgag gtctgaggac acggccactt attactgtac tctcgatggg 300
cgcgatgggtt gggttgctta ctggggccaa ggcactctgg tcactgtctc ttca 354

<210> 7
<211> 118
<212> PRT
<213> Rutilus rutilus

<400> 7
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
1 5 10 15

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

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

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

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

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

Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 8
<211> 327
<212> DNA
<213> Rutilus rutilus

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<400> 8
cagtttgtgc ttactcagcc aaactctgtg tctacgaatc tcggaaccac agtcgaactg      60
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gaggggaagat ctcccaccac tattatttat agggatgata agagaccaga tggagtttct      180
gacaggttct ctgggtccat tgacagatct tccaagtcag ccctcctgac aatcaataat      240
gtgcagactg aagatgaagc tgactacttc tgtcagtctt acagtagtgg ttttattttc      300
ggcggtggaa ccaagctcac tgcctca                                           327

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<210> 9
<211> 109
<212> PRT
<213> Artificial Sequence

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<220>
<223> C3-147_VL AA

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<400> 9
Gln Phe Val Leu Thr Gln Pro Asn Ser Val Ser Thr Asn Leu Gly Thr
1          5          10          15
Thr Val Glu Leu Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn
20         25         30
Tyr Val Asn Trp Tyr Gln Gln His Glu Gly Arg Ser Pro Thr Thr Ile
35         40         45
Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser
50         55         60
Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala Leu Leu Thr Ile Asn Asn
65         70         75         80
Val Gln Thr Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser
85         90         95
Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
100        105

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<210> 10
<211> 75
<212> DNA
<213> Artificial Sequence

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<220>
<223> G4S linker sense

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<400> 10
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cagtttgtgc ttact                                                         75

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<210> 11

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<211> 75
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> G4ss linker antisense

<400> 11
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 tgaagagaca gtgac 75

<210> 12
 <211> 118
 <212> PRT
 <213> Rutilus rutilus

<400> 12
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
 1 5 10 15
 Ala Leu Lys Leu Ser Cys Val Val Ser Gly Val Thr Phe Asn Tyr Tyr
 20 25 30
 Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys
 85 90 95
 Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser
 115

<210> 13
 <211> 109
 <212> PRT
 <213> Rutilus rutilus

<400> 13
 Gln Phe Val Leu Thr Gln Pro Asn Ser Val Ser Thr Asn Leu Gly Thr
 1 5 10 15
 Thr Val Glu Leu Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn
 20 25 30
 Tyr Val Asn Trp Tyr Gln Gln His Glu Gly Arg Ser Pro Thr Thr Ile

35

40

45

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

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

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

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

<210> 14
 <211> 867
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> C3E-7000 ORF

<400> 14
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 gtgcagttgg tggagtctgg gggaggcctg gtgcagcctg gaagggccct gaaactctcc 120
 tgtgtagtct ctggagtcac attcaattac tacgggatga gctggatccg ccaggctcca 180
 gggaaggggc tggagtgggt tgcattcatt actaattctg gtggtagaat ttactatcca 240
 gactctgtga agggccgatt cactatctcc agagaaaata cacaaaagac cctataccta 300
 caaatgaaca gtctgaggtc tgaggacacg gccacttatt actgtactct cgatggtcgc 360
 gatggttggg ttgcttactg gggccaaggc actctgggtc ctgtctcttc aggtggaggg 420
 ggttcaggcg gaggtggcag cggcgggtggc gggagtcagt ttgtgcttac tcagccaaac 480
 tctgtgtcta cgaatctcgg aaccacagtc gaactgtctt gcaagcgcaa cactgggaac 540
 attggaagca attatgtgaa ctggtaccag cagcatgagg gaagatctcc caccactatt 600
 atttataggg atgataagag accagatgga gtttctgaca ggttctctgg gtccattgac 660
 agatcttcca agtcagccct cctgacaatc aataatgtgc agactgaaga tgaagctgac 720
 tacttctgtc agtcttacag tagtggtttt attttcggcg gtggaaccaa gctcactgtc 780
 ctaggcgcgt ctgcggccgc aggatccggt ggtgattaca aagatgatga cgataaaggt 840
 gcagcggcgc atcaccatca tcaccac 867

<210> 15
 <211> 270
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7000 AA

<400> 15

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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
 1 5 10 15
 Ala Leu Lys Leu Ser Cys Val Val Ser Gly Val Thr Phe Asn Tyr Tyr
 20 25 30
 Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Ser Ile Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys
 85 90 95
 Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr
 100 105 110
 Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser
 115 120 125
 Gly Gly Gly Gly Ser Gln Phe Val Leu Thr Gln Pro Asn Ser Val Ser
 130 135 140
 Thr Asn Leu Gly Thr Thr Val Glu Leu Ser Cys Lys Arg Asn Thr Gly
 145 150 155 160
 Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly Arg
 165 170 175
 Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly Val
 180 185 190
 Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala Leu
 195 200 205
 Leu Thr Ile Asn Asn Val Gln Thr Glu Asp Glu Ala Asp Tyr Phe Cys
 210 215 220
 Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr
 225 230 235 240
 Val Leu Gly Ala Ser Ala Ala Ala Gly Ser Gly Gly Asp Tyr Lys Asp
 245 250 255
 Asp Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265 270

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<210> 16
 <211> 118
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7034_VH AA

<400> 16

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

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

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

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

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

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

Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr
 100 105 110

Leu Val Thr Val Ser Ser
 115

<210> 17
 <211> 109
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7034_VL AA

<400> 17

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
 1 5 10 15

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

Tyr Val Asn Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile
 35 40 45

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

FP1729 Sequence Listing.TXT

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

Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser
85 90 95

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

<210> 18
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7034 ORF

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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctggggggag cctgagactg 120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca 180
cctggaaagg gcctggagtg ggtggccagc atcactaatt ccggcgggag aatctactat 240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac 300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc 360
agggatgggt gggctgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga 420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gaccagccc 480
cacagtgtgt cagagagccc tggcaagact gtcacatct cttgtaaaag gaacaccgga 540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca 600
atcatctacc gggacgataa gagacccgac ggggtgtccg atcgattctc cggatctatc 660
gaccggtcaa gcaagagtg ttcactgacc attagcaatc tgaaaacaga ggacgaagca 720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc 780
gtgctgggag cggccgcagg tgcagggtgt gattacaaag atgatgacga taaaggtgca 840
gcggcgcac accatcatca ccac 864

<210> 19
<211> 269
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-7034 AA

<400> 19

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr
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20

25

30

Tyr Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
35 40 45
Val Ala Ser Ile Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
50 55 60
Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
65 70 75 80
Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
100 105 110
Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
115 120 125
Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140
Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160
Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175
Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly
180 185 190
Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205
Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220
Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240
Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255
Asp Asp Lys Gly Ala Ala Ala His His His His His
260 265

<210> 20
<211> 107
<212> PRT
<213> Artificial Sequence

FP1729 Sequence Listing.TXT

<220>

<223> C3E-7035_VL AA

<400> 20

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

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

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

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

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

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

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

<210> 21

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<223> C3E-7035 ORF

<400> 21

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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg	120
agttgtgccg cctctgggggt gacatttaac tactatggca tgtcttggtat ccgccaggca	180
cctggaaagg gcctggagtg ggtggccagc atcactaatt ccggcgggcg aatctactat	240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac	300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc	360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga	420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa tggcccaggc tgtgctcact	480
cagccgtcct ctgtttctg cgtacctggc caacgggtga ccattagctg taaaaggaat	540
accgggaata tcgggtctaa ctacgtgaac tggatcagc agcttcagg gacagctccc	600
aagttgctga tctatcgcg cgacaaaaga ccctcagggg tccctgaccg atttagtggc	660
agcaaaagcg gtacttccgc ttccctggcg ataaccggct ttcaggccga agatgaggca	720
gactactatt gccagtcata ttccagcggc ttcattctcg gaggcggaac taagctgaca	780

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gtgctgggcg cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca 840
gcggcgcac accatcatca ccac 864

<210> 22
<211> 269
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-7035 AA

<400> 22

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

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

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

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

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
65 70 75 80

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

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

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

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

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

Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu
165 170 175

Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro
180 185 190

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala
195 200 205

Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr

210

215

220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 23
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-7036_VL AA

<400> 23

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

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

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

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

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

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

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

<210> 24
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7036 ORF

<400> 24

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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg 120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat cgcgcaggca 180

FP1729 Sequence Listing.TXT

cctggaaagg gcctggagtg ggtggccagc atcactaatt ccggcgggcg aatctactat	240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac	300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc	360
agggatgggt gggtcgccta ttgggggcag ggaaccctgg tgacagtcag ctccggagga	420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct cactcagccg	480
tcctctgttt ctggcgtagc tggccaacgg gtgaccatta gctgtacggg taataccggg	540
aatatcgggt ctaactacgt gaactggtat cagcagcttc cagggacagc tccaagttg	600
ctgatctatc gcgacgacaa aagaccctca ggggtccctg accgatttag tggcagcaaa	660
agcggtagctt ccgcttccct ggcgataacc ggctttcagg ccgaagatga ggcagactac	720
tattgccagt catattccag cggcttcac ttcggaggcg gaactaagct gacagtgttg	780
ggtgcggccg caggtgcagg tgggtgattac aaagatgatg acgataaagg tgcagcggcg	840
catcaccatc atcaccac	858

<210> 25
 <211> 267
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7036 AA

<400> 25

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

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

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

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

Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Glu	Asn	Thr	Gln	Lys	Thr	Leu
65					70					75					80

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

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

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

Ser	Gly	Gly	Gly	Gly	Ser	Asn	Phe	Met	Leu	Thr	Gln	Pro	Ser	Ser	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

FP1729 Sequence Listing.TXT

130

135

140

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

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly
165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly
180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
195 200 205

Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln
210 215 220

Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
225 230 235 240

Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp
245 250 255

Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 26
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> 7000_CDR-H1

<400> 26

Gly Val Thr Phe Asn Tyr Tyr Gly
1 5

<210> 27
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> 7000_CDR-H2

<400> 27

Ile Thr Asn Ser Gly Gly Arg Ile
1 5

<210> 28
<211> 11
<212> PRT
<213> Artificial Sequence

FP1729 Sequence Listing.TXT

<220>

<223> 7000_CDR-H3

<400> 28

Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr
1 5 10

<210> 29

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> 7000_CDR-L1

<400> 29

Thr Gly Asn Ile Gly Ser Asn Tyr
1 5

<210> 30

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> 7000_CDR-L2

<400> 30

Arg Asp Asp

1

<210> 31

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> 7000_CDR-L3

<400> 31

Gln Ser Tyr Ser Ser Gly Phe Ile
1 5

<210> 32

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<223> C3E-3000 ORF

<400> 32

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gtgcagctgc agcagtctgg cgccgaactg gctagacctg gcgcctccgt gaagatgagc	120
tgcaaggcca gcggctacac cttcacccgg tacaccatgc actgggtcaa gcagaggcct	180
ggacagggcc tggaatggat cggctacatc aaccccagcc ggggctacac caactacaac	240

FP1729 Sequence Listing.TXT

cagaagttca aggacaaggc caccctgacc accgacaaga gcagcagcac cgcctacatg	300
cagctgtcca gcctgaccag cgaggacagc gccgtgtact actgcgcccg gtactacgac	360
gaccactact gcctggacta ctggggccag ggcaccacac tgaccgtgtc tagtggtgga	420
ggcgggttcag gcggaggtgg cagcggcggg ggcgggagtc agatcgtgct gacacagagc	480
cccgccatca tgtctgccag ccctggcgag aaagtgacca tgacctgtag cgccagcagc	540
agcgtgtcct acatgaactg gtatcagcag aagtccggca ccagcccca gcggtggatc	600
tacgacacaa gcaagctggc ctctggcgtg cccgcccact ttagaggctc tggcagcggc	660
acaagctaca gcctgaccat cagcggcatg gaagccgagg atgccgccac ctactactgc	720
cagcagtggg ccagcaaccc cttcaccttt ggctccggca caaagctgga aatcaagcgg	780
ggcgcgtctg cgcccgcagg tagcgggtggg gattacaaag atgatgacga taaaggtgca	840
gcggcgcac accatcatca ccac	864

<210> 33
 <211> 269
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-3000 AA

<400> 33

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala
 1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr
 20 25 30

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

Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Asn Gln Lys Phe
 50 55 60

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

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

Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
 100 105 110

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

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

FP1729 Sequence Listing.TXT

Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser
 145 150 155 160

Ser Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Ser Gly Thr Ser
 165 170 175

Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro
 180 185 190

Ala His Phe Arg Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
 195 200 205

Ser Gly Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp
 210 215 220

Ser Ser Asn Pro Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
 225 230 235 240

Arg Gly Ala Ser Ala Ala Ala Gly Ser Gly Gly Asp Tyr Lys Asp Asp
 245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
 260 265

<210> 34
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> C3E-3007 ORF

<400> 34
 atgaagcacc tgtggttctt tctgctgctg gtggccgctc ccagatgggt gctgtctcag 60
 gtgcagctgg tgcagtctgg cgccgagagc aaaaagcctg gcgcctccgt gaagggtgtcc 120
 tgcaaggcca gcggctacac ctttaccggt tacaccatgc actgggtgcg ccaggcacct 180
 ggacagggcc tggaatggat gggctacatc aaccccagcc ggggctacac caactacaac 240
 cagaaattca aggaccgctg gaccatcacc gccgacaaga gcaccagcac cgcctacatg 300
 gaactgagca gcctgaggag cgaggacacc gccgtgtact actgtgcccg gtactacgac 360
 gaccactact gcctggacta ctggggccag ggcacactcg tgaccgtgtc tagtggtgga 420
 ggcgggttcag gcggagggtg cagcggcggt ggcgggagtc agatccagat gaccagagc 480
 cctagcagcc tggccgtgtc tctgggagag agagccacca tcacctgtag cgccagcagc 540
 agcgtgtcct acatgaactg gtatcagcag aagcccggca agggcccaa gcggtggatc 600
 tacgatacca gcaagctggc ctccggcgtg cccgatagat tttctggcag cggctccggc 660
 accgacttca ccctgacaat cagctccctg caggccgagg acgtggccac ctactactgt 720
 cagcagtggg ccagcaaccc cttcaccttc ggccagggca ccaaggtgga aatcaagcgg 780

FP1729 Sequence Listing.TXT

ggcgcgctctg cggccgcagg tagcgggtggt gattacaaag atgatgacga taaaggtgca 840
gcggcgcatc accatcatca ccac 864

<210> 35
<211> 269
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-3007 AA

<400> 35

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

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr
20 25 30

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

Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Asn Gln Lys Phe
50 55 60

Lys Asp Arg Val Thr Ile Thr Ala Asp Lys Ser Thr 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 Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
100 105 110

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

Ser Gly Gly Gly Gly Ser Gln Ile Gln Met Thr Gln Ser Pro Ser Ser
130 135 140

Leu Ala Val Ser Leu Gly Glu Arg Ala Thr Ile Thr Cys Ser Ala Ser
145 150 155 160

Ser Ser Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala
165 170 175

Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro
180 185 190

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
195 200 205

Ser Ser Leu Gln Ala Glu Asp Val Ala Thr Tyr Tyr Cys Gln Gln Trp

210

FP1729 Sequence Listing.TXT
215 220

Ser Ser Asn Pro Phe Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
225 230 235 240

Arg Gly Ala Ser Ala Ala Ala Gly Ser Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 36
<211> 119
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-3000_VH AA

<400> 36

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala
1 5 10 15

Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Arg Tyr
20 25 30

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

Gly Tyr Ile Asn Pro Ser Arg Gly Tyr Thr Asn Tyr Asn Gln Lys Phe
50 55 60

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

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

Ala Arg Tyr Tyr Asp Asp His Tyr Cys Leu Asp Tyr Trp Gly Gln Gly
100 105 110

Thr Thr Leu Thr Val Ser Ser
115

<210> 37
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-3000_VL AA

<400> 37

Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly

FP1729 Sequence Listing.TXT

```

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

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```

<210> 38
<211> 119
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> C3E-3007_VH AA

```

```

<400> 38

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```

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

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FP1729 Sequence Listing.TXT

<210> 39
 <211> 106
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-3007_VL AA

<400> 39

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

Glu Arg Ala Thr Ile Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30

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

Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu
 65 70 75 80

Asp Val Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Phe Thr
 85 90 95

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

<210> 40
 <211> 822
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> HT1-11 scFv ORF

<400> 40

atgaagcacc tgtggttctt tctgctgctg gtggccgctc ccagatgggt gctgtctcag	60
gtgcagctgg tgcagtctgg cgccgaagtg aagaaaccag gcgccagcgt gaagggtgcc	120
tgcaaggcca gcggctacac ctttaccacc gccggcatgc agtgggtgcg ccaggctcct	180
ggacagggcc tggaatggat gggctggatc aacaccacaca gcggcgtgcc caaatacgcc	240
gaggacttca agggcagagt gaccatcagc gccgacacca gcacctccac agcctacctg	300
cagctgagca gcctgaagtc cgaggacacc gccgtgtact actgcgccag aagcggcttc	360
ggcagcagct actggtactt cgacgtgtgg ggccagggca ccctcgtgac agtgtctagc	420
ggaggcggag gatctggcgg cggaggaagt ggcggagggg gatccgatat ccagatgacc	480
cagagcccca gcagcctgtc tgccagcgtg ggcgacagag tgacaattac atgcaaggcc	540
tcccaggacg tgtccacagc cgtggcctgg tatcagcaga agcctggcaa ggcccccaag	600

FP1729 Sequence Listing.TXT

ctgctgatct acagcgccag ctaccggtac accggcgtgc caagcagatt ttccggcagc 660
 ggctccggca ccgacttcac cctgacaatc agctccctgc agcccagga tttcgccgtg 720
 tattattgcc agcagcacta catcaccccc ctgaccttcg gccagggggac caagctggaa 780
 atcaagagaa caggcgccgc tgcccaccac caccatcacc at 822

<210> 41
 <211> 255
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HT1-11 scFv AA

<400> 41

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 Thr Ala
 20 25 30

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

Gly Trp Ile Asn Thr His Ser Gly Val Pro Lys Tyr Ala Glu Asp Phe
 50 55 60

Lys Gly Arg Val Thr Ile Ser Ala Asp Thr Ser Thr Ser Thr Ala Tyr
 65 70 75 80

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

Ala Arg Ser Gly Phe Gly Ser Ser Tyr Trp Tyr Phe Asp Val Trp Gly
 100 105 110

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

Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro
 130 135 140

Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Lys
 145 150 155 160

Ala Ser Gln Asp Val Ser Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro
 165 170 175

Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr Thr
 180 185 190

Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr

195

FP1729 Sequence Listing.TXT

200

205

Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Val Tyr Tyr Cys
 210 215 220

Gln Gln His Tyr Ile Thr Pro Leu Thr Phe Gly Gln Gly Thr Lys Leu
 225 230 235 240

Glu Ile Lys Arg Thr Gly Ala Ala Ala His His His His His His
 245 250 255

<210> 42
 <211> 1614
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> T2C-0001 ORF

<400> 42
 atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcggg 60
 caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaagggt 120
 tcttgcaagg ccagcggcta cacttttacc accgccggca tgcagtgggt gcgccaggct 180
 cctggacagg gcctggaatg gatgggctgg atcaacaccc acagcggcgt gcccaaatac 240
 gccgaggact tcaagggcag agtgaccatc agcgccgaca ccagcacctc cacagcctac 300
 ctgcagctga gcagcctgaa gtccgaggac accgccgtgt actactgcgc cagaagcggc 360
 ttcggcagca gctactggta cttcgacgtg tggggccagg gcaccctcgt gacagtgtct 420
 agcggaggcg gaggatctgg cggcggagga agtggcggag ggggatccga tatccagatg 480
 acccagagcc ccagcagcct gtctgccagc gtgggcgaca gagtgacaat tacatgcaag 540
 gcctcccagg acgtgtccac agccgtggcc tggatatcagc agaagcctgg caaggccccc 600
 aagctgctga tctacagcgc cagctaccgg tacaccggcg tgccaagcag attttccggc 660
 agcggctccg gcaccgactt caccctgaca atcagctccc tgcagcccga ggatttcgcc 720
 gtgtattatt gccagcagca ctacatcacc cccctgacct tcggccaggg gaccaagctg 780
 gaaatcaaga gaacaggggg aggcgggttca gaagtgcagc tgggtggaatc cggggggggc 840
 ctggtgcagc ctgggggggag cctgagactg agttgtgccg cctctgggggt gacatttaac 900
 tactatggca tgtcttgat ccgccaggca cctggaaagg gcctggagtg ggtggccagc 960
 atcactaatt ccggcgggcg aatctactat cccgacagcg tcaagggcag gttcacaatt 1020
 tcccgcgaga acacacagaa aactctgtac ctgcagatga atagcctgag agccgaagat 1080
 acagctgtgt actattgcac tctggacggc agggatgggt gggtcgccta ttgggggcag 1140
 ggaaccctgg tgacagtcag ctccggagga ggaggatctg gcggaggagg cagtggggga 1200
 ggcggtcaa actttatgct gaccagccc cacagtgtgt cagagagccc tggcaagact 1260
 gtcaccatct cttgtaaaaag gaacaccgga aatattggca gtaactacgt gaattggtat 1320

FP1729 Sequence Listing.TXT

cagcagcatg aaggggtctag tccaaccaca atcatctacc gggacgataa gagacccgac 1380
 ggggtgtccg atcgattctc cggatctatc gaccgggtcaa gcaagagtgc ttacttgacc 1440
 attagcaatc tgaaaacaga ggacgaagca gattactttt gccagtccta ttcctctggc 1500
 ttcatctttg gaggcgggac taaactgacc gtgctgggcg cggccgcagg tgcaggtggt 1560
 gattacaaag atgatgacga taaaggtgca gcggcgcac accatcatca ccac 1614

<210> 43
 <211> 519
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> T2C-0001 AA

<400> 43

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

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr
 20 25 30

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

Met Gly Trp Ile Asn Thr His Ser Gly Val Pro Lys Tyr Ala Glu Asp
 50 55 60

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

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

Cys Ala Arg Ser Gly Phe Gly Ser Ser Tyr Trp Tyr Phe Asp Val Trp
 100 105 110

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

Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser
 130 135 140

Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
 145 150 155 160

Lys Ala Ser Gln Asp Val Ser Thr Ala Val Ala Trp Tyr Gln Gln Lys
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr
 180 185 190

FP1729 Sequence Listing.TXT

Thr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
195 200 205

Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Val Tyr Tyr
210 215 220

Cys Gln Gln His Tyr Ile Thr Pro Leu Thr Phe Gly Gln Gly Thr Lys
225 230 235 240

Leu Glu Ile Lys Arg Thr Gly Gly Gly Gly Ser Glu Val Gln Leu Val
245 250 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
260 265 270

Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile
275 280 285

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile Thr Asn
290 295 300

Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr
305 310 315 320

Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser
325 330 335

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg
340 345 350

Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
355 360 365

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
370 375 380

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
385 390 395 400

Thr Val Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly Ser Asn
405 410 415

Tyr Val Asn Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile
420 425 430

Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser
435 440 445

Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile Ser Asn
450 455 460

FP1729 Sequence Listing.TXT

Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser
465 470 475 480

Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala
485 490 495

Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Lys Gly Ala Ala
500 505 510

Ala His His His His His His
515

<210> 44
<211> 1647
<212> DNA
<213> Artificial Sequence

<220>
<223> T2C-0003 ORF

<400> 44
atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcgga 60
caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaagggtg 120
tcctgcaagg ccagcggcta cacctttacc accgccggca tgcagtgggt gcgccaggct 180
cctggacagg gcctggaatg gatgggctgg atcaacaccc acagcggcgt gcccaaatac 240
gccgaggact tcaagggcag agtgaccatc agcgccgaca ccagcacctc cacagcctac 300
ctgcagctga gcagcctgaa gtccgaggac accgccgtgt actactgcgc cagaagcggc 360
ttcggcagca gctactggta cttcgacgtg tggggccagg gcaccctcgt gacagtgtct 420
agcggaggcg gaggatctgg cggcgaggga agtggcggag ggggatccga tatccagatg 480
accagagcc ccagcagcct gtctgccagc gtgggcgaca gagtgacaat tacatgcaag 540
gcctcccagg acgtgtccac agccgtggcc tggatatcagc agaagcctgg caaggcccc 600
aagctgctga tctacagcgc cagctaccgg tacaccggcg tgccaagcag attttccggc 660
agcggctccg gcaccgactt caccctgaca atcagctccc tgcagcccga ggatttcgcc 720
gtgtattatt gccagcagca ctacatcacc cccctgacct tcggccaggg gaccaagctg 780
gaaatcaaga gaacaggggg aggcggttca gaagtgcagc tgggtggaatc cggcggaggc 840
ctggtccagc ctggcggcag cctgaaactg agctgcgccg ccagcggctt caccttcaac 900
aaatacgcca tgaactgggt ccgccaggct cctggaaagg gactcgagtg ggtggccccg 960
atcagaagca agtacaacaa ctacgccacc tactacgccg acagcgtgaa ggaccggttc 1020
accatcagcc gggacgacag caagaacacc gcctacctgc agatgaacaa cctgaaaacc 1080
gaggacacag ccgtgtacta ctgcgtgcgg cacggcaact tcggcaacag ctacatcagc 1140
tactgggcct attggggaca gggaacactc gtgacagtgt ccagtggcgg aggcggcagt 1200
ggtgggggag gaagcggagg tggcggatct cagaccgtgg tcaccagga acccagcctg 1260

FP1729 Sequence Listing.TXT

acagtcagcc ctggaggcac cgtgaccctg acctgtggaa gcagcacagg cgccgtgacc	1320
agcggctact accccaactg ggtgcagcag aagcccggcc aggctcctag aggccctgac	1380
ggcggcacca agtttctggc ccctggcacc cctgcccgtt tctctggatc tctgctgggc	1440
ggcaaggccg ccctgacact gagcggagtg cagcccaggg acgaggccga gtactactgt	1500
gccctgtggt acagcaacag atgggtgttc ggcggaggga ccaagctgac cgtgctgggc	1560
agcggcgcgt ctgcggccgc aggtagcggg ggtgattaca aagatgatga cgataaaggt	1620
gcagcggcgc atcaccatca tcaccac	1647

<210> 45
 <211> 530
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> T2C-0003 AA

<400> 45

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

Ala	Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Thr
			20					25					30		

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

Met	Gly	Trp	Ile	Asn	Thr	His	Ser	Gly	Val	Pro	Lys	Tyr	Ala	Glu	Asp
	50					55					60				

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

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

Cys	Ala	Arg	Ser	Gly	Phe	Gly	Ser	Ser	Tyr	Trp	Tyr	Phe	Asp	Val	Trp
			100					105					110		

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

Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser
	130						135				140				

Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys
145					150					155					160

Lys	Ala	Ser	Gln	Asp	Val	Ser	Thr	Ala	Val	Ala	Trp	Tyr	Gln	Gln	Lys
				165					170					175	

FP1729 Sequence Listing.TXT

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr
180 185 190

Thr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
195 200 205

Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Val Tyr Tyr
210 215 220

Cys Gln Gln His Tyr Ile Thr Pro Leu Thr Phe Gly Gln Gly Thr Lys
225 230 235 240

Leu Glu Ile Lys Arg Thr Gly Gly Gly Gly Ser Glu Val Gln Leu Val
245 250 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Lys Leu Ser
260 265 270

Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr Ala Met Asn Trp Val
275 280 285

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Ile Arg Ser
290 295 300

Lys Tyr Asn Asn Tyr Ala Thr Tyr Tyr Ala Asp Ser Val Lys Asp Arg
305 310 315 320

Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Ala Tyr Leu Gln Met
325 330 335

Asn Asn Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Val Arg His
340 345 350

Gly Asn Phe Gly Asn Ser Tyr Ile Ser Tyr Trp Ala Tyr Trp Gly Gln
355 360 365

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly
370 375 380

Gly Ser Gly Gly Gly Gly Ser Gln Thr Val Val Thr Gln Glu Pro Ser
385 390 395 400

Leu Thr Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Gly Ser Ser
405 410 415

Thr Gly Ala Val Thr Ser Gly Tyr Tyr Pro Asn Trp Val Gln Gln Lys
420 425 430

Pro Gly Gln Ala Pro Arg Gly Leu Ile Gly Gly Thr Lys Phe Leu Ala
435 440 445

FP1729 Sequence Listing.TXT

Pro Gly Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Gly Lys Ala
450 455 460

Ala Leu Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Glu Tyr Tyr
465 470 475 480

Cys Ala Leu Trp Tyr Ser Asn Arg Trp Val Phe Gly Gly Gly Thr Lys
485 490 495

Leu Thr Val Leu Gly Ser Gly Ala Ser Ala Ala Ala Gly Ser Gly Gly
500 505 510

Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ala Ala Ala His His His His
515 520 525

His His
530

<210> 46
<211> 1614
<212> DNA
<213> Artificial sequence

<220>
<223> T2C-0005 ORF

<400> 46
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caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaagggtg 120
tcctgcaagg ccagcggcta cacctttacc accgccggca tgcagtgggt gcgccaggct 180
cctggacagg gcctggaatg gatgggctgg atcaacaccc acagcggcgt gcccaaatac 240
gccgaggact tcaagggcag agtgaccatc agcgccgaca ccagcacctc cacagcctac 300
ctgcagctga gcagcctgaa gtccgaggac accgccgtgt actactgcgc cagaagcggc 360
ttcggcagca gctactggta cttcgacgtg tggggccagg gcaccctcgt gacagtgtct 420
agcggaggcg gaggatctgg cggcggagga agtggcggag ggggatccga tatccagatg 480
accagagcc ccagcagcct gtctgccagc gtgggcgaca gagtgacaat tacatgcaag 540
gcctcccagg acgtgtccac agccgtggcc tggatatcagc agaagcctgg caaggccccc 600
aagctgctga tctacagcgc cagctaccgg tacaccggcg tgccaagcag attttccggc 660
agcggctccg gcaccgactt caccctgaca atcagctccc tgcagcccga ggatttcgcc 720
gtgtattatt gccagcagca ctacatcacc cccctgacct tcggccaggg gaccaagctg 780
gaaatcaaga gaacaggggg aggcgggttca gaagtgcagc tgggtggaatc cggggggggc 840
ctgggtgcagc ctgggggggag cctgagactg agttgtgccg cctctggggg gacatttaac 900
tactatggca tgtcttgat ccgccaggca cctggaaagg gcctggagtg ggtggccagc 960
atcactaatt ccggcggggc aatctactat cccgacagcg tcaagggcag gttcacaatt 1020

FP1729 Sequence Listing.TXT

tcccgcgaga acacacagaa aactctgtac ctgcagatga atagcctgag agccgaagat	1080
acagctgtgt actattgcac tctggacggc agggatgggt gggtcgccta ttgggggcag	1140
ggaaccctgg tgacagtcag ctccggagga ggaggatctg gcggaggagg cagtggggga	1200
ggcgggtcaa tggcccaggc tgtgctcact cagccgtcct ctgtttctgg cgtacctggc	1260
caacgggtga ccattagctg taaaaggaat accgggaata tcgggtctaa ctacgtgaac	1320
tggtatcagc agcttccagg gacagctccc aagttgctga tctatcgca cgacaaaaga	1380
ccctcagggg tccctgaccg atttagtggc agcaaaagcg gtacttccgc ttccctggcg	1440
ataaccggct ttcaggccga agatgaggca gactactatt gccagtcata ttccagcggc	1500
ttcatcttcg gaggcggaac taagctgaca gtgttgggcg cggccgcagg tgcaggtggt	1560
gattacaaag atgatgacga taaaggtgca gcggcgcac accatcatca ccac	1614

<210> 47
 <211> 519
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> T2C-0005 AA

<400> 47

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Ala	Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	Thr	Thr
			20					25					30		

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

Met	Gly	Trp	Ile	Asn	Thr	His	Ser	Gly	Val	Pro	Lys	Tyr	Ala	Glu	Asp
	50					55					60				

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

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

Cys	Ala	Arg	Ser	Gly	Phe	Gly	Ser	Ser	Tyr	Trp	Tyr	Phe	Asp	Val	Trp
			100					105					110		

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

Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser
	130						135					140			

Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

FP1729 Sequence Listing.TXT

145		150		155		160
Lys	Ala	Ser	Gln	Asp	Val	Lys
				165		
					Ser	Thr
					Ala	Val
					170	
					Ala	Trp
					Tyr	Gln
						175
						Lys
Pro	Gly	Lys	Ala	Pro	Lys	Leu
			180			
					Leu	Ile
					185	
					Tyr	Ser
					Ala	Ser
						190
					Tyr	Arg
						Tyr
Thr	Gly	Val	Pro	Ser	Arg	Phe
		195				
					Ser	Gly
					200	
					Ser	Gly
						205
					Gly	Thr
						Asp
						Phe
Thr	Leu	Thr	Ile	Ser	Ser	Leu
	210					215
					Gln	Pro
					Glu	Asp
						220
					Phe	Ala
						Val
						Tyr
						Tyr
Cys	Gln	Gln	His	Tyr	Ile	Thr
225					230	
					Pro	Leu
					Thr	Phe
						235
					Gly	Gln
					Gly	Thr
						Lys
						240
Leu	Glu	Ile	Lys	Arg	Thr	Gly
				245		
					Gly	Gly
					Gly	Gly
						250
					Ser	Glu
					Val	Gln
						Leu
						255
						Val
Glu	Ser	Gly	Gly	Gly	Leu	Val
				260		
					Gln	Pro
						265
					Gly	Gly
					Ser	Leu
						Arg
						270
						Leu
						Ser
Cys	Ala	Ala	Ser	Gly	Val	Thr
		275				
					Phe	Asn
					280	
					Tyr	Tyr
					Gly	Met
						285
					Ser	Trp
						Ile
Arg	Gln	Ala	Pro	Gly	Lys	Gly
	290					295
					Leu	Glu
					Trp	Val
						Ala
						300
					Ser	Ile
						Thr
						Asn
Ser	Gly	Gly	Arg	Ile	Tyr	Tyr
305				310		
					Pro	Asp
					Ser	Val
						315
					Lys	Gly
					Arg	Phe
						320
						Thr
Ile	Ser	Arg	Glu	Asn	Thr	Gln
				325		
					Lys	Thr
						330
					Leu	Tyr
						Leu
					Gln	Met
						335
					Ser	
Leu	Arg	Ala	Glu	Asp	Thr	Ala
			340			Val
					Tyr	Tyr
						345
					Cys	Thr
						Leu
					Asp	Gly
						350
					Arg	
Asp	Gly	Trp	Val	Ala	Tyr	Trp
		355				
					Gly	Gln
						360
					Gly	Thr
						Leu
					Val	Thr
						365
						Val
						Ser
ser	gly	gly	gly	gly	ser	gly
	370					375
					gly	gly
					gly	gly
					gly	gly
					ser	gly
						380
					gly	gly
					gly	gly
					gly	gly
					ser	
Met	Ala	Gln	Ala	Val	Leu	Thr
385					390	
					Gln	Pro
					Ser	Ser
						395
					Val	Ser
					Gly	Val
						400
						Pro
Gly	Gln	Arg	Val	Thr	Ile	Ser
				405		
					Cys	Lys
						Arg
						410
					Asn	Thr
					Gly	Asn
						415
					Ile	Gly
Ser	Asn	Tyr	Val	Asn	Trp	Tyr
					Gln	Gln
					Leu	Pro
					Gly	Thr
					Ala	Pro
						Lys

420

425

430

Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg
435 440 445

Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly
450 455 460

Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser
465 470 475 480

Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala
485 490 495

Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ala Ala
500 505 510

Ala His His His His His
515

<210> 48
<211> 1608
<212> DNA
<213> Artificial sequence

<220>
<223> T2C-0006 ORF

<400> 48
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caggtgcagc tgggtgcagtc tggcgccgaa gtgaagaaac caggcgccag cgtgaagggtg 120
tcctgcaagg ccagcggcta caccctttacc accgccggca tgcagtgggt gcgccaggct 180
cctggacagg gcctggaatg gatgggctgg atcaacaccc acagcggcgt gccc aaatac 240
gccgaggact tcaagggcag agtgaccatc agcgccgaca ccagcacctc cacagcctac 300
ctgcagctga gcagcctgaa gtccgaggac accgccgtgt actactgcgc cagaagcggc 360
ttcggcagca gctactggta cttcgacgtg tggggccagg gcaccctcgt gacagtgtct 420
agcggaggcg gaggatctgg cggcgaggga agtggcggag ggggatccga tatccagatg 480
accagagcc ccagcagcct gtctgccagc gtgggcgaca gaggtgacaat tacatgcaag 540
gcctcccagg acgtgtccac agccgtggcc tggatatcagc agaagcctgg caaggcccc 600
aagctgctga tctacagcgc cagctaccgg tacaccggcg tgccaagcag attttccggc 660
agcggctccg gcaccgactt caccctgaca atcagctccc tgcagcccga ggatttcgcc 720
gtgtattatt gccagcagca ctacatcacc cccctgacct tcggccaggg gaccaagctg 780
gaaatcaaga gaacaggggg aggcgggttca gaagtgcagc tgggtggaatc cggggggggc 840
ctgggtgcagc ctgggggggag cctgagactg agttgtgccc cctctggggg gacatttaac 900
tactatggca tgtcttggat ccgccaggca cctggaaagg gcctggagtg ggtggccagc 960

FP1729 Sequence Listing.TXT

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atcactaatt cccgcgggcg aatctactat cccgacagcg tcaagggcag gttcacaatt 1020
tcccgcgaga acacacagaa aactctgtac ctgcagatga atagcctgag agccgaagat 1080
acagctgtgt actattgcac tctggacggc agggatgggt gggtcgccta ttggggggcag 1140
ggaaccctgg tgacagtcag ctccggagga ggaggatctg gcggaggagg cagtggggga 1200
ggcgggtcaa actttatgct cactcagccg tcctctgttt ctggcgtagg tggccaacgg 1260
gtgaccatta gctgtacggg taataccggg aatatcgggt ctaactacgt gaactggtat 1320
cagcagcttc cagggacagc tccaagttg ctgatctatc gcgacgacaa aagaccctca 1380
ggggtccttg accgatttag tggcagcaaa agcggtagct ccgcttcctt ggcgataacc 1440
ggctttcagg ccgaagatga ggcagactac tattgccagt catattccag cggcttcac 1500
ttcggaggcg gaactaagct gacagtgttg ggcgcggccg caggtgcagg tggtgattac 1560
aaagatgatg acgataaagg tgcagcggcg catcaccatc atcaccac 1608

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<210> 49
 <211> 517
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> T2C-0006 AA

<400> 49

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

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FP1729 Sequence Listing.TXT

Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
145 150 155 160

Lys Ala Ser Gln Asp Val Ser Thr Ala Val Ala Trp Tyr Gln Gln Lys
165 170 175

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ser Ala Ser Tyr Arg Tyr
180 185 190

Thr Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
195 200 205

Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Val Tyr Tyr
210 215 220

Cys Gln Gln His Tyr Ile Thr Pro Leu Thr Phe Gly Gln Gly Thr Lys
225 230 235 240

Leu Glu Ile Lys Arg Thr Gly Gly Gly Gly Ser Glu Val Gln Leu Val
245 250 255

Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser
260 265 270

Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser Trp Ile
275 280 285

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile Thr Asn
290 295 300

Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr
305 310 315 320

Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met Asn Ser
325 330 335

Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp Gly Arg
340 345 350

Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser
355 360 365

Ser Gly Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
370 375 380

Asn Phe Met Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro Gly Gln
385 390 395 400

Arg Val Thr Ile Ser Cys Thr Gly Asn Thr Gly Asn Ile Gly Ser Asn
405 410 415

FP1729 Sequence Listing.TXT

Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
420 425 430

Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
435 440 445

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Phe Gln
450 455 460

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser Gly Phe
465 470 475 480

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala Ala Gly
485 490 495

Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ala Ala Ala His
500 505 510

His His His His His
515

<210> 50
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Nhe-polyC-S

<220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g or t

<400> 50
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37

<210> 51
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> rIg gamma-AS1

<400> 51
tcactgagct ggtgagagtg tagagccc

28

<210> 52
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> rIg gamma-AS2

<400> 52

tcaccgagct gctgaggggtg tagagccc 28

<210> 53
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Nhe-polyC-S2

<220>
 <221> misc_feature
 <222> (37)..(37)
 <223> n is a, c, g or t

<400> 53
 gctagcgcta cgggactcag atcccccccc ccccdn 37

<210> 54
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> rIgL-AS1

<400> 54
 ttccacatca ctcgggtaga aatcag 26

<210> 55
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> rIgL-AS2

<400> 55
 taacaccagg gtagaaatct gtcaccat 28

<210> 56
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> rIg gamma-seq

<400> 56
 ctggctcagg gaaatagcc 19

<210> 57
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> rIgL-seq1

<400> 57
 tccctggagc tcctcagt 18

FP1729 Sequence Listing.TXT

<210> 58
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> rIgL-seq2

<400> 58
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18

<210> 59
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> C3E-7078 ORF

<400> 59
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 gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg 120
 agttgtgccg cctctggggg gacatttaac tactatggca tgtcttgat ccgccaggca 180
 cctggaaagg gcctggagtg ggtggccagc atcactaggt ccggcgggag aatctactat 240
 cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac 300
 ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc 360
 agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga 420
 ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gacccagccc 480
 cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga 540
 aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca 600
 atcatctacc gggacgataa gagacccgac ggggtgtccg atcgattctc cggatctatc 660
 gaccggtcaa gcaagagtgc ttactgacc attagcaatc tgaaaacaga ggacgaagca 720
 gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc 780
 gtgctgggag cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca 840
 gcggcgcatc accatcatca ccac 864

<210> 60
 <211> 269
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7078 AA

<400> 60

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

Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr

FP1729 Sequence Listing.TXT

20

25

30

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

Val Ala Ser Ile Thr Arg Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
65 70 75 80

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

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 61

<211> 864

<212> DNA

<213> Artificial Sequence

FP1729 Sequence Listing.TXT

<220>

<223> C3E-7079 ORF

<400> 61

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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctggggggag cctgagactg	120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca	180
cctggaaagg gcctggagtg ggtggccagc atcacttctt ccggcgggag aatctactat	240
cccgcagcgc tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac	300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc	360
agggatgggt gggctgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga	420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gacccagccc	480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga	540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca	600
atcatctacc gggacgataa gagacccgac ggggtgtccg atcgattctc cggatctatc	660
gaccggtcaa gcaagagtgc ttcactgacc attagcaatc tgaaaacaga ggacgaagca	720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc	780
gtgctgggag cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca	840
gcggcgcatc accatcatca ccac	864

<210> 62

<211> 269

<212> PRT

<213> Artificial Sequence

<220>

<223> C3E-7079 AA

<400> 62

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

FP1729 Sequence Listing.TXT

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 63
<211> 858
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7085 ORF

<400> 63
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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctggggggag cctgagactg 120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttgat cgcaggca 180
cctggaaagg gcctggagtg ggtggccagc atcactaggt ccggcgggag aatctactat 240
cccagacagc tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac 300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc 360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga 420

FP1729 Sequence Listing.TXT

ggaggatctg gcgaggagg cagtggggga ggcgggtcaa actttatgct cactcagccg	480
tcctctgttt ctggcgtacc tggccaacgg gtgaccatta gctgtacggg taataccggg	540
aatatcgggt ctaactacgt gaactggtat cagcagcttc cagggacagc tccaagtgtg	600
ctgatctatc gcgacgacaa aagaccctca ggggtccctg accgatttag tggcagcaaa	660
agcgggtactt ccgcttcctt ggcgataacc ggctttcagg ccgaagatga ggcagactac	720
tattgccagt catattccag cggcttcac ttcggaggcg gaactaagct gacagtgttg	780
ggcgcggccg caggtgcagg tgggtgattac aaagatgatg acgataaagg tgcagcggcg	840
catcaccatc atcaccac	858

<210> 64
 <211> 267
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7085 AA

<400> 64

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

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

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

Val Ala Ser Ile Thr Arg Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
 50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
 65 70 75 80

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

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro Ser Ser Val
 130 135 140

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

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly

FP1729 Sequence Listing.TXT

165

170

175

Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly
180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu
195 200 205

Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln
210 215 220

Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val
225 230 235 240

Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp
245 250 255

Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 65
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7086 ORF

<400> 65
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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg 120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca 180
cctggaaagg gcctggagtg ggtggccagc atcactaggt ccggcgggag aatctactat 240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac 300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc 360
agggatgggt gggtcgccta ttgggggagc ggaaccctgg tgacagtcag ctccggagga 420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gaccagccc 480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga 540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca 600
atcatctacc ggggcgataa gagacccgac ggggtgtccg atcgattctc cggatctatc 660
gaccggtcaa gcaagagtgc ttactgacc attagcaatc tgaaaacaga ggacgaagca 720
gattactttt gccagtccta ttctctggc ttcattcttg gaggcgggac taaactgacc 780
gtgctgggag cggccgcagg tgcaggtggg gattacaaag atgatgacga taaaggtgca 840
gcggcgcata accatcatca ccac 864

<210> 66

FP1729 Sequence Listing.TXT

<211> 269
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7086 AA

<400> 66

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

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

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

Val Ala Ser Ile Thr Arg Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
 50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
 65 70 75 80

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

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Gly Asp Lys Arg Pro Asp Gly
 180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

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FP1729 Sequence Listing.TXT

35

40

45

Val Ala Ser Ile Thr Arg Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
65 70 75 80

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

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Gln Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 69

<211> 864

<212> DNA

<213> Artificial Sequence

<220>

<223> C3E-7088 ORF

<400> 69

FP1729 Sequence Listing.TXT

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gaagtgcagc tgggtggaatc cgggggggggc ctggtgcagc ctgggggggag cctgagactg    120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca      180
cctggaaagg gcctggagtg ggtggccagc atcactaggt ccggcgggcg aatctactat      240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac      300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc      360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga      420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gacccagccc      480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga      540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca      600
atcatctacc ggaacgataa gagacccgac ggggtgtccg atcgattctc cggatctatc      660
gaccggtcaa gcaagagtgc ttcactgacc attagcaatc tgaaaacaga ggacgaagca      720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc      780
gtgctgggcg cggccgcagg tgcaggtggt gattacaaag atgatgacga taaagggtgca      840
gcggcgcata accatcatca ccac                                             864

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<210> 70
 <211> 269
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7088 AA

<400> 70

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

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FP1729 Sequence Listing.TXT

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asn Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 71
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7089 ORF

<400> 71
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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg 120
agttgtgccg cctctgggggt gacatttaac tactatggca tgtcttggat ccgccaggca 180
cctggaaagg gcctggagtg ggtggccagc atcactaggt ccggcgggcg aatctactat 240
cccgcacgcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac 300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc 360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga 420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gacccagccc 480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga 540

FP1729 Sequence Listing.TXT

aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca	600
atcatctacc ggagcgataa gagacccgac ggggtgtccg atcgattctc cggatctatc	660
gaccggtcaa gcaagagtgc ttcactgacc attagcaatc tgaaaacaga ggacgaagca	720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc	780
gtgctgggcg cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca	840
gcggcgcatc accatcatca ccac	864

<210> 72
 <211> 269
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7089 AA

<400> 72

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

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

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

Val Ala Ser Ile Thr Arg Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
 50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
 65 70 75 80

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

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Ser Asp Lys Arg Pro Asp Gly
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FP1729 Sequence Listing.TXT

180

185

190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 73
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7090 ORF

<400> 73
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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg 120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca 180
cctggaaagg gcctggagtg ggtggccagc atcactaggt ccggcgggag aatctactat 240
cccgcagcgc tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac 300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc 360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga 420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gacccagccc 480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga 540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca 600
atcatctacc gggccgataa gagacccgac ggggtgtccg atcgattctc cggatctatc 660
gaccggtcaa gcaagagtgc ttactgacc attagcaatc tgaaaacaga ggacgaagca 720
gattactttt gccagtccta ttctctggc ttcatctttg gaggcgggac taaactgacc 780
gtgctgggag cggccgcagg tgcagggtgt gattacaaag atgatgacga taaagggtgca 840
gcggcgcac accatcatca ccac 864

<210> 74
<211> 269
<212> PRT
<213> Artificial Sequence

FP1729 Sequence Listing.TXT

<220>

<223> C3E-7090 AA

<400> 74

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

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

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

Val Ala Ser Ile Thr Arg Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
65 70 75 80

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

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Ala Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

FP1729 Sequence Listing.TXT

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 75
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7091 ORF

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agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca 180
cctggaaagg gcctggagtg ggtggccagc atcacttctt ccggcgggag aatctactat 240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac 300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc 360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga 420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gaccagccc 480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga 540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca 600
atcatctacc ggggcgataa gagacccgac ggggtgtccg atcgattctc cggatctatc 660
gaccggtcaa gcaagagtg ttcactgacc attagcaatc tgaaaacaga ggacgaagca 720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc 780
gtgctgggag cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca 840
gcggcgcatc accatcatca ccac 864

<210> 76
<211> 269
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-7091 AA

<400> 76

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

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

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

Val Ala Ser Ile Thr Ser Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
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FP1729 Sequence Listing.TXT

50

55

60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
65 70 75 80

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

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Gly Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 77

<211> 864

<212> DNA

<213> Artificial sequence

<220>

<223> C3E-7092 ORF

<400> 77

atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcgga 60

gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg 120

FP1729 Sequence Listing.TXT

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agttgtgccg cctctgggggt gacatttaac tactatggca tgtcttggat ccgccaggca      180
cctggaaagg gcctggagtg ggtggccagc atcacttctt ccggcgggcg aatctactat      240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac      300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc      360
agggatgggt gggtcgccta ttgggggcag ggaaccctgg tgacagtcag ctccggagga      420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gaccagccc      480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga      540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca      600
atcatctacc ggcaggataa gagacccgac ggggtgtccg atcgattctc cggatctatc      660
gaccggtcaa gcaagagtgc ttcactgacc attagcaatc tgaaaacaga ggacgaagca      720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc      780
gtgctgggcg cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca      840
gcggcgcatc accatcatca ccac                                             864

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<210> 78
 <211> 269
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7092 AA

<400> 78

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

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

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

Val Ala Ser Ile Thr Ser Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
 50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
 65 70 75 80

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

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

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

FP1729 Sequence Listing.TXT

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Gln Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
195 200 205

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235 240

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255

Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 79
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7093 ORF

<400> 79	atgaaacacc tgtggttctt cctcctgctg gtggcagctc ccagatgggt gctgagcggg	60
	gaagtgcagc tgggtgaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg	120
	agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca	180
	cctggaaagg gcctggagtg ggtggccagc atcacttctt ccggcgggag aatctactat	240
	cccgcagcgc tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac	300
	ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc	360
	agggatgggt gggctgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga	420
	ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gacccagccc	480
	cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga	540
	aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca	600
	atcatctacc ggaacgataa gagacccgac ggggtgtccg atcgattctc cggatctatc	660

FP1729 Sequence Listing.TXT

gaccggtcaa gcaagagtgc ttcactgacc attagcaatc tgaaaacaga ggacgaagca 720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc 780
gtgctgggcg cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca 840
gcggcgcatc accatcatca ccac 864

<210> 80
<211> 269
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-7093 AA

<400> 80

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

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

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

Val Ala Ser Ile Thr Ser Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
65 70 75 80

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

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

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

Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
130 135 140

Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
145 150 155 160

Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
165 170 175

Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asn Asp Lys Arg Pro Asp Gly
180 185 190

Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala

195

Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
210 215 220
Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
225 230 235
Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
245 250 255
Asp Asp Lys Gly Ala Ala Ala His His His His His His
260 265

<210> 81
<211> 864
<212> DNA
<213> Artificial Sequence

<220>
<223> C3E-7094 ORF

<400> 81
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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctgggggggag cctgagactg 120
agttgtgccg cctctgggggt gacatttaac tactatggca tgtcttggat ccgccaggca 180
cctggaaagg gcctggagtg ggtggccagc atcatttctt ccggcgggag aatctactat 240
cccgcagcgc tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac 300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc 360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga 420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gaccagccc 480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga 540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca 600
atcatctacc ggagcgataa gagacccgac ggggtgtccg atcgattctc cggatctatc 660
gaccgggtcaa gcaagagtgc ttcactgacc attagcaatc tgaaaacaga ggacgaagca 720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc 780
gtgctgggag cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca 840
gcggcgcac accatcatca ccac 864

<210> 82
<211> 269
<212> PRT
<213> Artificial Sequence

<220>
<223> C3E-7094 AA

<400> 82

FP1729 Sequence Listing.TXT

Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
 1 5 10 15
 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr
 20 25 30
 Tyr Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 35 40 45
 Val Ala Ser Ile Thr Ser Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
 50 55 60
 Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
 65 70 75 80
 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 85 90 95
 Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
 100 105 110
 Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125
 Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
 130 135 140
 Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
 145 150 155 160
 Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
 165 170 175
 Ser Ser Pro Thr Thr Ile Ile Tyr Arg Ser Asp Lys Arg Pro Asp Gly
 180 185 190
 Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
 195 200 205
 Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
 210 215 220
 Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
 225 230 235 240
 Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
 245 250 255
 Asp Asp Lys Gly Ala Ala Ala His His His His His
 260 265

FP1729 Sequence Listing.TXT

<210> 83
 <211> 864
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> C3E-7095 ORF

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<400> 83
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gaagtgcagc tgggtggaatc cggggggggc ctggtgcagc ctggggggag cctgagactg      120
agttgtgccg cctctggggg gacatttaac tactatggca tgtcttggat ccgccaggca      180
cctggaaagg gcctggagtg ggtggccagc atcacttctt ccggcgggag aatctactat      240
cccgacagcg tcaagggcag gttcacaatt tcccgcgaga acacacagaa aactctgtac      300
ctgcagatga atagcctgag agccgaagat acagctgtgt actattgcac tctggacggc      360
agggatgggt gggtcgccta ttggggggcag ggaaccctgg tgacagtcag ctccggagga      420
ggaggatctg gcggaggagg cagtggggga ggcgggtcaa actttatgct gaccagcccc      480
cacagtgtgt cagagagccc tggcaagact gtcaccatct cttgtaaaag gaacaccgga      540
aatattggca gtaactacgt gaattggtat cagcagcatg aagggtctag tccaaccaca      600
atcatctacc gggccgataa gagacccgac ggggtgtccg atcgattctc cggatctatc      660
gaccggtcaa gcaagagtgc ttcactgacc attagcaatc tgaaaacaga ggacgaagca      720
gattactttt gccagtccta ttcctctggc ttcattcttg gaggcgggac taaactgacc      780
gtgctgggag cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca      840
gcggcgcac accatcatca ccac      864
    
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<210> 84
 <211> 269
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> C3E-7095 AA

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<400> 84
Gly Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
1      5      10      15
Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr
20     25     30
Tyr Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
35     40     45
Val Ala Ser Ile Thr Ser Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser
50     55     60
Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu
    
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FP1729 Sequence Listing.TXT

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65              70              75              80
Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
      85              90
Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly
      100             105             110
Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
      115             120             125
Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val
      130             135             140
Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr
      145             150             155             160
Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly
      165             170             175
Ser Ser Pro Thr Thr Ile Ile Tyr Arg Ala Asp Lys Arg Pro Asp Gly
      180             185             190
Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala
      195             200             205
Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe
      210             215             220
Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
      225             230             235             240
Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
      245             250             255
Asp Asp Lys Gly Ala Ala Ala His His His His His His
      260             265

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<210> 85
 <211> 33
 <212> DNA
 <213> Artificial sequence

<220>
 <223> HN53R FW

<400> 85
 gtggccagca tcactagggtc cggcgggcga atc

33

<210> 86
 <211> 33
 <212> DNA
 <213> Artificial sequence

FP1729 Sequence Listing.TXT

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<220>
<223>  HN53R  RV

<400>  86
gattcgcccg ccggacctag tgatgctggc cac 33

<210>  87
<211>  33
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  HN53S  FW

<400>  87
gtggccagca tcacttcttc cggcgggcca atc 33

<210>  88
<211>  33
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  HN53S  RV

<400>  88
gattcgcccg ccggaagaag tgatgctggc cac 33

<210>  89
<211>  1590
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  AXC-0001 ORF

<400>  89
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gaagtgcagc tgcaggaatc tggccctggc ctcgtgaagc ctagccagac cctgagcctg 120
acctgtaccg tgtccggcta cagcatcacc agcaactact ggggctggat cagaaagttc 180
cccggaaca agatggaatg gatcgggcac atcaccaaca gcggcaacac cacctacaac 240
cccagcctga agtcccggat cagcatcagc cgggacacca gcaagaacca gttctccctg 300
aagctgtcca gcgtagcccc tgccgatacc gccgtgtact actgtgcaa gggcgccctc 360
gattactggg gccaggggaa cctcgtgacc gtgtctagcg gaggcggagg atctggcggc 420
ggaggaagtg gcggaggggg atctgatatc cagatgacct agagccccag cagcctgtct 480
gccagcgtgg gcgacagagt gaccatcacc tgtagagcca gccaggacat cggcaactac 540
ctgagctggt tccagcagaa agtgggcaag tccccagac ggatgatcta cggcgccatc 600
aagctggccg tgggcgtgcc aagcagattc agcggcagca gaagcggcag cgactacacc 660
ctgaccatca gctccctgca gcccgaggac ttcgccatct actactgcct gcagtacatc 720
cagttccctc tgaccttcgg cagcggcacc aagctggaaa tcaagagaac cgggggaggg 780
ggttcagaag tgcagctggt ggaatccggg gggggcctgg tgcagcctgg ggggagcctg 840

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FP1729 Sequence Listing.TXT

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agactgagtt gtgccgcctc tggggtgaca tttaactact atggcatgtc ttggatccgc      900
caggcacctg gaaagggcct ggagtgggtg gccagcatca ctaattccgg cgggcgaatc      960
tactatcccg acagcgtcaa gggcaggttc acaatttccc gcgagaacac acagaaaact     1020
ctgtacctgc agatgaatag cctgagagcc gaagatacag ctgtgtacta ttgcactctg     1080
gacggcaggg atgggtgggt cgcctattgg gggcagggaa ccctggtgac agtcagctcc     1140
ggaggaggag gatctggcgg aggaggcagt gggggaggcg ggtcaaactt tatgctgacc     1200
cagccccaca gtgtgtcaga gagccctggc aagactgtca ccatctcttg taaaaggaac     1260
accggaaata ttggcagtaa ctacgtgaat tggatcagc agcatgaagg gtctagtcca     1320
accacaatca tctaccggga cgataagaga cccgacgggg tgtccgatcg attctccgga     1380
tctatcgacc ggtcaagcaa gagtgcctca ctgaccatta gcaatctgaa aacagaggac     1440
gaagcagatt acttttgcca gtcctattcc tctggcttca tctttggagg cgggactaaa     1500
ctgaccgtgc tgggcgcggc cgcaggtgca ggtggtgatt acaaagatga tgacgataaa     1560
ggtgcagcgg cgcacacca tcaccaccac                                     1590

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<210> 90
 <211> 511
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> AXC-0001 AA

<400> 90

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

Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Ile Thr Ser
 20 25 30

Asn Tyr Trp Gly Trp Ile Arg Lys Phe Pro Gly Asn Lys Met Glu Trp
 35 40 45

Ile Gly His Ile Thr Asn Ser Gly Asn Thr Thr Tyr Asn Pro Ser Leu
 50 55 60

Lys Ser Arg Ile Ser Ile Ser Arg Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80

Leu Lys Leu Ser Ser Val Thr Pro Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Gly Ala Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 100 105 110

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

FP1729 Sequence Listing.TXT

Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
130 135 140

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Gly Asn
145 150 155 160

Tyr Leu Ser Trp Phe Gln Gln Lys Val Gly Lys Ser Pro Arg Arg Met
165 170 175

Ile Tyr Gly Ala Ile Lys Leu Ala Val Gly Val Pro Ser Arg Phe Ser
180 185 190

Gly Ser Arg Ser Gly Ser Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln
195 200 205

Pro Glu Asp Phe Ala Ile Tyr Tyr Cys Leu Gln Tyr Ile Gln Phe Pro
210 215 220

Leu Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly
225 230 235 240

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe
260 265 270

Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu
275 280 285

Glu Trp Val Ala Ser Ile Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro
290 295 300

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys
305 310 315 320

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
325 330 335

Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly
340 345 350

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
355 360 365

Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro His
370 375 380

Ser Val Ser Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Lys Arg
385 390 395 400

FP1729 Sequence Listing.TXT

Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln His
405 410 415

Glu Gly Ser Ser Pro Thr Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro
420 425 430

Asp Gly Val Ser Asp Arg Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys
435 440 445

Ser Ala Ser Leu Thr Ile Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp
450 455 460

Tyr Phe Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr
465 470 475 480

Lys Leu Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys
485 490 495

Asp Asp Asp Asp Lys Gly Ala Ala Ala His His His His His His
500 505 510

<210> 91
<211> 1584
<212> DNA
<213> Artificial Sequence

<220>
<223> AXC-0002 ORF

<400> 91
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gaagtgcagc tgcaggaatc tggccctggc ctcgtgaagc ctagccagac cctgagcctg 120
acctgtaccg tgtccggcta cagcatcacc agcaactact ggggctggat cagaaagtcc 180
cccggaaca agatggaatg gatcgccac atcaccaaca gcggcaacac cacctacaac 240
cccagcctga agtcccggat cagcatcagc cgggacacca gcaagaacca gttctccctg 300
aagctgtcca gcgtgacccc tgccgatacc gccgtgtact actgtgccaa gggcgccctc 360
gattactggg gccaggggaa cctcgtgacc gtgtctagcg gaggcggagg atctggcggc 420
ggaggaagtg gcggaggggg atctgatatc cagatgaccc agagccccag cagcctgtct 480
gccagcgtgg gcgacagagt gaccatcacc tgtagagcca gccaggacat cggcaactac 540
ctgagctggt tccagcagaa agtgggcaag tccccagac ggatgatcta cggcgccatc 600
aagctggccg tgggcgtgcc aagcagattc agcggcagca gaagcggcag cgactacacc 660
ctgaccatca gctccctgca gcccaggagc ttcgccatct actactgcct gcagtacatc 720
cagttccctc tgaccttcgg cagcggcacc aagctggaaa tcaagagaac cgggggaggg 780
ggttcagaag tgcagctggt ggaatccggg gggggcctgg tgcagcctgg ggggagcctg 840
agactgagtt gtgccgcctc tggggtgaca tttaactact atggcatgtc ttggatccgc 900

FP1729 Sequence Listing.TXT

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caggcacctg gaaagggcct ggagtgggtg gccagcatca ctaattccgg cgggcgaatc      960
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ctgtacctgc agatgaatag cctgagagcc gaagatacag ctgtgtacta ttgcactctg      1080
gacggcaggg atgggtgggt cgcctattgg gggcagggaa ccctggtgac agtcagctcc      1140
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cagccgtcct ctgtttctgg cgtacctggc caacgggtga ccattagctg tacgggtaat      1260
accgggaata tcgggtctaa ctacgtgaac tggatcagc agcttccagg gacagctccc      1320
aagttgctga tctatcgca cgacaaaaga ccctcagggg tccctgaccg atttagtggc      1380
agcaaaagcg gtacttccgc ttccctggcg ataaccggct ttcaggccga agatgaggca      1440
gactactatt gccagtcata ttccagcggc ttcattctcg gaggcggaac taagctgaca      1500
gtgttgggcg cggccgcagg tgcaggtggt gattacaaag atgatgacga taaaggtgca      1560
gcggcgcatc accatcatca ccac                                          1584

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<210> 92
 <211> 509
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> AXC-0002 AA

<400> 92

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

Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Ile Thr Ser
 20 25 30

Asn Tyr Trp Gly Trp Ile Arg Lys Phe Pro Gly Asn Lys Met Glu Trp
 35 40 45

Ile Gly His Ile Thr Asn Ser Gly Asn Thr Thr Tyr Asn Pro Ser Leu
 50 55 60

Lys Ser Arg Ile Ser Ile Ser Arg Asp Thr Ser Lys Asn Gln Phe Ser
 65 70 75 80

Leu Lys Leu Ser Ser Val Thr Pro Ala Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Lys Gly Ala Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 100 105 110

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125

Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val

130

135

140

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Gly Asn
145 150 155 160

Tyr Leu Ser Trp Phe Gln Gln Lys Val Gly Lys Ser Pro Arg Arg Met
165 170 175

Ile Tyr Gly Ala Ile Lys Leu Ala Val Gly Val Pro Ser Arg Phe Ser
180 185 190

Gly Ser Arg Ser Gly Ser Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln
195 200 205

Pro Glu Asp Phe Ala Ile Tyr Tyr Cys Leu Gln Tyr Ile Gln Phe Pro
210 215 220

Leu Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg Thr Gly Gly
225 230 235 240

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

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe
260 265 270

Asn Tyr Tyr Gly Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu
275 280 285

Glu Trp Val Ala Ser Ile Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro
290 295 300

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys
305 310 315 320

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
325 330 335

Tyr Tyr Cys Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly
340 345 350

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
355 360 365

Gly Gly Ser Gly Gly Gly Gly Ser Asn Phe Met Leu Thr Gln Pro Ser
370 375 380

Ser Val Ser Gly Val Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly
385 390 395 400

Asn Thr Gly Asn Ile Gly Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu
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FP1729 Sequence Listing.TXT

405

410

415

Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro
420 425 430

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala
435 440 445

Ser Leu Ala Ile Thr Gly Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr
450 455 460

Cys Gln Ser Tyr Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu
465 470 475 480

Thr Val Leu Gly Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp
485 490 495

Asp Asp Lys Gly Ala Ala Ala His His His His His His
500 505

<210> 93

<211> 1620

<212> DNA

<213> Artificial Sequence

<220>

<223> MGC-0001 ORF

<400> 93

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tcctgtgcag cctctggatt caccttcagt gactacgaca tggactgggt ccgccaggct	180
ccaggggaagg ggctggagtg ggtggcagtt atatcatctg atgaaaacac taaatactac	240
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat	300
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tctccactct ccttggccgt cacccttggg gagccggcct ccatctcctg cagggtctagt	540
cagagcctcc tgcataagtaa cggaaagaac tatttggatt ggtacctgca gaagccaggg	600
cagtctccac agctcctgat ctatttgggt tctaatacggg cctccgggggt ccctgacagg	660
ttcagtggca gtggatcagg cacagatttt aactgaaga tcagcagagt ggaggctgag	720
gatgttgggg tttattactg catgcaaaact cttcaaacc cctacacttt tggccagggg	780
accaaggttg aaatcaaacg tgggggaggc ggttcagaag tgcagctggt ggaatccggg	840
gggggccttg tgcagccttg ggggagcctg agactgagtt gtgccgcctc tggggtgaca	900
tttaactact atggcatgtc ttggatccgc caggcacctg gaaagggcct ggagtgggtg	960

FP1729 Sequence Listing.TXT

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acaatttccc gcgagaacac acagaaaact ctgtacctgc agatgaatag cctgagagcc 1080
gaagatacag ctgtgtacta ttgcactctg gacggcaggg atgggtgggt cgcctattgg 1140
gggcagggaa ccctggtgac agtcagctcc ggaggaggag gatctggcgg aggaggcagt 1200
gggggaggcg ggtcaaactt tatgctgacc cagccccaca gtgtgtcaga gagccctggc 1260
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tggtatcagc agcatgaagg gtctagtcca accacaatca tctaccggga cgataagaga 1380
cccgcagggg tgtccgatcg attctccgga tctatcgacc ggtcaagcaa gagtgcctca 1440
ctgaccatta gcaatctgaa aacagaggac gaagcagatt acttttgcca gtcctattcc 1500
tctggcttca tctttggagg cgggactaaa ctgaccgtgc tgggcgcggc cgcaggtgca 1560
ggtggtgatt acaaagatga tgacgataaa ggtgcagcgg cgcataacca tcatcaccac 1620

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<210> 94
 <211> 521
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MGC-0001 AA

<400> 94

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

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

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

Val Ala Val Ile Ser Ser Asp Glu Asn Thr Lys Tyr Tyr Ala Asp Ser
 50 55 60

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

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

Cys Ala Thr Tyr Thr Ser Thr Trp Tyr Ala Val Asp Ser Trp Gly Gln
 100 105 110

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

Gly Ser Gly Gly Gly Gly Ser Asp Val Val Met Thr Gln Ser Pro Leu
 130 135 140

FP1729 Sequence Listing.TXT

Ser Leu Pro Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser
145 150 155 160

Ser Gln Ser Leu Leu His Ser Asn Gly Lys Asn Tyr Leu Asp Trp Tyr
165 170 175

Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser
180 185 190

Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly
195 200 205

Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly
210 215 220

Val Tyr Tyr Cys Met Gln Thr Leu Gln Thr Pro Tyr Thr Phe Gly Gln
225 230 235 240

Gly Thr Lys Val Glu Ile Lys Arg Gly Gly Gly Gly Ser Glu Val Gln
245 250 255

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
260 265 270

Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser
275 280 285

Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile
290 295 300

Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg
305 310 315 320

Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met
325 330 335

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp
340 345 350

Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
355 360 365

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
370 375 380

Gly Ser Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro
385 390 395 400

Gly Lys Thr Val Thr Ile Ser Cys Lys Arg Asn Thr Gly Asn Ile Gly
405 410 415

FP1729 Sequence Listing.TXT

Ser Asn Tyr Val Asn Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr
420 425 430

Thr Ile Ile Tyr Arg Asp Asp Lys Arg Pro Asp Gly Val Ser Asp Arg
435 440 445

Phe Ser Gly Ser Ile Asp Arg Ser Ser Lys Ser Ala Ser Leu Thr Ile
450 455 460

Ser Asn Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr
465 470 475 480

Ser Ser Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
485 490 495

Ala Ala Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys Gly
500 505 510

Ala Ala Ala His His His His His His
515 520

<210> 95
<211> 1614
<212> DNA
<213> Artificial Sequence

<220>
<223> MGC-0002 ORF

<400> 95
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tcctgtgcag cctctggatt caccttcagt gactacgaca tggactgggt ccgccaggct 180
ccaggggaagg ggctggagtg ggtggcagtt atatcatctg atgaaaacac taaatactac 240
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 300
ctgcaaatga acagcctgag agccgaggac acggctgtgt attactgtgc aacctatacc 360
agcacctggg atgccgttga ctcttggggc caggggaaccc tggtcaccgt ctctcaggt 420
ggaggcgggt caggcggagg tggcagcggc ggtggcggga gtgatgttgt gatgactcag 480
tctccactct ccctgcccgt cacccttggg gagccggcct ccatctcctg caggtctagt 540
cagagcctcc tgcataagtaa cggaagaac tatttggatt ggtacctgca gaagccaggg 600
cagtctccac agctcctgat ctatttgggt tctaatacggg cctccgggggt ccctgacagg 660
ttcagtggca gtggatcagg cacagatttt acactgaaga tcagcagagt ggaggctgag 720
gatgttgggg tttattactg catgcaaact cttcaaacc cctacacttt tggccagggg 780
accaaggtgg aaatcaaacg tgggggaggc ggttcagaag tgcagctggg ggaatccggg 840
gggggcctgg tgcagcctgg ggggagcctg agactgagtt gtgccgcctc tggggtgaca 900

FP1729 Sequence Listing.TXT

tttaactact atggcatgtc ttggatccgc caggcacctg gaaagggcct ggagtgggtg	960
gccagcatca ctaattccgg cgggcgaatc tactatcccg acagcgtcaa gggcagggtc	1020
acaatttccc gcgagaacac acagaaaact ctgtacctgc agatgaatag cctgagagcc	1080
gaagatacag ctgtgtacta ttgcaactctg gacggcaggg atgggtgggt cgcctattgg	1140
gggcagggaa ccctggtgac agtcagctcc ggaggaggag gatctggcgg aggaggcagt	1200
gggggaggcg ggtcaaactt tatgctcact cagccgtcct ctgtttctgg cgtacctggc	1260
caacgggtga ccattagctg tacgggtaat accgggaata tcgggtctaa ctacgtgaac	1320
tggtatcagc agcttccagg gacagctccc aagttgctga tctatcgca cgacaaaaga	1380
ccctcagggg tccctgaccg atttagtggc agcaaaagcg gtacttccgc ttccctggcg	1440
ataaccggct ttcaggccga agatgaggca gactactatt gccagtcata ttccagcggc	1500
ttcatcttcg gaggcggaac taagctgaca gtgttgggcg cggccgcagg tgcaggtggt	1560
gattacaaag atgatgacga taaaggtgca gcggcgcatc accatcatca ccac	1614

<210> 96
 <211> 519
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> MGC-0002 AA

<400> 96

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

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

Val	Ala	Val	Ile	Ser	Ser	Asp	Glu	Asn	Thr	Lys	Tyr	Tyr	Ala	Asp	Ser
	50					55					60				

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

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

Cys	Ala	Thr	Tyr	Thr	Ser	Thr	Trp	Tyr	Ala	Val	Asp	Ser	Trp	Gly	Gln
			100					105					110		

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

Gly	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Val	Val	Met	Thr	Gln	Ser	Pro	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

FP1729 Sequence Listing.TXT

130

135

140

Ser Leu Pro Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser
145 150 155 160

Ser Gln Ser Leu Leu His Ser Asn Gly Lys Asn Tyr Leu Asp Trp Tyr
165 170 175

Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser
180 185 190

Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly
195 200 205

Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly
210 215 220

Val Tyr Tyr Cys Met Gln Thr Leu Gln Thr Pro Tyr Thr Phe Gly Gln
225 230 235 240

Gly Thr Lys Val Glu Ile Lys Arg Gly Gly Gly Gly Ser Glu Val Gln
245 250 255

Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg
260 265 270

Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Asn Tyr Tyr Gly Met Ser
275 280 285

Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Ser Ile
290 295 300

Thr Asn Ser Gly Gly Arg Ile Tyr Tyr Pro Asp Ser Val Lys Gly Arg
305 310 315 320

Phe Thr Ile Ser Arg Glu Asn Thr Gln Lys Thr Leu Tyr Leu Gln Met
325 330 335

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Thr Leu Asp
340 345 350

Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr
355 360 365

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
370 375 380

Gly Ser Asn Phe Met Leu Thr Gln Pro Ser Ser Val Ser Gly Val Pro
385 390 395 400

Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Asn Thr Gly Asn Ile Gly

FP1729 Sequence Listing.TXT

405

410

415

Ser Asn Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys
420 425 430

Leu Leu Ile Tyr Arg Asp Asp Lys Arg Pro Ser Gly Val Pro Asp Arg
435 440 445

Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly
450 455 460

Phe Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Ser Ser
465 470 475 480

Gly Phe Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala
485 490 495

Ala Gly Ala Gly Gly Asp Tyr Lys Asp Asp Asp Lys Gly Ala Ala
500 505 510

Ala His His His His His His
515

<210> 97
<211> 10
<212> PRT
<213> Homo sapiens

<400> 97

Ile Leu Phe Gly Ile Ser Leu Arg Glu Val
1 5 10

<210> 98
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> CDRH2 of variants

<220>
<221> Xaa
<222> (3)..(3)
<223> the first Xaa is any naturally occurring amino acid

<220>
<221> Xaa
<222> (4)..(4)
<223> the second Xaa is any naturally occurring amino acid

<400> 98

Ile Thr Xaa Xaa Gly Gly Arg Ile
1 5

<210> 99

FP1729 Sequence Listing.TXT

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

<220>
<223> CDRL2 of variants

<220>
<221> X
<222> (2)..(2)
<223> Xaa is any naturally occurring amino acid

<400> 99

Arg Xaa Asp
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<210> 100
<211> 118
<212> PRT
<213> Artificial Sequence

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<223> VH of C3E-7034 variants

<220>
<221> MISC_FEATURE
<222> (53)..(53)
<223> The first Xaa is any naturally occurring amino acid

<220>
<221> MISC_FEATURE
<222> (54)..(54)
<223> The second Xaa is any naturally occurring amino acid

<400> 100

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

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

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

Ala Ser Ile Thr Xaa Xaa Gly Gly Arg Ile Tyr Tyr Pro Asp Ser Val
50 55 60

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

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

Thr Leu Asp Gly Arg Asp Gly Trp Val Ala Tyr Trp Gly Gln Gly Thr
100 105 110

FP1729 Sequence Listing.TXT

Leu Val Thr Val Ser Ser
115

<210> 101
<211> 109
<212> PRT
<213> Artificial Sequence

<220>
<223> VL of C3E-7034 variants

<220>
<221> MISC_FEATURE
<222> (52)..(52)
<223> Xaa is any naturally occurring amino acid

<400> 101

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys
1 5 10 15

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

Tyr Val Asn Trp Tyr Gln Gln His Glu Gly Ser Ser Pro Thr Thr Ile
35 40 45

Ile Tyr Arg Xaa Asp Lys Arg Pro Asp Gly Val Ser Asp Arg Phe Ser
50 55 60

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

Leu Lys Thr Glu Asp Glu Ala Asp Tyr Phe Cys Gln Ser Tyr Ser Ser
85 90 95

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

<210> 102
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL of C3E-7035 variants

<220>
<221> MISC_FEATURE
<222> (52)..(52)
<223> Xaa is any naturally occurring amino acid

<400> 102

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

FP1729 Sequence Listing.TXT

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

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

Ile Tyr Arg Xaa Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

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

<210> 103
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> VL of C3E-7036 variants

<220>
<221> MISC_FEATURE
<222> (52)..(52)
<223> Xaa is any naturally occurring amino acid

<400> 103

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

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

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

Ile Tyr Arg Xaa Asp Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

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

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

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