

SEQUENCE LISTING

<110> CeMM – FORSCHUNGSZENTRUM FÜR MOLEKULARE MEDIZIN GmbH

<120> Mutant calreticulin for the diagnosis of myeloid malignancies

<130> W2495 PCT S3

<150> US 61/909,313

<151> 2013-11-26

<150> EP 13 18 6939.8

<151> 2013-10-01

<150> EP 13 18 4632.1

<151> 2013-09-16

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<400> 4

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eolf-seq1

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eolf-seq1

<400> 20

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Glu Ala
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<210> 21

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<213> Homo sapiens

<400> 21

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<210> 23

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<212> RNA

<213> Homo sapiens

<400> 23

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<213> Homo sapiens

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35 40 45
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<211> 135

<212> DNA

<213> Homo sapiens

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eo1f-seq1

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35 40 45
Ala

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eo1f-seq1

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 35 40 45

<210> 41
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<400> 44
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eo1f-seq1

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<212> DNA
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eolf-seq1

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 Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
 35 40 45

eo1f-seq1

Glu Ala
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<213> Homo sapiens

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35 40 45
Glu Ala
50

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eo1f-seq1

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 Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
 35 40 45
 Glu Ala
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<210> 69
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 69
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 gcctgcctcc agggctggac tgaggcctga 150

<210> 70
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 70
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 gcctgcctcc agggctggac tgaggcctga 150

eo1f-seq1

<210> 71
 <211> 150
 <212> RNA
 <213> Homo sapiens

<400> 71
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 gccugccucc agggcuggac ugaggccuga 150

<210> 72
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 72
 Arg Arg Gln Trp Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg
 1 5 10 15
 Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala
 20 25 30
 Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu
 35 40 45
 Ala

<210> 73
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 73
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 aggaggaaga tgaggaggaa gatgtccccg gccaggccaa ggacgagctg tagagaggcc 120
 tgcctccagg gctggactga ggcctga 147

<210> 74
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 74
 aggcagagga caaggaggat gatgaggaca aagatgagga tgaggaggat gaggaggaca 60
 aggaggaaga tgaggaggaa gatgtccccg gccaggccaa ggacgagctg tagagaggcc 120
 tgcctccagg gctggactga ggcctga 147

<210> 75
 <211> 147
 <212> RNA
 <213> Homo sapiens

<400> 75
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 ugccuccagg gcuggacuga ggccuga 147

eo1f-seq1

<210> 76
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 76
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 1 5 10 15
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 20 25 30
 Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
 35 40 45

<210> 77
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 77
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 aggacaagga ggaagatgag gaggaagatg tccccggcca ggccaaggac gagctgtaga 120
 gaggcctgcc tccagggctg gactgaggcc tga 153

<210> 78
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 78
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 aggacaagga ggaagatgag gaggaagatg tccccggcca ggccaaggac gagctgtaga 120
 gaggcctgcc tccagggctg gactgaggcc tga 153

<210> 79
 <211> 153
 <212> RNA
 <213> Homo sapiens

<400> 79
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 gaggccugcc uccagggcug gacugaggcc uga 153

<210> 80
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 80
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 1 5 10 15
 Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro
 20 25 30
 Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
 35 40 45
 Glu Ala
 50

eo1f-seq1

<210> 81
 <211> 150
 <212> DNA
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<400> 81
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 gcctgcctcc agggctggac tgaggcctga 150

<210> 82
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 82
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 acaaggagga agatgaggag gaagatgtcc ccggccaggc caaggacgag ctgtagagag 120
 gcctgcctcc agggctggac tgaggcctga 150

<210> 83
 <211> 150
 <212> RNA
 <213> Homo sapiens

<400> 83
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 gccugccucc agggcuggac ugaggccuga 150

<210> 84
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 84
 Ala Phe Lys Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg
 1 5 10 15
 Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala
 20 25 30
 Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu
 35 40 45
 Ala

<210> 85
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 85
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 aggaggatga ggaggacaag gaggaagatg aggaggaaga tgtccccggc caggccaagg 120
 acgagctgta gagaggcctg cctccagggc tggactgagg cctga 165

eo1f-seq1

<210> 86
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 86
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 acgagctgta gagaggcctg cctccagggc tggactgagg cctga 165

<210> 87
 <211> 165
 <212> RNA
 <213> Homo sapiens

<400> 87
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 aggaggauga ggaggacaag gaggaagau aggaggauga ugucggcggc caggccaagg 120
 acgagcugua gagaggccug ccuccagggc uggacugagg ccuga 165

<210> 88
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 88
 Asn Ala Lys Arg Arg Arg Arg Gln Arg Thr Arg Arg Met Met Arg Thr
 1 5 10 15
 Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg
 20 25 30
 Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu
 35 40 45
 Gln Gly Trp Thr Glu Ala
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<210> 89
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 89
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 aggatgagga ggacaaggag gaagatgagg aggaagatgt ccccggccag gccaaaggacg 120
 agctgtagag aggcctgcct ccagggctgg actgaggcct ga 162

<210> 90
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 90
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 aggatgagga ggacaaggag gaagatgagg aggaagatgt ccccggccag gccaaaggacg 120
 agctgtagag aggcctgcct ccagggctgg actgaggcct ga 162

<210> 91

eof-seq1

<211> 162
<212> RNA
<213> Homo sapiens

<400> 91
ugcgugagga ggaggaggca gaggacaagg aggaugauga ggacaaagau gaggaugagg 60
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agcuguagag aggccugccu ccagggcugg acugaggccu ga 162

<210> 92
<211> 53
<212> PRT
<213> Homo sapiens

<400> 92
Cys Val Arg Arg Arg Arg Gln Arg Thr Arg Arg Met Met Arg Thr Lys
1 5 10 15
Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys
20 25 30
Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln
35 40 45
Gly Trp Thr Glu Ala
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<210> 93
<211> 150
<212> DNA
<213> Homo sapiens

<400> 93
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acaaggagga agatgaggag gaagatgtcc ccggccaggc caaggacgag ctgtagagag 120
gcctgcctcc agggctggac tgaggcctga 150

<210> 94
<211> 150
<212> DNA
<213> Homo sapiens

<400> 94
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acaaggagga agatgaggag gaagatgtcc ccggccaggc caaggacgag ctgtagagag 120
gcctgcctcc agggctggac tgaggcctga 150

<210> 95
<211> 150
<212> RNA
<213> Homo sapiens

<400> 95
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gccugccucc agggcuggac ugaggccuga 150

<210> 96
<211> 49

eo1f-seq1

<212> PRT
<213> Homo sapiens

<400> 96
Arg Arg Gln Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg
1 5 10 15
Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala
20 25 30
Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu
35 40 45
Ala

<210> 97
<211> 147
<212> DNA
<213> Homo sapiens

<400> 97
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aggaggaaga tgaggaggaa gatgtcccg gccaggccaa ggacgagctg tagagaggcc 120
tgcctccagg gctggactga ggcctga 147

<210> 98
<211> 147
<212> DNA
<213> Homo sapiens

<400> 98
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aggaggaaga tgaggaggaa gatgtcccg gccaggccaa ggacgagctg tagagaggcc 120
tgcctccagg gctggactga ggcctga 147

<210> 99
<211> 147
<212> RNA
<213> Homo sapiens

<400> 99
aggcagagga caaggaggau gaugaggaca aagaugagga ugaggaggau gaggaggaca 60
aggaggaaga ugaggaggaa gaugucccg gccaggccaa ggacgagcug uagagaggcc 120
ugccuccagg gcuggacuga ggccuga 147

<210> 100
<211> 48
<212> PRT
<213> Homo sapiens

<400> 100
Arg Gln Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg
1 5 10 15
Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg
20 25 30
Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
35 40 45

<210> 101

eo1f-seq1

<211> 165
<212> DNA
<213> Homo sapiens

<400> 101
aacgcaaaga ggaggaggag gcagaggaca aggaggatga tgaggacaaa gatgaggatg 60
aggaggatga ggaggacaag gaggaagatg aggaggaaga tgtccccggc caggccaagg 120
acgagctgta gagaggcctg cctccagggc tggactgagg cctga 165

<210> 102
<211> 165
<212> DNA
<213> Homo sapiens

<400> 102
aacgcaaaga ggaggaggag gcagaggaca aggaggatga tgaggacaaa gatgaggatg 60
aggaggatga ggaggacaag gaggaagatg aggaggaaga tgtccccggc caggccaagg 120
acgagctgta gagaggcctg cctccagggc tggactgagg cctga 165

<210> 103
<211> 165
<212> RNA
<213> Homo sapiens

<400> 103
aacgcaaaga ggaggaggag gcagaggaca aggaggauga ugaggacaaa gaugaggaug 60
aggaggauga ggaggacaag gaggaagaug aggaggaaga ugucggcggc caggccaagg 120
acgagcugua gagaggccug ccuccagggc uggacugagg ccuga 165

<210> 104
<211> 54
<212> PRT
<213> Homo sapiens

<400> 104
Asn Ala Lys Arg Arg Arg Arg Gln Arg Thr Arg Arg Met Met Arg Thr
1 5 10 15
Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg
20 25 30
Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu
35 40 45
Gln Gly Trp Thr Glu Ala
50

<210> 105
<211> 168
<212> DNA
<213> Homo sapiens

<400> 105
tgtttcgcaa agaggaggag gaggcagagg acaaggagga tgatgaggac aaagatgagg 60
atgaggagga tgaggaggac aaggaggaag atgaggagga agatgtcccc ggccaggcca 120
aggacgagct gtagagaggc ctgcctccag ggctggactg aggcctga 168

<210> 106
<211> 168

eo1f-seq1

<212> DNA
<213> Homo sapiens

<400> 106
tgtttcgcaa agaggaggag gaggcagagg acaaggagga tgatgaggac aaagatgagg 60
atgaggagga tgaggaggac aaggaggaag atgaggagga agatgtcccc ggccaggcca 120
aggacgagct gtagagaggc ctgcctccag ggctggactg aggcctga 168

<210> 107
<211> 168
<212> RNA
<213> Homo sapiens

<400> 107
uguuucgcaa agaggaggag gaggcagagg acaaggagga ugaugaggac aaagaugagg 60
augaggagga ugaggaggac aaggaggaag augaggagga agaugucccc ggccaggcca 120
aggacgagcu guagagaggc cugccuccag ggcuggacug aggccuga 168

<210> 108
<211> 55
<212> PRT
<213> Homo sapiens

<400> 108
Cys Phe Ala Lys Arg Arg Arg Arg Gln Arg Thr Arg Arg Met Met Arg
1 5 10 15
Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg
20 25 30
Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys
35 40 45
Leu Gln Gly Trp Thr Glu Ala
50 55

<210> 109
<211> 135
<212> DNA
<213> Homo sapiens

<400> 109
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aggaggaaga tgtccccggc caggccaagg acgagctgta gagaggcctg cctccagggc 120
tggtactgagg cctga 135

<210> 110
<211> 135
<212> DNA
<213> Homo sapiens

<400> 110
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aggaggaaga tgtccccggc caggccaagg acgagctgta gagaggcctg cctccagggc 120
tggtactgagg cctga 135

<210> 111
<211> 135
<212> RNA

eo1f-seq1

<213> Homo sapiens

<400> 111

aggaggauga ugaggacaaa gaugaggaug aggaggauga ggaggacaag gaggaagaug 60

aggaggaaga ugucgccggc caggccaagg acgagcugua gagaggccug ccuccagggc 120

uggacugagg ccuga 135

<210> 112

<211> 44

<212> PRT

<213> Homo sapiens

<400> 112

Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr
1 5 10 15

Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser
20 25 30

Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
35 40

<210> 113

<211> 150

<212> DNA

<213> Homo sapiens

<400> 113

cctcctcttt gtctaaggag gatgatgagg acaaagatga ggatgaggag gatgaggagg 60

acaaggagga agatgaggag gaagatgtcc ccggccaggc caaggacgag ctgtagagag 120

gcctgcctcc agggctggac tgaggcctga 150

<210> 114

<211> 150

<212> DNA

<213> Homo sapiens

<400> 114

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acaaggagga agatgaggag gaagatgtcc ccggccaggc caaggacgag ctgtagagag 120

gcctgcctcc agggctggac tgaggcctga 150

<210> 115

<211> 150

<212> RNA

<213> Homo sapiens

<400> 115

ccuccucuuu gucuaaggag gaugaugagg acaaagauga ggaugaggag gaugaggagg 60

acaaggagga agauggaggag gaagaugucc ccggccaggc caaggacgag cuguagagag 120

gccugccucc agggcuggac ugaggccuga 150

<210> 116

<211> 49

<212> PRT

<213> Homo sapiens

<400> 116

eolf-seq1

Pro	Pro	Leu	Cys	Leu	Arg	Arg	Met	Met	Arg	Thr	Lys	Met	Arg	Met	Arg
1				5					10				15		
Arg	Met	Arg	Arg	Thr	Arg	Arg	Lys	Met	Arg	Arg	Lys	Met	Ser	Pro	Ala
			20					25					30		
Arg	Pro	Arg	Thr	Ser	Cys	Arg	Glu	Ala	Cys	Leu	Gln	Gly	Trp	Thr	Glu
		35					40					45			

Ala

<210> 117
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 117
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 aggaggaaga tgaggaggaa gatgtccccg gccaggccaa ggacgagctg tagagaggcc 120
 tgcctccagg gctggactga ggcctga 147

<210> 118
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 118
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 aggaggaaga tgaggaggaa gatgtccccg gccaggccaa ggacgagctg tagagaggcc 120
 tgcctccagg gctggactga ggcctga 147

<210> 119
 <211> 147
 <212> RNA
 <213> Homo sapiens

<400> 119
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 aggaggaaga ugaggaggaa gauguccccg gccaggccaa ggacgagcug uagagaggcc 120
 ugccuccagg gcuggacuga ggccuga 147

<210> 120
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 120

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Met	Arg	Arg	Thr	Arg	Arg	Lys	Met	Arg	Arg	Lys	Met	Ser	Pro	Ala	Arg
			20					25				30			
Pro	Arg	Thr	Ser	Cys	Arg	Glu	Ala	Cys	Leu	Gln	Gly	Trp	Thr	Glu	Ala
		35					40					45			

<210> 121
 <211> 144
 <212> DNA
 <213> Homo sapiens

eo1f-seq1

<400> 121
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 aggaagatga ggaggaagat gtccccggcc aggccaagga cgagctgtag agaggcctgc 120
 ctccagggct ggactgaggc ctga 144

<210> 122
 <211> 144
 <212> DNA
 <213> Homo sapiens

<400> 122
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 aggaagatga ggaggaagat gtccccggcc aggccaagga cgagctgtag agaggcctgc 120
 ctccagggct ggactgaggc ctga 144

<210> 123
 <211> 144
 <212> RNA
 <213> Homo sapiens

<400> 123
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 aggaagauga ggaggaagau guccccggcc aggccaagga cgagcuguag agaggccugc 120
 cuccagggcu ggacugaggc cuga 144

<210> 124
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 124
 Gly Asn Cys Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met
 1 5 10 15
 Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro
 20 25 30
 Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
 35 40 45

<210> 125
 <211> 138
 <212> DNA
 <213> Homo sapiens

<400> 125
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 atgaggagga agatgtcccc ggccaggcca aggacgagct gtagagaggc ctgcctccag 120
 ggctggactg aggcctga 138

<210> 126
 <211> 138
 <212> DNA
 <213> Homo sapiens

<400> 126
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atgaggagga agatgtcccc ggccaggcca **eolf-seq1** gtagagaggc ctgcctccag 120
 ggctggactg aggcttga 138

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<210> 127
<211> 138
<212> RNA
<213> Homo sapiens
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<400> 127						
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augaggagga	agaugucccc	ggccaggcca	aggacgagcu	guagagaggc	cugccuccag	120
ggcuggacug	aggccuga					138

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<210> 128
<211> 45
<212> PRT
<213> Homo sapiens
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<400> 128

Cys	Arg	Arg	Met	Met	Arg	Thr	Lys	Met	Arg	Met	Arg	Arg	Met	Arg	Arg
1				5					10					15	
Thr	Arg	Arg	Lys	Met	Arg	Arg	Lys	Met	Ser	Pro	Ala	Arg	Pro	Arg	Thr
			20					25					30		
Ser	Cys	Arg	Glu	Ala	Cys	Leu	Gln	Gly	Trp	Thr	Glu	Ala			
		35					40					45			

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<210> 129
<211> 138
<212> DNA
<213> Homo sapiens
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<400> 129							
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atgaggagga	agatgtcccc	ggccaggcca	aggacgagct	gtagagaggc	ctgcctccag		120
ggctggactg	aggcctga						138

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<210> 130
<211> 138
<212> DNA
<213> Homo sapiens
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<400> 130						
tgtcggaggga	tgatgaggac	aaagatgagg	atgaggagga	tgaggaggac	aaggaggaag	60
atgaggagga	agatgtcccc	ggccaggcca	aggacgagct	gtagagaggc	ctgcctccag	120
ggctggactg	aggcctga					138

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<210> 131
<211> 138
<212> RNA
<213> Homo sapiens
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<400> 131						
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augaggagga	agaugucccc	ggccaggcca	aggacgagcu	guagagaggc	cugccuccag	120
ggcuggacug	aggccuga					138

eo1f-seq1

<210> 132
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 132
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 1 5 10 15
 Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr
 20 25 30
 Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
 35 40 45

<210> 133
 <211> 141
 <212> DNA
 <213> Homo sapiens

<400> 133
 acttgatcgga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 60
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 120
 cagggctgga ctgaggcctg a 141

<210> 134
 <211> 141
 <212> DNA
 <213> Homo sapiens

<400> 134
 acttgatcgga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 60
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 120
 cagggctgga ctgaggcctg a 141

<210> 135
 <211> 141
 <212> RNA
 <213> Homo sapiens

<400> 135
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eolf-seq1

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 Val Lys His Glu Gln Asn Ile Asp Cys Gly Gly Tyr Val Lys Leu
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 Met Asp Gly Glu Trp Glu Pro Pro Val Ile Gln Asn Pro Glu Tyr Lys
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eolf-seq1

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eo1f-seq1

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<212> DNA

<213> Homo sapiens

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eolf-seq1

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eolf-seq1

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eolf-seq1

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eolf-seql

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eolf-seql

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eolf-seq1

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eolf-seql

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eolf-seql

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eolf-seq1

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Val Lys His Glu Gln Asn Ile Asp Cys Gly Gly Gly Tyr Val Lys Leu
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Ile Arg Cys Lys Asp Glu Phe Thr His Leu Tyr Thr Leu Ile Val
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eolf-seq1

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

Leu

<210> 291
 <211> 726
 <212> DNA
 <213> Homo sapiens

<400> 291
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggacaag gaggatgatg 60
 aggacaaaga tgaggatgag gaggatgagg aggacaagga ggaagatgag gaggaagatg 120
 tccccggcca ggccaaggac gagctgtaga gaggcctgcc tccagggctg gactgaggcc 180
 tgagcgctcc tgccgcagag ctggccgcgc caaataatgt ctctgtgaga ctcgagaact 240
 ttcatttttt tccaggctgg ttcggatttg ggggtggattt tggttttggt cccctcctcc 300
 actctcccc accccctccc cgcccttttt tttttttttt tttaaactgg tatttttatct 360
 ttgattctcc ttcagccctc acccctgggt ctcatctttc ttgatcaaca tcttttcttg 420
 cctctgtccc cttctctcat ctcttagctc ccctccaacc tggggggcag tgggtgtggag 480
 aagccacagg cctgagattt catctgctct ccttcctgga gccagagga gggcagcaga 540
 aggggggtgg gtctccaacc cccagcact gaggaagaac ggggctcttc tcatttcacc 600
 cctccctttc tcccctgccc ccaggactgg gccacttctg ggtggggcag tgggtcccag 660
 attggctcac actgagaatg taagaactac aaacaaaatt tctattaaat taaattttgt 720
 gtctcc 726

<210> 292
 <211> 183

eo1f-seq1

<212> DNA
<213> Homo sapiens

<400> 292
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggacaag gaggatgatg 60
aggacaaaga tgaggatgag gaggatgagg aggacaagga ggaagatgag gaggaagatg 120
tccccggcca ggccaaggac gagctgtaga gaggcctgcc tccagggctg gactgaggcc 180
tga 183

<210> 293
<211> 183
<212> RNA
<213> Homo sapiens

<400> 293
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggacaag gaggaugaug 60
aggacaaaga ugaggaugag gaggaugagg aggacaagga ggaagaugag gaggaagaug 120
uccccggcca ggccaaggac gagcuguaga gaggccugcc uccagggcug gacugaggcc 180
uga 183

<210> 294
<211> 60
<212> PRT
<213> Homo sapiens

<400> 294
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Thr
1 5 10 15
Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr
20 25 30
Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser
35 40 45
Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
50 55 60

<210> 295
<211> 783
<212> DNA
<213> Homo sapiens

<400> 295
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagaggaca attgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240
gcgctcctgc cgagagctg gccgcgcaa ataatgtctc tgtgagactc gagaactttc 300
atTTTTTcc aggctggttc ggatttgagg tggattttgg ttttgttccc ctctccact 360
ctccccacc ccctccccgc cttttttttt tttttttttt aaactggtat tttatctttg 420
attctccttc agccctcacc cctggttctc atctttcttg atcaacatct tttcttgcc 480
ctgtcccctt ctctcatctc ttagctcccc tccaacctgg ggggcagtgg tgtggagaag 540
ccacaggcct gagatttcat ctgctctcct tcctggagcc cagaggaggg cagcagaagg 600

eo1f-seq1

gggtggtgtc tccaaccccc cagcactgag gaagaacggg gctctttctca tttcacccct 660
cccttttctcc cctgccccca ggactgggcc acttctgggt ggggcagtgg gtcccagatt 720
ggctcacact gagaatgtaa gaactacaaa caaaatttct attaaattaa attttgtgtc 780
tcc 783

<210> 296
<211> 240
<212> DNA
<213> Homo sapiens

<400> 296
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagaggaca attgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240

<210> 297
<211> 240
<212> RNA
<213> Homo sapiens

<400> 297
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagaggaca auugucggag gaugaugagg 120
acaaagauga ggaugaggag gaugaggagg acaaggagga agauggaggag gaagaugucc 180
ccggccaggc caaggacgag cuguagagag gccugccucc agggcuggac ugaggccuga 240

<210> 298
<211> 79
<212> PRT
<213> Homo sapiens

<400> 298
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu
20 25 30
Asp Asn Cys Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met
35 40 45
Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro
50 55 60
Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 299
<211> 732
<212> DNA
<213> Homo sapiens

<400> 299
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcagag gacaaggagg 60
atgatgagga caaagatgag gatgaggagg atgaggagga caaggaggaa gatgaggagg 120
aagatgtccc cggccaggcc aaggacgagc tgtagagagg cctgcctcca gggctggact 180

eof-seq1

gaggcctgag cgctcctgcc gcagagctgg ccgcgccaaa taatgtctct gtgagactcg 240
 agaactttca tttttttcca ggctgggttcg gatttggggg ggatttttggg tttgtttccc 300
 tcctccactc tccccacccc cctccccgcc cttttttttt ttttttttta aactgggtatt 360
 ttatctttga ttctccttca gccctcacc ctaggttctca tctttcttga tcaacatctt 420
 ttcttgccctc tgtcccttc tctcatctct tagctccctt ccaacctggg gggcagtggg 480
 gtggagaagc cacaggcctg agatttcac tgctctcctt cctggagccc agaggagggc 540
 agcagaaggg ggtgggtgtct ccaaccccc agcactgagg aagaacgggg ctcttctcat 600
 ttcacccctc cttttctccc ctgccccag gactgggcca cttctgggtg gggcagtggg 660
 tcccagattg gctcacactg agaatgtaag aactacaaac aaaatttcta ttaaattaaa 720
 ttttgtgtct cc 732

<210> 300
 <211> 189
 <212> DNA
 <213> Homo sapiens

<400> 300
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcagag gacaaggagg 60
 atgatgagga caaagatgag gatgaggagg atgaggagga caaggaggaa gatgaggagg 120
 aagatgtccc cggccaggcc aaggacgagc tgtagagagg cctgcctcca gggctggact 180
 gaggcctga 189

<210> 301
 <211> 189
 <212> RNA
 <213> Homo sapiens

<400> 301
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcagag gacaaggagg 60
 augaugagga caaagaugag gaugaggagg augaggagga caaggaggaa gaugaggagg 120
 aagauguccc cggccaggcc aaggacgagc uguagagagg ccugccucca gggcuggacu 180
 gaggccuga 189

<210> 302
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 302
 Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Gln
 1 5 10 15
 Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg
 20 25 30
 Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg
 35 40 45
 Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
 50 55 60

<210> 303

eo1f-seq1

<211> 744
<212> DNA
<213> Homo sapiens

<400> 303
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aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
cagggctgga ctgaggcctg agcgctcctg ccgcagagct ggccgcgcca aataatgtct 240
ctgtgagact cgagaacttt cttttttttc caggctgggtt cggatttggg gtggattttg 300
gttttgttcc ctcctccac tctccccac cccctccccg cccttttttt tttttttttt 360
taaactggta ttttatcttt gattctcctt cagccctcac ccctggttct catctttctt 420
gatcaacatc ttttcttgcc tctgtcccct tctctcatct cttagctccc ctccaacctg 480
gggggcagtg gtgtggagaa gccacaggcc tgagatttca tctgctctcc ttcctggagc 540
ccagaggagg gcagcagaag ggggtggtgt ctccaacccc ccagcactga ggaagaacgg 600
ggctcttctc atttcacccc tccctttctc ccctgcccc aggactgggc cacttctggg 660
tggggcagtg ggtcccagat tggctcacac tgagaatgta agaactacaa acaaaatttc 720
tattaaatta aattttgtgt ctcc 744

<210> 304
<211> 201
<212> DNA
<213> Homo sapiens

<400> 304
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttag gaggaggcag 60
aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
cagggctgga ctgaggcctg a 201

<210> 305
<211> 201
<212> RNA
<213> Homo sapiens

<400> 305
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuag gaggaggcag 60
aggacaagga ggaugaugag gacaaagaug aggaugagga ggaugaggag gacaaggagg 120
aagaugagga ggaagauguc cccggccagg ccaaggacga gcuguagaga ggccugccuc 180
cagggcugga cugaggccug a 201

<210> 306
<211> 66
<212> PRT
<213> Homo sapiens

<400> 306

eolf-seq1

Ala	Ala	Glu	Lys	Gln	Met	Lys	Asp	Lys	Gln	Asp	Glu	Glu	Gln	Arg	Leu
1				5					10					15	
Arg	Arg	Arg	Gln	Arg	Thr	Arg	Arg	Met	Met	Arg	Thr	Lys	Met	Arg	Met
			20					25					30		
Arg	Arg	Met	Arg	Arg	Thr	Arg	Arg	Lys	Met	Arg	Arg	Lys	Met	Ser	Pro
		35					40					45			
Ala	Arg	Pro	Arg	Thr	Ser	Cys	Arg	Glu	Ala	Cys	Leu	Gln	Gly	Trp	Thr
	50					55					60				
Glu	Ala														
65															

<210> 307
 <211> 726
 <212> DNA
 <213> Homo sapiens

<400> 307
 gcagcagaga aacaaatgaa ggacaaacag gacgaggggc agaggacaag gaggatgatg 60
 aggacaaaga tgaggatgag gaggatgagg aggacaagga ggaagatgag gaggaagatg 120
 tccccggcca ggccaaggac gagctgtaga gaggcctgcc tccagggctg gactgaggcc 180
 tgagcgctcc tgccgcagag ctggccgcgc caaataatgt ctctgtgaga ctcgagaact 240
 ttcatttttt tccaggctgg ttcggatttg ggggtggattt tggttttggt cccctcctcc 300
 actctcccc acccctccc cgcccttttt tttttttttt tttaaactgg tattttatct 360
 ttgattctcc ttcagccctc acccctgggt ctcattcttc ttgatcaaca tcttttcttg 420
 cctctgtccc cttctctcat ctcttagctc ccctccaacc tggggggcag tgggtgtggag 480
 aagccacagg cctgagattt catctgctct ctttcctgga gccagagga gggcagcaga 540
 aggggggtgg gtctccaacc cccagcact gaggaagaac ggggctcttc tcatttcacc 600
 cctccctttc tcccctgccc ccaggactgg gccacttctg ggtggggcag tgggtcccag 660
 attggctcac actgagaatg taagaactac aaacaaaatt tctattaaat taaattttgt 720
 gtctcc 726

<210> 308
 <211> 183
 <212> DNA
 <213> Homo sapiens

<400> 308
 gcagcagaga aacaaatgaa ggacaaacag gacgaggggc agaggacaag gaggatgatg 60
 aggacaaaga tgaggatgag gaggatgagg aggacaagga ggaagatgag gaggaagatg 120
 tccccggcca ggccaaggac gagctgtaga gaggcctgcc tccagggctg gactgaggcc 180
 tga 183

<210> 309
 <211> 183
 <212> RNA
 <213> Homo sapiens

<400> 309
 gcagcagaga aacaaaugaa ggacaaacag gacgaggggc agaggacaag gaggaugaug 60
 aggacaaaga ugaggaugag gaggaugagg aggacaagga ggaagaugag gaggaagaug 120

eo1f-seq1

uccccggcca ggccaaggac gagcuguaga gaggccugcc uccagggcug gacugaggcc 180
uga 183

<210> 310
<211> 60
<212> PRT
<213> Homo sapiens

<400> 310
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Gly Gln Arg Thr
1 5 10 15
Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr
20 25 30
Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser
35 40 45
Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
50 55 60

<210> 311
<211> 732
<212> DNA
<213> Homo sapiens

<400> 311
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc ggaggcagag gacaaggagg 60
atgatgagga caaagatgag gatgaggagg atgaggagga caaggaggaa gatgaggagg 120
aagatgtccc cggccaggcc aaggacgagc tgtagagagg cctgcctcca gggctggact 180
gaggcctgag cgctcctgcc gcagagctgg ccgcgccaaa taatgtctct gtgagactcg 240
agaactttca tttttttcca ggctggttcg gatttggggg ggattttggt tttgttcccc 300
tcctccactc tccccaccc cctccccgcc cttttttttt ttttttttta aactggtatt 360
ttatctttga ttctccttca gccctcacc ctggttctca tctttcttga tcaacatctt 420
ttcttgccctc tgtccccctc tctcatctct tagctccctt ccaacctggg gggcagtggg 480
gtggagaagc cacaggcctg agatttcatt tgctctcctt cctggagccc agaggagggc 540
agcagaaggg ggtggtgtct ccaaccccc agcactgagg aagaacgggg ctcttctcat 600
ttcaccctc cttttctccc ctgccccag gactgggcca cttctgggtg gggcagtggg 660
tcccagattg gctcacactg agaatgtaag aactacaaac aaaatttcta ttaaattaaa 720
ttttgtgtct cc 732

<210> 312
<211> 189
<212> DNA
<213> Homo sapiens

<400> 312
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc ggaggcagag gacaaggagg 60
atgatgagga caaagatgag gatgaggagg atgaggagga caaggaggaa gatgaggagg 120
aagatgtccc cggccaggcc aaggacgagc tgtagagagg cctgcctcca gggctggact 180
gaggcctga 189

eo1f-seq1

<210> 313
 <211> 189
 <212> RNA
 <213> Homo sapiens

<400> 313
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc ggaggcagag gacaaggagg 60
 augaugagga caaagaugag gaugaggagg augaggagga caaggaggaa gaugaggagg 120
 aagauguccc cggccaggcc aaggacgagc uguagagagg ccugccucca gggcuggacu 180
 gaggccuga 189

<210> 314
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 314
 Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Arg Arg Gln
 1 5 10 15
 Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg
 20 25 30
 Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg
 35 40 45
 Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
 50 55 60

<210> 315
 <211> 726
 <212> DNA
 <213> Homo sapiens

<400> 315
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 aggacaaaga tgaggatgag gaggatgagg aggacaagga ggaagatgag gaggaagatg 120
 tccccggcca ggccaaggac gagctgtaga gaggcctgcc tccagggctg gactgaggcc 180
 tgagcgtcc tgccgcagag ctggccgcgc caaataatgt ctctgtgaga ctcgagaact 240
 ttcatTTTTT tccaggctgg ttcgatttg ggggtgattt tggTTTTgtt cccctcctcc 300
 actctcccc acccctccc cgccctTTTT tttttTTTT tttaaactgg tattttatct 360
 ttgattctcc ttcagccctc acccctgggt ctcattcttc ttgatcaaca tcttttcttg 420
 cctctgtccc cttctctcat ctcttagctc ccctccaacc tggggggcag tgggtgtggag 480
 aagccacagg cctgagattt catctgctct ccttcctgga gccagagga gggcagcaga 540
 aggggggtgg gtctccaacc cccagcact gaggaagaac ggggctcttc tcatttcacc 600
 cctccctttc tcccctgccc ccaggactgg gccattctg ggtggggcag tgggtcccag 660
 attggctcac actgagaatg taagaactac aaacaaaatt tctattaaat taaattttgt 720
 gtctcc 726

<210> 316
 <211> 183
 <212> DNA
 <213> Homo sapiens

eo1f-seq1

<400> 316
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttag gaggatgatg 60
aggacaaaga tgaggatgag gaggatgagg aggacaagga ggaagatgag gaggaagatg 120
tccccggcca ggccaaggac gagctgtaga gaggcctgcc tccagggctg gactgaggcc 180
tga 183

<210> 317
<211> 183
<212> RNA
<213> Homo sapiens

<400> 317
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuag gaggaugaug 60
aggacaaaga ugaggaugag gaggaugagg aggacaagga ggaagaugag gaggaagaug 120
uccccggcca ggccaaggac gacguguaga gaggccugcc uccagggcug gacugaggcc 180
uga 183

<210> 318
<211> 60
<212> PRT
<213> Homo sapiens

<400> 318
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr
20 25 30
Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser
35 40 45
Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
50 55 60

<210> 319
<211> 744
<212> DNA
<213> Homo sapiens

<400> 319
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa gaggaggcag 60
aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
cagggctgga ctgaggcctg agcgctcctg ccgcagagct ggccgcgcca aataatgtct 240
ctgtgagact cgagaacttt cttttttttc caggctgggtt cggatttggg gtggattttg 300
gttttgttcc ctcctccac tctccccac cccctccccg cccttttttt tttttttttt 360
taaactggta ttttatcttt gattctcctt cagccctcac ccctggttct catctttctt 420
gatcaacatc ttttcttgcc tctgtcccct tctctcatct cttagctccc ctccaacctg 480
gggggcagtg gtgtggagaa gccacaggcc tgagatttca tctgctctcc ttcctggagc 540
ccagaggagg gcagcagaag ggggtggtgt ctccaacccc ccagcactga ggaagaacgg 600
ggctcttctc atttcacccc tccctttctc ccctgcccc aggactgggc cacttctggg 660

eo1f-seq1

tggggcagtg ggtcccagat tggctcacac tgagaatgta agaactacaa acaaaatttc 720
tattaaatta aattttgtgt ctcc 744

<210> 320
<211> 201
<212> DNA
<213> Homo sapiens

<400> 320
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa gaggaggcag 60
aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
cagggctgga ctgaggcctg a 201

<210> 321
<211> 201
<212> RNA
<213> Homo sapiens

<400> 321
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa gaggaggcag 60
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aaugaugaga ggaagauguc cccggccagg ccaaggacga gcuguagaga ggccugccuc 180
cagggcugga cugaggccug a 201

<210> 322
<211> 66
<212> PRT
<213> Homo sapiens

<400> 322
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Arg Arg Gln Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met
20 25 30
Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro
35 40 45
Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
50 55 60
Glu Ala
65

<210> 323
<211> 777
<212> DNA
<213> Homo sapiens

<400> 323
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggagagg cagaggacaa ggaggatgat gaggacaaag 120
atgaggatga ggaggatgag gaggacaagg aggaagatga ggaggaagat gtccccggcc 180
aggccaagga cgagctgtag agaggcctgc ctccagggtt ggactgaggc ctgagcgctc 240
ctgccgcaga gctggccgcg ccaaataatg tctctgtgag actcgagaac tttcattttt 300

eof-seq1

ttccaggctg gttcggattt ggggtggatt ttggttttgt tcccctcctc cactctcccc	360
cacccccctcc ccgccctttt tttttttttt ttttaaactg gtattttatc tttgattctc	420
cttcagccct caccctgggt tctcatcttt cttgatcaac atcttttctt gcctctgtcc	480
ccttctctca tctcttagct cccctccaac ctggggggca gtggtgtgga gaagccacag	540
gcctgagatt tcatctgctc tccttcctgg agcccagagg agggcagcag aagggggtgg	600
tgtctccaac cccccagcac tgaggaagaa cggggctctt ctcatttcac ccctcccttt	660
ctcccctgcc cccaggactg ggccacttct ggggtggggca gtgggtccca gattggctca	720
cactgagaat gtaagaacta caaacaaaat ttctattaaa ttaaattttg tgtctcc	777

<210> 324
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 324	
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa	60
gaagacaaga aacgcaaaga ggaggagagg cagaggacaa ggaggatgat gaggacaaag	120
atgaggatga ggaggatgag gaggacaagg aggaagatga ggaggaagat gtccccggcc	180
aggccaagga cgagctgtag agaggcctgc ctccagggtt ggactgaggc ctga	234

<210> 325
 <211> 234
 <212> RNA
 <213> Homo sapiens

<400> 325	
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa	60
gaagacaaga aacgcaaaga ggaggagagg cagaggacaa ggaggaugau gaggacaaag	120
augaggauga ggaggaugag gaggacaagg aggaagauga ggaggaagau guccccggcc	180
aggccaagga cgagcuguag agaggccugc cuccagggtt ggacugaggc cuga	234

<210> 326
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 326	
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu	
1 5 10 15	
Lys Glu Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Arg Gln Arg	
20 25 30	
Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg	
35 40 45	
Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr	
50 55 60	
Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala	
65 70 75	

<210> 327
 <211> 783
 <212> DNA

eo1f-seq1

<213> Homo sapiens

<400> 327

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gaagacaaga	aacgcaaaga	ggaggaggag	gcagaggaca	tgtgtcggag	gatgatgagg	120
acaaagatga	ggatgaggag	gatgaggagg	acaaggagga	agatgaggag	gaagatgtcc	180
ccggccaggc	caaggacgag	ctgtagagag	gcctgcctcc	agggctggac	tgaggcctga	240
gcgctcctgc	cgcagagctg	gccgcgccaa	ataatgtctc	tgtgagactc	gagaactttc	300
atTTTTTTTcc	aggctgggtc	ggatttgggg	tggatttttg	ttttgttccc	ctcctccact	360
ctccccccacc	ccctccccgc	cctTTTTTTTT	TTTTTTTTTT	aaactggtat	tttatctttg	420
attctccttc	agccctcacc	cctggttctc	atctttcttg	atcaacatct	tttcttgcct	480
ctgtcccctt	ctctcatctc	ttagctcccc	tccaacctgg	ggggcagtgg	tgtggagaag	540
ccacaggcct	gagatttcat	ctgctctcct	tcctggagcc	cagaggaggg	cagcagaagg	600
gggtggtgtc	tccaaccccc	cagcactgag	gaagaacggg	gctcttctca	tttcaccctt	660
ccctttctcc	cctgccccca	ggactggggc	acttctgggt	ggggcagtgg	gtcccagatt	720
ggctcacact	gagaatgtaa	gaactacaaa	caaaatttct	attaaattaa	atTTTgtgtc	780
tcc						783

<210> 328

<211> 240

<212> DNA

<213> Homo sapiens

<400> 328

gcagcagaga	aacaaatgaa	ggacaaacag	gacgaggagc	agaggcttaa	ggaggaggaa	60
gaagacaaga	aacgcaaaga	ggaggaggag	gcagaggaca	tgtgtcggag	gatgatgagg	120
acaaagatga	ggatgaggag	gatgaggagg	acaaggagga	agatgaggag	gaagatgtcc	180
ccggccaggc	caaggacgag	ctgtagagag	gcctgcctcc	agggctggac	tgaggcctga	240

<210> 329

<211> 240

<212> RNA

<213> Homo sapiens

<400> 329

gcagcagaga	aacaaaugaa	ggacaaacag	gacgaggagc	agaggcuuaa	ggaggaggaa	60
gaagacaaga	aacgcaaaga	ggaggaggag	gcagaggaca	ugugucggag	gaugaugagg	120
acaaagauga	ggaugaggag	gaugaggagg	acaaggagga	agaugaggag	gaagaugucc	180
ccggccaggc	caaggacgag	cuguagagag	gccugccucc	agggcuggac	ugaggccuga	240

<210> 330

<211> 79

<212> PRT

<213> Homo sapiens

<400> 330

eolf-seq1

Ala	Ala	Glu	Lys	Gln	Met	Lys	Asp	Lys	Gln	Asp	Glu	Glu	Gln	Arg	Leu
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Lys	Glu	Glu	Glu	Glu	Asp	Lys	Lys	Arg	Lys	Glu	Glu	Glu	Glu	Ala	Glu
			20					25					30		
Asp	Met	Cys	Arg	Arg	Met	Met	Arg	Thr	Lys	Met	Arg	Met	Arg	Arg	Met
		35					40					45			
Arg	Arg	Thr	Arg	Arg	Lys	Met	Arg	Arg	Lys	Met	Ser	Pro	Ala	Arg	Pro
	50					55					60				
Arg	Thr	Ser	Cys	Arg	Glu	Ala	Cys	Leu	Gln	Gly	Trp	Thr	Glu	Ala	
65					70					75					

<210> 331
 <211> 732
 <212> DNA
 <213> Homo sapiens

<400> 331
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 atgatgagga caaagatgag gatgaggagg atgaggagga caaggaggaa gatgaggagg 120
 aagatgtccc cggccaggcc aaggacgagc tgtagagagg cctgcctcca gggctggact 180
 gaggcctgag cgctcctgcc gcagagctgg ccgcgccaaa taatgtctct gtgagactcg 240
 agaactttca tttttttcca ggctgggttc gatttggggt ggattttggt tttgttcccc 300
 tcctccactc tccccaccc cctccccgcc cttttttttt ttttttttta aactgggtatt 360
 ttatctttga ttctccttca gccctcacc ctggttctca tctttcttga tcaacatctt 420
 ttcttgccctc tgtccccttc tctcatctct tagctcccct ccaacctggg gggcagtggg 480
 gtggagaagc cacaggcctg agatttcac tgctctcctt cctggagccc agaggagggc 540
 agcagaaggg ggtggtgtct ccaaccccc agcactgagg aagaacgggg ctcttctcat 600
 ttcacccctc cttttctccc ctgccccag gactgggcca cttctgggtg gggcagtggg 660
 tcccagattg gctcacactg agaatgtaag aactacaaac aaaatttcta ttaaattaaa 720
 ttttgtgtct cc 732

<210> 332
 <211> 189
 <212> DNA
 <213> Homo sapiens

<400> 332
 gcagcagaga aacaaatgaa ggacaaacag gacgaggacc agaggcagag gacaaggagg 60
 atgatgagga caaagatgag gatgaggagg atgaggagga caaggaggaa gatgaggagg 120
 aagatgtccc cggccaggcc aaggacgagc tgtagagagg cctgcctcca gggctggact 180
 gaggcctga 189

<210> 333
 <211> 189
 <212> RNA
 <213> Homo sapiens

<400> 333
 gcagcagaga aacaaaugaa ggacaaacag gacgaggacc agaggcagag gacaaggagg 60
 augaugagga caaagaugag gaugaggagg augaggagga caaggaggaa gaugaggagg 120

eo1f-seq1

aagauguccc cggccaggcc aaggacgagc uguagagagg ccugccucca gggcuggacu 180
gaggccuga 189

<210> 334
<211> 62
<212> PRT
<213> Homo sapiens

<400> 334
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Asp Gln Arg Gln
1 5 10 15
Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg
20 25 30
Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg
35 40 45
Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
50 55 60

<210> 335
<211> 744
<212> DNA
<213> Homo sapiens

<400> 335
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggaggag gaggaggcag 60
aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
cagggctgga ctgaggcctg agcgctcctg ccgcagagct ggccgcgcca aataatgtct 240
ctgtgagact cgagaacttt cttttttttc caggctggtt cggatttggg gtggattttg 300
gttttgttcc cctcctccac tctccccac cccctccccg cccttttttt tttttttttt 360
taaactggta ttttatcttt gattctcctt cagccctcac ccctggttct catctttctt 420
gatcaacatc ttttcttgcc tctgtcccct tctctcatct cttagctccc ctccaacctg 480
gggggcagtg gtgtggagaa gccacaggcc tgagatttca tctgctctcc ttcctggagc 540
ccagaggagg gcagcagaag ggggtggtgt ctccaacccc ccagcactga ggaagaacgg 600
ggctcttctc atttcacccc tccctttctc ccctgcccc aggactgggc cacttctggg 660
tggggcagtg ggtcccagat tggctcacac tgagaatgta agaactacaa acaaaatttc 720
tattaaatta aattttgtgt ctcc 744

<210> 336
<211> 201
<212> DNA
<213> Homo sapiens

<400> 336
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggaggag gaggaggcag 60
aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
cagggctgga ctgaggcctg a 201

eo1f-seq1

<210> 337
 <211> 201
 <212> RNA
 <213> Homo sapiens

<400> 337
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggaggag gaggaggcag 60
 aggacaagga ggaugaugag gacaaaugag aggaugagga ggaugaggag gacaaggagg 120
 aaugaugagga ggaagauguc cccggccagg ccaaggacga gcuguagaga ggccugccuc 180
 cagggcugga cugaggccug a 201

<210> 338
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 338
 Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Arg
 1 5 10 15
 Arg Arg Arg Gln Arg Thr Arg Arg Met Arg Thr Lys Met Arg Met
 20 25 30
 Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro
 35 40 45
 Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
 50 55 60
 Glu Ala
 65

<210> 339
 <211> 744
 <212> DNA
 <213> Homo sapiens

<400> 339
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcagag gaggaggcag 60
 aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
 cagggctgga ctgaggcctg agcgctcctg ccgcagagct ggccgcgcca aataatgtct 240
 ctgtgagact cgagaacttt cttttttttc caggctgggtt cggatttggg gtggattttg 300
 gttttgttcc cctcctccac tctccccac cccctccccg cccttttttt tttttttttt 360
 taaactggta ttttatcttt gattctcctt cagccctcac ccctggttct catctttctt 420
 gatcaacatc ttttcttgcc tctgtcccct tctctcatct cttagctccc ctccaacctg 480
 gggggcagtg gtgtggagaa gccacaggcc tgagatttca tctgctctcc ttcctggagc 540
 ccagaggagg gcagcagaag ggggtggtgt ctccaacccc ccagcactga ggaagaacgg 600
 ggctcttctc atttcacccc tccctttctc ccctgcccc aggactgggc cacttctggg 660
 tggggcagtg ggtcccagat tggctcacac tgagaatgta agaactacaa acaaaatttc 720
 tattaaatta aattttgtgt ctcc 744

<210> 340
 <211> 201

eo1f-seq1

<212> DNA
<213> Homo sapiens

<400> 340
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aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
cagggctgga ctgaggcctg a 201

<210> 341
<211> 201
<212> RNA
<213> Homo sapiens

<400> 341
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcagag gaggaggcag 60
aggacaagga ggaugaugag gacaaaugag aggaugagga ggaugaggag gacaaggagg 120
aagaugagga ggaagauguc cccggccagg ccaaggacga gcuguagaga ggccugccuc 180
cagggcugga cugaggccug a 201

<210> 342
<211> 66
<212> PRT
<213> Homo sapiens

<400> 342
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Gln
1 5 10 15
Arg Arg Arg Gln Arg Thr Arg Arg Met Arg Thr Lys Met Arg Met
20 25 30
Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro
35 40 45
Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
50 55 60
Glu Ala
65

<210> 343
<211> 744
<212> DNA
<213> Homo sapiens

<400> 343
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggctgag gaggaggcag 60
aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
cagggctgga ctgaggcctg agcgctcctg ccgcagagct ggccgcgcca aataatgtct 240
ctgtgagact cgagaacttt cttttttttc caggctgggtt cggatttggg gtggattttg 300
gttttgttcc ctcctccac tctccccac cccctccccg cccttttttt tttttttttt 360
taaactggta ttttatcttt gattctcctt cagccctcac ccctggttct catctttctt 420
gatcaacatc ttttcttgcc tctgtcccct tctctcatct cttagctccc ctccaacctg 480
gggggcagtg gtgtggagaa gccacaggcc tgagatttca tctgctctcc ttctggagc 540

eo1f-seq1

ccagaggagg gcagcagaag ggggtggtgt ctccaacccc ccagcactga ggaagaacgg 600
 ggctcttctc atttcacccc tccctttctc ccctgcccc aggactgggc cacttctggg 660
 tggggcagtg ggtcccagat tggctcacac tgagaatgta agaactacaa acaaaatttc 720
 tattaaatta aattttgtgt ctcc 744

<210> 344
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 344
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggctgag gaggaggcag 60
 aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggctgcctc 180
 cagggtgga ctgaggcctg a 201

<210> 345
 <211> 201
 <212> RNA
 <213> Homo sapiens

<400> 345
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcugag gaggaggcag 60
 aggacaagga ggaugaugag gacaaaugag aggaugagga ggaugaggag gacaaggagg 120
 aaugaugaga ggaagauguc cccggccagg ccaaggacga gcuguagaga ggccugccuc 180
 cagggcugga cugaggccug a 201

<210> 346
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 346
 Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
 1 5 10 15
 Arg Arg Arg Gln Arg Thr Arg Arg Met Arg Thr Lys Met Arg Met
 20 25 30
 Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro
 35 40 45
 Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
 50 55 60
 Glu Ala
 65

<210> 347
 <211> 744
 <212> DNA
 <213> Homo sapiens

<400> 347
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttag gaggagggag 60
 aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggctgcctc 180

eo1f-seq1

cagggctgga ctgaggcctg agcgctcctg ccgcagagct ggccgcgcca aataatgtct	240
ctgtgagact cgagaacttt catttttttc caggctgggtt cggatttggg gtggattttg	300
gttttgttcc cctcctccac tctccccac cccctccccg cccttttttt tttttttttt	360
taaactggta ttttatcttt gattctcctt cagccctcac ccctggttct catctttctt	420
gatcaacatc ttttcttgcc tctgtcccct tctctcatct cttagctccc ctccaacctg	480
gggggcagtg gtgtggagaa gccacaggcc tgagatttca tctgctctcc ttcctggagc	540
ccagaggagg gcagcagaag ggggtggtgt ctccaacccc ccagcactga ggaagaacgg	600
ggctcttctc atttcacccc tccctttctc ccctgcccc aggactgggc cacttctggg	660
tggggcagtg ggtcccagat tggctcacac tgagaatgta agaactacaa aaaaaatttc	720
tattaaatta aattttgtgt ctcc	744

<210> 348
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 348	
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttag gaggagggag	60
aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg	120
aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggctgcctc	180
cagggctgga ctgaggcctg a	201

<210> 349
 <211> 201
 <212> RNA
 <213> Homo sapiens

<400> 349	
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuag gaggagggag	60
aggacaagga ggaugaugag gacaaaugag aggaugagga ggaugaggag gacaaggagg	120
aaugaugagga ggaugauguc cccggccagg ccaaggacga gcuguagaga ggccugccuc	180
cagggcugga cugaggccug a	201

<210> 350
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 350	
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu	
1 5 10 15	
Arg Arg Arg Glu Arg Thr Arg Arg Met Arg Thr Lys Met Arg Met	
20 25 30	
Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro	
35 40 45	
Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr	
50 55 60	
Glu Ala	
65	

eo1f-seq1

<210> 351
 <211> 744
 <212> DNA
 <213> Homo sapiens

<400> 351
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 aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
 cagggctgga ctgaggcctg agcgctcctg ccgcagagct ggccgcgcca aataatgtct 240
 ctgtgagact cgagaacttt cttttttttc caggctgggtt cggatttggg gtggattttg 300
 gttttgttcc cctcctccac tctccccac cccctccccg cccttttttt tttttttttt 360
 taaactggta ttttatcttt gattctcctt cagccctcac ccctggttct catctttctt 420
 gatcaacatc ttttcttgcc tctgtcccct tctctcatct cttagctccc ctccaacctg 480
 gggggcagtg gtgtggagaa gccacaggcc tgagatttca tctgctctcc ttcctggagc 540
 ccagaggagg gcagcagaag ggggtggtgt ctccaacccc ccagcactga ggaagaacgg 600
 ggctcttctc atttcacccc tccctttctc ccctgcccc aggactgggc cacttctggg 660
 tggggcagtg ggtcccagat tggctcacac tgagaatgta agaactacaa acaaaatttc 720
 tattaaatta aattttgtgt ctcc 744

<210> 352
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 352
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttca gaggaggcag 60
 aggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
 cagggctgga ctgaggcctg aagaggcctg cctccagggc tggactgagg cctga 235

<210> 353
 <211> 235
 <212> RNA
 <213> Homo sapiens

<400> 353
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuca gaggaggcag 60
 aggacaagga ggaugaugag gacaaagaug aggaugagga ggaugaggag gacaaggagg 120
 aaugaugagga ggaagauguc cccggccagg ccaaggacga gcuguagaga ggccugccuc 180
 cagggcugga cugaggccug aagaggccug ccuccagggc uggacugagg ccuga 235

<210> 354
 <211> 66
 <212> PRT
 <213> Homo sapiens

eo1f-seq1

<400> 354
 Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
 1 5 10 15
 Gln Arg Arg Gln Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met
 20 25 30
 Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro
 35 40 45
 Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
 50 55 60
 Glu Ala
 65

<210> 355
 <211> 744
 <212> DNA
 <213> Homo sapiens

<400> 355
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa gaggaggcag 60
 tggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
 cagggctgga ctgaggcctg agcgctcctg ccgcagagct ggccgcgcca aataatgtct 240
 ctgtgagact cgagaacttt cttttttttc caggctgggtt cggatttggg gtggattttg 300
 gttttgttcc cctcctccac tctccccac cccctccccg cccttttttt tttttttttt 360
 taaactggta ttttatcttt gattctcctt cagccctcac ccctggttct catctttctt 420
 gatcaacatc ttttcttgcc tctgtcccct tctctcatct cttagctccc ctccaacctg 480
 gggggcagtg gtgtggagaa gccacaggcc tgagatttca tctgctctcc ttcctggagc 540
 ccagaggagg gcagcagaag ggggtggtgt ctccaacccc ccagcactga ggaagaacgg 600
 ggctcttctc atttcacccc tccctttctc ccctgcccc aggactgggc cacttctggg 660
 tggggcagtg ggtcccagat tggctcacac tgagaatgta agaactacaa acaaaatttc 720
 tattaaatta aattttgtgt ctcc 744

<210> 356
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 356
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa gaggaggcag 60
 tggacaagga ggatgatgag gacaaagatg aggatgagga ggatgaggag gacaaggagg 120
 aagatgagga ggaagatgtc cccggccagg ccaaggacga gctgtagaga ggcctgcctc 180
 cagggctgga ctgaggcctg a 201

<210> 357
 <211> 201
 <212> RNA
 <213> Homo sapiens

<400> 357
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa gaggaggcag 60

eo1f-seq1

uggacaagga ggaugaugag gacaaaug aggaugagga ggaugaggag gacaaggagg 120
aagaugagga ggaugauguc cccggccagg ccaaggacga gcuguagaga ggccugccuc 180
cagggcugga cugaggccug a 201

<210> 358
<211> 66
<212> PRT
<213> Homo sapiens

<400> 358
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Arg Arg Gln Trp Thr Arg Arg Met Met Arg Thr Lys Met Arg Met
20 25 30
Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro
35 40 45
Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr
50 55 60
Glu Ala
65

<210> 359
<211> 726
<212> DNA
<213> Homo sapiens

<400> 359
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa gaggatgatg 60
aggacaaaga tgaggatgag gaggatgagg aggacaagga ggaagatgag gaggaagatg 120
tccccggcca ggccaaggac gagctgtaga gaggcctgcc tccagggctg gactgaggcc 180
tgagcgtcc tgccgcagag ctggccgcgc caaataatgt ctctgtgaga ctcgagaact 240
ttcatttttt tccaggctgg ttcggatttg ggggtgattt tggttttgtt cccctcctcc 300
actctcccc acccctccc cgcccttttt tttttttttt tttaaactgg tattttatct 360
ttgattctcc ttcagccctc acccctggtt ctcatctttc ttgatcaaca tcttttcttg 420
cctctgtccc cttctctcat ctcttagctc ccctccaacc tggggggcag tgggtgtggag 480
aagccacagg cctgagattt catctgctct ccttcctgga gccagagga gggcagcaga 540
agggggtggt gtctccaacc cccagcact gaggaagaac ggggctcttc tcatttcacc 600
cctccctttc tcccctgccc ccaggactgg gccacttctg ggtggggcag tgggtcccag 660
attggctcac actgagaatg taagaactac aaacaaaatt tctattaaat taaattttgt 720
gtctcc 726

<210> 360
<211> 183
<212> DNA
<213> Homo sapiens

<400> 360
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa gaggatgatg 60
aggacaaaga tgaggatgag gaggatgagg aggacaagga ggaagatgag gaggaagatg 120

eolf-seq1

tccccggcca ggccaaggac gagctgtaga gaggcctgcc tccagggctg gactgaggcc	180
tga	183

<210> 361
 <211> 183
 <212> RNA
 <213> Homo sapiens

<400> 361	
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa gaggaugaug	60
aggacaaaga ugaggaugag gaggaugagg aggacaagga ggaagaugag gaggaagaug	120
uccccggcca ggccaaggac gagcuguaga gaggccugcc uccagggcug gacugaggcc	180
uga	183

<210> 362
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 362	
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu	
1 5 10 15	
Lys Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr	
20 25 30	
Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser	
35 40 45	
Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala	
50 55 60	

<210> 363
 <211> 747
 <212> DNA
 <213> Homo sapiens

<400> 363	
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggagagg	60
cagaggacaa ggaggatgat gaggacaaag atgaggatga ggaggatgag gaggacaagg	120
aggaagatga ggaggaagat gtccccggcc aggccaagga cgagctgtag agaggcctgc	180
ctccagggct ggactgaggc ctgagcgctc ctgccgcaga gctggccgcg ccaaataatg	240
tctctgtgag actcgagaac tttcattttt ttccaggctg gttcggattt ggggtggatt	300
ttggttttgt tcccctctc cactctcccc caccctctcc ccgccctttt tttttttttt	360
ttttaaactg gtattttatc tttgattctc cttcagccct cacccttggt tctcatcttt	420
cttgatcaac atcttttctt gcctctgtcc ctttctctca tctcttagct cccctccaac	480
ctgggggggca gtggtgtgga gaagccacag gcctgagatt tcattctgctc tccttcctgg	540
agcccagagg agggcagcag aagggggtgg tgtctccaac ccccagcac tgaggaagaa	600
cggggctctt ctattttcac ccctcccttt ctcccctgcc cccaggactg ggccacttct	660
gggtgggggca gtgggtccca gattggctca cactgagaat gtaagaacta caaacaaat	720
ttctattaaa ttaaattttg tgtctcc	747

eo1f-seq1

<210> 364
<211> 204
<212> DNA
<213> Homo sapiens

<400> 364
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggagagg 60
cagaggacaa ggaggatgat gaggacaaag atgaggatga ggaggatgag gaggacaagg 120
aggaagatga ggaggaagat gtccccggcc aggccaagga cgagctgtag agaggcctgc 180
ctccagggct ggactgaggc ctga 204

<210> 365
<211> 204
<212> RNA
<213> Homo sapiens

<400> 365
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggagagg 60
cagaggacaa ggaggaugau gaggacaaag augaggauga ggaggaugag gaggacaagg 120
aggaagauga ggaggaagau guccccggcc aggccaagga cgagcuguag agaggccugc 180
cuccagggcu ggacugaggc cuga 204

<210> 366
<211> 67
<212> PRT
<213> Homo sapiens

<400> 366
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Arg Gln Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg
20 25 30
Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser
35 40 45
Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp
50 55 60
Thr Glu Ala
65

<210> 367
<211> 759
<212> DNA
<213> Homo sapiens

<400> 367
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagggagga ggagaggac aaggaggatg atgaggacaa agatgaggat gaggaggatg 120
aggaggacaa ggaggaagat gaggaggaag atgtccccgg ccaggccaag gacgagctgt 180
agagaggcct gcctccaggg ctggactgag gcctgagcgc tcctgccgca gagctggccg 240
cgccaaataa tgtctctgtg agactcgaga actttcattt ttttccaggc tggttcggat 300
ttgggggtgga ttttggtttt gttcccctcc tccactctcc cccaccccct ccccgccctt 360
tttttttttt ttttttaaac tggtatttta tctttgattc tccttcagcc ctcaccctg 420
gttctcatct ttcttgatca acatcttttc ttgcctctgt ccccttctct catctcttag 480

eof-seq1

ctcccctcca acctgggggg cagtgggtgtg gagaagccac aggcctgaga ttatcatctgc 540
tctccttcct ggagcccaga ggagggcagc agaaggggggt ggtgtctcca acccccagc 600
actgaggaag aacggggctc ttctcatttc acccctccct ttctcccctg ccccaggac 660
tgggccactt ctgggtgggg cagtgggtcc cagattggct cacactgaga atgtaagaac 720
tacaacaaa atttctatta aattaaattt tgtgtctcc 759

<210> 368
<211> 216
<212> DNA
<213> Homo sapiens

<400> 368
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaaggaggga ggagaggac aaggaggatg atgaggacaa agatgaggat gaggaggatg 120
aggaggacaa ggaggaagat gaggaggaag atgtccccgg ccaggccaag gacgagctgt 180
agagaggcct gcctccaggg ctggactgag gcctga 216

<210> 369
<211> 216
<212> RNA
<213> Homo sapiens

<400> 369
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaaggaggga ggagaggac aaggaggau augaggacaa agauggagau gaggaggau 120
aggaggacaa ggaggaagau gaggaggaag auguccccgg ccaggccaag gacgagcugu 180
agagaggccu gccuccaggg cuggacugag gccuga 216

<210> 370
<211> 71
<212> PRT
<213> Homo sapiens

<400> 370
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Glu Gly Arg Arg Gln Arg Thr Arg Arg Met Met Arg
20 25 30
Thr Lys Met Arg Met Arg Arg Arg Arg Thr Arg Arg Lys Met Arg
35 40 45
Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys
50 55 60
Leu Gln Gly Trp Thr Glu Ala
65 70

<210> 371
<211> 756
<212> DNA
<213> Homo sapiens

<400> 371
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagcgttta agaggacaag gaggatgatg aggacaaaga tgaggatgag gaggatgagg 120

eo1f-seq1

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aggacaagga ggaagatgag gaggaagatg tccccggcca ggccaaggac gagctgtaga 180
gaggcctgcc tccagggctg gactgaggcc tgagcgctcc tgccgcagag ctggccgcgc 240
caaataatgt ctctgtgaga ctcgagaact ttcatttttt tccaggctgg ttcggatttg 300
gggtggattt tggttttggt cccctcctcc actctcccc accccctccc cgcccttttt 360
tttttttttt tttaaactgg tattttatct ttgattctcc ttcagccctc acccctggtt 420
ctcatctttc ttgatcaaca tcttttcttg cctctgtccc cttctctcat ctcttagctc 480
ccctccaacc tggggggcag tgggtgtgag aagccacagg cctgagattt catctgctct 540
ccttcctgga gccagagga gggcagcaga aggggggtgt gtctccaacc cccagcact 600
gaggaagaac ggggctcttc tcatttcacc cctccctttc tcccctgccc ccaggactgg 660
gccacttctg ggtggggcag tgggtcccag attggctcac actgagaatg taagaactac 720
aaacaaaatt tctattaaat taaattttgt gtctcc 756
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<210> 372
 <211> 213
 <212> DNA
 <213> Homo sapiens

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<400> 372
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagcgttta agaggacaag gaggatgatg aggacaaaga tgaggatgag gaggatgagg 120
aggacaagga ggaagatgag gaggaagatg tccccggcca ggccaaggac gagctgtaga 180
gaggcctgcc tccagggctg gactgaggcc tga 213
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<210> 373
 <211> 213
 <212> RNA
 <213> Homo sapiens

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<400> 373
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagcguuua agaggacaag gaggaugaug aggacaaaga ugaggaugag gaggaugagg 120
aggacaagga ggaagaugag gaggaaugaug uccccggcca ggccaaggac gagcuguaga 180
gaggccugcc uccagggcug gacugaggcc uga 213
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<210> 374
 <211> 70
 <212> PRT
 <213> Homo sapiens

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<400> 374
Ala Ala Glu Lys 5 Gln Met Lys Asp Lys 10 Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu 20 Glu Glu Ala Phe Lys 25 Arg Thr Arg Arg Met Met Arg Thr
20 25 30
Lys Met 35 Arg Met Arg Arg Met 40 Arg Thr Arg Arg Lys Met Arg Arg
35 40 45
Lys Met 50 Ser Pro Ala Arg 55 Pro Arg Thr Ser Cys Arg 60 Glu Ala Cys Leu
50 55 60
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eo1f-seq1

Gln Gly Trp Thr Glu Ala
65 70

<210> 375
<211> 774
<212> DNA
<213> Homo sapiens

<400> 375
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaacg caaagaggag gaggaggcag aggacaagga ggatgatgag gacaaagatg 120
aggatgagga ggatgaggag gacaaggagg aagatgagga ggaagatgtc cccggccagg 180
ccaaggacga gctgtagaga ggcctgcctc cagggctgga ctgaggcctg agcgtcctg 240
ccgcagagct ggccgcgcca aataatgtct ctgtgagact cgagaacttt catttttttc 300
caggctggtt cggatttggg gtggattttg gttttgttcc cctcctccac tctccccac 360
cccctccccg cccttttttt tttttttttt taaactggtt ttttatcttt gatttctctt 420
cagccctcac ccctggttct catctttctt gatcaacatc ttttcttgcc tctgtccctt 480
tcttcatct cttagctccc ctccaacctg gggggcagtg gtgtggagaa gccacaggcc 540
tgagatttca tctgctctcc ttcctggagc ccagaggagg gcagcagaag ggggtggtgt 600
ctccaacccc ccagcactga ggaagaacgg ggctcttctc atttcacccc tccctttctc 660
ccctgcccc aggactgggc cacttctggg tggggcagtg ggtcccagat tggctcacac 720
tgagaatgta agaactacaa acaaaatttc tattaaatta aattttgtgt ctcc 774

<210> 376
<211> 231
<212> DNA
<213> Homo sapiens

<400> 376
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaacg caaagaggag gaggaggcag aggacaagga ggatgatgag gacaaagatg 120
aggatgagga ggatgaggag gacaaggagg aagatgagga ggaagatgtc cccggccagg 180
ccaaggacga gctgtagaga ggcctgcctc cagggctgga ctgaggcctg a 231

<210> 377
<211> 231
<212> RNA
<213> Homo sapiens

<400> 377
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacaacg caaagaggag gaggaggcag aggacaagga ggaugaugag gacaaaug 120
aggaugagga ggaugaggag gacaaggagg aagaugagga ggaagauguc cccggccagg 180
ccaaggacga gcuguagaga ggccugccuc cagggcugga cugaggccug a 231

<210> 378
<211> 76

eo1f-seq1

<212> PRT
<213> Homo sapiens

<400> 378
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Glu Asp Asn Ala Lys Arg Arg Arg Arg Gln Arg Thr
20 25 30
Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Thr
35 40 45
Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser
50 55 60
Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 379
<211> 771
<212> DNA
<213> Homo sapiens

<400> 379
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagactgcg tgaggaggag gaggcagagg acaaggagga tgatgaggac aaagatgagg 120
atgaggagga tgaggaggac aaggaggaag atgaggagga agatgtcccc ggccaggcca 180
aggacgagct gtagagaggc ctgcctccag ggctggactg aggcctgagc gctcctgccg 240
cagagctggc cgcgccaaat aatgtctctg tgagactcga gaactttcat ttttttcag 300
gctggttcgg atttggggtg gattttggtt ttgttcccct cctccactct cccccacccc 360
ctccccgccc tttttttttt ttttttttaa actggtatatt tatctttgat tctccttcag 420
ccctcacccc tggttctcat ctttcttgat caacatcttt tcttgccctt gtcccccttct 480
ctcatctctt agctcccctc caacctgggg ggcagtgggtg tggagaagcc acaggcctga 540
gatttcatct gctctccttc ctggagccca gaggagggca gcagaagggg gtggtgtctc 600
caacccccca gactgagga agaacggggc tcttctcatt tcaccctcc ctttctcccc 660
tgcccccagg actgggccac ttctgggtgg ggcagtgggt cccagattgg ctcacactga 720
gaatgtaaga actacaaaca aaatttctat taaattaaat tttgtgtctc c 771

<210> 380
<211> 228
<212> DNA
<213> Homo sapiens

<400> 380
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagactgcg tgaggaggag gaggcagagg acaaggagga tgatgaggac aaagatgagg 120
atgaggagga tgaggaggac aaggaggaag atgaggagga agatgtcccc ggccaggcca 180
aggacgagct gtagagaggc ctgcctccag ggctggactg aggcctga 228

<210> 381
<211> 228
<212> RNA
<213> Homo sapiens

eof-seq1

<400> 381
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacugcg ugaggaggag gaggcagagg acaaggagga ugaugaggac aaagaugagg 120
augaggagga ugaggaggac aaggaggaag augaggagga agaagucccc ggccaggcca 180
aggacgagcu guagagagggc cugccuccag ggcuggacug aggccuga 228

<210> 382
<211> 75
<212> PRT
<213> Homo sapiens

<400> 382
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Asp Cys Val Arg Arg Arg Gln Arg Thr Arg
20 25 30
Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg
35 40 45
Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys
50 55 60
Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 383
<211> 759
<212> DNA
<213> Homo sapiens

<400> 383
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacagga ggcagaggac aaggaggatg atgaggacaa agatgaggat gaggaggatg 120
aggaggacaa ggaggaagat gaggaggaag atgtccccgg ccaggccaag gacgagctgt 180
agagaggcct gcctccaggg ctggactgag gcctgagcgc tcctgccgca gagctggccg 240
cgccaaataa tgtctctgtg agactcgaga actttcattt ttttccaggc tggttcggat 300
ttgggggtgga ttttggtttt gttcccctcc tccactctcc cccaccccct ccccgccctt 360
tttttttttt ttttttaaac tggtatttta tctttgatcc tccttcagcc ctcacccctg 420
gttctcatct ttcttgatca acatcttttc ttgcctctgt ccccttctct catctcttag 480
ctcccctcca acctgggggg cagtgggtgtg gagaagccac aggcctgaga tttcatctgc 540
tctccttcct ggagcccaga ggagggcagc agaagggggt ggtgtctcca acccccagc 600
actgaggaag aacggggctc ttctcatttc acccctccct ttctcccctg cccccaggac 660
tggggcactt ctgggtgggg cagtgggtcc cagattggct cacactgaga atgtaagaac 720
tacaacaaa atttctatta aattaaattt tgtgtctcc 759

<210> 384
<211> 216
<212> DNA
<213> Homo sapiens

<400> 384
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60

eo1f-seq1

gaagacagga ggcagaggac aaggaggatg atgaggacaa agatgaggat gaggaggatg 120
aggaggacaa ggaggaagat gaggaggaag atgtccccgg ccaggccaag gacgagctgt 180
agagaggcct gcctccaggg ctggactgag gcctga 216

<210> 385
<211> 216
<212> RNA
<213> Homo sapiens

<400> 385
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacagga ggcagaggac aaggaggau augaggacaa agauggaggau gaggaggau 120
aggaggacaa ggaggaagau gaggaggaag auguccccgg ccaggccaag gacgagcugu 180
agagaggccu gccuccaggg cuggacugag gccuga 216

<210> 386
<211> 71
<212> PRT
<213> Homo sapiens

<400> 386
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Asp Arg Arg Gln Arg Thr Arg Arg Met Met Arg
20 25 30
Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg
35 40 45
Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys
50 55 60
Leu Gln Gly Trp Thr Glu Ala
65 70

<210> 387
<211> 759
<212> DNA
<213> Homo sapiens

<400> 387
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaaa ggcagaggac aaggaggatg atgaggacaa agatgaggat gaggaggatg 120
aggaggacaa ggaggaagat gaggaggaag atgtccccgg ccaggccaag gacgagctgt 180
agagaggcct gcctccaggg ctggactgag gcctgagcgc tcctgccgca gagctggccg 240
cgccaaataa tgtctctgtg agactcgaga actttcattt ttttccaggc tggttcggat 300
ttgggggtgga ttttggtttt gttcccctcc tccactctcc cccaccccct ccccgccctt 360
tttttttttt ttttttaaac tggtatttta tctttgattc tccttcagcc ctcaccctg 420
gttctcatct ttcttgatca acatcttttc ttgcctctgt ccccttctct catctcttag 480
ctcccctcca acctgggggg cagtgggtgtg gagaagccac aggcctgaga tttcatctgc 540
tctccttcct ggagcccaga ggagggcagc agaaggggggt ggtgtctcca acccccagc 600
actgaggaag aacggggctc ttctcatttc acccctccct ttctcccctg ccccaggac 660
tgggccactt ctgggtgggg cagtgggtcc cagattggct cacactgaga atgtaagaac 720

eo1f-seq1

tacaaacaaa atttctatta aattaaattt tgtgtctcc 759

<210> 388
<211> 216
<212> DNA
<213> Homo sapiens

<400> 388
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaaa ggcagaggac aaggaggatg atgaggacaa agatgaggat gaggaggatg 120
aggaggacaa ggaggaagat gaggaggaag atgtccccgg ccaggccaag gacgagctgt 180
agagaggcct gcctccaggg ctggactgag gcctga 216

<210> 389
<211> 216
<212> RNA
<213> Homo sapiens

<400> 389
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacaaaa ggcagaggac aaggaggaug augaggacaa agauggaggau gaggaggaug 120
aggaggacaa ggaggaagau gaggaggaag auguccccgg ccaggccaag gacgagcugu 180
agagaggccu gccuccaggg cuggacugag gccuga 216

<210> 390
<211> 71
<212> PRT
<213> Homo sapiens

<400> 390
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Asp Lys Arg Gln Arg Thr Arg Arg Met Met Arg
20 25 30
Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg
35 40 45
Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys
50 55 60
Leu Gln Gly Trp Thr Glu Ala
65 70

<210> 391
<211> 777
<212> DNA
<213> Homo sapiens

<400> 391
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaaa acgcaaagag gaggaggagg cagaggacaa ggaggatgat gaggacaaag 120
atgaggatga ggaggatgag gaggacaagg aggaagatga ggaggaagat gtccccggcc 180
aggccaagga cgagctgtag agaggcctgc ctccagggct ggactgaggc ctgagcgctc 240
ctgccgcaga gctggccgcg ccaaataatg tctctgtgag actcgagaac tttcattttt 300
ttccaggctg gttcggattt ggggtggatt ttggttttgt tcccctctc cactctcccc 360

eof-seq1

cacccccctcc ccgccctttt tttttttttt ttttaaactg gtattttatc tttgattctc 420
 cttcagccct cacccttggg tctcatcttt cttgatcaac atcttttctt gcctctgtcc 480
 ctttctctca tctcttagct cccctccaac ctggggggca gtgggtgtgga gaagccacag 540
 gcctgagatt tcatctgctc tccttcctgg agcccagagg agggcagcag aagggggtgg 600
 tgtctccaac cccccagcac tgaggaagaa cggggctctt ctcatttcac ccctcccttt 660
 ctcccctgcc cccaggactg ggccacttct ggggtggggca gtgggtccca gattggctca 720
 cactgagaat gtaagaacta caaacaaaat ttctattaaa ttaaattttg tgtctcc 777

<210> 392
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 392
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
 gaagacaaaa acgcaaagag gaggaggagg cagaggacaa ggaggatgat gaggacaaag 120
 atgaggatga ggaggatgag gaggacaagg aggaagatga ggaggaagat gtccccggcc 180
 aggccaagga cgagctgtag agaggcctgc ctccagggct ggactgaggc ctga 234

<210> 393
 <211> 234
 <212> RNA
 <213> Homo sapiens

<400> 393
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
 gaagacaaaa acgcaaagag gaggaggagg cagaggacaa ggaggaugau gaggacaaag 120
 augaggauga ggaggaugag gaggacaagg aggaagauga ggaggaagau guccccggcc 180
 aggccaagga cgagcuguag agaggccugc cuccagggcu ggacugaggc cuga 234

<210> 394
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 394
 Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
 1 5 10 15
 Lys Glu Glu Glu Glu Asp Lys Asn Ala Lys Arg Arg Arg Arg Gln Arg
 20 25 30
 Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg
 35 40 45
 Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr
 50 55 60
 Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
 65 70 75

<210> 395
 <211> 780
 <212> DNA
 <213> Homo sapiens

eo1f-seq1

<400> 395
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaagt gtttcgcaaa gaggaggagg aggcagagga caaggaggat gatgaggaca 120
aagatgagga tgaggaggat gaggaggaca aggaggaaga tgaggaggaa gatgtccccg 180
gccaggccaa ggacgagctg tagagaggcc tgcctccagg gctggactga ggcctgagcg 240
ctcctgccgc agagctggcc gcgcaaata atgtctctgt gagactcgag aactttcatt 300
tttttccagg ctggttcgga tttggggtgg attttggttt tgttcccctc ctccactctc 360
ccccacccc tccccgcctt tttttttttt tttttttaa ctggtatttt atctttgatt 420
ctccttcagc cctcacccct ggttctcatc tttcttgatc aacatctttt cttgcctctg 480
tcccccttct tcattcttta gctcccctcc aacctggggg gcagtgggtgt ggagaagcca 540
caggcctgag atttcatctg ctctccttcc tggagcccag aggagggcag cagaaggggg 600
tggtgtctcc aacccccag cactgaggaa gaacggggct cttctcattt caccctccc 660
tttctcccct gccccagga ctgggccact tctgggtggg gcagtgggtc ccagattggc 720
tcacactgag aatgtaagaa ctacaaacaa aatttctatt aaattaaatt ttgtgtctcc 780

<210> 396
<211> 237
<212> DNA
<213> Homo sapiens

<400> 396
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaagt gtttcgcaaa gaggaggagg aggcagagga caaggaggat gatgaggaca 120
aagatgagga tgaggaggat gaggaggaca aggaggaaga tgaggaggaa gatgtccccg 180
gccaggccaa ggacgagctg tagagaggcc tgcctccagg gctggactga ggcctga 237

<210> 397
<211> 237
<212> RNA
<213> Homo sapiens

<400> 397
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacaagu guuucgcaaa gaggaggagg aggcagagga caaggaggau gaugaggaca 120
aagaugagga ugaggaggau gaggaggaca aggaggaaga ugaggaggaa gauguccccg 180
gccaggccaa ggacgagcug uagagaggcc ugccuccagg gcuggacuga ggccuga 237

<210> 398
<211> 78
<212> PRT
<213> Homo sapiens

<400> 398
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Glu Asp Lys Cys Phe Ala Lys Arg Arg Arg Arg Gln
20 25 30

eo1f-seq1

Arg Thr Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg
 35 40 45
 Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg
 50 55 60
 Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
 65 70 75

<210> 399
 <211> 756
 <212> DNA
 <213> Homo sapiens

<400> 399
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
 gaagacaaga aacgcaaaag gaggatgatg aggacaaaga tgaggatgag gaggatgagg 120
 aggacaagga ggaagatgag gaggaagatg tccccggcca ggccaaggac gagctgtaga 180
 gaggcctgcc tccagggctg gactgaggcc tgagcgctcc tgccgcagag ctggccgcgc 240
 caaataatgt ctctgtgaga ctcgagaact ttcatttttt tccaggctgg ttcggatttg 300
 ggggtggattt tggttttgtt cccctcctcc actctcccc accccctccc cgcccttttt 360
 tttttttttt tttaaactgg tattttatct ttgattctcc ttcagccctc acccctgggt 420
 ctcatctttc ttgatcaaca tcttttcttg cctctgtccc cttctctcat ctcttagctc 480
 ccctccaacc tggggggcag tgggtgtggag aagccacagg cctgagattt catctgctct 540
 ccttcctgga gccagagga gggcagcaga aggggggtggt gtctccaacc cccagcact 600
 gaggaagaac ggggctcttc tcatttcacc cctccctttc tcccctgccc ccaggactgg 660
 gccacttctg ggtggggcag tgggtcccag attggctcac actgagaatg taagaactac 720
 aaacaaaatt tctattaaat taaattttgt gtctcc 756

<210> 400
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 400
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
 gaagacaaga aacgcaaaag gaggatgatg aggacaaaga tgaggatgag gaggatgagg 120
 aggacaagga ggaagatgag gaggaagatg tccccggcca ggccaaggac gagctgtaga 180
 gaggcctgcc tccagggctg gactgaggcc tga 213

<210> 401
 <211> 213
 <212> RNA
 <213> Homo sapiens

<400> 401
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
 gaagacaaga aacgcaaaag gaggaugaug aggacaaaga ugaggaugag gaggaugagg 120
 aggacaagga ggaagaugag gaggaugaug uccccggcca ggccaaggac gagcuguaga 180
 gaggccugcc uccagggcug gacugaggcc uga 213

eof-seq1

<210> 402
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 402
 Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
 1 5 10 15
 Lys Glu Glu Glu Glu Asp Lys Lys Arg Lys Arg Arg Met Met Arg Thr
 20 25 30
 Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg Arg Lys Met Arg Arg
 35 40 45
 Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys Arg Glu Ala Cys Leu
 50 55 60
 Gln Gly Trp Thr Glu Ala
 65 70

<210> 403
 <211> 774
 <212> DNA
 <213> Homo sapiens

<400> 403
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
 gaagacaaga aacgcaaaga gcctcctctt tgtctaagga ggatgatgag gacaaagatg 120
 aggatgagga ggatgaggag gacaaggagg aagatgagga ggaagatgtc cccggccagg 180
 ccaaggacga gctgtagaga ggcctgcctc cagggctgga ctgaggcctg agcgctcctg 240
 ccgcagagct ggccgcgcca aataatgtct ctgtgagact cgagaacttt catttttttc 300
 caggctgggtt cggatttggg gtggattttg gttttgttcc cctcctccac tctccccac 360
 cccctccccg cccttttttt tttttttttt taaactggta ttttatcttt gattctcctt 420
 cagccctcac ccctggttct catctttctt gatcaacatc ttttcttgcc tctgtcccct 480
 tcttcatct cttagctccc ctccaacctg gggggcagtg gtgtggagaa gccacaggcc 540
 tgagatttca tctgctctcc ttcctggagc ccagaggagg gcagcagaag ggggtggtgt 600
 ctccaacccc ccagcactga ggaagaacgg ggctcttctc atttcacccc tccctttctc 660
 ccctgcccc aggactgggc cacttctggg tggggcagtg ggtcccagat tggctcacac 720
 tgagaatgta agaactacaa acaaaatttc tattaaatta aattttgtgt ctcc 774

<210> 404
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 404
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
 gaagacaaga aacgcaaaga gcctcctctt tgtctaagga ggatgatgag gacaaagatg 120
 aggatgagga ggatgaggag gacaaggagg aagatgagga ggaagatgtc cccggccagg 180
 ccaaggacga gctgtagaga ggcctgcctc cagggctgga ctgaggcctg a 231

<210> 405

eo1f-seq1

<211> 231
<212> RNA
<213> Homo sapiens

<400> 405
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacaaga aacgcaaaga gccuccucuu ugucuaagga ggaugaugag gacaaagaug 120
aggaugagga ggaugaggag gacaaggagg aagaugagga ggaagauguc cccggccagg 180
ccaaggacga gcuguagaga ggccugccuc cagggcugga cugaggccug a 231

<210> 406
<211> 76
<212> PRT
<213> Homo sapiens

<400> 406
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Glu Asp Lys Lys Arg Lys Glu Pro Pro Leu Cys Leu
20 25 30
Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr
35 40 45
Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser
50 55 60
Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 407
<211> 771
<212> DNA
<213> Homo sapiens

<400> 407
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaccatcct tgtcggagga tgatgaggac aaagatgagg 120
atgaggagga tgaggaggac aaggaggaag atgaggagga agatgtcccc ggccaggcca 180
aggacgagct gtagagaggc ctgcctccag ggctggactg aggcctgagc gtcctgccg 240
cagagctggc cgcgccaaat aatgtctctg tgagactcga gaactttcat ttttttccag 300
gctggttcgg atttggggtg gatttttggtt ttgttcccct cctccactct cccccacccc 360
ctccccgccc tttttttttt ttttttttaa actggtatatt tatctttgat tctccttcag 420
ccctcacccc tggttctcat ctttcttgat caacatcttt tcttgccctct gtccccctct 480
ctcatctctt agctcccctc caacctgggg ggcagtgggtg tggagaagcc acaggcctga 540
gatttcatct gctctccttc ctggagccca gaggagggca gcagaagggg gtggtgtctc 600
caacccccca gactgagga agaacggggc tcttctcatt tcaccctcc ctttctcccc 660
tgcccccagg actgggccac ttctgggtgg ggcagtgggt cccagattgg ctcacactga 720
gaatgtaaga actacaaaca aaatttctat taaattaaat tttgtgtctc c 771

<210> 408
<211> 228
<212> DNA
<213> Homo sapiens

eo1f-seq1

<400> 408
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaccatcct tgtcggagga tgatgaggac aaagatgagg 120
atgaggagga tgaggaggac aaggaggaag atgaggagga agatgtcccc ggccaggcca 180
aggacgagct gtagagaggc ctgcctccag ggctggactg aggcctga 228

<210> 409
<211> 228
<212> RNA
<213> Homo sapiens

<400> 409
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaccauccu ugucggagga ugaugaggac aaagaugagg 120
augaggagga ugaggaggac aaggaggaag augaggagga agaugucccc ggccaggcca 180
aggacgagcu guagagaggc cugccuccag ggcuggacug aggccuga 228

<210> 410
<211> 75
<212> PRT
<213> Homo sapiens

<400> 410
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Glu Asp Lys Lys Arg Lys Glu Asp His Pro Cys Arg
20 25 30
Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg Arg Thr Arg
35 40 45
Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg Thr Ser Cys
50 55 60
Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 411
<211> 783
<212> DNA
<213> Homo sapiens

<400> 411
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagagggca attgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240
gcgctcctgc cgagagctg gccgcgcaa ataatgtctc tgtgagactc gagaactttc 300
atTTTTTTcc aggctggttc ggatttgggg tggattttgg ttttgtttcc ctctccact 360
ctccccacc ccctccccgc cttttttttt tttttttttt aaactggtat tttatctttg 420
attctccttc agccctcacc cctggttctc atctttcttg atcaacatct tttcttgccct 480
ctgtcccctt ctctcatctc ttagctcccc tccaacctgg ggggcagtgg tgtggagaag 540
ccacaggcct gagatttcat ctgctctcct tcctggagcc cagaggaggg cagcagaagg 600

eof-seq1

gggtggtgtc tccaaccccc cagcactgag gaagaacggg gctcttctca tttcacccct 660
ccctttctcc cctgccccca ggactgggcc acttctgggt ggggcagtgg gtcccagatt 720
ggctcacact gagaatgtaa gaactacaaa caaaatttct attaaattaa attttgtgtc 780
tcc 783

<210> 412
<211> 240
<212> DNA
<213> Homo sapiens

<400> 412
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagagggca attgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240

<210> 413
<211> 240
<212> RNA
<213> Homo sapiens

<400> 413
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagagggca auugucggag gaugaugagg 120
acaaagauga ggaugaggag gaugaggagg acaaggagga agauggaggag gaagaugucc 180
ccggccaggc caaggacgag cuguagagag gccugccucc agggcuggac ugaggccuga 240

<210> 414
<211> 79
<212> PRT
<213> Homo sapiens

<400> 414
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu
20 25 30
Gly Asn Cys Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met
35 40 45
Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro
50 55 60
Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 415
<211> 780
<212> DNA
<213> Homo sapiens

<400> 415
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagaggact gtcggaggat gatgaggaca 120
aagatgagga tgaggaggat gaggaggaca aggaggaaga tgaggaggaa gatgtccccg 180

eof-seq1

gccaggccaa ggacgagctg tagagaggcc tgcctccagg gctggactga ggcctgagcg 240
 ctctgcccgc agagctggcc gcgcaaata atgtctctgt gagactcgag aactttcatt 300
 tttttccagg ctgggttcgga tttgggggtg attttggttt tgttcccctc ctccactctc 360
 cccaccccc tccccgcct tttttttttt tttttttaa ctggtatttt atctttgatt 420
 ctctttcagc cctcacccct ggttctcatc tttcttgatc aacatctttt cttgcctctg 480
 tcccccttc tcatctctta gctcccctcc aacctggggg gcagtgggtg ggagaagcca 540
 caggcctgag atttcatctg ctctccttcc tggagcccag aggagggcag cagaaggggg 600
 tgggtgtctc aacccccag cactgaggaa gaacggggct cttctcattt caccctccc 660
 tttctcccct gccccagga ctgggccact tctgggtggg gcagtgggtc ccagattggc 720
 tcacactgag aatgtaagaa ctacaaacaa aatttctatt aaattaaatt ttgtgtctcc 780

<210> 416
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 416
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
 gaagacaaga aacgcaaaga ggaggaggag gcagaggact gtcggaggat gatgaggaca 120
 aagatgagga tgaggaggat gaggaggaca aggaggaaga tgaggaggaa gatgtccccg 180
 gccaggccaa ggacgagctg tagagaggcc tgcctccagg gctggactga ggcctga 237

<210> 417
 <211> 237
 <212> RNA
 <213> Homo sapiens

<400> 417
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
 gaagacaaga aacgcaaaga ggaggaggag gcagaggacu gucggaggau gaugaggaca 120
 aaugagga ugaggaggau gaggaggaca aggaggaaga ugaggaggaa gauguccccg 180
 gccaggccaa ggacgagcug uagagaggcc ugccuccagg gcuggacuga ggccuga 237

<210> 418
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 418
 Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
 1 5 10 15
 Lys Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu
 20 25 30
 Asp Cys Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met Arg
 35 40 45
 Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro Arg
 50 55 60
 Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
 65 70 75

eo1f-seq1

<210> 419
 <211> 783
 <212> DNA
 <213> Homo sapiens

<400> 419
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
 gaagacaaga aacgcaaaga ggaggaggag gcagaggaca aatgtcggag gatgatgagg 120
 acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
 ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240
 gcgctcctgc cgcagagctg gccgcgcca ataatgtctc tgtgagactc gagaactttc 300
 atttttttcc aggctggttc ggatttgagg tggattttgg ttttgttccc ctctccact 360
 ctccccacc ccctccccgc cttttttttt tttttttttt aaactggtat tttatctttg 420
 attctccttc agccctcacc cctggttctc atctttcttg atcaacatct tttcttgctt 480
 ctgtccccctt ctctcatctc ttagctcccc tccaacctgg ggggcagtgg tgtggagaag 540
 ccacaggcct gagatttcat ctgctctcct tcctggagcc cagaggaggg cagcagaagg 600
 ggggtggtgtc tccaaccccc cagcactgag gaagaacggg gctctttctca tttcacccct 660
 ccctttctcc cctgccccca ggactgggcc acttctgggt ggggcagtgg gtcccagatt 720
 ggctcacact gagaatgtaa gaactacaaa caaaatttct attaaattaa attttgtgtc 780
 tcc 783

<210> 420
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 420
 gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
 gaagacaaga aacgcaaaga ggaggaggag gcagaggaca aatgtcggag gatgatgagg 120
 acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
 ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240

<210> 421
 <211> 240
 <212> RNA
 <213> Homo sapiens

<400> 421
 gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
 gaagacaaga aacgcaaaga ggaggaggag gcagaggaca aaugucggag gaugaugagg 120
 acaaagauga ggaugaggag gaugaggagg acaaggagga agauggaggag gaagaugucc 180
 ccggccaggc caaggacgag cuguagagag gccugccucc agggcuggac ugaggccuga 240

<210> 422
 <211> 79

eo1f-seq1

<212> PRT
<213> Homo sapiens

<400> 422
Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu
1 5 10 15
Lys Glu Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu
20 25 30
Asp Lys Cys Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met
35 40 45
Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro
50 55 60
Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 423
<211> 783
<212> DNA
<213> Homo sapiens

<400> 423
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagaggaca cttgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240
gcgctcctgc cgcagagctg gccgcgcca ataatgtctc tgtgagactc gagaactttc 300
atTTTTTtcc aggctggttc ggatttgggg tggatttttg ttttgtttcc ctctccact 360
ctccccacc ccctccccgc cttttttttt tttttttttt aaactggtat tttatctttg 420
attctccttc agccctcacc cctggttctc atctttcttg atcaacatct tttcttgcct 480
ctgtcccctt ctctcatctc ttagctcccc tccaacctgg ggggcagtgg tgtggagaag 540
ccacaggcct gagatttcat ctgctctcct tcctggagcc cagaggaggg cagcagaagg 600
gggtggtgtc tccaaccccc cagcactgag gaagaacggg gctctttctca tttcaccctt 660
ccctttctcc cctgccccca ggactgggcc acttctgggt ggggcagtgg gtcccagatt 720
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tcc 783

<210> 424
<211> 240
<212> DNA
<213> Homo sapiens

<400> 424
gcagcagaga aacaaatgaa ggacaaacag gacgaggagc agaggcttaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagaggaca cttgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240

<210> 425
<211> 240
<212> RNA

eo1f-seq1

<213> Homo sapiens

<400> 425

gcagcagaga	aacaaugaa	ggacaaacag	gacgaggagc	agaggcuuaa	ggaggaggaa	60
gaagacaaga	aacgcaaaga	ggaggaggag	gcagaggaca	cuugucggag	gaugaugagg	120
acaaagauga	ggaugaggag	gaugaggagg	acaaggagga	agaugaggag	gaagaugucc	180
ccggccaggc	caaggacgag	cuguagagag	gccugccucc	agggcuggac	ugaggccuga	240

<210> 426

<211> 79

<212> PRT

<213> Homo sapiens

<400> 426

Ala	Ala	Glu	Lys	Gln	Met	Lys	Asp	Lys	Gln	Asp	Glu	Glu	Gln	Arg	Leu
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Lys	Glu	Glu	Glu	Glu	Asp	Lys	Lys	Arg	Lys	Glu	Glu	Glu	Glu	Ala	Glu
			20					25					30		
Asp	Thr	Cys	Arg	Arg	Met	Met	Arg	Thr	Lys	Met	Arg	Met	Arg	Arg	Met
		35					40					45			
Arg	Arg	Thr	Arg	Arg	Lys	Met	Arg	Arg	Lys	Met	Ser	Pro	Ala	Arg	Pro
		50				55					60				
Arg	Thr	Ser	Cys	Arg	Glu	Ala	Cys	Leu	Gln	Gly	Trp	Thr	Glu	Ala	
65					70					75					

<210> 427

<211> 783

<212> DNA

<213> Homo sapiens

<400> 427

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acaaagatga	ggatgaggag	gatgaggagg	acaaggagga	agatgaggag	gaagatgtcc	180
ccggccaggc	caaggacgag	ctgtagagag	gcctgcctcc	agggctggac	tgaggcctga	240
gcgctcctgc	cgcagagctg	gccgcgccaa	ataatgtctc	tgtgagactc	gagaactttc	300
atttttttcc	aggctggttc	ggatttgggg	tggattttgg	ttttgtttcc	ctcctccact	360
ctccccacc	ccctccccgc	cctttttttt	tttttttttt	aaactggtat	tttatctttg	420
attctccttc	agccctcacc	cctggttctc	atctttcttg	atcaacatct	tttcttgcct	480
ctgtccccct	ctctcatctc	ttagctcccc	tccaacctgg	ggggcagtgg	tgtggagaag	540
ccacaggcct	gagatttcat	ctgctctcct	tcctggagcc	cagaggaggg	cagcagaagg	600
gggtggtgtc	tccaaccccc	cagcactgag	gaagaacggg	gctctttctca	tttcaccctt	660
ccctttctcc	cctgccccca	ggactggggc	acttctgggt	ggggcagtgg	gtcccagatt	720
ggctcacact	gagaatgtaa	gaactacaaa	caaaatttct	attaaattaa	attttgtgtc	780
tcc						783

<210> 428

<211> 240

<212> DNA

<213> Homo sapiens

eo1f-seq1

<400> 428
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gaagacaaga aacgcaaaga ggaggaggag gcagaggaca tttgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240

<210> 429
<211> 240
<212> RNA
<213> Homo sapiens

<400> 429
gcagcagaga aacaaaugaa ggacaaacag gacgaggagc agaggcuuaa ggaggaggaa 60
gaagacaaga aacgcaaaga ggaggaggag gcagaggaca uuugucggag gaugaugagg 120
acaaagauga ggaugaggag gaugaggagg acaaggagga agauggaggag gaagaugucc 180
ccggccaggc caaggacgag cuguagagag gccugccucc agggcuggac ugaggccuga 240

<210> 430
<211> 79
<212> PRT
<213> Homo sapiens

<400> 430
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Lys Glu Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu
20 25 30
Asp Ile Cys Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met
35 40 45
Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro
50 55 60
Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 431
<211> 783
<212> DNA
<213> Homo sapiens

<400> 431
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gaagacaaga aacgcaaaga ggaggaggag gcagaggaca agtgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240
gcgctcctgc cgagagctg gccgcgcaa ataattgtctc tgtgagactc gagaactttc 300
atTTTTTTcc aggctggttc ggatttgggg tggatttttg ttttgtttcc ctctccact 360
ctccccacc ccctccccgc cttttttttt tttttttttt aaactggtat tttatctttg 420
attctccttc agccctcacc cctggttctc atctttcttg atcaacatct tttcttgccct 480
ctgtcccctt ctctcatctc ttagctcccc tccaacctgg ggggcagtgg tgtggagaag 540
ccacaggcct gagatttcat ctgctctcct tcctggagcc cagaggaggg cagcagaagg 600

eo1f-seq1

gggtggtgtc tccaaccccc cagcactgag gaagaacggg gctctttctca tttcaccctt 660
ccctttctcc cctgccccca ggactgggcc atttctgggt ggggcagtgg gtcccagatt 720
ggctcacact gagaatgtaa gaactacaaa caaaatttct attaaattaa attttgtgtc 780
tcc 783

<210> 432
<211> 240
<212> DNA
<213> Homo sapiens

<400> 432
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gaagacaaga aacgcaaaga ggaggaggag gcagaggaca agtgtcggag gatgatgagg 120
acaaagatga ggatgaggag gatgaggagg acaaggagga agatgaggag gaagatgtcc 180
ccggccaggc caaggacgag ctgtagagag gcctgcctcc agggctggac tgaggcctga 240

<210> 433
<211> 240
<212> RNA
<213> Homo sapiens

<400> 433
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gaagacaaga aacgcaaaga ggaggaggag gcagaggaca agugucggag gaugaugagg 120
acaaagauga ggaugaggag gaugaggagg acaaggagga agauggaggag gaagaugucc 180
ccggccaggc caaggacgag cuguagagag gccugccucc agggcuggac ugaggccuga 240

<210> 434
<211> 79
<212> PRT
<213> Homo sapiens

<400> 434
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1 5 10 15
Lys Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu
20 25 30
Asp Lys Cys Arg Arg Met Met Arg Thr Lys Met Arg Met Arg Arg Met
35 40 45
Arg Arg Thr Arg Arg Lys Met Arg Arg Lys Met Ser Pro Ala Arg Pro
50 55 60
Arg Thr Ser Cys Arg Glu Ala Cys Leu Gln Gly Trp Thr Glu Ala
65 70 75

<210> 435
<211> 778
<212> DNA
<213> Homo sapiens

<400> 435
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gaagacaaga aacgcaaaga ggaggaggag gcagaggaca aggaggatga tgaggacaaa 120
gatgaggatg aggaggatga ggaggacaag gaggaagatg aggaggaaga tgtccccggc 180

eo1f-seq1

caggccaagg acgagctgta gagaggcctg cctccagggc tggactgagg cctgagcgct 240
cctgccgcag agctggccgc gccaaataat gtctctgtga gactcgagaa ctttcatttt 300
tttccaggct ggttcggatt tgggggtggat tttggttttg ttcccctcct ccactctccc 360
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ccttcagccc tcacccttggt ttctcatctt tcttgatcaa catcttttct tgcctctgtc 480
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ggcctgagat ttcatctgct ctcttctctg gagcccagag gagggcagca gaaggggggtg 600
gtgtctccaa ccccccagca ctgaggaaga acggggctct tctcatttca cccctccctt 660
tctcccctgc ccccaggact gggccacttc tgggtggggc agtgggtccc agattggctc 720
aactgagaa tgtaagaact acaaacaaa tttctattaa attaaatttt gtgtctcc 778

<210> 436
<211> 66
<212> PRT
<213> Homo sapiens

<400> 436
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1 5 10 15
Lys Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu
20 25 30
Asp Lys Glu Asp Asp Glu Asp Lys Asp Glu Asp Glu Glu Asp Glu Glu
35 40 45
Asp Lys Glu Glu Asp Glu Glu Glu Asp Val Pro Gly Gln Ala Lys Asp
50 55 60
Glu Leu
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<210> 437
<211> 21
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<220>
<223> forward primer

<400> 437
acaacttcct catcaccaac g 21

<210> 438
<211> 18
<212> DNA
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<220>
<223> reverse primer

<400> 438
ggcctcagtc cagccctg 18

<210> 439
<211> 18
<212> DNA
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eo1f-seq1

<220>
 <223> forward primer

<400> 439
 ggcaaggccc tgaggtgt 18

<210> 440
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 <212> DNA
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<400> 440
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<210> 441
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 441
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<210> 442
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 <212> DNA
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<400> 442
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<210> 443
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<400> 443
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<210> 444
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<400> 444
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<400> 445
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<400> 446
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eo1f-seq1

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<400> 447
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<400> 448
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<400> 449
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<400> 451
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<400> 452
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<210> 453
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<400> 453
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eo1f-seq1

<213> Homo sapiens

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<210> 456
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<400> 456
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<210> 457
<211> 42
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<400> 457
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<210> 458
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<400> 458
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<210> 459
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<400> 459
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<210> 460
<211> 48
<212> DNA
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<400> 460
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<210> 461
<211> 42
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<213> Homo sapiens

<400> 461
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eo1f-seq1

<210> 462
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 <400> 462
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 <210> 464
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 <400> 464
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 <210> 467
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 <400> 467
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 <212> DNA
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eo1f-seq1

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<210> 475		
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eo1f-seq1

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eo1f-seq1

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 <400> 510
 ggacaattgt cggaggatga t 21

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 <400> 513
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 <210> 514
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eo1f-seq1

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<400> 516
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<210> 517
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<400> 517
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<210> 520
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<210> 521
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<223> Description of Artificial Sequence: Synthetic reverse primer

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20

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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic reverse primer

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23

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic forward primer

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic reverse primer

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<223> Description of Artificial Sequence: Synthetic reverse primer

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eolf-seq1

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<212> DNA
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<212> DNA
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<210> 1351
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eo1f-seq1

acid sequence of mutant
calreticulin protein

<400> 1351

Arg	Arg	Lys	Met	Ser	Pro	Ala	Arg	Pro	Arg	Thr	Ser	Cys	Arg	Glu	Ala
1				5				10						15	
Cys	Leu	Gln	Gly	Trp	Thr	Glu	Ala								
			20												