

eolf-seq1
SEQUENCE LISTING

<110> SANOFI
<120> ANTIBODY FORMULATIONS
<130> US2016/011 US PCT; 15-2048-WO
<150> US 62/358,404
<151> 2016-07-05
<150> EP 16306090.8
<151> 2016-07-30
<160> 69
<170> PatentIn version 3.5
<210> 1
<211> 36
<212> PRT
<213> Homo sapiens
<400> 1

Met Asn Tyr Pro Thr Leu Glu Met Asp Leu Glu Asn Leu Glu Asp Leu
1 5 10 15

Phe Trp Glu Leu Asp Arg Leu Asp Asn Tyr Asn Thr Ser Leu Val Glu
 20 25 30

Asn His Leu Cys
 35

<210> 2
<211> 32
<212> DNA
<213> Artificial Sequence

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

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, or t

<400> 2
cttccggaat tcsargtnma gctgsagsag tc

32

<210> 3
<211> 35
<212> DNA
<213> Artificial Sequence

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

eolf-seq1

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, or t

<400> 3
cttccggaat tcsargtnma gctgsagsag tcwgg 35

<210> 4
<211> 36
<212> DNA
<213> Artificial Sequence

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

<400> 4
ggaggatcca tagacagatg ggggtgctgt tttggc 36

<210> 5
<211> 31
<212> DNA
<213> Artificial Sequence

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

<400> 5
ggagctcgay attgtgmtsa cmcarwctmc a 31

<210> 6
<211> 46
<212> DNA
<213> Artificial Sequence

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

<400> 6
tatagagctc aagcttggat ggtgggaaga tggatacagt tggtgc 46

<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence

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

<400> 7
ccaagctgtg tcctrtcc 18

<210> 8
<211> 32
<212> DNA
<213> Artificial Sequence

eolf-seq1

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

<400> 8
 cgacaagtcg actagccctt gaccagcat cc 32

<210> 9
 <211> 18
 <212> DNA
 <213> Artificial Sequence

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

<400> 9
 wtctctrgag tcagtggg 18

<210> 10
 <211> 32
 <212> DNA
 <213> Artificial Sequence

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

<400> 10
 cgactagtcg actggtggga agatggatac ag 32

<210> 11
 <211> 112
 <212> PRT
 <213> Mus sp.

<400> 11

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

Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
 20 25 30

Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
 35 40 45

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
 50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
 85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

eolf-seq1

100

105

110

<210> 12
 <211> 111
 <212> PRT
 <213> Mus sp.

<400> 12

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

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

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

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

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

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

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

<210> 13
 <211> 112
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 13

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

Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
 20 25 30

Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
 35 40 45

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
 50 55 60

e0lf-seq1

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 14
<211> 112
<212> PRT
<213> Artificial Sequence

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

<400> 14

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

Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
20 25 30

Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 15
<211> 113
<212> PRT
<213> Artificial Sequence

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

<400> 15

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

e0lf-seq1

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

Lys

<210> 16
<211> 111
<212> PRT
<213> Artificial sequence
<220>
<223> Description of Artificial sequence: Synthetic polypeptide
<400> 16

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

e0lf-seq1

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

<210> 17

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 17

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

Val His Ser Asp Ile Val Met Thr Gln Ser Ala Leu Ser Val Ala Val
 20 25 30

Thr Pro Gly Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu
 35 40 45

Leu His Ser Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro
 50 55 60

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser
 65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr
 85 90 95

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
 100 105 110

Met Gln His Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
 115 120 125

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
 130 135 140

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

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn
 165 170 175

Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser
 180 185 190

e0lf-seq1

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala
195 200 205

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly
210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 18
<211> 731
<212> DNA
<213> Artificial Sequence

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

<400> 18
gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg 60
cacagcgaca tcgtgatgac ccagagcgcc ctcagcgtgg ccgtgacccc cggcgagagc 120
gtgagcatca gctgccgcag cagcaagagc ctgctgcaca gcagcggcaa gacctacctg 180
tactggttcc tgcagcgcgc cggccagagc ccccagctgc tgatctaccg catgagcaac 240
ctggccagcg gcgtgcccga ccgcttcagc ggcagcggca gcggcaccgc cttcacctg 300
aagatcagcc gcgtggaggc cgaggacgtg ggcgtgtact actgcatgca gcacctggag 360
taccctaca ccttcggcgg cggcaccaag ctggagatca agcgtacggg ggccgctcct 420
tccgtgttca tcttcctcc ctccgacgag cagctgaagt ccggcaccgc ctccgtggtg 480
tgtctgctga acaacttcta ccctcgggag gccaaggtgc agtggaaggt ggacaacgcc 540
ctgcagtccg gcaactccca ggagtcctgc accgagcagg actccaagga cagcacctac 600
tccctgtcct ccaccctgac cctgtccaag gccgactacg agaagcacia ggtgtacgcc 660
tgtgaggtga cccaccaggg cctgtccagc cctgtgacca agtccttcaa ccggggcgag 720
tgctgaagct t 731

<210> 19
<211> 238
<212> PRT
<213> Artificial Sequence

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

<400> 19

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

Val His Ser Asp Ile Val Met Thr Gln Ser Ala Leu Ser Val Ala Val
Page 8

e01f-seq1

<400> 20
gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg 60
cacagcgaca tcgtgatgac ccagagcgcc ctcagcgtgg ccgtgacccc cggcgagagc 120
gtgagcatca gctgcccgag cagcaagagc ctgctgcaca gcagcggcaa gacctacctg 180
tactggttcc tgcagcgcgc cggccagagc ccccagctgc tgatctaccg cctgagcaac 240
ctggccagcg gcgtgcccga ccgcttcagc ggcagcggca gcggcaccgc cttcacctg 300
aagatcagcc gcgtggaggc cgaggacgtg ggcgtgtact actgcatgca gcacctggag 360
taccctaca ccttcggcgg cggcaccaag ctggagatca agcgtacggt ggccgctcct 420
tccgtgttca tcttcctcc ctccgacgag cagctgaagt ccggcaccgc ctccgtggtg 480
tgtctgctga acaacttcta ccctcgggag gccaaaggtgc agtggaaggt ggacaacgcc 540
ctgcagtccg gcaactcca ggagtccgtc accgagcagg actccaagga cagcacctac 600
tcctgtcct ccaccctgac cctgtccaag gccgactacg agaagcaciaa ggtgtacgcc 660
tgtgaggtga cccaccaggg cctgtccagc cctgtgacca agtccttcaa ccggggcgag 720
tgctgaagct t 731

<210> 21
<211> 238
<212> PRT
<213> Artificial Sequence

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

<400> 21

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

Val His Ser Asp Ile Val Met Thr Gln Ser Ala Leu Ser Val Ala Val
20 25 30

Thr Pro Gly Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu
35 40 45

Leu His Ser Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro
50 55 60

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Leu Ser Ser Leu Ala Ser
65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr
85 90 95

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys

e01f-seq1

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

<210> 22
 <211> 731
 <212> DNA
 <213> Artificial Sequence

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

<400> 22																	
gctagcacca	tgggctggag	ctgcatcatc	ctgttcctgg	tggccaccgc	caccggcgtg												60
cacagcgaca	tcgtgatgac	ccagagcgcc	ctcagcgtgg	ccgtgacccc	cggcgagagc												120
gtgagcatca	gctgccgcag	cagcaagagc	ctgctgcaca	gcagcggcaa	gacctacctg												180
tactggttcc	tgacgcgcc	cggccagagc	ccccagctgc	tgatctaccg	cctgagcagc												240
ctggccagcg	gcgtgccga	ccgcttcagc	ggcagcggca	gcggcaccgc	cttcaccctg												300
aagatcagcc	gcgtggaggc	cgaggacgtg	ggcgtgtact	actgcatgca	gcacctggag												360
taccctaca	ccttcggcgg	cggcaccaag	ctggagatca	agcgtacggt	ggccgctcct												420
tccgtgttca	tcttcctcc	ctccgacgag	cagctgaagt	ccggcaccgc	ctccgtggtg												480
tgtctgctga	acaacttcta	ccctcgggag	gccaaggtgc	agtggaaggt	ggacaacgcc												540
ctgcagtccg	gcaactccca	ggagtccgtc	accgagcagg	actccaagga	cagcacctac												600

e0lf-seq1

tcctgtcct ccaccctgac cctgtccaag gccgactacg agaagcaca ggtgtacgcc 660
 tgtgaggtga cccaccaggg cctgtccagc cctgtgacca agtccttcaa ccggggcgag 720
 tgctgaagct t 731

<210> 23
 <211> 456
 <212> PRT
 <213> Artificial Sequence

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

<400> 23

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

Val His Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Ala
 20 25 30

Pro Ser Glu Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu
 35 40 45

Ile Asp Tyr Gly Val Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu
 50 55 60

Glu Trp Leu Gly Val Ile Trp Gly Asp Gly Thr Thr Tyr Tyr Asn Pro
 65 70 75 80

Ser Leu Lys Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln
 85 90 95

Val Phe Leu Lys Met Asn Ser Leu Thr Ala Ala Asp Thr Ala Met Tyr
 100 105 110

Tyr Cys Ala Arg Ile Val Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 115 120 125

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

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

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

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu

eolf-seq1

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

Lys Ser Leu Ser Leu Ser Leu Gly
 450 455

<210> 24
 <211> 1385
 <212> DNA
 <213> Artificial Sequence

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

<400> 24
 gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg 60
 cacagccagg tgcagctgca ggagagcggc cccggcctgg tggccccag cgagagcctg 120
 agcatcacct gcaccgtgag cggcttcagc ctgatcgact acggcgtgaa ctggatccgc 180
 cagcccccg gcaagggcct ggagtggctg ggcgtgatct ggggcgacgg caccacctac 240
 tacaaccca gcctgaagag ccgcctgagc atctccaagg acaacagcaa gagccaggtg 300
 ttctgaaga tgaacagcct gaccgccgcc gacaccgcca tgtactactg cgccccatc 360
 gtgtactggg gccagggcac cctggtgacc gtgagcagcg ccagcaccaa gggcccttcc 420
 gtgttcctc tggccccttg ctcccgtcc acctccgagt ccaccgccgc tctgggctgc 480
 ctggtgaagg actacttccc tgagcctgtg accgtgtcct ggaactctgg cgccctgacc 540
 tccggcgtgc acaccttccc tgccgtgctg cagtcctccg gcctgtactc cctgtcctcc 600
 gtggtgaccg tgccttctc ctccctgggc accaagacct acacctgtaa cgtggaccac 660
 aagccttcca acaccaaggt ggacaagcgg gtggagtcca agtacggccc tccttgccct 720
 tcctgcctg cccctgagtt cctgggcgga cctagcgtgt tcctgttccc tcctaagcct 780
 aaggacacc tgatgatctc ccggaccct gaggtgacct gtgtggtggt ggacgtgtcc 840
 caggaggacc ctgaggtcca gttcaactgg tacgtggacg gcgtggaggt gcacaacgcc 900
 aagaccaagc ctcgggagga gcagttcaat tccacctacc gggtggtgtc tgtgctgacc 960
 gtgctgcacc aggactggct gaacggcaaa gaatacaagt gtaaggctc caacaagggc 1020
 ctgccctcct ccatcgagaa aaccatctcc aaggccaagg gccagcctag ggagcctcag 1080
 gtgtacacc tgcctcctag ccaggaagag atgaccaaga accaggtgtc cctgacctgt 1140
 ctggtgaagg gcttctacct tccgacatc gccgtggagt gggagtccaa cggccagcct 1200
 gagaacaact acaagaccac ccctcctgtg ctggactccg acggctcctt cttcctgtac 1260
 tccaggctga ccgtggacaa gtcccgtgg caggagggca acgtcttttc ctgctccgtg 1320
 atgcacgagg ccctgcacaa cctactaccc cagaagtccc tgtccctgtc tctgggctga 1380

agctt

<210> 25
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 25

Lys Pro Gly Gln Pro Pro Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg
 1 5 10 15

Ala Thr Gly Ile Pro Ala
 20

<210> 26
 <211> 12
 <212> PRT
 <213> Mus musculus

<400> 26

Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala Arg Ile
 1 5 10

<210> 27
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 27

Ser Glu Asp Ser Ala Leu Tyr Tyr Cys Ala Arg Asp
 1 5 10

<210> 28
 <211> 112
 <212> PRT
 <213> Mus musculus

<400> 28

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

Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
 20 25 30

Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
 35 40 45

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
 50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 29
<211> 111
<212> PRT
<213> Mus musculus

<400> 29

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

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

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

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

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

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

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

<210> 30
<211> 112
<212> PRT
<213> Artificial Sequence

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

<400> 30

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

Ala Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
20 25 30

e01f-seq1

Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
35 40 45

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
50 55 60

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 31

<211> 112

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 31

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

Ala Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
20 25 30

Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 32

<211> 112

<212> PRT

e01f-seq1

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 32

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

Ala Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
20 25 30

Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser
35 40 45

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

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

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 33

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 33

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

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

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

Gly Val Ile Trp Gly Asp Gly Thr Thr Tyr Tyr Asn Pro Ser Leu Lys
50 55 60

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

e0lf-seq1

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

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

<210> 34
<211> 111
<212> PRT
<213> Artificial Sequence

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

<400> 34

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

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

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

Gly Val Ile Trp Gly Asp Gly Thr Thr Tyr Tyr Asn Ala Pro Leu Lys
50 55 60

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

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

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

<210> 35
<211> 238
<212> PRT
<213> Artificial Sequence

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

<400> 35

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

Val His Ser Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val Ala Val
Page 19

e01f-seq1

20

25

30

Thr Pro Arg Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu
 35 40 45

Leu His Ser Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro
 50 55 60

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser
 65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr
 85 90 95

Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
 100 105 110

Met Gln His Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
 115 120 125

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
 130 135 140

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

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn
 165 170 175

Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser
 180 185 190

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala
 195 200 205

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly
 210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235

<210> 36

<211> 731

<212> DNA

<213> Artificial sequence

<220>

<223> Description of Artificial sequence: Synthetic polynucleotide

e0lf-seq1

<400> 36
gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg 60
cacagcgaca tcgtgatgac ccaggccgcc cccagcgtgg ccgtgacccc ccgcgagagc 120
gtgagcatca gctgccgag cagcaagagc ctgctgcaca gcagcggcaa gacctacctg 180
tactggttcc tgcagcgcgc cggccagagc ccccagctgc tgatctaccg catgagcaac 240
ctggccagcg gcgtgcccga ccgcttcagc ggcagcggca gcggcaccgc cttcacctg 300
cgcacagacc gcgtggaggc cgaggacgtg ggcgtgtact actgcatgca gcacctggag 360
taccctaca ccttcggcgg cggcaccaag ctggagatca agcgtacggt ggccgctcct 420
tccgtgttca tcttcctcc ctccgacgag cagctgaagt ccggcaccgc ctccgtggtg 480
tgtctgctga acaacttcta ccctcgggag gccaaagggtc agtggaaggt ggacaacgcc 540
ctgcagtccg gcaactcca ggagtccgtc accgagcagg actccaagga cagcacctac 600
tcctgtcct ccaccctgac cctgtccaag gccgactacg agaagcaciaa ggtgtacgcc 660
tgtgaggtga cccaccaggg cctgtccagc cctgtgacca agtccttcaa ccggggcgag 720
tgctgaagct t 731

<210> 37
<211> 456
<212> PRT
<213> Artificial Sequence

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

<400> 37
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15
Val His Ser Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala
20 25 30
Pro Ser Gln Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu
35 40 45
Ile Asp Tyr Gly Val Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu
50 55 60
Glu Trp Leu Gly Val Ile Trp Gly Asp Gly Thr Thr Tyr Tyr Asn Ser
65 70 75 80
Ala Leu Lys Ser Arg Leu Ser Ile Arg Lys Asp Asn Ser Gln Ser Gln
85 90 95
Val Phe Leu Lys Met Asn Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr

eolf-seq1

	100		105		110											
Tyr	Cys	Ala 115	Arg	Ile	Val	Tyr	Trp 120	Gly	Gln	Gly	Thr	Leu 125	Val	Thr	Val	
Ser	Ala 130	Ala	Ser	Thr	Lys	Gly 135	Pro	Ser	Val	Phe	Pro 140	Leu	Ala	Pro	Cys	
Ser 145	Arg	Ser	Thr	Ser	Glu 150	Ser	Thr	Ala	Ala	Leu 155	Gly	Cys	Leu	Val	Lys 160	
Asp	Tyr	Phe	Pro	Glu 165	Pro	Val	Thr	Val	Ser 170	Trp	Asn	Ser	Gly	Ala 175	Leu	
Thr	Ser	Gly	Val 180	His	Thr	Phe	Pro	Ala 185	Val	Leu	Gln	Ser	Ser 190	Gly	Leu	
Tyr	Ser	Leu 195	Ser	Ser	Val	Val	Thr 200	Val	Pro	Ser	Ser	Ser 205	Leu	Gly	Thr	
Lys	Thr 210	Tyr	Thr	Cys	Asn	Val 215	Asp	His	Lys	Pro	Ser 220	Asn	Thr	Lys	Val	
Asp 225	Lys	Arg	Val	Glu	Ser 230	Lys	Tyr	Gly	Pro	Pro 235	Cys	Pro	Ser	Cys	Pro 240	
Ala	Pro	Glu	Phe	Leu 245	Gly	Gly	Pro	Ser	Val 250	Phe	Leu	Phe	Pro	Pro 255	Lys	
Pro	Lys	Asp	Thr 260	Leu	Met	Ile	Ser	Arg 265	Thr	Pro	Glu	Val	Thr 270	Cys	Val	
Val	Val	Asp 275	Val	Ser	Gln	Glu	Asp 280	Pro	Glu	Val	Gln	Phe 285	Asn	Trp	Tyr	
Val	Asp 290	Gly	Val	Glu	Val	His 295	Asn	Ala	Lys	Thr	Lys 300	Pro	Arg	Glu	Glu	
Gln 305	Phe	Asn	Ser	Thr	Tyr 310	Arg	Val	Val	Ser	Val 315	Leu	Thr	Val	Leu	His 320	
Gln	Asp	Trp	Leu	Asn 325	Gly	Lys	Glu	Tyr	Lys 330	Cys	Lys	Val	Ser	Asn 335	Lys	
Gly	Leu	Pro	Ser 340	Ser	Ile	Glu	Lys	Thr 345	Ile	Ser	Lys	Ala	Lys 350	Gly	Gln	

eolf-seq1

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

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

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

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

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

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

Lys Ser Leu Ser Leu Ser Leu Gly
 450 455

<210> 38
 <211> 1385
 <212> DNA
 <213> Artificial Sequence

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

<400> 38

gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg	60
cacagccagg tgcagctgaa ggagagcggc cccggcctgg tggccccag ccagagcctg	120
agcatcacct gcaccgtgag cggcttcagc ctgatcgact acggcgtgaa ctggatccgc	180
cagcccccg gcaagggcct ggagtggctg ggcgtgatct ggggcgacgg caccacctac	240
tacaacagcg ccctgaagag ccgcctgagc atccgcaagg acaacagcca gagccagggtg	300
ttcctgaaga tgaacagcct gcagaccgac gacaccgcca tgtactactg cgccccatc	360
gtgtactggg gccagggcac cctggtgacc gtgagcgccg ccagcaccaa gggcccttcc	420
gtgttccctc tggccccttg ctcccggctc acctccgagt ccaccgccc tctgggctgc	480
ctggtgaagg actacttccc tgagcctgtg accgtgtcct ggaactctgg cgccctgacc	540
tccggcgtgc acaccttccc tgccgtgctg cagtcctccg gcctgtactc cctgtcctcc	600
gtggtgaccg tgccttctc ctccctgggc accaagacct acacctgtaa cgtggaccac	660
aagccttcca acaccaaggt ggacaagcgg gtggagtcca agtacggccc tccttgcct	720
tcctgccctg cccctgagtt cctgggcgga cctagcgtgt tcctgttccc tcctaagcct	780

e01f-seq1

aaggacaccc tgatgatctc ccggaccctt gaggtgacct gtgtggtggt ggacgtgtcc 840
 caggaggacc ctgaggtcca gttcaactgg tacgtggacg gcgtggaggt gcacaacgcc 900
 aagaccaagc ctcgggagga gcagttcaat tccacctacc ggggtggtgtc tgtgctgacc 960
 gtgctgcacc aggactggct gaacggcaaa gaatacaagt gtaaggcttc caacaagggc 1020
 ctgccctcct ccatcgagaa aaccatctcc aaggccaagg gccagcctag ggagcctcag 1080
 gtgtacaccc tgcctcctag ccaggaagag atgaccaaga accaggtgtc cctgacctgt 1140
 ctggtgaagg gcttctaccc ttccgacatc gccgtggagt gggagtccaa cggccagcct 1200
 gagaacaact acaagaccac ccctcctgtg ctggactccg acggctcctt cttcctgtac 1260
 tccaggctga ccgtggacaa gtcccggtag caggagggca acgtcttttc ctgctccgtg 1320
 atgcacgagg ccctgcacaa cctactaccc cagaagtccc tgtccctgtc tctgggctga 1380
 agctt 1385

<210> 39

<211> 238

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 39

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

Val His Ser Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val Ala Val
 20 25 30

Thr Pro Gly Ala Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu
 35 40 45

Leu His Ser Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro
 50 55 60

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser
 65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr
 85 90 95

Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
 100 105 110

Met Gln His Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
 115 120 125

e0lf-seq1

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
 130 135 140

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

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn
 165 170 175

Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser
 180 185 190

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala
 195 200 205

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly
 210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235

- <210> 40
- <211> 731
- <212> DNA
- <213> Artificial sequence

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

<400> 40
 gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg 60
 cacagcgaca tcgtgatgac ccaggccgcc cccagcgtgg ccgtgacccc cggcgccagc 120
 gtgagcatca gctgccgag cagcaagagc ctgctgcaca gcagcggcaa gacctacctg 180
 tactggttcc tgcagcgcgc cggccagagc ccccagctgc tgatctaccg catgagcaac 240
 ctggccagcg gcgtgcccga ccgcttcagc ggcagcggca gcggcaccgc cttcacctg 300
 cgcacagacc gcgtggaggc cgaggacgtg ggcgtgtact actgcatgca gcacctggag 360
 taccctaca ccttcggcgg cggcaccaag ctggagatca agcgtacggt ggccgctcct 420
 tccgtgttca tcttcctcc ctccgacgag cagctgaagt ccggcaccgc ctccgtggtg 480
 tgtctgctga acaacttcta ccctcgggag gccaaggtgc agtgaaggt ggacaacgcc 540
 ctgcagtccg gcaactcca ggagtcgctc accgagcagg actccaagga cagcacctac 600
 tccctgtcct ccaccctgac cctgtccaag gccgactacg agaagcaciaa ggtgtacgcc 660
 tgtgaggtga cccaccaggg cctgtccagc cctgtgacca agtccttcaa ccggggcgag 720

eolf-seq1

731

tgctgaagct t

<210> 41
 <211> 238
 <212> PRT
 <213> Artificial Sequence

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

<400> 41

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

Val His Ser Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val Ala Val
 20 25 30

Thr Pro Gly Ala Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu
 35 40 45

Leu His Ser Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro
 50 55 60

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Leu Ser Asn Leu Ala Ser
 65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr
 85 90 95

Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
 100 105 110

Met Gln His Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
 115 120 125

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
 130 135 140

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

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn
 165 170 175

Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser
 180 185 190

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala
 195 200 205

eolf-seq1

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly
210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
225 230 235

<210> 42
<211> 731
<212> DNA
<213> Artificial Sequence

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

<400> 42
gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg 60
cacagcgaca tcgtgatgac ccaggccgcc cccagcgtgg ccgtgacccc cggcgccagc 120
gtgagcatca gctgccgag cagcaagagc ctgctgcaca gcagcggcaa gacctacctg 180
tactggttcc tgcagcggcc cggccagagc ccccagctgc tgatctaccg cctgagcaac 240
ctggccagcg gcgtgcccga ccgcttcagc ggcagcggca gcggcaccgc cttcaccctg 300
cgcatcagcc gcgtggaggc cgaggacgtg ggcgtgtact actgcatgca gcacctggag 360
taccctaca ccttcggcgg cggcaccaag ctggagatca agcgtacggt ggccgctcct 420
tccgtgttca tcttcctcc ctccgacgag cagctgaagt ccggcaccgc ctccgtggtg 480
tgtctgctga acaacttcta ccctcgggag gccaaaggtgc agtggagggt ggacaacgcc 540
ctgcagtccg gcaactcca ggagtccgtc accgagcagg actccaagga cagcacctac 600
tcctgtcct ccaccctgac cctgtccaag gccgactacg agaagcacia ggtgtacgcc 660
tgtgaggtga cccaccaggg cctgtccagc cctgtgacca agtccttcaa ccggggcgag 720
tgctgaagct t 731

<210> 43
<211> 238
<212> PRT
<213> Artificial Sequence

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

<400> 43

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

Val His Ser Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val Ala Val
20 25 30

e0lf-seq1

Thr Pro Gly Ala Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu
 35 40 45

Leu His Ser Ser Gly Lys Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro
 50 55 60

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Leu Ser Ser Leu Ala Ser
 65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr
 85 90 95

Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
 100 105 110

Met Gln His Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu
 115 120 125

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro
 130 135 140

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

Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn
 165 170 175

Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser
 180 185 190

Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala
 195 200 205

Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly
 210 215 220

Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
 225 230 235

<210> 44

<211> 731

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic polynucleotide

<400> 44

gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg

60

e01f-seq1

cacagcgaca tcgtgatgac ccaggccgcc cccagcgtgg ccgtgacccc cggcgccagc 120
 gtgagcatca gctgccgcag cagcaagagc ctgctgcaca gcagcggcaa gacctacctg 180
 tactggttcc tgcagcgcgc cggccagagc ccccagctgc tgatctaccg cctgagcagc 240
 ctggccagcg gcgtgcccga ccgcttcagc ggcagcggca gcggcaccgc cttcacctctg 300
 cgcacagacc gcgtggaggg cgaggacgtg ggcgtgtact actgcatgca gcacctggag 360
 taccctaca ccttcggcgg cggcaccaag ctggagatca agcgtacggg ggccgctcct 420
 tccgtgttca tcttcctcc ctccgacgag cagctgaagt ccggcaccgc ctccgtggtg 480
 tgtctgctga acaacttcta ccctcgggag gccaaggtgc agtggaaggt ggacaacgcc 540
 ctgcagtccg gcaactcca ggagtcgctc accgagcagg actccaagga cagcacctac 600
 tcctgtcct ccaccctgac cctgtccaag gccgactacg agaagcaca ggtgtacgcc 660
 tgtgaggtga cccaccaggg cctgtccagc cctgtgacca agtccttcaa ccggggcgag 720
 tgctgaagct t 731

<210> 45
 <211> 456
 <212> PRT
 <213> Artificial Sequence

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

<400> 45

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

Val His Ser Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala
 20 25 30

Pro Ser Glu Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu
 35 40 45

Ile Asp Tyr Gly Val Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu
 50 55 60

Glu Trp Leu Gly Val Ile Trp Gly Asp Gly Thr Thr Tyr Tyr Asn Pro
 65 70 75 80

Ser Leu Lys Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln
 85 90 95

Val Phe Leu Lys Val Thr Ser Leu Thr Thr Asp Asp Thr Ala Met Tyr
 100 105 110

e0lf-seq1

Tyr Cys Ala Arg Ile Val Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 115 120 125
 Ser Ala Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys
 130 135 140
 Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys
 145 150 155 160
 Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
 165 170 175
 Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
 180 185 190
 Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr
 195 200 205
 Lys Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val
 210 215 220
 Asp Lys Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
 225 230 235 240
 Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys
 245 250 255
 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val
 260 265 270
 Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr
 275 280 285
 Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu
 290 295 300
 Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 305 310 315 320
 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys
 325 330 335
 Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln
 340 345 350
 Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met
 355 360 365

e01f-seq1

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

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

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

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

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

Lys Ser Leu Ser Leu Ser Leu Gly
 450 455

- <210> 46
- <211> 1385
- <212> DNA
- <213> Artificial Sequence

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

<400> 46
 gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg 60
 cacagccagg tgcagctgaa ggagagcggc cccggcctgg tggccccag cgagagcctg 120
 agcatcacct gcaccgtgag cggcttcagc ctgatcgact acggcgtgaa ctggatccgc 180
 cagccccccg gcaagggcct ggagtggctg ggcgtgatct ggggacgacgg caccacctac 240
 tacaaccca gcctgaagag ccgcctgagc atcagcaagg acaacagcaa gagccaggtg 300
 ttctgaagg tgaccagcct gaccaccgac gaccaccgca tgtactactg cgccccatc 360
 gtgtactggg gccagggcac cctggtgacc gtgagcgcg ccagcaccaa gggcccttcc 420
 gtgttcctc tggccccttg ctcccgtcc acctccgagt ccaccgccgc tctgggctgc 480
 ctggtgaagg actacttccc tgagcctgtg accgtgtcct ggaactctgg cgccctgacc 540
 tccggcgtgc acaccttccc tgccgtgctg cagtcctccg gcctgtactc cctgtcctcc 600
 gtggtgaccg tgccttctc ctccctgggc accaagacct acacctgtaa cgtggaccac 660
 aagccttcca acaccaaggt ggacaagcgg gtggagtcca agtacggccc tccttgcct 720
 tcctgccctg cccctgagtt cctgggcgga cctagcgtgt tcctgttccc tcctaagcct 780
 aaggacacc tgatgatctc ccggaccct gaggtgacct gtgtggtggt ggacgtgtcc 840

e01f-seq1

```

caggaggacc ctgaggtcca gttcaactgg tacgtggacg gcgtggaggt gcacaacgcc      900
aagaccaagc ctcgggagga gcagttcaat tccacctacc gggtggtgtc tgtgctgacc      960
gtgctgcacc aggactggct gaacggcaaa gaatacaagt gtaaggtctc caacaagggc     1020
ctgccctcct ccatcgagaa aaccatctcc aaggccaagg gccagcctag ggagcctcag     1080
gtgtacaccc tgcctcctag ccaggaagag atgaccaaga accaggtgtc cctgacctgt     1140
ctggtgaagg gcttctaccc ttccgacatc gccgtggagt gggagtccaa cggccagcct     1200
gagaacaact acaagaccac ccctcctgtg ctggactccg acggctcctt cttcctgtac     1260
tccaggctga ccgtggacaa gtcccggtag caggagggca acgtcttttc ctgctccgtg     1320
atgcacgagg ccctgcacaa cctactaccc cagaagtccc tgtccctgtc tctgggctga     1380
agctt                                     1385

```

<210> 47
 <211> 456
 <212> PRT
 <213> Artificial sequence

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

<400> 47

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

Val His Ser Glu Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Ala
 20 25 30

Pro Gly Gly Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu
 35 40 45

Ile Asp Tyr Gly Val Asn Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu
 50 55 60

Glu Trp Leu Gly Val Ile Trp Gly Asp Gly Thr Thr Tyr Tyr Asn Ala
 65 70 75 80

Pro Leu Lys Gly Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln
 85 90 95

Val Phe Leu Gln Met Asn Ser Leu Lys Thr Asp Asp Thr Ala Met Tyr
 100 105 110

Tyr Cys Ala Arg Ile Val Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 115 120 125

eolf-seq1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

e01f-seq1

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

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

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

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

Lys Ser Leu Ser Leu Ser Leu Gly
 450 455

- <210> 48
- <211> 1385
- <212> DNA
- <213> Artificial sequence

- <220>
- <223> Description of Artificial sequence: Synthetic polynucleotide

<400> 48
 gctagcacca tgggctggag ctgcatcatc ctgttcctgg tggccaccgc caccggcgtg 60
 cacagcgagg tgcagctgaa ggagagcggc cccggcctgg tggcccccg cggcagcctg 120
 agcatcacct gcaccgtgag cggcttcagc ctgatcgact acggcgtgaa ctggatccgc 180
 cagccccccg gcaagggcct ggagtggtctg ggcgtgatct ggggcgacgg caccacctac 240
 tacaacgccc ccctgaaggg cgcctgagc atcagcaagg acaacagcaa gagccaggtg 300
 ttctctgcaga tgaacagcct gaagaccgac gacaccgcca tgtactactg cgcccgcatac 360
 gtgtactggg gccagggcac cctggtgacc gtgagcagcg ccagcaccaa gggcccttcc 420
 gtgttcctc tggccccttg ctcccgtcc acctccgagt ccaccgccgc tctgggctgc 480
 ctggtgaagg actacttccc tgagcctgtg accgtgtcct ggaactctgg cgccctgacc 540
 tccggcgtgc acaccttccc tgccgtgctg cagtctctcg gcctgtactc cctgtcctcc 600
 gtggtgaccg tgccttctc ctccctgggc accaagacct acacctgtaa cgtggaccac 660
 aagccttcca acaccaaggt ggacaagcgg gtggagtcca agtacggccc tccttgcctc 720
 tcctgccctg cccctgagtt cctgggcgga cctagcgtgt tcctgttccc tcctaagcct 780
 aaggacaccc tgatgatctc ccggaccct gaggtgacct gtgtggtggt ggacgtgtcc 840
 caggaggacc ctgaggtcca gttcaactgg tacgtggacg gcgtggaggt gcacaacgcc 900
 aagaccaagc ctcgggagga gcagttcaat tccacctacc gggtggtgtc tgtgctgacc 960
 gtgctgcacc aggactggct gaacggcaaa gaatacaagt gtaaggcttc caacaagggc 1020

e01f-seq1

ctgccctcct ccatcgagaa aaccatctcc aaggccaagg gccagcctag ggagcctcag 1080
gtgtacacc tgcctcctag ccaggaagag atgaccaaga accaggtgtc cctgacctgt 1140
ctggtgaagg gcttctaccc ttccgacatc gccgtggagt gggagtccaa cggccagcct 1200
gagaacaact acaagaccac ccctcctgtg ctggactccg acggctcctt cttcctgtac 1260
tccaggctga ccgtggacaa gtcccgggtg caggagggca acgtcttttc ctgctccgtg 1320
atgcacgagg ccctgcacaa ccactacacc cagaagtccc tgtccctgtc tctgggctga 1380
agctt 1385

<210> 49
<211> 5
<212> PRT
<213> Homo sapiens

<400> 49

Glu Leu Leu Gly Gly
1 5

<210> 50
<211> 5
<212> PRT
<213> Homo sapiens

<400> 50

Met Ile Ser Arg Thr
1 5

<210> 51
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic 6x His tag

<400> 51

His His His His His His
1 5

<210> 52
<211> 15
<212> PRT
<213> Artificial Sequence

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

<400> 52

Pro Gly Lys Ala Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu

eolf-seq1

1 5 10 15

<210> 53
 <211> 15
 <212> PRT
 <213> Artificial Sequence

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

<400> 53

Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser Ser Leu
 1 5 10 15

<210> 54
 <211> 15
 <212> PRT
 <213> Artificial Sequence

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

<400> 54

Ser Leu Ile Asp Tyr Gly Val Asn Trp Ile Arg Gln Pro Pro Gly
 1 5 10 15

<210> 55
 <211> 112
 <212> PRT
 <213> Artificial Sequence

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

<400> 55

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

Gln Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser
 20 25 30

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

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro
 50 55 60

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

Ser Gly Val Gln Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
 85 90 95

e01f-seq1

Leu Glu Tyr Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 56
<211> 113
<212> PRT
<213> Artificial Sequence

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

<400> 56

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

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

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

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

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

Lys Met Asn Ser Leu Thr Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala
85 90 95

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

Lys

<210> 57
<211> 113
<212> PRT
<213> Artificial Sequence

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

<400> 57

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

Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu Ile Asp Tyr

e01f-seq1

20

25

30

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

Gly Val Ile Trp Gly Asp Gly Thr Thr Tyr Tyr Pro Ser Ala Leu Lys
 50 55 60

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

Lys Met Asn Ser Leu Thr Thr Asp Asp Thr Ala Met Tyr Tyr Cys Ala
 85 90 95

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

Lys

<210> 58
 <211> 16
 <212> PRT
 <213> Artificial sequence

<220>
 <223> synthetic peptide

<400> 58

Arg Ser Ser Lys Ser Leu Leu His Ser Ser Gly Lys Thr Tyr Leu Tyr
 1 5 10 15

<210> 59
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic peptide

<400> 59

Arg Met Ser Asn Leu Ala Ser
 1 5

<210> 60
 <211> 9
 <212> PRT
 <213> Artificial sequence

<220>
 <223> synthetic peptide

e01f-seq1

<400> 60

Met Gln His Leu Glu Tyr Pro Tyr Thr
1 5

<210> 61

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 61

Gly Phe Ser Leu Ile Asp Tyr Gly Val Asn
1 5 10

<210> 62

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 62

Val Ile Trp Gly Asp Gly Thr Thr Tyr
1 5

<210> 63

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 63

Ile Val Tyr
1

<210> 64

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 64

Arg Leu Ser Asn Leu Ala Ser
1 5

<210> 65

eolf-seq1

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

<220>
<223> Synthetic peptide

<400> 65

Arg Leu Ser Ser Asn Leu Ala Ser
1 5

<210> 66
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 66

Arg Met Ser Asn Leu Ala
1 5

<210> 67
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 67

Arg Leu Ser Asn Leu Ala
1 5

<210> 68
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 68

Arg Leu Ser Ser Leu Ala
1 5

<210> 69
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

e01f-seq1

<400> 69

Arg Ser Ser Lys Ser Leu Leu His Ser Ser Gly Lys Thr Tyr Leu Tyr
1 5 10 15

Trp