

eolf-seq1
SEQUENCE LISTING

<110> Effimune

<120> Antibodies directed against CD127

<130> B10744B

<150> US 62/010117

<151> 2014-06-10

<150> EP 15305078.6

<151> 2015-01-23

<160> 132

<170> PatentIn version 3.5

<210> 1

<211> 1359

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

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ccaaagaagg gtctggaatg ggtcgcaacc attagtcca gtgggctcag aacttactat	180
ccagactccg tgaagggccg cttcactatc tccagagatg atgcaaaaag gagcctcttc	240
ctgcaaatga ccagtctgaa gtctgaggac acggccactt attactgtgc aagaccgatg	300
tctgcacact atggttttta ctactttgat tactggggcc aaggagtcac ggtcacagtc	360
tcctcagcta gcaccaaggg cccatcggtc ttccccctgg caccctcctc caagagcacc	420
tctgggggca cagcggccct gggctgcctg gtcaaggact acttccccga accggtgacg	480
gtgtcgtgga actcaggcgc cctgaccagc ggcgtgcaca ctttcccggc tgtcctacag	540
tcctcaggac tctactccct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacc	600
cagacctaca tctgcaacgt gaatcacaag cccagcaaca ccaaggtgga caagaaagtt	660

eolf-seql

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gagcccaaat cttgtgacaa aactcacaca tgcccaccgt gcccagcacc tgaactcctg      720
gggggaccgt cagtcttcct cttcccccca aaacccaagg acaccctcat gatctcccgg      780
acccctgagg tcacatgcgt ggtggtggac gtgagccacg aagaccctga ggtcaagttc      840
aactggtacg tggacggcgt ggaggtgcat aatgccaaga caaagccgcg ggaggagcag      900
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gaggagatga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc     1140
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cccgtgctgg actccgacgg ctctttcttc ctctacagca agctcaccgt ggacaagagc     1260
aggtggcagc aggggaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac     1320
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<210> 2
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 2

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

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

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eolf-seq1

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

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

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

Ala Arg Pro Met Ser Ala His Tyr Gly Phe Asn Tyr Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Val Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
115 120 125

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

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

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

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
180 185 190

Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn
195 200 205

His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys Ser
210 215 220

Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
225 230 235 240

eolf-seq1

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

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

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

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

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

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

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

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

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

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

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

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

eolf-seql

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

Ser Pro Gly Lys
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<210> 3
 <211> 645
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

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 gggaaatctc ctcagctcct ggtctatagt gcaaataagct tacatatattgg ggtcccatca 180
 cggttcagtg gcagtggatc tggtagacag tattctctca agataaacag cctgcaattt 240
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 cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactcccag 480
 gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540
 ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600
 ctgagctcgc ccgtcacaaa gagcttcaac aggggagagt gttag 645

<210> 4
 <211> 214
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

eolf-seql

<400> 4

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

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

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

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

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

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

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

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

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

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

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

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

eolf-seql

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

Phe Asn Arg Gly Glu Cys
210

<210> 5
<211> 1350
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 5
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ccaaagaagg gtctggaatg ggtcgcaacc attagtcca gtgggctcag aacttactat 180
ccagactccg tgaagggccg cttcactatc tccagagatg atgcaaaaag gagcctcttc 240
ctgcaaatga ccagtctgaa gtctgaggac acggccactt attactgtgc aagaccgatg 300
tctgcacact atggttttaa ctactttgat tactggggcc aaggagtcac ggtcacagtc 360
tcctcagcta gcaccaaggg cccatcggtc ttccccctgg cgccctgctc caggagcacc 420
tccgagagca cagccgccct gggctgcctg gtcaaggact acttccccga accggtgacg 480
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tcctcaggac tctactccct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacg 600
aagacctaca cctgcaacgt agatcacaag cccagcaaca ccaagggtgga caagagagtt 660
gagtccaaat atggtcccc atgcccacca tgcccagcac ctgagttcct gggggggacca 720
tcagtcttcc tgttcccccc aaaacccaag gacacttca tgatctcccg gaccctgag 780
gtcacgtgcg tgggtggtgga cgtgagccag gaagaccccg aggtccagtt caactggtac 840
gtggatggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gttcaacagc 900

eolf-seql

acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa cggcaaggag 960
tacaagtgca aggtcttcaa caaaggcctc ccgtcctcca tcgagaaaac catctccaaa 1020
gccaaagggc agccccgaga gccacagggtg tacaccctgc ccccatccca ggaggagatg 1080
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gactccgacg gctccttctt cctctacagc aggctaaccg tggacaagag cagggtggcag 1260
gaggggaatg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacacag 1320
aagagcctct ccctgtctcc gggtaaatga 1350

<210> 6
<211> 449
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 6

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

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

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

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

eolf-seq1

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

Ala Arg Pro Met Ser Ala His Tyr Gly Phe Asn Tyr Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Val Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro
115 120 125

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

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

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

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
180 185 190

Val Pro Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp
195 200 205

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

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

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

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp
260 265 270

eolf-seql

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

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

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

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

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

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

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
370 375 380

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

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

Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu
420 425 430

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
435 440 445

Lys

eolf-seql

<210> 7
 <211> 645
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 7
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 gggaaatctc ctcagctcct ggtctatagt gcaaatagct tacatattgg ggtcccatca 180
 cggttcagtg gcagtggatc tggtagacag tattctctca agataaacag cctgcaatct 240
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 gggaccaagc tggagatcaa acggacgggtg gctgcacat ctgtcttcat cttcccgcca 360
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 gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540
 ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600
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<210> 8
 <211> 214
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 8

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

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

eolf-seql

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

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

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

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

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

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

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

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

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

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

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

Phe Asn Arg Gly Glu Cys
 210

eolf-seql

<210> 9
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 9
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27

<210> 10
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 10

Phe Thr Leu Ser Asp Tyr Tyr Met Ala
 1 5

<210> 11
 <211> 51
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 11
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51

<210> 12
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

eolf-seql

<400> 12

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

Gly

<210> 13

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 13

ccgatgtctg cacactatgg ttttaactac tttgattac

39

<210> 14

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 14

Pro	Met	Ser	Ala	His	Tyr	Gly	Phe	Asn	Tyr	Phe	Asp	Tyr
1				5					10			

<210> 15

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 15

cgaacaagtg aggacattta caatgggtta gca

33

eolf-seql

<210> 16
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 16

Arg Thr Ser Glu Asp Ile Tyr Asn Gly Leu Ala
 1 5 10

<210> 17
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 17

agtgcaaata gcttacatat t

21

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

<220>
 <223> Synthetic sequence

<400> 18

Ser Ala Asn Ser Leu His Ile
 1 5

<210> 19
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

eolf-seql

<400> 19
caacagtatt acgattatcc gctcgcg 27

<210> 20
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 20

Gln Gln Tyr Tyr Asp Tyr Pro Leu Ala
1 5

<210> 21
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 21
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ccaaagaagg gtctggaatg ggtcgcaacc attagtgccg gtgggctcag aacttactat 180
ccagactccg tgaagggccg cttcactatc tccagagatg atgcaaaaag gagcctcttc 240
ctgcaaatga ccagtctgaa gtctgaggac acggccactt attactgtgc aagaccgatg 300
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tcctca 366

<210> 22
<211> 122
<212> PRT
<213> Artificial Sequence

<220>

eolf-seql

<223> Synthetic sequence

<400> 22

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

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

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

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

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

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

Ala Arg Pro Met Ser Ala His Tyr Gly Phe Asn Tyr Phe Asp Tyr Trp
100 105 110

Gly Gln Gly Val Met Val Thr Val Ser Ser
115 120

<210> 23

<211> 324

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 23

gacatccaga tgacacagtc tccagcttcc ctgtctgcat ctctgggaga aactgtcacc 60

atcgaatgtc gaacaagtga ggacatttac aatggtttag catggtatca gcagaagcca 120

eolf-seql

gggaaatctc ctcagctcct ggtctatagt gcaaatagct tacatatagg ggtcccatca 180
 cggttcagtg gcagtggatc tggtagacag tattctctca agataaacag cctgcaattt 240
 gaagatgtcg caagttatct ctgtcaacag tattacgatt atccgctcgc gttcgggttct 300
 gggaccaagc tggagatcaa acgg 324

<210> 24
 <211> 108
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 24

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

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

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

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

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

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

Ala Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

eolf-seql

<210> 25
 <211> 993
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 25
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 tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca 180
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 tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa agttgagccc 300
 aaatcttgtg acaaaaactca cacatgcccc ccgtgcccag cacctgaact cctggggggga 360
 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccctt 420
 gaggtcacat gcgtgggtgt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
 tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacaac 540
 agcacgtacc gtgtgggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
 gagtacaagt gcaagggtct caacaaagcc ctcccagccc ccatcgcgaa aaccatctcc 660
 aaagccaaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggaggag 720
 atgaccaaga accagggtcag cctgacctgc ctgggtcaaag gcttctatcc cagcgacatc 780
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 cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960
 cagaagagcc tctccctgtc tccgggtaaa tga 993

<210> 26
 <211> 330
 <212> PRT
 <213> Artificial Sequence

eolf-seql

<220>

<223> Synthetic sequence

<400> 26

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

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

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

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

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

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

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

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

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

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

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

eolf-seql

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

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

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

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

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

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

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

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

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

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

<210> 27

<211> 984

<212> DNA

<213> Artificial Sequence

<220>

eolf-seql

<223> Synthetic sequence

<400> 27

gctagcacca agggcccatc ggtcttcccc ctggcgccct gctccaggag cacctccgag	60
agcacagccg ccctgggctg cctgggtcaag gactacttcc ccgaaccggg gacgggtgtcg	120
tggaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca	180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg cacgaagacc	240
tacacctgca acgtagatca caagcccagc aacaccaagg tggacaagag agttgagtcc	300
aaatatgggtc ccccatgccc accatgcccga gcacctgagt tcctggggggg accatcagtc	360
ttcctgttcc ccccaaaacc caaggacact ctcatgatct cccggacccc tgaggtcacg	420
tgcgtgggtgg tggacgtgag ccaggaagac cccgagggtcc agttcaactg gtacgtggat	480
ggcgtggagg tgcataatgc caagacaaag ccgcggggagg agcagttcaa cagcacgtac	540
cgtgtgggtca gcgtcctcac cgtcctgcac caggactggc tgaacggcaa ggagtacaag	600
tgcaagggtct ccaacaaaagg cctcccgtcc tccatcgaga aaaccatctc caaagccaaa	660
gggcagcccc gagagccaca ggtgtacacc ctgcccccat cccaggagga gatgaccaag	720
aaccagggtca gcctgacctg cctgggtcaaa ggcttctacc ccagcgacat cgccgtggag	780
tgggagagca atgggcagcc ggagaacaac tacaagacca cgcctcccgt gctggactcc	840
gacggctcct tcttctctta cagcaggcta accgtggaca agagcagggtg gcaggagggg	900
aatgtcttct catgctccgt gatgcatgag gctctgcaca accactacac acagaagagc	960
ctctccctgt ctccgggtaa atga	984

<210> 28

<211> 327

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 28

eolf-seql

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

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

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

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

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

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

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

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

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

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

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

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

eolf-seql

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

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

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

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

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

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

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

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

Leu Ser Leu Ser Pro Gly Lys
325

<210> 29
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 29
acgggtggctg caccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga 60
actgcctctg ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg 120

eolf-seql

aagggtggata acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc 180
aaggacagca cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa 240
cacaaagtct acgcctgcga agtcacccat cagggcctga gctcgcccgt cacaaagagc 300
ttcaacaggg gagagtgtta g 321

<210> 30
<211> 106
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 30

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

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

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

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

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

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

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

eolf-seql

<210> 31
 <211> 330
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 31

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

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

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

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

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

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

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

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

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

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

eolf-seql

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

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

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

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

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

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

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

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

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

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

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

<210> 32
<211> 326

eolf-seql

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 32

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

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

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

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

Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
65 70 75 80

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

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

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

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

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

eolf-seql

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

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
180 185 190

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

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

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

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

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

Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
275 280 285

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

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

Ser Leu Ser Pro Gly Lys
325

<210> 33
<211> 327
<212> PRT
<213> Artificial Sequence

eolf-seql

<220>

<223> Synthetic sequence

<400> 33

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

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

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

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

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

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

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

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

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

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

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

eolf-seql

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

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

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

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

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

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

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

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

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

Leu Ser Leu Ser Leu Gly Lys
325

<210> 34

<211> 326

<212> PRT

<213> Artificial Sequence

<220>

eolf-seql

<223> Synthetic sequence

<400> 34

Ala Glu Thr Thr Ala Pro Ser Val Tyr Pro Leu Ala Pro Gly Thr Ala
1 5 10 15

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

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

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

Thr Ser Ser Val Thr Val Pro Ser Ser Thr Trp Pro Ser Gln Thr Val
65 70 75 80

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

Ile Val Pro Arg Asn Cys Gly Gly Asp Cys Lys Pro Cys Ile Cys Thr
100 105 110

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

Val Leu Thr Ile Thr Leu Thr Pro Lys Val Thr Cys Val Val Val Asp
130 135 140

Ile Ser Gln Asp Asp Pro Glu Val His Phe Ser Trp Phe Val Asp Asp
145 150 155 160

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

eolf-seql

Ser Thr Phe Arg Ser Val Ser Glu Leu Pro Ile Leu His Gln Asp Trp
180 185 190

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

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

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

Glu Val Ser Ile Thr Cys Met Val Lys Gly Phe Tyr Pro Pro Asp Ile
245 250 255

Tyr Val Glu Trp Gln Met Asn Gly Gln Pro Gln Glu Asn Tyr Lys Asn
260 265 270

Thr Pro Pro Thr Met Asp Thr Asp Gly Ser Tyr Phe Leu Tyr Ser Lys
275 280 285

Leu Asn Val Lys Lys Glu Lys Trp Gln Gln Gly Asn Thr Phe Thr Cys
290 295 300

Ser Val Leu His Glu Gly Leu His Asn His His Thr Glu Lys Ser Leu
305 310 315 320

Ser His Ser Pro Gly Lys
325

<210> 35
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

eolf-seql

<400> 35
caggtgcagc tggtcgaatc tggaggggggt ctggtcaagc ccggagggtc actgcgtctg 60
tcatgcgccg tctcagggtt cacactgtct gactactata tggcttgggt gcgacaggca 120
ccaggcaagg gactggagtg ggtcgccact atctctgcta gtggcctgag gacctactat 180
cctgatagtg tgaagggaag gttcacaatt tcacgggacg atgcaaaaaa ctccctgtac 240
ctgcagatga atagcctgag agcagaagac accgccgtct actattgcgc ccgccaatg 300
agcgctcact atggcttcaa ctactttgat tattgggggc aggggtaccct ggtgacagtc 360
tccagc 366

<210> 36
<211> 122
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 36

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

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

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

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

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

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

eolf-seql

Ala Arg Pro Met Ser Ala His Tyr Gly Phe Asn Tyr Phe Asp Tyr Trp
 100 105 110

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

<210> 37
 <211> 366
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 37
 cagggtgcagc tgggtcgaatc tggggggggga ctgggtcaaac ccggaggctc actgcgtctg 60
 tcatgtgccg tctcaggctt tacactgagc gactactata tggcatggat ccgacaggca 120
 ccaggcaagg gactggagtg ggtgtctact atttctgcca gtggcctgag gacctactat 180
 cctgacagtg tcaagggaag gttcacaatc tcacgggata acgctaaaaa ttccctgtac 240
 ctgcagatga acagcctgag agccgaagac accgctgtgt actattgcgc tcgccaatg 300
 tccgcacact atggcttcaa ttactttgat tattgggggc aggggtaccct ggtgacagtc 360
 tccagc 366

<210> 38
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 38

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

eolf-seq1

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

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

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

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

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

Ala Arg Pro Met Ser Ala His Tyr Gly Phe Asn Tyr Phe Asp Tyr Trp
100 105 110

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

<210> 39
<211> 366
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 39
caggtgcagc tggtcgaatc agggggggga ctggtcaaac ccgggggctc actgcgtctg 60
tcatgtgccg tctcaggctt cacactgagc gactactata tggcatggat ccgacaggca 120
ccaggcaagg gactggagtg ggtgtctact atttctgcca gtggcctgag gacctactat 180
cctgacagtg tcaagggaag gttcacaatc tcacgggata acgctaaaaa ttccctgtac 240
ctgcagatga acagcctgag agccgaagac accgctgtgt actattgcgc tcgcccactg 300
tccgcacact atggcttcaa ttactttgat tattgggggc aggggtaccct ggtgacagtc 360

eolf-seql

tccagc

366

<210> 40
 <211> 122
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 40

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

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

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

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

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

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

Ala Arg Pro Leu Ser Ala His Tyr Gly Phe Asn Tyr Phe Asp Tyr Trp
 100 105 110

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

<210> 41
 <211> 321

eolf-seql

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 41

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gaaattgtga tgactcagtc tcccgtacc ctgtcagtct ctcccggcga acgtgctacc      60
ctgtcctgcc gaacctcaga agatatctac aacgggctgg cttgggtatca gcagaagccc      120
ggacaggccc ctaggctgct ggtgtactcc gctaattctc tgcacatcgg cattccagca      180
cggttctctg gtagtggctc aggaactgag tataacctga caatctccag cctgcagagc      240
gaagacttcg cagtgtactt ttgccagcag tactatgatt atcccctggc ctttggcgga      300
gggaccaagg tcgagatcaa g                                              321
  
```

<210> 42

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 42

```

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

```

Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Glu Asp Ile Tyr Asn Gly
          20           25           30
  
```

```

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Val
          35           40           45
  
```

```

Tyr Ser Ala Asn Ser Leu His Ile Gly Ile Pro Ala Arg Phe Ser Gly
50           55           60
  
```

```

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

eolf-seql

Glu Asp Phe Ala Val Tyr Phe Cys Gln Gln Tyr Tyr Asp Tyr Pro Leu
85 90 95

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

<210> 43
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 43
gaaatcgtga tgactcagtc tcctgctact ctgtccgtgt cccctgggtga acgtgctact 60
ctgtcctgtc gtacctccga agatatttac aacgggctgg cttgggtatca gcagaagccc 120
ggacaggccc ctaggctgct gatctactcc gctaattctc tgcacatcgg cattccagca 180
cggttctctg gtagtggctc aggaactgag tttaccctga caatttccag cctgcagagc 240
gaagacttcg cagtgtacta ttgccagcag tactatgatt atcccctggc ctttggcgga 300
gggaccaagg tcgagatcaa a 321

<210> 44
<211> 107
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 44

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

Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Glu Asp Ile Tyr Asn Gly
20 25 30

eolf-seql

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

Tyr Ser Ala Asn Ser Leu His Ile Gly Ile Pro Ala Arg Phe Ser Gly
50 55 60

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Tyr Pro Leu
85 90 95

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

<210> 45
<211> 321
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 45
gaaattgtga tgactcagag ccctgctaca ctgtccgtca gccctggaga acgtgctaca 60
ctgtcctgtc gcacctcaga agatatttac caggggctgg cttggatatca gcagaagccc 120
ggacaggccc ctaggctgct gatctactcc gctaacactc tgcacatcgg cattccagca 180
cggttctctg gtagtggctc aggaaccgag ttaccctga caatttccag cctgcagtct 240
gaagacttcg cagtgtacta ttgccagcag tactatgatt atcccctggc ctttggcgga 300
gggacaaagg tcgagatcaa a 321

<210> 46
<211> 107
<212> PRT
<213> Artificial Sequence

eolf-seql

<220>

<223> Synthetic sequence

<400> 46

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

Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Glu Asp Ile Tyr Gln Gly
20 25 30

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

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

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Tyr Pro Leu
85 90 95

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

<210> 47

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 47

ccactgtccg cacactatgg cttcaattac tttgattat

39

<210> 48

<211> 13

eolf-seql

<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 48

Pro	Leu	Ser	Ala	His	Tyr	Gly	Phe	Asn	Tyr	Phe	Asp	Tyr
1				5					10			

<210> 49
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 49
tgtcgcacct cagaagatat ttaccagggg ctggct

36

<210> 50
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 50

Cys	Arg	Thr	Ser	Glu	Asp	Ile	Tyr	Gln	Gly	Leu	Ala
1				5					10		

<210> 51
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 51
tccgctaaca ctctgcacat c

21

eolf-seql

<210> 52
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 52

Ser Ala Asn Thr Leu His Ile
 1 5

<210> 53
 <211> 1350
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 53
 cagggtgcagc tggtcgaatc aggggggggga ctggtcaaac ccgggggctc actgcgtctg 60
 tcatgtgccg tctcaggctt cacactgagc gactactata tggcatggat ccgacaggca 120
 ccaggcaagg gactggagtg ggtgtctact atttctgcc a gtggcctgag gacctactat 180
 cctgacagtg tcaagggaag gttcacaatc tcacgggata acgctaataaa ttccctgtac 240
 ctgcagatga acagcctgag agccgaagac accgctgtgt actattgcgc tcgcccactg 300
 tccgcacact atggcttcaa ttactttgat tattgggggc aggggtaccct ggtgacagtc 360
 tccagcgcta gcaccaaggg cccatcggtc ttccccctgg cgccctgctc caggagcacc 420
 tccgagagca cagccgccct gggctgcctg gtcaaggact acttccccga accggtgacg 480
 gtgtcgtgga actcaggcgc cctgaccagc ggcgtgcaca ctttcccggc tgtcctacag 540
 tcctcaggac tctactccct cagcagcgtg gtgaccgtgc cctccagcag cttgggcacg 600
 aagacctaca cctgcaacgt agatcacaag cccagcaaca ccaaggtgga caagagagtt 660
 gagtccaaat atgggtcccc atgcccacca tgcccagcac ctgagttcct gggggggacca 720

eolf-seql

```

tcagtcttcc tgttcccccc aaaacccaag gacacttctca tgatctcccg gacccttgag      780
gtcacgtgcg tgggtggtgga cgtgagccag gaagaccccg aggtccagtt caactggtac      840
gtggatggcg tggaggtgca taatgccaag acaaagccgc gggaggagca gttcaacagc      900
acgtaccgtg tggtcagcgt cctcaccgtc ctgcaccagg actggctgaa cggcaaggag      960
tacaagtgca aggtctccaa caaaggcctc ccgtcctcca tcgagaaaac catctccaaa     1020
gccaaagggc agccccgaga gccacaggtg tacaccctgc ccccatccca ggaggagatg     1080
accaagaacc aggtcagcct gacctgcctg gtcaaaggct tctaccccag cgacatcgcc     1140
gtggagtggg agagcaatgg gcagccggag aacaactaca agaccacgcc tcccgtgctg     1200
gactccgacg gctccttctt cctctacagc aggctaaccg tggacaagag caggtggcag     1260
gaggggaatg tcttctcatg ctccgtgatg catgaggctc tgcacaacca ctacacacag     1320
aagagcctct ccctgtctcc gggtaaataa                                     1350

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<210> 54
 <211> 449
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 54

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

```

```

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

```

```

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

```

```

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

```

eolf-seql

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

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

Ala Arg Pro Leu Ser Ala His Tyr Gly Phe Asn Tyr Phe Asp Tyr Trp
100 105 110

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

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

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

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

Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr
180 185 190

Val Pro Ser Ser Ser Leu Gly Thr Lys Thr Tyr Thr Cys Asn Val Asp
195 200 205

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

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

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

eolf-seql

Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser Gln Glu Asp
260 265 270

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

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

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

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

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

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

Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
370 375 380

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

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

Ser Arg Trp Gln Glu Gly Asn Val Phe Ser Cys Ser Val Met His Glu
420 425 430

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
435 440 445

eolf-seql

Lys

<210> 55
 <211> 642
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 55
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 ctgtcctgtc gcacctcaga agatatttac caggggctgg cttggatatca gcagaagccc 120
 ggacaggccc ctaggctgct gatctactcc gctaacactc tgcacatcgg cattccagca 180
 cggttctctg gtagtggctc aggaaccgag tttaccctga caatttccag cctgcagtct 240
 gaagacttcg cagtgtacta ttgccagcag tactatgatt atcccctggc ctttggcgga 300
 gggacaaagg tcgagatcaa aacgggtggct gcaccatctg tcttcatctt cccgccatct 360
 gatgagcagt tgaaatctgg aactgcctct gttgtgtgcc tgctgaataa cttctatccc 420
 agagaggcca aagtacagtg gaagggtgat aacgccctcc aatcgggtaa ctcccaggag 480
 agtgtcacag agcaggacag caaggacagc acctacagcc tcagcagcac cctgacgctg 540
 agcaaagcag actacgagaa acacaaagtc tacgcctgcg aagtcaccca tcagggcctg 600
 agctcgcccc tcacaaagag cttcaacagg ggagagtgtt ag 642

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

<220>
 <223> Synthetic sequence

<400> 56

eolf-seql

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

Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Glu Asp Ile Tyr Gln Gly
20 25 30

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

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

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

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Tyr Pro Leu
85 90 95

Ala Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Thr Val Ala Ala Pro
100 105 110

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

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

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

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

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

eolf-seql

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

Asn Arg Gly Glu Cys
 210

<210> 57
 <211> 439
 <212> PRT
 <213> Homo Sapiens

<400> 57

Glu Ser Gly Tyr Ala Gln Asn Gly Asp Leu Glu Asp Ala Glu Leu Asp
 1 5 10 15

Asp Tyr Ser Phe Ser Cys Tyr Ser Gln Leu Glu Val Asn Gly Ser Gln
 20 25 30

His Ser Leu Thr Cys Ala Phe Glu Asp Pro Asp Val Asn Thr Thr Asn
 35 40 45

Leu Glu Phe Glu Ile Cys Gly Ala Leu Val Glu Val Lys Cys Leu Asn
 50 55 60

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

Leu Ile Gly Lys Ser Asn Ile Cys Val Lys Val Gly Glu Lys Ser Leu
 85 90 95

Thr Cys Lys Lys Ile Asp Leu Thr Thr Ile Val Lys Pro Glu Ala Pro
 100 105 110

Phe Asp Leu Ser Val Ile Tyr Arg Glu Gly Ala Asn Asp Phe Val Val
 115 120 125

Thr Phe Asn Thr Ser His Leu Gln Lys Lys Tyr Val Lys Val Leu Met

eolf-seql

130

135

140

His Asp Val Ala Tyr Arg Gln Glu Lys Asp Glu Asn Lys Trp Thr His
145 150 155 160

Val Asn Leu Ser Ser Thr Lys Leu Thr Leu Leu Gln Arg Lys Leu Gln
165 170 175

Pro Ala Ala Met Tyr Glu Ile Lys Val Arg Ser Ile Pro Asp His Tyr
180 185 190

Phe Lys Gly Phe Trp Ser Glu Trp Ser Pro Ser Tyr Tyr Phe Arg Thr
195 200 205

Pro Glu Ile Asn Asn Ser Ser Gly Glu Met Asp Pro Ile Leu Leu Thr
210 215 220

Ile Ser Ile Leu Ser Phe Phe Ser Val Ala Leu Leu Val Ile Leu Ala
225 230 235 240

Cys Val Leu Trp Lys Lys Arg Ile Lys Pro Ile Val Trp Pro Ser Leu
245 250 255

Pro Asp His Lys Lys Thr Leu Glu His Leu Cys Lys Lys Pro Arg Lys
260 265 270

Asn Leu Asn Val Ser Phe Asn Pro Glu Ser Phe Leu Asp Cys Gln Ile
275 280 285

His Arg Val Asp Asp Ile Gln Ala Arg Asp Glu Val Glu Gly Phe Leu
290 295 300

Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu Ser Glu Lys Gln Arg Leu
305 310 315 320

Gly Gly Asp Val Gln Ser Pro Asn Cys Pro Ser Glu Asp Val Val Ile

eolf-seql

325

330

335

Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser Leu Thr Cys Leu Ala Gly
340 345 350

Asn Val Ser Ala Cys Asp Ala Pro Ile Leu Ser Ser Ser Arg Ser Leu
355 360 365

Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro His Val Tyr Gln Asp Leu
370 375 380

Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr Leu Pro Pro Pro Phe Ser
385 390 395 400

Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro Val Ala Gln Gly Gln Pro
405 410 415

Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu Glu Ala Tyr Val Thr Met
420 425 430

Ser Ser Phe Tyr Gln Asn Gln
435

<210> 58

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 58

Glu Ser Gly Tyr Ala Gln Asn Gly Asp Leu Glu Asp Ala Glu Leu
1 5 10 15

<210> 59

<211> 15

<212> PRT

eolf-seql

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 59

Ala	Gln	Asn	Gly	Asp	Leu	Glu	Asp	Ala	Glu	Leu	Asp	Asp	Tyr	Ser
1				5					10					15

<210> 60

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 60

Asp	Leu	Glu	Asp	Ala	Glu	Leu	Asp	Asp	Tyr	Ser	Phe	Ser	Cys	Tyr
1				5					10					15

<210> 61

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 61

Ala	Glu	Leu	Asp	Asp	Tyr	Ser	Phe	Ser	Cys	Tyr	Ser	Gln	Leu	Glu
1				5					10					15

<210> 62

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 62

eolf-seql

Asp	Tyr	Ser	Phe	Ser	Cys	Tyr	Ser	Gln	Leu	Glu	Val	Asn	Gly	Ser
1				5					10					15

<210> 63
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 63

Ser	Cys	Tyr	Ser	Gln	Leu	Glu	Val	Asn	Gly	Ser	Gln	His	Ser	Leu
1				5					10					15

<210> 64
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 64

Gln	Leu	Glu	Val	Asn	Gly	Ser	Gln	His	Ser	Leu	Thr	Cys	Ala	Phe
1				5					10					15

<210> 65
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 65

Asn	Gly	Ser	Gln	His	Ser	Leu	Thr	Cys	Ala	Phe	Glu	Asp	Pro	Asp
1				5					10					15

<210> 66

eolf-seql

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

<220>
 <223> Synthetic sequence

<400> 66

His	Ser	Leu	Thr	Cys	Ala	Phe	Glu	Asp	Pro	Asp	Val	Asn	Thr	Thr
1				5					10					15

<210> 67
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 67

Cys	Ala	Phe	Glu	Asp	Pro	Asp	Val	Asn	Thr	Thr	Asn	Leu	Glu	Phe
1				5					10					15

<210> 68
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 68

Asp	Pro	Asp	Val	Asn	Thr	Thr	Asn	Leu	Glu	Phe	Glu	Ile	Cys	Gly
1				5					10					15

<210> 69
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

eolf-seql

<400> 69

Asn	Thr	Thr	Asn	Leu	Glu	Phe	Glu	Ile	Cys	Gly	Ala	Leu	Val	Glu
1				5					10					15

<210> 70

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 70

Leu	Glu	Phe	Glu	Ile	Cys	Gly	Ala	Leu	Val	Glu	Val	Lys	Cys	Leu
1				5					10					15

<210> 71

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 71

Ile	Cys	Gly	Ala	Leu	Val	Glu	Val	Lys	Cys	Leu	Asn	Phe	Arg	Lys
1				5					10					15

<210> 72

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 72

Leu	Val	Glu	Val	Lys	Cys	Leu	Asn	Phe	Arg	Lys	Leu	Gln	Glu	Ile
1				5					10					15

eolf-seql

<210> 73
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 73

Lys	Cys	Leu	Asn	Phe	Arg	Lys	Leu	Gln	Glu	Ile	Tyr	Phe	Ile	Glu
1				5				10					15	

<210> 74
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 74

Phe	Arg	Lys	Leu	Gln	Glu	Ile	Tyr	Phe	Ile	Glu	Thr	Lys	Lys	Phe
1			5					10					15	

<210> 75
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 75

Gln	Glu	Ile	Tyr	Phe	Ile	Glu	Thr	Lys	Lys	Phe	Leu	Leu	Ile	Gly
1				5				10					15	

<210> 76
 <211> 15
 <212> PRT
 <213> Artificial Sequence

eolf-seql

<220>

<223> Synthetic sequence

<400> 76

Phe	Ile	Glu	Thr	Lys	Lys	Phe	Leu	Leu	Ile	Gly	Lys	Ser	Asn	Ile
1				5					10					15

<210> 77

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 77

Lys	Lys	Phe	Leu	Leu	Ile	Gly	Lys	Ser	Asn	Ile	Cys	Val	Lys	Val
1			5						10					15

<210> 78

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 78

Leu	Ile	Gly	Lys	Ser	Asn	Ile	Cys	Val	Lys	Val	Gly	Glu	Lys	Ser
1			5						10					15

<210> 79

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 79

Ser Asn Ile Cys Val Lys Val Gly Glu Lys Ser Leu Thr Cys Lys

		eolf-seql	
1	5	10	15

<210> 80
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 80

Val	Lys	Val	Gly	Glu	Lys	Ser	Leu	Thr	Cys	Lys	Lys	Ile	Asp	Leu
1				5					10					15

<210> 81
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 81

Glu	Lys	Ser	Leu	Thr	Cys	Lys	Lys	Ile	Asp	Leu	Thr	Thr	Ile	Val
1				5					10					15

<210> 82
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 82

Thr	Cys	Lys	Lys	Ile	Asp	Leu	Thr	Thr	Ile	Val	Lys	Pro	Glu	Ala
1				5					10					15

<210> 83
 <211> 15
 <212> PRT

eolf-seql

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 83

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

<210> 84

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 84

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

<210> 85

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 85

Pro	Glu	Ala	Pro	Phe	Asp	Leu	Ser	Val	Ile	Tyr	Arg	Glu	Gly	Ala
1				5					10					15

<210> 86

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 86

eolf-seql

Phe	Asp	Leu	Ser	Val	Ile	Tyr	Arg	Glu	Gly	Ala	Asn	Asp	Phe	Val
1				5					10					15

<210> 87
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 87

Val	Ile	Tyr	Arg	Glu	Gly	Ala	Asn	Asp	Phe	Val	Val	Thr	Phe	Asn
1				5					10					15

<210> 88
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 88

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

<210> 89
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 89

Asp	Phe	Val	Val	Thr	Phe	Asn	Thr	Ser	His	Leu	Gln	Lys	Lys	Tyr
1				5					10					15

<210> 90

eolf-seql

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

<220>
 <223> Synthetic sequence

<400> 90

Thr	Phe	Asn	Thr	Ser	His	Leu	Gln	Lys	Lys	Tyr	Val	Lys	Val	Leu
1				5				10						15

<210> 91
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 91

Ser	His	Leu	Gln	Lys	Lys	Tyr	Val	Lys	Val	Leu	Met	His	Asp	Val
1				5				10						15

<210> 92
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 92

Lys	Lys	Tyr	Val	Lys	Val	Leu	Met	His	Asp	Val	Ala	Tyr	Arg	Gln
1				5				10						15

<210> 93
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

eolf-seql

<400> 93

Lys	Val	Leu	Met	His	Asp	Val	Ala	Tyr	Arg	Gln	Glu	Lys	Asp	Glu
1				5					10					15

<210> 94

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 94

His	Asp	Val	Ala	Tyr	Arg	Gln	Glu	Lys	Asp	Glu	Asn	Lys	Trp	Thr
1				5					10					15

<210> 95

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 95

Tyr	Arg	Gln	Glu	Lys	Asp	Glu	Asn	Lys	Trp	Thr	His	Val	Asn	Leu
1				5					10					15

<210> 96

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 96

Lys	Asp	Glu	Asn	Lys	Trp	Thr	His	Val	Asn	Leu	Ser	Ser	Thr	Lys
1				5					10					15

eolf-seql

<210> 97
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 97

Lys	Trp	Thr	His	Val	Asn	Leu	Ser	Ser	Thr	Lys	Leu	Thr	Leu	Leu
1				5					10					15

<210> 98
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 98

Val	Asn	Leu	Ser	Ser	Thr	Lys	Leu	Thr	Leu	Leu	Gln	Arg	Lys	Leu
1				5					10					15

<210> 99
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 99

Ser	Thr	Lys	Leu	Thr	Leu	Leu	Gln	Arg	Lys	Leu	Gln	Pro	Ala	Ala
1				5					10					15

<210> 100
 <211> 15
 <212> PRT
 <213> Artificial Sequence

eolf-seql

<220>

<223> Synthetic sequence

<400> 100

Thr	Leu	Leu	Gln	Arg	Lys	Leu	Gln	Pro	Ala	Ala	Met	Tyr	Glu	Ile
1				5					10					15

<210> 101

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 101

Arg	Lys	Leu	Gln	Pro	Ala	Ala	Met	Tyr	Glu	Ile	Lys	Val	Arg	Ser
1				5					10					15

<210> 102

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 102

Pro	Ala	Ala	Met	Tyr	Glu	Ile	Lys	Val	Arg	Ser	Ile	Pro	Asp	His
1				5					10					15

<210> 103

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 103

Tyr Glu Ile Lys Val Arg Ser Ile Pro Asp His Tyr Phe Lys Gly

		eolf-seql	
1	5	10	15

<210> 104
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 104

Val	Arg	Ser	Ile	Pro	Asp	His	Tyr	Phe	Lys	Gly	Phe	Trp	Ser	Glu
1				5					10					15

<210> 105
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 105

Pro	Asp	His	Tyr	Phe	Lys	Gly	Phe	Trp	Ser	Glu	Trp	Ser	Pro	Ser
1				5					10					15

<210> 106
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 106

Phe	Lys	Gly	Phe	Trp	Ser	Glu	Trp	Ser	Pro	Ser	Tyr	Tyr	Phe	Arg
1				5					10					15

<210> 107
 <211> 15
 <212> PRT

eolf-seql

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 107

Trp	Ser	Glu	Trp	Ser	Pro	Ser	Tyr	Tyr	Phe	Arg	Thr	Pro	Glu	Ile
1				5					10					15

<210> 108

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 108

Ser	Pro	Ser	Tyr	Tyr	Phe	Arg	Thr	Pro	Glu	Ile	Asn	Asn	Ser	Ser
1				5					10					15

<210> 109

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 109

Tyr	Phe	Arg	Thr	Pro	Glu	Ile	Asn	Asn	Ser	Ser	Gly	Glu	Met	Asp
1				5					10					15

<210> 110

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 110

eolf-seql

Lys Cys Leu Asn Phe Arg Lys Leu Gln Glu Ile Tyr Phe Ile Glu Thr
1 5 10 15

Lys Lys Phe Leu Leu Ile Gly Lys Ser Asn Ile Cys Val Lys Val
20 25 30

<210> 111
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 111

Tyr Glu Ile Lys Val Arg Ser Ile Pro Asp His Tyr Phe Lys Gly Phe
1 5 10 15

Trp Ser Glu Trp Ser Pro Ser Tyr Tyr Phe Arg Thr Pro Glu Ile
20 25 30

<210> 112
<211> 327
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 112

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

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

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

eolf-seql

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

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

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

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

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

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

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

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

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

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

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

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

eolf-seql

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

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

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

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

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

Leu Ser Leu Ser Pro Gly Lys
325

<210> 113

<211> 459

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 113

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

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

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

Asn Gly Ser Gln His Ser Leu Thr Cys Ala Phe Glu Asp Pro Asp Val

eolf-seql

50

55

60

Asn Thr Thr Asn Leu Glu Phe Glu Ile Cys Gly Ala Leu Val Glu Val
65 70 75 80

Lys Cys Leu Asn Phe Arg Lys Leu Gln Glu Ile Tyr Phe Ile Glu Thr
85 90 95

Lys Lys Phe Leu Leu Ile Gly Lys Ser Asn Ile Cys Val Lys Val Gly
100 105 110

Glu Lys Ser Leu Thr Cys Lys Lys Ile Asp Leu Thr Thr Ile Val Lys
115 120 125

Pro Glu Ala Pro Phe Asp Leu Ser Val Ile Tyr Arg Glu Gly Ala Asn
130 135 140

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

Lys Val Leu Met His Asp Val Ala Tyr Arg Gln Glu Lys Asp Glu Asn
165 170 175

Lys Trp Thr His Val Asn Leu Ser Ser Thr Lys Leu Thr Leu Leu Gln
180 185 190

Arg Lys Leu Gln Pro Ala Ala Met Tyr Glu Ile Lys Val Arg Ser Ile
195 200 205

Pro Asp His Tyr Phe Lys Gly Phe Trp Ser Glu Trp Ser Pro Ser Tyr
210 215 220

Tyr Phe Arg Thr Pro Glu Ile Asn Asn Ser Ser Gly Glu Met Asp Pro
225 230 235 240

Ile Leu Leu Thr Ile Ser Ile Leu Ser Phe Phe Ser Val Ala Leu Leu

eolf-seql

245

250

255

Val Ile Leu Ala Cys Val Leu Trp Lys Lys Arg Ile Lys Pro Ile Val
260 265 270

Trp Pro Ser Leu Pro Asp His Lys Lys Thr Leu Glu His Leu Cys Lys
275 280 285

Lys Pro Arg Lys Asn Leu Asn Val Ser Phe Asn Pro Glu Ser Phe Leu
290 295 300

Asp Cys Gln Ile His Arg Val Asp Asp Ile Gln Ala Arg Asp Glu Val
305 310 315 320

Glu Gly Phe Leu Gln Asp Thr Phe Pro Gln Gln Leu Glu Glu Ser Glu
325 330 335

Lys Gln Arg Leu Gly Gly Asp Val Gln Ser Pro Asn Cys Pro Ser Glu
340 345 350

Asp Val Val Ile Thr Pro Glu Ser Phe Gly Arg Asp Ser Ser Leu Thr
355 360 365

Cys Leu Ala Gly Asn Val Ser Ala Cys Asp Ala Pro Ile Leu Ser Ser
370 375 380

Ser Arg Ser Leu Asp Cys Arg Glu Ser Gly Lys Asn Gly Pro His Val
385 390 395 400

Tyr Gln Asp Leu Leu Leu Ser Leu Gly Thr Thr Asn Ser Thr Leu Pro
405 410 415

Pro Pro Phe Ser Leu Gln Ser Gly Ile Leu Thr Leu Asn Pro Val Ala
420 425 430

Gln Gly Gln Pro Ile Leu Thr Ser Leu Gly Ser Asn Gln Glu Glu Ala

eolf-seql

435

440

445

Tyr Val Thr Met Ser Ser Phe Tyr Gln Asn Gln
450 455

<210> 114

<211> 219

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 114

Glu Ser Gly Tyr Ala Gln Asn Gly Asp Leu Glu Asp Ala Glu Leu Asp
1 5 10 15

Asp Tyr Ser Phe Ser Cys Tyr Ser Gln Leu Glu Val Asn Gly Ser Gln
20 25 30

His Ser Leu Thr Cys Ala Phe Glu Asp Pro Asp Val Asn Thr Thr Asn
35 40 45

Leu Glu Phe Glu Ile Cys Gly Ala Leu Val Glu Val Lys Cys Leu Asn
50 55 60

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

Leu Ile Gly Lys Ser Asn Ile Cys Val Lys Val Gly Glu Lys Ser Leu
85 90 95

Thr Cys Lys Lys Ile Asp Leu Thr Thr Ile Val Lys Pro Glu Ala Pro
100 105 110

Phe Asp Leu Ser Val Ile Tyr Arg Glu Gly Ala Asn Asp Phe Val Val
115 120 125

eolf-seql

Thr Phe Asn Thr Ser His Leu Gln Lys Lys Tyr Val Lys Val Leu Met
130 135 140

His Asp Val Ala Tyr Arg Gln Glu Lys Asp Glu Asn Lys Trp Thr His
145 150 155 160

Val Asn Leu Ser Ser Thr Lys Leu Thr Leu Leu Gln Arg Lys Leu Gln
165 170 175

Pro Ala Ala Met Tyr Glu Ile Lys Val Arg Ser Ile Pro Asp His Tyr
180 185 190

Phe Lys Gly Phe Trp Ser Glu Trp Ser Pro Ser Tyr Tyr Phe Arg Thr
195 200 205

Pro Glu Ile Asn Asn Ser Ser Gly Glu Met Asp
210 215

<210> 115
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 115

Phe Ile Glu Thr Lys Lys Phe
1 5

<210> 116
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 116

eolf-seql

Asp Leu Ser Val Ile Tyr
1 5

<210> 117
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 117

Phe Lys Gly Phe
1

<210> 118
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 118

Arg Lys Leu Gln Glu Ile Tyr Phe Ile Glu Thr Lys Lys Phe
1 5 10

<210> 119
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence

<400> 119

Asn Phe Arg Lys Leu Gln Glu Ile Tyr Phe Ile Glu Thr Lys Lys Phe
1 5 10 15

<210> 120

eolf-seql

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

<220>
 <223> Synthetic sequence

<400> 120

Asp	Leu	Ser	Val	Ile	Tyr	Arg	Glu	Gly	Ala	Asn	Asp	Phe	Val	Val	Thr
1				5					10					15	

Phe

<210> 121
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 121

Val	Val	Thr	Phe	Asn	Thr	Ser	His	Leu	Gln	Lys	Lys	Tyr
1				5					10			

<210> 122
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 122

Glu	Ile	Lys	Val	Arg	Ser	Ile	Pro	Asp	His	Tyr	Phe	Lys	Gly	Phe
1				5					10					15

<210> 123
 <211> 16
 <212> PRT

eolf-seql

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 123

Glu	Ile	Lys	Val	Arg	Ser	Ile	Pro	Asp	His	Tyr	Phe	Lys	Gly	Phe	Trp
1				5					10					15	

<210> 124

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 124

Glu	Ile	Lys	Val	Arg	Ser	Ile	Pro	Asp	His	Tyr	Phe	Lys	Gly	Phe	Trp
1				5					10					15	

Ser Glu Trp

<210> 125

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 125

Glu	Ile	Lys	Val	Arg	Ser	Ile	Pro	Asp	His	Tyr	Phe	Lys	Gly	Phe	Trp
1				5					10					15	

Ser	Glu	Trp	Ser	Pro	Ser	Tyr
			20			

<210> 126

eolf-seql

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

<220>
 <223> Synthetic sequence

<400> 126

Phe Lys Gly Phe Trp Ser Glu Trp
 1 5

<210> 127
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 127

Ile Tyr Phe Ile Glu Thr Lys Lys Phe Leu Leu Ile Gly Lys Ser Asn
 1 5 10 15

Ile Cys Val Lys Val Gly Glu
 20

<210> 128
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 128

Lys Ser Leu Thr Cys Lys Lys Ile Asp Leu Thr Thr Ile Val Lys Pro
 1 5 10 15

Glu Ala Pro Phe Asp Leu Ser Val Ile Tyr Arg Glu
 20 25

eolf-seql

<210> 129
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 129

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

Tyr Arg Glu

<210> 130
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 130

Ala Pro Phe Asp Leu Ser Val Ile Tyr Arg Glu
 1 5 10

<210> 131
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Synthetic sequence

<400> 131

Asn Lys Trp Thr His Val Asn Leu Ser Ser Thr Lys Leu Thr Leu Leu
 1 5 10 15

Gln Arg Lys Leu Gln Pro Ala Ala Met Tyr Glu

eolf-seql

20

25

<210> 132

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence

<400> 132

Ile Lys Val Arg Ser Ile Pro Asp His Tyr Phe Lys Gly Phe Trp Ser
1 5 10 15

Glu